	Daily Report		Report Date: 12/18/2019
	Well Name: Lone Ranger SWD #1 Rig Name:		Report No: 3
Division: County: Martin State: Texas	Field Name: Spraberry API Number: 42-317-42648 AFE Number: Lonestar	Spud Date (Original): 11/18/2019	
		KB-GL: 25.0 Ground Elevation: 2,847.0 KB Elevation: 2,872.0	

Daily Operations

Name Stephen Smith	Mobile Phone 817-798-0771
Name Jason Fontenot	Office Phone 432-614-4520

Activity Summary
Spot 4 single manifold and 2 lined frac tanks. Fill single manifold with 2000 bbls FW. Cut mousehole 5' in cellar and fab lid. Building cellar covers, pour ready mix cement in cellar to bottom of SOW. C/O blind flange on tree with 5 1/8" 10M flange x 3" 1502 with plug. PU trash on and surrounding location, load all misc items into trash trailer. Shut down for night.

Current Status
Standing by

Incident Summary
Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
Hand Safety

EHS Comment

Report Cost 15,864.00	Job Cost 93,281.50
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Casing


Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0
5.5" 17# HCL-80 BTC IPC Production Casing	12/11/2019 14:45:00	25.0	12,051.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Comments
06:00	21:00	15.00	15.00	Prod Csg	F - Other	Spot 4 single manifold and 2 lined frac tanks. Fill single manifold with 2000 bbls FW. Cut mousehole 5' in cellar and fab lid. Building cellar covers, pour ready mix cement in cellar to bottom of SOW. C/O blind flange on tree with 5 1/8" 10M flange x 3" 1502 with plug. PU trash on and surrounding location, load all misc items into trash trailer.
21:00	06:00	9.00	24.00	Prod Csg	F - Other	Shut down wait on daylight

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cum Daily Cost
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	0.00	525.00	1,575.00
INTN	320.27	EQUIPMENT RENTAL	0.00	4,368.00	4,838.00
INTN	320.34	OVERHEAD	0.00	2,200.00	6,600.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	0.00	1,800.00	5,400.00
INTN	320.36	ENGIN/GEO/LAB SERV/TRACE DIAGN	0.00	1,800.00	5,400.00
INTN	320.37	ROUSTABOUT / CONTRACT LABOR	0.00	1,969.00	6,080.00
INTN	320.38	WELDING SERVICES	0.00	3,202.00	3,202.00
INTN		Sub-Total	0.00	15,864.00	33,095.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	0.00	0.00	60,186.50
TANG		Sub-Total	0.00	0.00	60,186.50
		Total	0.00	15,864.00	93,281.50

	Daily Report		Report Date: 12/17/2019
	Well Name: Lone Ranger SWD #1 Rig Name:		Report No: 2
Division: County: Martin State: Texas	Field Name: Spraberry API Number: 42-317-42648 AFE Number: Lonestar	Spud Date (Original): 11/18/2019	
		KB-GL: 25.0 Ground Elevation: 2,847.0 KB Elevation: 2,872.0	

Daily Operations

Name Jason Fontenot	Office Phone 432-614-4520
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Activity Summary
Performed H5 test, witnessed by Field Inspector Steven Hayes of the TRRC. Installed piping, gauges, and needle valves on all casing valves. Dropped ball, allowed 37 minutes to fall, rupture pump out plug. Performed 2nd H5 test, good test. Shut down for night, standby .

Current Status
Standby

Incident Summary
Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
Hi pressure pumping.

EHS Comment

Report Cost 8,452.00	Job Cost 77,417.50
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Casing


Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0
5.5" 17# HCL-80 BTC IPC Production Casing	12/11/2019 14:45:00	25.0	12,051.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Comments
06:00	11:30	5.50	5.50	Prod Csg	F - Other	Motor grader leveling off location
11:30	14:30	3.00	8.50	Prod Csg	E - Testing	Steven Hayes-TRRC field inspector arrived on location @ 10:50, Monahans Arrived @11:35. Held safety meeting, rigged up test unit onto 5.5" x 7 5/8" casing valve, Opened tree valves, applied 550 psi. Noticed test pressure gauge showed 550 psi and chart only showed 250 psi. Attempted to calibrate chart recorder, unsuccessful. Called for another chart recorder, while field inspector went on another job.
14:30	16:00	1.50	10.00	Prod Csg	F - Other	Installed remote valves with needle valve gauges, and needle valves from casing valves in cellar to the surface.
16:00	18:00	2.00	12.00	Prod Csg	F - Other	Removed top flange on production tree assembly. With tubing full of FW, Drop 1" steel ball, allowed 37 minutes to land in 3/4" seat. Replaced top flange and tighten same. Rig up pump truck and applied pressure to tubing in 100 psi increments, ruptured pump out plug with 3200 psi. Pressure bled to 0 psi.
18:00	19:00	1.00	13.00	Prod Csg	E - Testing	TRRC field inspector returned to location, applied 550 psi with pump truck to 5 1/2" x 7 5/8" annulus to test seal assy, pressure bled back to 540 psi, held test for 30 minutes, good test. Rig down test truck, Had chart signed by TRRC Field inspector, Taurus Midstream Rep, and H and J Rep.
19:00	06:00	11.00	24.00	Prod Csg	F - Other	Standing by for completion phase, working as directed.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cum Daily Cost
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	0.00	525.00	1,050.00
INTN	320.27	EQUIPMENT RENTAL	0.00	235.00	470.00
INTN	320.34	OVERHEAD	0.00	2,200.00	4,400.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	0.00	1,800.00	3,600.00
INTN	320.36	ENGIN/GEO/LAB SERV/TRACE DIAGN	0.00	1,800.00	3,600.00
INTN	320.37	ROUSTABOUT / CONTRACT LABOR	0.00	1,892.00	4,111.00
INTN		Sub-Total	0.00	8,452.00	17,231.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	0.00	0.00	60,186.50
TANG		Sub-Total	0.00	0.00	60,186.50
		Total	0.00	8,452.00	77,417.50

	Daily Report		Report Date: 12/16/2019
	Well Name: Lone Ranger SWD #1 Rig Name:		Report No: 1
Division: County: Martin State: Texas	Field Name: Spraberry API Number: 42-317-42648 AFE Number: Lonestar	Spud Date (Original): 11/18/2019	
		KB-GL: 25.0 Ground Elevation: 2,847.0 KB Elevation: 2,872.0	

Daily Operations

Name Jason Fontenot	Office Phone 432-614-4520
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Activity Summary
Install production tree assembly, tested, standby for completion phase.

Current Status
standing by

Incident Summary
Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
Hand safety

EHS Comment

Report Cost 85,806.50	Job Cost 85,806.50
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0
5.5" 17# HCL-80 BTC IPC Production Casing	12/11/2019 14:45:00	25.0	12,051.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Comments
06:00	10:00	4.00	4.00	Prod Csg	F - Other	Open casing valve and bled off valve on nightcap, no pressure or vacuum. Install production tree assembly. Test void to 10k for 5 minutes, good test.
10:00	06:00	20.00	24.00	Prod Csg	F - Other	Standing by for completion.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cum Daily Cost
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	0.00	525.00	525.00
INTN	320.27	EQUIPMENT RENTAL	0.00	235.00	235.00
INTN	320.34	OVERHEAD	0.00	2,200.00	2,200.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	0.00	1,800.00	1,800.00
INTN	320.36	ENGIN/GEO/LAB SERV/TRACE DIAGN	0.00	1,800.00	1,800.00
INTN	320.37	ROUSTABOUT / CONTRACT LABOR	0.00	2,219.00	2,219.00
INTN		Sub-Total	0.00	8,779.00	8,779.00
TANG	321.03	LINER HANGER ASSEMBLY	0.00	16,841.00	16,841.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	0.00	60,186.50	60,186.50
TANG		Sub-Total	0.00	77,027.50	77,027.50
		Total	0.00	85,806.50	85,806.50



Daily Report

Report Date: 12/15/2019
 Report No: 34
 Days From Spud: 26.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
Activity Summary Finish loading out rig to new location. 100% moved out. Sent landing joints, wear bushings, test plug, bushing puller to Encore Yard.	
Current Status Standby	
24 Hr Forecast Standby	
Incident Summary Injuries: 0 Incidents: 0 Spills: 0	
Safety Topic Working with cranes and trucks	
EHS Comment No incidents/no accidents	
Limiting Factor	

Progress (ft) 0.0	Depth End (ft) 13,180.0	Drill Time (hrs) 0.0	Daily Cost 22,610.00	Cumulative Cost 2,913,600.99
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0
5.5" 17# HCL-80 BTC IPC Production Casing	12/11/2019 14:45:00	25.0	12,051.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	18:00	12.00	12.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Finish loading out rig equipment to new location
18:00	06:00	12.00	24.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Standby, waiting on completion

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	13,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	127,900.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	16,200.00	536,700.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	525.00	57,467.98
INTN	310.15	DRILL BITS	73,000.00	0.00	70,465.40
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	163,765.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	92,559.91
INTN	310.19	FUEL / POWER	76,214.27	0.00	95,992.15
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	43,119.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	35,137.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	8,046.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	31,060.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	190,174.32
INTN	310.27	MUD LOGGING	0.00	0.00	16,372.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	83,950.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	85.00	69,322.15
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	95,400.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	1,800.00	104,800.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	1,800.00	98,150.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	9,320.95
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00

INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	3,877.50
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	12,960.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	0.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	22,610.00	2,121,167.75
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	155,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	49,830.80
TANG	311.06	MISCELLANEOUS	0.00	0.00	35,945.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	232,427.98
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	5,870.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	792,433.24
		Total	3,051,379.92	22,610.00	2,913,600.99

Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
0.0	0.00			0.00	

Drilling String Components					
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Mud Pumps					
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Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 12/14/2019
 Report No: 33
 Days From Spud: 25.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot		Mobile Phone (337) 831-7652
Activity Summary Rig down load out to new location. Hauled 49 loads. 80% moved out. Shut down for night, Wait on daylight.		
Current Status Waiting on daylight.		
24 Hr Forecast Continue to move rig to new location. Clean up location.		
Incident Summary Injuries: 1 Incidents: 0 Spills: 0		
Safety Topic Working with cranes and trucks		
EHS Comment		
Limiting Factor Darkness		
Progress (ft) 0.0	Depth End (ft) 13,180.0	Drill Time (hrs) 0.0
Daily Cost 22,610.00		Cumulative Cost 2,919,634.10

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0
5.5" 17# HCL-80 BTC IPC Production Casing	12/11/2019 14:45:00	25.0	12,051.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	18:00	12.00	12.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Safety meeting with Ensign and Tr-State moving crews. Rig down and move out to new location. Loaded out 49 loads. Rig is 80% moved out.
18:00	06:00	12.00	24.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Shut down for night. Wait on daylight.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	13,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	16,200.00	532,650.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	525.00	56,942.98
INTN	310.15	DRILL BITS	73,000.00	0.00	107,241.40
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	160,190.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	109,563.66
INTN	310.19	FUEL / POWER	76,214.27	0.00	95,992.15
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	43,119.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	35,137.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	34,483.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	0.00	14,400.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	85.00	67,727.15
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	93,200.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	3,600.00	158,000.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	29,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	3,877.50
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00

INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	22,610.00	2,076,622.41
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.06	MISCELLANEOUS	0.00	0.00	35,945.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	232,427.98
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	1,827.50
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	843,011.69
		Total	3,051,379.92	22,610.00	2,919,634.10

Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
0.0	0.00			0.00	

Drilling String Components								

Mud Pumps								

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 12/13/2019
 Report No: 32
 Days From Spud: 24.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
Activity Summary Change pipe rams. clean mud pits. Release rig at 16:00 on 12/12/2019. Called TRRC to postpone H5 test to Monday 12/16/2019 11 am. Linda-Operator #8 took the report. Rigging down while cleaning on mud pits, squat subs and lay down derrick @ 22:00.	
Current Status Night crew rigging down, waiting on trucks.	
24 Hr Forecast Load out 40 loads to new location.	
Incident Summary Injuries: 0 Incidents: 0 Spills: 0	
Safety Topic Working with cranes	
EHS Comment No incidents/no accidents	
Limiting Factor	

Progress (ft) 0.0	Depth End (ft) 13,180.0	Drill Time (hrs) 0.0	Daily Cost 62,560.00	Cumulative Cost 2,897,024.10
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0
5.5" 17# HCL-80 BTC IPC Production Casing	12/11/2019 14:45:00	25.0	12,051.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	16:00	10.00	10.00	Prod Csg	21 - Other	Vert		Change pipe rams. clean mud pits. Release rig at 16:00 on 12/12/2019. Called TRRC to postpone H5 test to Monday 12/16/2019 11 am. Linda-Operator #8 took the report. Rigging down while cleaning on mud pits, squat subs. Load out and release rental equipment not needed.
16:00	06:00	14.00	24.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Lay down derrick onto jacks and continue working extra hands throughout the night. Disassembling electric , water, and air lines and ready thr rig for trucking.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	13,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	7,500.00	516,450.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	920.00	56,417.98
INTN	310.15	DRILL BITS	73,000.00	40,125.00	107,241.40
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	160,190.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	109,563.66
INTN	310.19	FUEL / POWER	76,214.27	1,400.00	95,992.15
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	43,119.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	35,137.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	34,483.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	0.00	14,400.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	6,815.00	67,642.15
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	91,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	3,600.00	154,400.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	29,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	3,877.50
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50

INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	62,560.00	2,054,012.41
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.06	MISCELLANEOUS	0.00	0.00	35,945.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	232,427.98
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	1,827.50
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	843,011.69
		Total	3,051,379.92	62,560.00	2,897,024.10

Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
0.0	0.00			0.00	

Drilling String Components								
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Mud Pumps								
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Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 12/12/2019
 Report No: 31
 Days From Spud: 23.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
Name Jerry Chandler	Mobile Phone 580-775-5856

Activity Summary
 Run 5.5" set @ 12,036', spaced out, displace fresh water with Packer fluid, P/U landing joint pull test @ 20k over, set 75k on Packer, land out, R/D casing crew, test packer seals @ 550 psi for 30 min., nipple down BOP to set Pack off, set Pack off & install blind cap, cleaning mud pits, torque stack on traveler stand

Current Status
 cleaning mud pits & torque stack on traveler stand

24 Hr Forecast
 finish cleaning mud pits, Release Rig, Rig Down

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Running casing & working overhead

EHS Comment
 No Accidents or Incidents

Limiting Factor

Progress (ft) 0.0	Depth End (ft) 13,180.0	Drill Time (hrs) 0.0	Daily Cost 335,725.78	Cumulative Cost 2,834,464.10
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0
5.5" 17# HCL-80 BTC IPC Production Tubing	12/11/2019 14:45:00	25.0	12,051.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	14:45	8.75	8.75	Prod Csg	12 - Run Csg/Cmt	Vert		Run 267 joints of 5.5" casing and tag @ 12,051'. String weight -235K, Set 75k down on packer, pick up 10k over string wt and rotate to the right until released. Space out.
14:45	19:00	4.25	13.00	Prod Csg	5 - Cond Mud & Circ	Vert		Circulate packer fluid from surface to surface at 4 bpm.
19:00	19:30	0.50	13.50	Prod Csg	12 - Run Csg/Cmt	Vert		Rig down 5.5" swedge, low torque valve & 2" filler hose, M/U Landing jt. and stab latch seal assembly into Packer. Pull test with 20k over, set 75k on Packer.
19:30	20:00	0.50	14.00	Prod Csg	12 - Run Csg/Cmt	Vert		PJSM: R/D casing crew
20:00	20:45	0.75	14.75	Prod Csg	15 - Test BOP	Vert		Test Packer with 3rd party testers for 30 min. @ 550 psi Good test
20:45	21:30	0.75	15.50	Prod Csg	15 - Test BOP	Vert		Pick up pack off Wellhead tech brought out wrong Pack off tool. Tech called his management and was told to nipple down & raise bop then set pack off
21:30	02:45	5.25	20.75	Prod Csg	14 - Nipple up BOP	Vert		Remove mouse hole, move back stairs, Nipple down remove choke line, flow line, Rotating head & Orbit valve, BOP, P/U & place on stand., While cleaning mud pits
02:45	04:15	1.50	22.25	Prod Csg	14 - Nipple up BOP	Vert		Set pack off & install Blind cap & torque, L/D Landing jt., casing bells & elevators, while cleaning mud pits, pull screens off shakers
04:15	06:00	1.75	24.00	Prod Csg	21 - Other	Vert		Cleaning mud pits, torque BOP to traveler stand, rig down stand pipe on rig floor & kelly hose

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	5,000.00	13,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	508,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	55,497.98
INTN	310.15	DRILL BITS	73,000.00	0.00	67,116.40
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	160,190.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	6,111.60	109,563.66
INTN	310.19	FUEL / POWER	76,214.27	1,357.20	94,592.15

INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	43,119.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	35,137.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	12,960.00	34,483.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	0.00	14,400.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	870.00	60,827.15
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	88,800.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	150,800.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	8,000.00	29,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	3,877.50	3,877.50
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	65,525.30	1,991,452.41
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.06	MISCELLANEOUS	0.00	35,945.00	35,945.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	232,427.98	232,427.98
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	1,827.50	1,827.50
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	270,200.48	843,011.69
		Total	3,051,379.92	335,725.78	2,834,464.10

Mud Checks

Date 12/11/2019 14:00:00	Temp 80.0	MD (ft) 13,180.0	TVD (ft) 13,175.0	Weight (lb/gal) 8.40	Vis (s/qt) 27
PV (cP) 1	YP (lb/100ft ²) 1	pH 9.0	Solids (%) 0.8	Oil (%) 0.0	Water (%) 99.2
Sand (%) 0.0	Gel 10 sec (lb/100ft ²) 1.000	Gel 10 min (lb/100ft ²) 1.000	Gel 30 min (lb/100ft ²) 1.000	Filtrate (mL/30min) 0.0	Cake (1/32") 1
MBT (lb/bbl) 0.0	Pm (mL/mL) 0.100	Pf (mL/mL) 0.100	Mf (mL/mL) 0.000	Chlorides (mg/L) 3,800	Calcium (mg/L) 400
		LGS (%) 0.9	HTHP Cake (1/32") 0	HTHP Press (psi) 0.0	HTHP Temp (°F) 0.0
Lime (lb/bbl) / Excess Lime (lb/bbl) 0.0 / 0.00	Brine (lb/gal) 0.00	Oil / Water Ratio / 100	Electric Stab (V) 0.0	WPS () 0	solCorPc (%) 0.00
600 Rpm () 3	300 Rpm () 2	vis200Rpm () 2	vis100Rpm () 1	vis6Rpm () 1	vis3Rpm () 1

Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Printed: 12/12/2019 4:51:57 AM



Daily Report

Report Date: 12/11/2019
 Report No: 30
 Days From Spud: 22.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
Name Jerry Chandler	Mobile Phone 580-775-5856

Activity Summary
 Lay down drill pipe and BHA. Rig up Eline truck. RIH with Gauge ring, gamma ray/perforator, and CCL. Log from 12,500' to 10,900'. Run CCL back to surface. Swap out tools RIH with Gamma & CCL to 12,500' Log back to 10,800', pull out of hole & swap tools RIH with Gamma perf. & Packer, set packer @ 12,036', Pull out of hole, Rig down wire line truck, Rig up Casing crew equipment, M/U Latch seal assembly, run 5.5" casing T/400'

Current Status
 Running 5.5" Casing @ 400'

24 Hr Forecast
 Run 5.5" casing to 12,036', latch on to Packer set 75K on Packer land out, Displace hole with packer fluid, nipple down & clean mud pits. Release rig.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 L/D Drill pipe, Pinch points / First day back Staying Focused

EHS Comment
 No Accidents or Incidents

Limiting Factor

Progress (ft) 0.0	Depth End (ft) 13,180.0	Drill Time (hrs) 0.0	Daily Cost 37,637.25	Cumulative Cost 2,498,375.07
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	12:00	6.00	6.00	Prod Csg	6 - Trips	Vert		Lay down drill pipe f/5000' t/171'.
12:00	13:00	1.00	7.00	Prod Csg	6 - Trips	Vert		Lay down 5- drill collars, ecc reamer, b-sub and bit
13:00	14:00	1.00	8.00	Prod Csg	6 - Trips	Vert		Clear floor of rental handling tools.
14:00	15:30	1.50	9.50	Prod Csg	11 - Wireline Logs	Vert		Safety meeting with rig and logging crews, rig up logging truck.
15:30	18:00	2.50	12.00	Prod Csg	11 - Wireline Logs	Vert		RIH with 6.55" gauge, GR/Perforator, CCL to 12,500'. Log back to 10,900' with gamma. CCL reading had excessive noise making it unreadable. Tools are 2.75" and casing ID-6.875", decision was made to pull out of hole and drop the Gauge, and GR/Perf, and pickup the logging gamma and run with CCL. Pulling out of hole with tools.
18:00	22:30	4.50	16.50	Prod Csg	11 - Wireline Logs	Vert		Swap tools RIH with logging Gamma/CCI T/12,500' log back to 10,800' with Gamma & CCL, Correlate Logs while pulling out of hole to swap out tools & discuss with management what depth to set packer
22:30	04:00	5.50	22.00	Prod Csg	11 - Wireline Logs	Vert		Swap tools RIH with logging Gamma Perf./packer, wireline wt. before setting packer 1810 ft lbs. after setting packer 1540 ft lbs set packer @ T/12,036', POOH, rig down wireline truck.
04:00	04:15	0.25	22.25	Prod Csg	21 - Other	Vert		Pull Wear Bushing
04:15	05:00	0.75	23.00	Prod Csg	12 - Run Csg/Cmt	Vert		PJSM with Byrd casing crew, rig crew, Rig up casing equipment.
05:00	06:00	1.00	24.00	Prod Csg	12 - Run Csg/Cmt	Vert		M/U Latch seal assembly, Install trip nipple, run 5.5" casing F/LSA T/400', Average M/U torque @ 7000 ft lbs.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	490,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	53,748.98
INTN	310.15	DRILL BITS	73,000.00	0.00	67,116.40

INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	160,190.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	950.00	103,452.06
INTN	310.19	FUEL / POWER	76,214.27	1,368.80	93,234.95
INTN	310.21	WATER / WATER HAULING	63,000.00	3,176.00	43,119.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	1,189.00	35,137.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	21,523.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	0.00	14,400.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	3,604.45	59,593.90
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	86,600.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	145,400.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	37,637.25	1,925,563.86
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	572,811.21
		Total	3,051,379.92	37,637.25	2,498,375.07

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/11/2019 00:00:00	80.0	13,180.0	13,175.0	8.40	27
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
1	1	9.0	0.8	0.0	99.2
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.000	3,800	400
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		0.9	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
3	2	2	1	1	1

Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
0.0	0.00			0.00	

Drilling String Components

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Printed: 12/11/2019 5:11:39 AM



Daily Report

Report Date: 12/10/2019
 Report No: 29
 Days From Spud: 21.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224
 Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
Name Jerry Chandler	Mobile Phone 580-775-5856
Activity Summary Offload, strap, caliper 5-drill collars, eccentric reamer, 6.75" milltooth bit. PU BHA and TIH. Tag @ 12,922' wash & ream F/12,922' T/12,971', TIH to btm with no issues, Circulate Btms Up, TOO H F/13,180' T/12,417', cut drilling line, TOO H L/D Drill pipe F/12,417' T/5000'	
Current Status TOOH L/D drill pipe	
24 Hr Forecast Waiting on orders, Finish L/D 4.5" DP & BHA; R/U Weatherford wire line truck make up tools log & set Packer	
Incident Summary Injuries: 0 Incidents: 0 Spills: 0	
Safety Topic Tripping Pipe, Staying focussed	
EHS Comment No Accidents or Incidents	
Limiting Factor	

Progress (ft) 0.0	Depth End (ft) 13,180.0	Drill Time (hrs) 0.0	Daily Cost 35,832.80	Cumulative Cost 2,445,615.82
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	07:00	1.00	1.00	Prod Csg	21 - Other	Vert	Waiting on Equip / Personnel	Waiting on rental drill collars and b-sub to arrive on location.
07:00	09:00	2.00	3.00	Prod Csg	6 - Trips	Vert	Hole problems	Offload, strap, and caliper drill collars and bit sub. Change out elevators. TIH with 6.75" Taurex Tricone bit jetted w/3x18's, bit sub, 2-4 7/8" Drill Collars, 1-Ecc. Reamer, 3-Drill collars, 1-x-over
09:00	17:00	8.00	11.00	Prod Csg	6 - Trips	Vert		TIH F/171' T/12,922' Tagged up, Pull trip nipple & install rotating head
17:00	18:30	1.50	12.50	Prod Csg	3 - Ream	Vert		Wash & Ream F/12,922' T/12,971' (Tight spots @ 12,922' & 12,948') RPM 65/100, GPM:400
18:30	19:00	0.50	13.00	Prod Csg	6 - Trips	Vert		TIH F/12,971' T/13,180' NO issues
19:00	19:30	0.50	13.50	Prod Csg	5 - Cond Mud & Circ	Vert		Circulate bottoms up
19:30	20:15	0.75	14.25	Prod Csg	6 - Trips	Vert		TOOH F/13,180' T/12,417',
20:15	21:45	1.50	15.75	Prod Csg	9 - Slip and Cut	Vert		Slip & cut 15 Wraps Drilling line, Check Flow Well Static, Pump Slug
21:45	06:00	8.25	24.00	Prod Csg	6 - Trips	Vert		TOOH L/D 4.5" DP F/12,417' T/5,000', Pull Rotating head & Install Trip Nipple

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	472,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	51,999.98
INTN	310.15	DRILL BITS	73,000.00	0.00	62,416.40
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	160,190.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	1,387.95	102,502.06
INTN	310.19	FUEL / POWER	76,214.27	2,291.40	91,866.15
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	33,948.89

INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	21,523.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	1,200.00	14,400.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	3,604.45	45,567.45
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	84,400.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	140,000.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	35,832.80	1,872,804.61
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	572,811.21
		Total	3,051,379.92	35,832.80	2,445,615.82

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/10/2019 00:00:00	80.0	13,180.0	13,175.0	8.40	27
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
1	1	9.0	0.8	0.0	99.2
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.000	3,800	400
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		0.9	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio / 100	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00		0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
3	2	2	1	1	1

Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles	TFA (in ²)	Mfg Code	
0.0	0.00		0.00		

Drilling String Components

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Daily Report

Report Date: 12/09/2019
 Report No: 28
 Days From Spud: 20.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
Name Jerry Chandler	Mobile Phone 580-775-5856
Activity Summary Strap out of hole, Pull rot. head & install trip nipple, L/D NMDC's, 3 Stab's; Break Bit, Clean off rig floor, PJSM with wireline crew, rig up lubricator & wireline sheaves, run open hole logs, Rig down logging, Rig up & rig down wireline truck to run packer, Waiting on 3rd party tools (DC's)	
Current Status WAITING ON DC's	
24 Hr Forecast TIH to clean up hole for logs, TOO, Log open hole & set packer.	
Incident Summary Injuries: 0 Incidents: 0 Spills: 0	
Safety Topic House keeping,	
EHS Comment No Accidents or Incidents	
Limiting Factor	

Progress (ft) 0.0	Depth End (ft) 13,180.0	Drill Time (hrs) 0.0	Daily Cost 38,227.84	Cumulative Cost 2,409,783.02
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	10:00	4.00	4.00	Prod Csg	6 - Trips	Vert		Strap out of hole F/5,000' T/BHA, Check Flow well static; Pull Rotating head & Install Trip nipple
10:00	10:30	0.50	4.50	Prod Csg	20 - Dir. Work	Vert		L/D 3 NMDC's, 3 Stab's, 3 Cross overs, Break off Bit Grade Bit
10:30	10:45	0.25	4.75	Prod Csg	21 - Other	Vert		Clear subs off rig floor & Clean off floor
10:45	12:00	1.25	6.00	Prod Csg	21 - Other	Vert		PJSM, with rig crew, rig manager & Weatherford wireline crew, Rig up wire line pack off & sheaves
12:00	14:30	2.50	8.50	Prod Csg	11 - Wireline Logs	Vert		M/U Logging Tools & Test
14:30	22:45	8.25	16.75	Prod Csg	11 - Wireline Logs	Vert		Run in the hole with Gamma Tool, Micro Resistivity, Neutron, Density Caliper, Vee Arm Caliper, MMI Memory Section, MMI Electrode Section, Sonic, Focused Electric & Induction logs. Tagged up @ 12,894' P/U Logging tool was stuck pulled to 6900 ft lbs. tool came free, attempt to go deeper, logged F/12,894' to 12,610', pulled out of hole and changed out tools for smaller tools run back in hole ran down to 12,926' attempt to get farther down with no luck pulled back out of hole laid down logging tools.
22:45	01:00	2.25	19.00	Prod Csg	11 - Wireline Logs	Vert		Rig down wireline truck & Rig up second Weatherford wireline truck to run packer. Decision was made by management to rig down wireline truck and locate bit, reamers & dc's to make clean up run
01:00	06:00	5.00	24.00	Prod Csg	21 - Other	Vert	Hole problems	Waiting on DC's, (Bit Arrived @ 03:00 & Hole opener Arrived @ 04:45).

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	454,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	50,250.98
INTN	310.15	DRILL BITS	73,000.00	0.00	62,416.40
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	1,760.00	160,190.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	1,703.79	101,114.11
INTN	310.19	FUEL / POWER	76,214.27	2,610.60	89,574.75
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50

INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	33,948.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	21,523.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	1,200.00	13,200.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	3,604.45	41,963.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	82,200.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	134,600.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	38,227.84	1,836,971.81
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	572,811.21
		Total	3,051,379.92	38,227.84	2,409,783.02

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/09/2019 04:00:00	80.0	13,180.0	13,175.0	8.40	27
PV (cP)	YP (lb/100ft2)	pH	Solids (%)	Oil (%)	Water (%)
1	1	9.0	0.8	0.0	99.2
Sand (%)	Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.000	3,800	400
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		0.9	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
3	2	2	1	1	1

Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles	TFA (in ²)	Mfg Code	
0.0	0.00		0.00		

Drilling String Components

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Daily Report

Report Date: 12/08/2019
 Report No: 27
 Days From Spud: 19.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
Name Jerry Chandler	Mobile Phone 580-775-5856
Activity Summary Fill mud pits with fresh water, Rot. drill F/12,879' T/13,180', Circ. & clean hole, Wiper trip F/13,180' T/12,550', TIH F/12,550' T/13,180', Pull 4 stds wash & ream tight spot @ 12,840', TIH F/12,840' T/13,180', Circ Btms up, TOOH F/13,180' T/12,545', Monitor Well, TIH F/12,545' T/13,180', TOOH F/13,180' T/5000'	
Current Status TOOH @ 5,000'	
24 Hr Forecast Finish TOOH, R/U Weatherford wire line & Run wire line logs	
Incident Summary Injuries: 0 Incidents: 0 Spills: 0	
Safety Topic Pinch Points & Well Control while tripping	
EHS Comment No Accidents Or Incidents	
Limiting Factor	

Progress (ft) 301.0	Depth End (ft) 13,180.0	Drill Time (hrs) 7.5	Daily Cost 39,287.50	Cumulative Cost 2,371,555.18
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	06:30	0.50	0.50	Prod Drlg	5 - Cond Mud & Circ	Vert	Lost Circulation	Pull 1 std off bottom while mud tanks fill back up from losses
06:30	14:00	7.50	8.00	Prod Drlg	2.1 - Drill ROT	Vert		Rotate F/12,879' T/13,180'. WOB-25-30k, DIFF-0/49 PSI, SPP-1200 PSI, GPM-400/450, RPM: 40/65, OFF BTM TQ-2.6K, ON BTM TQ:6.5K, P/U:290K, S/O:270K, RT:280K,
14:00	16:00	2.00	10.00	Prod Csg	5 - Cond Mud & Circ	Vert		Pump 2 sweeps around while circulating & condition hole
16:00	16:45	0.75	10.75	Prod Csg	6 - Trips	Vert		Wiper trip F/13,180' T/12,550' and TIH F/12,550' T/13,180' (tight spot @ 12,840')
16:45	17:00	0.25	11.00	Prod Csg	5 - Cond Mud & Circ	Vert		Circ. & Condition hole
17:00	18:45	1.75	12.75	Prod Csg	6 - Trips	Vert		Pull 4 stds wash & ream tight spot @ 12,840'
18:45	19:30	0.75	13.50	Prod Csg	6 - Trips	Vert		TIH F/12,840' T/13,171' (Wash & Ream F/13,170' T/13,180')
19:30	20:45	1.25	14.75	Prod Csg	5 - Cond Mud & Circ	Vert		Circulate & Condition hole reciprocating pipe with 40 RPM
20:45	21:00	0.25	15.00	Prod Csg	6 - Trips	Vert		Trip out F/13,180' T/12,545'
21:00	00:00	3.00	18.00	Prod Csg	21 - Other	Vert		Monitoring returns Well flowing @ (42 bbls pr hr @ 21:00) @ 22:00 well static. @ 23:00 well static. @ 00:00 well flowing @ well static.
00:00	00:30	0.50	18.50	Prod Csg	6 - Trips	Vert		TIH F/12,545' T/13,180', No issues
00:30	06:00	5.50	24.00	Prod Csg	6 - Trips	Vert		TOOH F/13,180' T/5,000', Flow Check well static, Pump 40 bbl. slug, strap out of hole

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	436,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	48,501.98
INTN	310.15	DRILL BITS	73,000.00	0.00	62,416.40

INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	1,760.00	158,430.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	1,860.00	99,410.32
INTN	310.19	FUEL / POWER	76,214.27	3,514.05	86,964.15
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	33,948.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	21,523.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	1,200.00	12,000.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	3,604.45	38,358.55
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	80,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	129,200.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	39,287.50	1,798,743.97
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	572,811.21
		Total	3,051,379.92	39,287.50	2,371,555.18

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/08/2019 04:00:00	80.0	13,180.0	13,175.0	8.40	27
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
1	1	9.0	0.8	0.0	99.2
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.000	3,800	400
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		0.9	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
3	2	2	1	1	1

Drilling Parameters

Depth Start (ft)	Depth End (ft)	Date Start (DateTime)	Date End (DateTime)	Pump Press (lbs)
12,879.0	13,180.0	12/07/2019 06:00:00	12/07/2019 14:00:00	1,000
Drill Rot Dist (ft)	Drill Rot Time (hr)	Av RPM (rpm)	Av WOB (Mlbs)	Av ROP (ft/hr)
301	7.50	65	25	40.00
Drill Slide Dist (ft)	Drill Slide Time (hr)	PU Load (Mlbs)	SO Load (Mlbs)	Rot Load (Mlbs)
0	0.00	290	270	280

Bit Data

Baker Hughes DD406T

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
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6	6.750	DD406T	Baker	5287907
Depth Drilled (ft) 313.0	Time Drilled (hr) 8.50	Nozzles 14/14/14/16/16/16/0/0/0/0		TFA (in ²) 1.04

Drilling String Components							
Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	Bit	6.750	2.875	6.750	3.5 Reg	1.00	1.00
1	Bit Sub	4.750	2.250	4.750	3.5 IF	3.12	4.12
1	NM 6.25" Stab	4.750	2.250	6.250	3.5 IF	5.00	9.12
1	NMDC	4.750	2.688	4.750	3.5 IF	28.16	37.28
1	NM 6.25" Stab	4.750	2.250	6.250	3.5 IF	5.91	43.19
1	NMDC	4.750	2.688	4.750	3.5 IF	28.66	71.85
1	NM 6.25" Stab	4.750	2.250	6.250	3.5 IF	5.35	77.20
1	NMDC	4.750	2.688	4.750	3.5 IF	28.70	105.90
1	Cross Over	5.250	2.250	5.250	XT39 B X 3.5" IF P	2.83	108.73
1	Cross Over	5.250	2.500	5.250	D425 B X XT-39 P	3.62	112.35

Mud Pumps								
name			Manufacturer			Model		
PUMP #1			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
12/07/2019 13:00:00	6.000	12.00	48.0	200	13,138.0	1,000	95.0	NORMAL
name			Manufacturer			Model		
PUMP #3			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
12/07/2019 13:00:00	6.000	12.00	48.0	200	13,138.0	1,000	95.0	NORMAL

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)

Printed: 12/8/2019 4:51:20 AM



Daily Report

Report Date: 12/07/2019
 Report No: 26
 Days From Spud: 18.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652			
Name Jerry Chandler	Mobile Phone 580-775-5856			
Activity Summary Rot. drill F/12,865' T/12,867', flowback 50 bbls until static. Trip out hole, monitor well. Lay down MWD, UBHO, and rig down MWD equipment, c/o bit, TIH. Rot Drill F/12867' T/12879', racked 1 STD back				
Current Status Racked back one stand, filling pits with FW.				
24 Hr Forecast Drill f/12,879' t/13,180',				
Incident Summary Injuries: 0 Incidents: 0 Spills: 0				
Safety Topic Pinch points, Three point contact on stairs				
EHS Comment No Incidents or accidents				
Limiting Factor Rung out bit, loss returns				
Progress (ft) 14.0	Depth End (ft) 12,879.0	Drill Time (hrs) 1.3	Daily Cost 51,981.40	Cumulative Cost 2,335,117.68

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	06:15	0.25	0.25	Prod Drlg	2.1 - Drill ROT	Vert		Rotate F/12,865' T/12,867'. WOB-35K/37k, DIFF-0/49 PSI, SPP-1200 PSI, GPM-400/450, RPM: 40/65, OFF BTM TQ-2.6K, ON BTM TQ:6.5K, P/U:280K, S/O:260K, RT:270K,
06:15	06:30	0.25	0.50	Prod Drlg	5 - Cond Mud & Circ	Vert	Hole problems	ROP down to 8-10 fph. PU off bottom, had troubles getting back down. Rotate and reciprocate string while pumping sweep around prior to tripping out.
06:30	10:00	3.50	4.00	Prod Drlg	21 - Other	Vert	Well Control	Racked back one stand, well started to flow. Shut in well, pressure stabilized at 100 psi. Strip back to casing shoe, Flow back 25 bbls, every 5 bbls taking longer to flow back. Shut in well, pressure stabilized at 55 psi. Repeat flowback procedure, at 50 bbls, well became static.
10:00	10:15	0.25	4.25	Prod Drlg	21 - Other	Vert	Hole problems	Line up on flowline and trip tank, pump slug.
10:15	13:15	3.00	7.25	Prod Drlg	6 - Trips	Vert	Hole problems	TOOH F/12,550' T/10,071'. Flow check well due to improper fill ups.
13:15	15:30	2.25	9.50	Prod Drlg	6 - Trips	Vert	Hole problems	TOOH F/10,071' T/6,300'.
15:30	17:45	2.25	11.75	Prod Drlg	6 - Trips	Vert	Hole problems	Well not taking proper fillups, gain 12 bbls, pull rotating head to monitor well. Replace rotating head and strip back to 2,955'.
17:45	18:00	0.25	12.00	Prod Drlg	21 - Other	Vert	Hole problems	Perform flow check prior to pulling BHA. well static.
18:00	20:30	2.50	14.50	Prod Drlg	6 - Trips	Vert	Hole problems	TOOH F/2955' T/115' @ 65' per min., Pull rotating head & install trip nipple
20:30	21:00	0.50	15.00	Prod Drlg	20 - Dir. Work	Vert	Hole problems	L/D MWD tool,break bit, L/D UBHO sub
21:00	21:15	0.25	15.25	Prod Drlg	21 - Other	Vert	Hole problems	Clean rig floor off for TIH
21:15	05:00	7.75	23.00	Prod Drlg	6 - Trips	Vert	Hole problems	M/U Baker Hughes DD406T Bit, TIH F/Bit T/11,417' Filling Drill pipe every 30 stands, Pull Trip Nipple & install Rotating Head. TIH t/12,837'.
05:00	06:00	1.00	24.00	Prod Drlg	2.1 - Drill ROT	Vert	Hole problems	wash and ream 30' to bottom, Rotate F/12,867' T/12,879'. WOB-35K/37k, DIFF-0/49 PSI, SPP-1400 PSI, GPM-400/450, RPM: 40/65, OFF BTM TQ-2.6K, ON BTM TQ:6.5K, P/U:280K, S/O:260K, RT:270K, total losses. Rack 1 stand back and work pipe while filling mud pits.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00

INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	418,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	46,752.98
INTN	310.15	DRILL BITS	73,000.00	9,568.40	62,416.40
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	1,760.00	156,670.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	2,826.55	97,550.32
INTN	310.19	FUEL / POWER	76,214.27	5,148.00	86,300.10
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	525.00	33,948.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	21,523.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	1,200.00	10,800.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	3,604.45	34,754.10
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	77,800.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	123,800.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	51,981.40	1,762,306.47
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	572,811.21
		Total	3,051,379.92	51,981.40	2,335,117.68

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/07/2019 05:45:00	80.0	12,879.0	12,875.0	8.40	27
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
1	1	9.0	0.8	0.0	99.2
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.000	3,800	400
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		0.9	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio / 100	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00		0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
3	2	2	1	1	1

Drilling Parameters

Depth Start (ft)	Depth End (ft)	Date Start (DateTime)	Date End (DateTime)	Pump Press (lbs)
12,867.0	12,879.0	12/07/2019 05:00:00	12/07/2019 06:00:00	1,400
Drill Rot Dist (ft)	Drill Rot Time (hr)	Av RPM (rpm)	Av WOB (Mlbs)	Av ROP (ft/hr)
12	1.00	40	20	12.00
Drill Slide Dist (ft)	Drill Slide Time (hr)	PU Load (Mlbs)	SO Load (Mlbs)	Rot Load (Mlbs)

0	0.00	270	260	280
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Bit Data					
Baker Hughes DD406T					
Bit No 6	Bit Size 6.750	Bit Type DD406T	Make Baker	IADC Code	Serial No 5287907
Depth Drilled (ft) 12.0	Time Drilled (hr) 1.00	Nozzles 14/14/14/16/16/16/0/0/0/0		TFA (in ²) 1.04	Mfg Code

Drilling String Components							
Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	Bit	6.750	2.875	6.750	3.5 Reg	1.00	1.00
1	Bit Sub	4.750	2.250	4.750	3.5 IF	3.12	4.12
1	NM 6.25" Stab	4.750	2.250	6.250	3.5 IF	5.00	9.12
1	NMDC	4.750	2.688	4.750	3.5 IF	28.16	37.28
1	NM 6.25" Stab	4.750	2.250	6.250	3.5 IF	5.91	43.19
1	NMDC	4.750	2.688	4.750	3.5 IF	28.66	71.85
1	NM 6.25" Stab	4.750	2.250	6.250	3.5 IF	5.35	77.20
1	NMDC	4.750	2.688	4.750	3.5 IF	28.70	105.90
1	Cross Over	5.250	2.250	5.250	XT39 B X 3.5" IF P	2.83	108.73
1	Cross Over	5.250	2.500	5.250	D425 B X XT-39 P	3.62	112.35

Mud Pumps								
name PUMP #1			Manufacturer HONG HUA			Model HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
12/07/2019 05:15:00	6.000	12.00	49.0	200	12,867.0	1,592	95.0	NORMAL
name PUMP #3			Manufacturer HONG HUA			Model HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
12/07/2019 05:15:00	6.000	12.00	49.0	200	12,867.0	1,540	95.0	NORMAL

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)

Printed: 12/7/2019 4:51:57 AM



Daily Report

Report Date: 12/06/2019
 Report No: 25
 Days From Spud: 17.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name: Jason Fontenot | Mobile Phone: (337) 831-7652

Name: Jerry Chandler | Mobile Phone: 580-775-5856

Activity Summary
 TIH F/2400' T/7331', test casing, drill DV tool, test casing TIH F/7331' T/12,540' tagged cmt stringer @ 12,545', drill cmt & shoe track R/T drill F/12,615' T/12,865'

Current Status
 Drilling @ 12,865'

24 Hr Forecast
 Continue drilling to 100' BEFORE Cambrian

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 PU drill pipe, Testing casing.

EHS Comment
 No Incidents / No Accidents

Limiting Factor
 TORQUE

Progress (ft)	Depth End (ft)	Drill Time (hrs)	Daily Cost	Cumulative Cost
250.0	12,865.0	7.5	47,598.45	2,285,222.28

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	12:30	6.50	6.50	2nd Int Csg	6 - Trips	Vert		TIH F/2400' T/7331'
12:30	13:00	0.50	7.00	2nd Int Csg	5 - Cond Mud & Circ	Vert		Break circulation and pump air out of the drill string
13:00	13:30	0.50	7.50	2nd Int Csg	12 - Run Csg/Cmt	Vert		Close upper rams and test casing above the dv tool @1500psi for 10 minutes, test good
13:30	14:45	1.25	8.75	2nd Int Csg	3 - Ream	Vert		Drillout plug and dv tool F/7410' T/7416'. WOB-15k, SPP-825PSI, GPM-300, TQ-4/8K. Ream back through to clean up.
14:45	15:15	0.50	9.25	2nd Int Csg	5 - Cond Mud & Circ	Vert		Circulate out dv tool and plug debris before testing casing
15:15	16:00	0.75	10.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Close upper rams and test casing below dv tool @1500psi for 30 minutes, test good.
16:00	21:15	5.25	15.25	2nd Int Csg	6 - Trips	Vert		TIH while PU singles of rental 4.5" drill pipe F/7416' T/12,545', tagged cement streamers @ 12,545', Install Rotating head,
21:15	22:30	1.25	16.50	2nd Int Csg	2.1 - Drill ROT	Vert		Drill shoe track & cement F/12,545'T/12,615', tagged float @ 12560', tagged shoe @ 12,601'
22:30	02:30	4.00	20.50	Prod Drlg	2.1 - Drill ROT	Vert		Rotate F/12,615' T/12,759'. WOB-25K/40k, DIFF-10/25 PSI, SPP-1200 PSI, GPM-300/400, RPM: 40/60, OFF BTM TQ-2.6K, ON BTM TQ:6.5K, P/U:252K, S/O:251K, RT:251K,
02:30	06:00	3.50	24.00	Prod Drlg	2.1 - Drill ROT	Vert		Rotate F/12,759' T/12,865'. WOB-35K/37k, DIFF-0/49 PSI, SPP-1200 PSI, GPM-400/450, RPM: 40/65, OFF BTM TQ-2.6K, ON BTM TQ:6.5K, P/U:280K, S/O:260K, RT:270K,

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	400,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	45,003.98
INTN	310.15	DRILL BITS	73,000.00	0.00	54,934.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	1,760.00	154,910.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	950.00	94,723.77
INTN	310.19	FUEL / POWER	76,214.27	5,700.00	81,152.10
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50

INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	7,035.00	33,423.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	21,523.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	203,179.68
INTN	310.27	MUD LOGGING	0.00	1,200.00	9,600.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	3,604.45	31,149.65
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	75,600.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	118,400.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	0.00	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	47,598.45	1,712,411.07
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	54,451.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	572,811.21
		Total	3,051,379.92	47,598.45	2,285,222.28

Mud Checks					
Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/06/2019 00:00:00	80.0	12,615.0	12,615.0	8.40	28
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
1	1	9.0	0.8	0.0	99.2
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.000	4,000	400
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		0.9	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
3	2	2	1	1	1

Drilling Parameters				
Depth Start (ft)	Depth End (ft)	Date Start (DateTime)	Date End (DateTime)	Pump Press (lbs)
12,615.0	12,865.0	12/05/2019 10:30:00	12/06/2019 06:00:00	1,370
Drill Rot Dist (ft)	Drill Rot Time (hr)	Av RPM (rpm)	Av WOB (Mlbs)	Av ROP (ft/hr)
250	7.50	50	25	33.30
Drill Slide Dist (ft)	Drill Slide Time (hr)	PU Load (Mlbs)	SO Load (Mlbs)	Rot Load (Mlbs)
0	0.00	280	260	251

Bit Data					
Ulterra CF611					
Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
5	6.750	PDC	CF611		43910
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
250.0	7.50	13/13/13/13/13/0/0/0		0.78	

Drilling String Components					

Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	Bit	6.750	0.000	6.750	3.5 Reg	1.00	1.00
1	Cross over bit sub	4.750	2.250	4.750	3.5 Reg X 3.5 IF	3.12	4.12
1	NM STAB	4.750	2.250	6.250	3.5 IF	5.00	9.12
1	UBHO	4.750	3.250	4.750	3.5 IF	2.95	12.07
1	NMDC	4.750	2.688	4.750	3.5 IF	28.16	40.23
1	NM Stab	4.750	2.250	6.250	3.5 IF	5.91	46.14
1	NMDC	4.750	2.688	4.750	3.5 IF	28.66	74.80
1	Steel Stab	4.750	2.250	6.250	3.5 IF	5.35	80.15
1	NMDC	4.750	2.688	4.750	3.5 IF	28.70	108.85
1	Cross Over	5.250	2.250	5.250	XT-39 X 3.5IF	2.83	111.68
1	Cross Over	5.250	2.500	5.250	D425 X XT-39	3.62	115.30

Mud Pumps								
name			Manufacturer			Model		
PUMP #1			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
12/06/2019 03:10:00	6.000	12.00	49.0	200	12,761.0	1,592	95.0	NORMAL
12/06/2019 02:45:00	6.000	12.00	95.0	400	12,759.0	1,511	95.0	NORMAL
name			Manufacturer			Model		
PUMP #3			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
12/06/2019 03:10:00	6.000	12.00	49.0	200	12,761.0	1,540	95.0	NORMAL

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
MWD	12,711.0	4.30	85.40	12,709.20	-7.41	-7.41	-4.18	3.28
MWD	12,806.0	7.80	82.50	12,803.63	-6.28	-6.28	5.76	3.70

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Daily Report

Report Date: 12/05/2019
 Report No: 24
 Days From Spud: 16.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jorge Morales	Mobile Phone (817) 408-6267

Activity Summary
 Circulate while waiting on cement. PJSM for pumping second stage. Pump second stage. 40 bbls FW, 25 bbls 9 ppg 22.738 yd, 161.5 gal/sk spacer. 105 bbls lead cement, 130 sks, 9 ppg, 4.552 yd, 22.01 gal/sk. 15 bbl tail cement, 60 sks, 13.2 ppg, 1.439 yd, 7.3 gal/sk. Plug landed @10:06, floats held, bled back 2 bbls. Wash up and rig down cementers. LD landing jt and install packoff and test to 5000 psi, test good. L/D 5" DP out of derrick. C/O Grabber & Saver sub, clean pits & fill up with fresh water, P/U BHA & DP TIH

Current Status
 P/U 4.5" DP TIH @ 2500'

24 Hr Forecast
 P/U 4.5" DP to DV TOOL, Test DV Tool, Drill Out DV Tool, Retest DV Tool, P/U 4.5" DP Tag Cement or Float Collar Drill Shoe Track & Drill Production Hole

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Pumping cement, LD drill pipe in the mousehole. Pinch points & Body Placements

EHS Comment
 No Incidents / No Accidents

Limiting Factor
 Laying out drillpipe from the mousehole

Progress (ft)	Depth End (ft)	Drill Time (hrs)	Daily Cost	Cumulative Cost
0.0	12,615.0	0.0	169,673.23	2,237,623.83

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	08:15	2.25	2.25	2nd Int Csg	5 - Cond Mud & Circ	Vert		Wait on cement between stage #1 and stage #2. Circulate through DV tool
08:15	08:30	0.25	2.50	2nd Int Csg	21 - Other	Vert		PJSM with all personnel before pumping 2nd stage of cement
08:30	10:15	1.75	4.25	2nd Int Csg	12 - Run Csg/Cmt	Vert		Pump 2nd stage of cement. 40 bbls FW, 25 bbls 9 ppg 22.738 yd, 161.5 gal/sk spacer. 105 bbls lead cement, 130 sks, 9 ppg, 4.552 yd, 22.01 gal/sk. 15 bbl tail cement, 60 sks, 13.2 ppg, 1.439 yd, 7.3 gal/sk. Plug landed @10:06, floats held, bled back 2 bbls.
10:15	10:30	0.25	4.50	2nd Int Csg	12 - Run Csg/Cmt	Vert		RD cementers
10:30	10:45	0.25	4.75	2nd Int Csg	5 - Cond Mud & Circ	Vert		Wash through BOP and surface lines.
10:45	11:00	0.25	5.00	2nd Int Csg	21 - Other	Vert		PJSM with third party for setting packoff and testing
11:00	13:15	2.25	7.25	2nd Int Csg	12 - Run Csg/Cmt	Vert		Remove landing jt. Rig down casing bails, elevators, rig up drill pipe elevators. set packoff in wellhead. Set packoff to 5000 psi for 5 min, test good. Prep floor for laying down DP using mouse hole.
13:15	18:30	5.25	12.50	2nd Int Csg	6 - Trips	Vert		LD 71 stds of drill pipe from the derrick.
18:30	20:30	2.00	14.50	2nd Int Csg	21 - Other	Vert		Rig down 5.5" elevators, change out 4.5" If saver sub to Delta 425 saver sub, Change out 5" grabber blocks & stabbing guide to 4.5" grabber block & stabbing guide, Install 4.5" Elevators,
20:30	23:00	2.50	17.00	2nd Int Csg	6 - Trips	Vert		L/O & Strap 4.5" drill pipe & lay out directional tools
23:00	23:30	0.50	17.50	2nd Int Csg	21 - Other	Vert		Install Wear Bushing
23:30	02:00	2.50	20.00	2nd Int Csg	21 - Other	Vert		Dump & Clean Mud Pits & Fill with fresh Water, bring 4.5" handling tools to rig floor
02:00	02:15	0.25	20.25	2nd Int Csg	20 - Dir. Work	Vert		P/U NMDC & UBHO Attempt to set slips, Slips were wrong size,
02:15	03:00	0.75	21.00	2nd Int Csg	21 - Other	Vert		Took 2 sections out of slips & DC clamps
03:00	04:15	1.25	22.25	2nd Int Csg	20 - Dir. Work	Vert		P/U X/O, Stab, MWD Tool, 2 X/O's, Stab; Test MWD (OK), NMDC, & M/U Ulterra Bit CF611,
04:15	06:00	1.75	24.00	2nd Int Csg	6 - Trips	Vert		TIH P/U 4.5" DP OF racks F/115' T/2500'

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	382,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	3,971.98	43,254.98
INTN	310.15	DRILL BITS	73,000.00	10,862.00	54,934.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	6,735.00	153,150.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	2,400.00	7,380.00
INTN	310.18	MUD / CHEMICALS	58,661.75	950.00	93,773.77
INTN	310.19	FUEL / POWER	76,214.27	4,568.55	75,452.10
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	26,388.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	6,353.00	21,523.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	86,599.45	203,179.68
INTN	310.27	MUD LOGGING	0.00	1,200.00	8,400.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	7,450.75	27,545.20
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	73,400.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	113,000.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.46	MISCELLANEOUS	0.00	2,872.50	2,872.50
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	159,563.23	1,664,812.62
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	10,110.00	54,451.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	10,110.00	572,811.21
		Total	3,051,379.92	169,673.23	2,237,623.83

Mud Checks

Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

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Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)

Printed: 12/5/2019 4:51:40 AM



Daily Report

Report Date: 12/04/2019
 Report No: 23
 Days From Spud: 15.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429			
Name Jorge Morales	Mobile Phone (817) 408-6267			
Activity Summary Continue running casing 7 5/8" to bottom, M/U landing joint and land casing in wellhead. Circulated 2 x casing capacity, perform first stage cement job, land plug successfully, open DV Tool and circulated to prepare second stage job.				
Current Status Circulating through DV Tool open to perform second stage cement job				
24 Hr Forecast Finish circulating through DV Tool, perform second stage cement job, rig down cementers, pack off well head, lay down drill pipe in derrick, install wear bushing, TIH in casing and test 7 5/8" to 1500 psi. Drill and ream out DV Tool				
Incident Summary Injuries: 0 Incidents: 0 Spills: 0				
Safety Topic Running casing. Working with third party. Pumping cement.				
EHS Comment No incidents, no accidents				
Limiting Factor Washing casing. Slip elevators.				
Progress (ft) 0.0	Depth End (ft) 12,615.0	Drill Time (hrs) 0.0	Daily Cost 353,596.39	Cumulative Cost 2,067,950.60

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0
7 5/8" 29.7# HCP110 BK HT Intermediate #2 Casing	12/02/2019 21:00:00	25.0	12,605.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	10:00	4.00	4.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Run casing F/6837 T/10013'. Filling every 30 jts
10:00	11:00	1.00	5.00	2nd Int Csg	5 - Cond Mud & Circ	Vert		Circulate BU @10,013' under Wolfcamp
11:00	14:00	3.00	8.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Run casing F/10013' T/12494', filling every 30 jts.
14:00	17:00	3.00	11.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Wash casing to bottom F/12494' T/12614. PU extra jt of casing and wash to TD of 12615'. LD casing jt and PU landing jt and hanger. Wash down landing jt, confirmed by wellhead hand. 7 5/8", 305 jts, Shoe depth-12605', Float collar-12560.42' DV Tool-7410.7'.
17:00	17:30	0.50	11.50	2nd Int Csg	5 - Cond Mud & Circ	Vert		Circulate casing with CRT while rigging down casing crew.
17:30	18:00	0.50	12.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Rig down CRT and RU cement head and continue circulating well. While rigging up cementers on the ground.
18:00	19:45	1.75	13.75	2nd Int Csg	5 - Cond Mud & Circ	Vert		Circulated 2x casing capacity
19:45	20:00	0.25	14.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Pre job safety meeting w/ Halliburton, DV Tool supervisor and drilling rig crew.
20:00	20:30	0.50	14.50	2nd Int Csg	12 - Run Csg/Cmt	Vert		Rig up cementers
20:30	20:45	0.25	14.75	2nd Int Csg	12 - Run Csg/Cmt	Vert		Test cementing lines to 4000 psi
20:45	22:00	1.25	16.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Pump 40 Bbls of fresh water, 25 bbls of spacer 9.0 ppg, pump 155 bbls of lead stage 1, 9.0 ppg, pump 28.6 bbls of tail stage 1, 13.2 ppg, with normal returns.
22:00	00:00	2.00	18.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Drop plug and displace cement w/ 577 bbls of fresh water, bumped plug w/1560 psi, 840 lift x 5 minutes. Checked float ok, bled back 3.5 bbls
00:00	00:30	0.50	18.50	2nd Int Csg	12 - Run Csg/Cmt	Vert		Drop bomb and open DV Tool with 570 psi.
00:30	06:00	5.50	24.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Circulated well with cementers then switch to rig pumps and continue circulating w/ 5 BPM with normal returns.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00

INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	364,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	39,283.00
INTN	310.15	DRILL BITS	73,000.00	0.00	44,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	146,415.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	4,421.76	92,823.77
INTN	310.19	FUEL / POWER	76,214.27	1,667.25	70,883.55
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	26,388.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	15,890.00	116,580.23
INTN	310.27	MUD LOGGING	0.00	1,200.00	7,200.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	3,609.45	20,094.45
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	71,200.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	107,600.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	54,137.46	1,505,249.39
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	299,458.93	299,458.93
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	299,458.93	562,701.21
		Total	3,051,379.92	353,596.39	2,067,950.60

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/03/2019 21:00:00	85.0	12,615.0	12,615.0	8.80	29
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
2	1	7.5	5.0	0.0	95.0
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	40.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.000	0.000	0.200	21,000	600
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		3.1	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio / 100	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
5	3	2	1	1	1

Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

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Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Printed: 12/4/2019 4:51:32 AM



Daily Report

Report Date: 12/03/2019
 Report No: 22
 Days From Spud: 14.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224
 Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jorge Morales	Mobile Phone (817) 408-6267

Activity Summary
 TOOH while logging T/11,000'. TOOH F/11,000' T/5400' while LD singles. Slip/cut drill line. TOOH F/5400' T/HWDP, Racking back stds. LD HWDP. LD logging BHA. Pull wear bushing. RU casing crew and run 7-5/8" casing.

Current Status
 Running 7 5/8" casing @ 6837'

24 Hr Forecast
 Land casing @12,605'. RD casing crew and RU Halliburton cement. Pump 2 stage intermediate cement job.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Communication with third party

EHS Comment
 No incidents/no accidents

Limiting Factor
 Slip die elevators due to casing collars

Progress (ft)	Depth End (ft)	Drill Time (hrs)	Daily Cost	Cumulative Cost
0.0	12,615.0	0.0	67,857.50	1,714,354.21

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	08:00	2.00	2.00	2nd Int Csg	6 - Trips	Vert		TOOH F/12615' T/11000', logging at 25 ft/min.
08:00	12:15	4.25	6.25	2nd Int Csg	6 - Trips	Vert		TOOH F/11000' T/5400' LD drillpipe.
12:15	12:30	0.25	6.50	2nd Int Csg	21 - Other	Vert		PJSM for slip/cut drill line.
12:30	14:00	1.50	8.00	2nd Int Csg	9 - Slip and Cut	Vert		Slip/cut drill line
14:00	16:00	2.00	10.00	2nd Int Csg	6 - Trips	Vert		TOOH F/5400' T/HWDP.
16:00	17:30	1.50	11.50	2nd Int Csg	6 - Trips	Vert		LD 7 stds HWDP
17:30	18:45	1.25	12.75	2nd Int Csg	6 - Trips	Vert		Retrieve logging tool, LD logging BHA and break off bit.
18:45	19:00	0.25	13.00	2nd Int Csg	14 - Nipple up BOP	Vert		Pull wear bushing
19:00	19:45	0.75	13.75	2nd Int Csg	12 - Run Csg/Cmt	Vert		Remove rig elevators. Install bail extensions and casing elevators. Dry fit landing jt
19:45	20:00	0.25	14.00	2nd Int Csg	21 - Other	Vert		PJSM with all personnel for RU and running casing
20:00	21:00	1.00	15.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		RU power tongs, hydraulic unit, torque turn.
21:00	22:00	1.00	16.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		MU shoe track, RU CRT tool and test shoe track
22:00	06:00	8.00	24.00	2nd Int Csg	12 - Run Csg/Cmt	Vert		Run 7 5/8" 29.7# HCP-110 casing F/86' T/6837'

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	346,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	37,534.00
INTN	310.15	DRILL BITS	73,000.00	0.00	44,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	146,415.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00

INTN	310.18	MUD / CHEMICALS	58,661.75	950.00	88,402.01
INTN	310.19	FUEL / POWER	76,214.27	2,023.50	69,216.30
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	26,388.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	100,690.23
INTN	310.27	MUD LOGGING	0.00	1,200.00	6,000.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	32,535.00	32,535.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	3,800.00	16,485.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	69,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	102,200.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	67,857.50	1,451,111.93
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	263,242.28
		Total	3,051,379.92	67,857.50	1,714,354.21

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/02/2019 16:00:00	0.0	12,615.0	12,615.0	8.80	29
PV (cP)	YP (lb/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
2	1	8.0	95.0	0.0	96.0
Sand (%)	Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	23.0	1
MBT (lb/bbl)	Pm (mL/mL)	PF (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.000	0.000	0.400	21,000	600
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		3.3	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio / 100	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00		0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
5	3	2	1	1	1

Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
0.0	0.00			0.00	

Drilling String Components

Mud Pumps

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Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Printed: 12/3/2019 4:51:52 AM



Daily Report

Report Date: 12/02/2019
 Report No: 21
 Days From Spud: 13.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jorge Morales	Mobile Phone (817) 408-6267
Activity Summary TOOH and LD directional BHA. PU/MU logging equipment. TIH and PU 12 jts of drill pipe. TIH T/12608', drop logging tool down drill string. Confirm tools are set with pumps. Begin logging to 12165'. Stop logging and TIH to bottom and wash to bottom to TD @12615'	
Current Status Washing to bottom to find original TD of 12,615'	
24 Hr Forecast Finish logging, TOOH and RU and run casing.	
Incident Summary Injuries: 0 Incidents: 0 Spills: 0	
Safety Topic RU logging tools	
EHS Comment No incidents/no accidents	
Limiting Factor	

Progress (ft) 0.0	Depth End (ft) 12,615.0	Drill Time (hrs) 0.0	Daily Cost 56,904.56	Cumulative Cost 1,646,496.71
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	07:00	1.00	1.00	2nd Int Csg	5 - Cond Mud & Circ	Vert		Pump sweep and circulate hole clean. Shakers showed no cuttings with sweep.
07:00	07:15	0.25	1.25	2nd Int Csg	5 - Cond Mud & Circ	Vert		Flow check. well static
07:15	07:30	0.25	1.50	2nd Int Csg	6 - Trips	Vert		TOOH 5 stds wet. Pulled smooth.
07:30	11:45	4.25	5.75	2nd Int Csg	6 - Trips	Vert		Pump slug. TOOH T/3864'. Hole taking proper fill.
11:45	12:30	0.75	6.50	2nd Int Csg	6 - Trips	Vert		Remove rotating head and install trip nipple
12:30	14:00	1.50	8.00	2nd Int Csg	6 - Trips	Vert		TOOH to F/3864' T/600'. Hole taking proper fill.
14:00	15:30	1.50	9.50	2nd Int Csg	6 - Trips	Vert		LD 6.5" drill collars.
15:30	17:00	1.50	11.00	2nd Int Csg	20 - Dir. Work	Vert		LD 8.75" directional BHA.
17:00	17:30	0.50	11.50	2nd Int Csg	7 - Lubricate Rig	Vert		Rig service
17:30	18:00	0.50	12.00	2nd Int Csg	6 - Trips	Vert		PU logging tools, MU XO/bit
18:00	18:15	0.25	12.25	2nd Int Csg	21 - Other	Vert		PJSM with logging crew on handling equipment
18:15	19:00	0.75	13.00	2nd Int Csg	6 - Trips	Vert		MU flex collar, bit sub, bit, verify lengths with pipe tally
19:00	19:30	0.50	13.50	2nd Int Csg	6 - Trips	Vert		TIH 7 stds HWDP
19:30	20:00	0.50	14.00	2nd Int Csg	6 - Trips	Vert		Strap, PU, MU 12 jts drillpipe
20:00	01:45	5.75	19.75	2nd Int Csg	6 - Trips	Vert		TIH F/1230' T/12546'
01:45	02:15	0.50	20.25	2nd Int Csg	5 - Cond Mud & Circ	Vert		Circulate hole prior to dropping log tool
02:15	02:30	0.25	20.50	2nd Int Csg	21 - Other	Vert		PJSM with logging crew to drop tools
02:30	04:30	2.00	22.50	2nd Int Csg	6 - Trips	Vert		Breakout of std. bring logging tools to rig floor. drop it down drillpipe. Wait 20 min for tool to reach bottom.
04:30	05:00	0.50	23.00	2nd Int Csg	6 - Trips	Vert		LWT, TOOH F/12608' T/12165'
05:00	05:30	0.50	23.50	2nd Int	6 - Trips	Vert		TIH back to bottom to wash to 12615'

05:30	06:00	0.50	24.00	Csg 2nd Int Csg	6 - Trips	Vert	Wash to original TD of 12615'
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Cost Breakdown					
Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	328,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	35,785.00
INTN	310.15	DRILL BITS	73,000.00	0.00	44,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	146,415.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	15,038.41	87,452.01
INTN	310.19	FUEL / POWER	76,214.27	4,842.15	67,192.80
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	26,388.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	100,690.23
INTN	310.27	MUD LOGGING	0.00	1,200.00	4,800.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	875.00	12,685.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	66,800.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	96,800.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	56,904.56	1,383,254.43
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	263,242.28
		Total	3,051,379.92	56,904.56	1,646,496.71

Mud Checks					
Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/01/2020 16:00:00	85.0	12,615.0	12,615.0	9.00	30
PV (cP)	YP (lb/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
4	2	8.5	5.0	0.0	95.0
Sand (%)	Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	11.0	1
MBT (lb/bbl)	Pm (mL/mL)	PF (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.200	40,000	600
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		3.0	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio	Electric Stab (V)	WPS ()	solCorPc (%)

0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm () 10	300 Rpm () 6	vis200Rpm () 4	vis100Rpm () 3	vis6Rpm () 2	vis3Rpm () 1

Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Printed: 12/2/2019 4:52:09 AM



Daily Report

Report Date: 12/01/2019
 Report No: 20
 Days From Spud: 12.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jorge Morales	Mobile Phone (817) 408-6267

Activity Summary
 Rotate F/11200' T/11911'. Rig service. Rotate F/11911' T/12450'. Rig service. Rotate F/12450' T/12575', reduced ROP of 10 ft/hr to find Ellenberger top. Circulate cutting to surface to confirm. Ellenberger top called @ 12570'. Rotate F/12575' T/12615' for casing point. Sweep hole and circulate.

Current Status
 Circulating hole clean

24 Hr Forecast
 TOOH and LD 6.5" collars and directional BHA. RU Cordax Evaluation composite collars and bit, TIH to bottom.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Making stands and tripping pipe.

EHS Comment
 No incidents/no accidents

Limiting Factor
 Catching samples

Progress (ft) 1415.0	Depth End (ft) 12,615.0	Drill Time (hrs) 22.0	Daily Cost 59,923.09	Cumulative Cost 1,589,592.15
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	15:30	9.50	9.50	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/11,200' T/11,911' WOB-45-55K, DIFF-200-300 PSI, SPP-3400 PSI, GPM-700, TQ-13-16K, 95% RETURNS
15:30	16:00	0.50	10.00	2nd Int Drlg	7 - Lubricate Rig	Vert		Rig service
16:00	23:00	7.00	17.00	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/11,911' T/12,450'. WOB-45-55K, DIFF-200-300 PSI, SPP-3400 PSI, GPM-700, TQ-13-16K, 95% RETURNS
23:00	23:30	0.50	17.50	2nd Int Drlg	7 - Lubricate Rig	Vert		Rig service
23:30	04:15	4.75	22.25	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/12,450' T/12,575'. WOB-6K, DIFF-60 PSI, SPP-3100 PSI, GPM-700, TQ-13K, 95% RETURNS. Control drill 10 ft/hr to catch samples to find top of Ellenberger.
04:15	05:00	0.75	23.00	2nd Int Drlg	5 - Cond Mud & Circ	Vert		Circulate hole for cuttings samples to confirm Ellenberger top. Top called @12,570'
05:00	05:45	0.75	23.75	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/12,575' T/12,615'. WOB-45K, DIFF-200 PSI, SPP-3300 PSI, GPM-700, TQ-12K, 95% RETURNS. TD@12,615'
05:45	06:00	0.25	24.00	2nd Int Csg	5 - Cond Mud & Circ	Vert		Pump sweep and circulate hole clean after TD@12,615'.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	310,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	34,036.00
INTN	310.15	DRILL BITS	73,000.00	0.00	44,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	138,815.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	15,038.41	72,413.60
INTN	310.19	FUEL / POWER	76,214.27	7,324.50	62,350.65
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	536.18	26,388.89
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	100,690.23

INTN	310.27	MUD LOGGING	0.00	1,200.00	3,600.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	875.00	11,810.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	64,600.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	91,400.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	59,923.09	1,326,349.87
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	263,242.28
		Total	3,051,379.92	59,923.09	1,589,592.15

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
12/01/2019 05:45:00	90.0	12,615.0	12,615.0	9.00	30
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
4	2	9.0	5.0	0.0	95.0
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	10.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.200	40,000	600
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		2.9	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
10	6	4	2	1	1

Drilling Parameters

Depth Start (ft)	Depth End (ft)	Date Start (DateTime)	Date End (DateTime)	Pump Press (lbs)
11,200.0	12,615.0	11/30/2019 06:00:00	12/01/2019 06:00:00	3,300
Drill Rot Dist (ft)	Drill Rot Time (hr)	Av RPM (rpm)	Av WOB (Mlbs)	Av ROP (ft/hr)
1415	22.00	80	50	90.00
Drill Slide Dist (ft)	Drill Slide Time (hr)	PU Load (Mlbs)	SO Load (Mlbs)	Rot Load (Mlbs)
0	0.00	340	300	330

Bit Data

SMITH XS716

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
4	8.750	PDC	SMITH		JP8411
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
2,865.0	39.50	7/7/7/7/7/7/0/0/0		0.00	

Drilling String Components

Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	Bit	8.750	0.000	8.750	4 1/2 REG	1.00	1.00
1	Motor	6.750	0.000	0.000	4 1/2 IF	31.77	32.77
1	8.25" stabilizer	6.750	2.750	8.250	4 1/2 IF	4.44	37.21
1	UBHO	6.750	2.813	0.000	4 1/2 IF	3.73	40.94
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.08	71.02

1	8.25" NM Stabilizer	6.750	2.750	8.250	4 1/2 IF	5.90	76.92
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.56	107.48
1	8.25" stabilizer	6.750	2.500	8.250	4 1/2 IF	5.59	113.07
1	Crossover	6.500	2.875	0.000	4 1/2 IF to 4 1/2 XH	4.02	117.09
15	6.5" Drill Collar	6.500	2.438	0.000	4 1/2 XH	459.54	576.63
1	Crossover	6.563	2.313	0.000	4 1/2 XH - 4 1/2 IF	4.64	581.27
21	HWDP	5.000	3.000	0.000	4 1/2 IF	641.09	1,222.36

Mud Pumps

name PUMP #1			Manufacturer HONG HUA			Model HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/30/2019 17:00:00	6.000	12.00	83.0	350	11,989.0	3,450	95.0	NORMAL
name PUMP #3			Manufacturer HONG HUA			Model HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/30/2019 17:00:00	6.000	12.00	83.0	350	11,989.0	3,450	95.0	NORMAL

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
MWD	11,221.0	0.50	233.20	11,219.49	10.24	10.24	34.12	0.10
MWD	11,403.0	0.50	225.40	11,401.48	9.21	9.21	32.92	0.04
MWD	11,585.0	0.50	229.70	11,583.49	0.00	0.00	0.00	0.02
MWD	11,763.5	0.70	204.20	11,761.96	-1.50	-1.50	-1.04	0.18
MWD	11,945.0	0.70	221.10	11,943.47	-3.35	-3.35	-2.22	0.11
MWD	12,125.0	0.70	243.30	12,123.46	-4.67	-4.67	-3.93	0.15
MWD	12,305.0	0.70	239.00	12,303.45	-5.73	-5.73	-5.85	0.03
MWD	12,486.0	0.90	246.40	12,484.43	-6.87	-6.87	-8.10	0.12
	12,561.0	0.70	236.50	12,559.42	-7.36	-7.36	-9.02	0.32

Printed: 12/1/2019 4:51:31 AM



Daily Report

Report Date: 11/30/2019
 Report No: 19
 Days From Spud: 11.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429			
Name Jason Fontenot	Mobile Phone (337) 831-7652			
Activity Summary TIH T/5400'. remove trip nipple and install rotating head. Break circulation and had good returns. TIH T/9570', wash down last two stds. Rotate F/9750' T/9890'. 400 psi pressure drop on stand pipe pressure, replaced 2" on pump #3. Rotate F/9890' T/11200'				
Current Status Drilling ahead @11,200'				
24 Hr Forecast Continue drilling to Ellenberger				
Incident Summary Injuries: 0 Incidents: 0 Spills: 0				
Safety Topic House keeping. Wet and muddy conditions on location				
EHS Comment No incidents/no accidents				
Limiting Factor Formation changes				
Progress (ft) 1450.0	Depth End (ft) 11,200.0	Drill Time (hrs) 17.5	Daily Cost 49,730.75	Cumulative Cost 1,501,669.06

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	07:30	1.50	1.50	2nd Int Drlg	6 - Trips	Vert		TIH F/2200' T/5400'
07:30	08:00	0.50	2.00	2nd Int Drlg	6 - Trips	Vert		Pull trip nipple and install rotating head
08:00	08:15	0.25	2.25	2nd Int Drlg	6 - Trips	Vert		TIH F/5400' T/5600'
08:15	11:30	3.25	5.50	2nd Int Drlg	6 - Trips	Vert		TIH F/5600' T/9750'. Wash down last two stds
11:30	13:45	2.25	7.75	2nd Int Drlg	2.1 - Drill ROT	Vert		Drill F/9750' T/9879' WOB-39, Diff-200, SPP-3390, RPM-100, GPM-694, TQ-17K, 67% returns
13:45	14:45	1.00	8.75	2nd Int Drlg	7 - Lubricate Rig	Vert		Mud pump repairs, found wash on 2". Lost 400 psi on stand pipe pressure. Replaced valve and pressure came back.
14:45	06:00	15.25	24.00	2nd Int Drlg	2.1 - Drill ROT	Vert		Drill F/9879' T/11200' WOB-45, Diff-210, SPP-3531, RPM-100, GPM-700, TQ-21K, 90% returns

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	292,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	32,287.00
INTN	310.15	DRILL BITS	73,000.00	0.00	16,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	131,215.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	7,391.50	57,375.19
INTN	310.19	FUEL / POWER	76,214.27	5,315.25	55,026.15
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	25,852.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	100,690.23
INTN	310.27	MUD LOGGING	0.00	1,200.00	2,400.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00

INTN	310.33	EQUIPMENT RENTAL	74,928.02	875.00	10,935.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	62,400.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	86,000.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	49,730.75	1,238,426.78
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	263,242.28
		Total	3,051,379.92	49,730.75	1,501,669.06

Mud Checks

Date 11/30/2019 05:45:00	Temp 90.0	MD (ft) 11,200.0	TVD (ft) 11,200.0	Weight (lb/gal) 9.00	Vis (s/qt) 30
PV (cP) 2	YP (lb/100ft2) 2	pH 9.0	Solids (%) 5.0	Oil (%) 0.0	Water (%) 95.0
Sand (%) 0.0	Gel 10 sec (lb/100ft2) 1.000	Gel 10 min (lb/100ft2) 1.000	Gel 30 min (lb/100ft2) 1.000	Filtrate (mL/30min) 11.0	Cake (1/32") 1
MBT (lb/bbl) 0.0	Pm (mL/mL) 0.200	Pf (mL/mL) 0.200	Mf (mL/mL) 0.300	Chlorides (mg/L) 40,000	Calcium (mg/L) 600
		LGS (%) 3.0	HTHP Cake (1/32") 0	HTHP Press (psi) 0.0	HTHP Temp (°F) 0.0
Lime (lb/bbl) / Excess Lime (lb/bbl) 0.0 / 0.00	Brine (lb/gal) 0.00	Oil / Water Ratio / 100	Electric Stab (V) 0.0	WPS () 0	solCorPc (%) 0.00
600 Rpm () 6	300 Rpm () 4	vis200Rpm () 1	vis100Rpm () 1	vis6Rpm () 1	vis3Rpm () 1

Drilling Parameters

Depth Start (ft) 9,750.0	Depth End (ft) 11,200.0	Date Start (DateTime) 11/29/2019 11:00:00	Date End (DateTime) 11/30/2019 06:00:00	Pump Press (lbs) 3,550
Drill Rot Dist (ft) 1450	Drill Rot Time (hr) 17.50	Av RPM (rpm) 100	Av WOB (Mlbs) 40	Av ROP (ft/hr) 100.00
Drill Slide Dist (ft) 0	Drill Slide Time (hr) 0.00	PU Load (Mlbs) 320	SO Load (Mlbs) 300	Rot Load (Mlbs) 310

Bit Data

SMITH XS716

Bit No 4	Bit Size 8.750	Bit Type PDC	Make SMITH	IADC Code	Serial No JP8411
Depth Drilled (ft) 1,450.0	Time Drilled (hr) 17.50	Nozzles 7/7/7/7/7/7/0/0/0		TFA (in²) 0.00	Mfg Code

Drilling String Components

Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	Bit	8.750	0.000	8.750	4 1/2 REG	1.00	1.00
1	Motor	6.750	0.000	0.000	4 1/2 IF	31.77	32.77
1	8.25" stabilizer	6.750	2.750	8.250	4 1/2 IF	4.44	37.21
1	UBHO	6.750	2.813	0.000	4 1/2 IF	3.73	40.94
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.08	71.02
1	8.25" NM Stabilizer	6.750	2.750	8.250	4 1/2 IF	5.90	76.92
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.56	107.48
1	8.25" stabilizer	6.750	2.500	8.250	4 1/2 IF	5.59	113.07

1	Crossover	6.500	2.875	0.000	4 1/2 IF to 4 1/2 XH	4.02	117.09
15	6.5" Drill Collar	6.500	2.438	0.000	4 1/2 XH	459.54	576.63
1	Crossover	6.563	2.313	0.000	4 1/2 XH - 4 1/2 IF	4.64	581.27
21	HWDP	5.000	3.000	0.000	4 1/2 IF	641.09	1,222.36

Mud Pumps

name		Manufacturer				Model		
PUMP #1		HONG HUA				HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/29/2019 15:20:00	6.000	12.00	83.0	350	9,906.0	3,400	95.0	NORMAL
name		Manufacturer				Model		
PUMP #2		HONG HUA				HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/29/2019 15:20:00	6.000	12.00	83.0	350	9,906.0	3,400	95.0	NORMAL
name		Manufacturer				Model		
PUMP #3		HONG HUA				HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/29/2019 15:20:00	6.000	12.00	83.0	350	9,906.0	3,400	95.0	NORMAL

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
MWD	9,775.0	0.60	186.00	9,773.58	21.49	21.49	44.00	0.14
MWD	9,955.0	0.50	209.20	9,953.57	19.87	19.87	43.52	0.13
MWD	10,316.0	0.50	235.40	10,314.56	17.60	17.60	41.45	0.06
MWD	10,497.0	0.60	230.50	10,495.55	16.55	16.55	40.07	0.06
MWD	10,667.0	0.70	225.20	10,665.54	15.25	15.25	38.65	0.07
MWD	10,858.0	0.90	221.00	10,856.52	13.30	13.30	36.84	0.11
MWD	11,038.0	0.60	217.10	11,036.50	11.48	11.48	35.34	0.17

Printed: 11/30/2019 4:52:08 AM



Daily Report

Report Date: 11/29/2019
 Report No: 18
 Days From Spud: 10.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jason Fontenot	Mobile Phone (337) 831-7652

Activity Summary
 Drill F/8831' T/9527'. Rig service. Drill F/9527' T/9750'. ROP decreased significantly, decision was made to TOOH for the bit. Pump two sweeps and circulate 2 BU. Pull three stds wet, pump slug and TOOH T/4830'. Pull rotating head and install trip nipple. TOOH T/574'. Rack back collars. LD motor and pull MWD, Break off bit. Bit was ringed out on the face. PU replacement motor, scribe, install MWD, test MWD, test good. Install bit and top monel. TIH T/2400'

Current Status
 TIH @ 2400'

24 Hr Forecast
 TIH T/9750' and resume drilling.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Tripping and handling BHA

EHS Comment
 No incidents/no accidents

Limiting Factor
 Bit failure

Progress (ft) 919.0	Depth End (ft) 9,750.0	Drill Time (hrs) 12.5	Daily Cost 59,005.10	Cumulative Cost 1,451,938.31
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	14:00	8.00	8.00	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/8831' T/9527. WOB-45, GPM-700, DIFF-400, SPP-3300, RPM-100,
14:00	14:30	0.50	8.50	2nd Int Drlg	7 - Lubricate Rig	Vert		Rig service
14:30	19:00	4.50	13.00	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/9527' T/9750. WOB-45, GPM-700, DIFF-250, SPP-3300, RPM-100,
19:00	20:15	1.25	14.25	2nd Int Drlg	5 - Cond Mud & Circ	Vert		Circulate hole clean. Pump two sweeps and 2 BU. Shakers clean
20:15	20:30	0.25	14.50	2nd Int Drlg	6 - Trips	Vert		TOOH 3 stds wet F/9750' T/9370', pulled off bottom well.
20:30	20:45	0.25	14.75	2nd Int Drlg	5 - Cond Mud & Circ	Vert		Flow check, no flow. Pump slug.
20:45	23:00	2.25	17.00	2nd Int Drlg	6 - Trips	Vert		TOOH F/9370' T/4830'
23:00	23:30	0.50	17.50	2nd Int Drlg	6 - Trips	Vert		Pull rotating head and install trip nipple
23:30	02:00	2.50	20.00	2nd Int Drlg	6 - Trips	Vert		TOOH F/4830' T/BHA
02:00	02:15	0.25	20.25	2nd Int Drlg	21 - Other	Vert		PJSM, handling BHA
02:15	03:00	0.75	21.00	2nd Int Drlg	20 - Dir. Work	Vert		Break bit off motor. Bit ringed out. LD motor and pull MWD.
03:00	04:30	1.50	22.50	2nd Int Drlg	20 - Dir. Work	Vert		PU replacement motor. Scribe and install MWD. Test MWD, test good. MU bit. PU/MU top monel and stabilizer.
04:30	06:00	1.50	24.00	2nd Int Drlg	6 - Trips	Vert		TIH T/2400'

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	274,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	30,538.00

INTN	310.15	DRILL BITS	73,000.00	0.00	16,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	15,760.00	123,615.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	7,391.50	49,983.69
INTN	310.19	FUEL / POWER	76,214.27	6,429.60	49,710.90
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	25,852.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	100,690.23
INTN	310.27	MUD LOGGING	0.00	1,200.00	1,200.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	875.00	10,060.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	60,200.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	80,600.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	59,005.10	1,188,696.03
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	263,242.28
		Total	3,051,379.92	59,005.10	1,451,938.31

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
11/28/2019 16:00:00	0.0	9,750.0	9,750.0	8.90	28
PV (cP)	YP (lb/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
1	1	10.0	5.0	0.0	95.0
Sand (%)	Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.400	0.300	0.500	55,000	1,600
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		3.0	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
4	3	1	1	1	1

Drilling Parameters

Depth Start (ft)	Depth End (ft)	Date Start (DateTime)	Date End (DateTime)	Pump Press (lbs)
8,831.0	9,750.0	11/28/2019 06:00:00	11/28/2019 19:00:00	3,400
Drill Rot Dist (ft)	Drill Rot Time (hr)	Av RPM (rpm)	Av WOB (Mlbs)	Av ROP (ft/hr)
919	12.50	100	48	100.00
Drill Slide Dist (ft)	Drill Slide Time (hr)	PU Load (Mlbs)	SO Load (Mlbs)	Rot Load (Mlbs)
0	0.00	300	280	285

Bit Data

Ulterra CF716 (8-8-RO-A-X-I-BT-PR-)

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
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3	8.750	PDC	Ulterra	48738
Depth Drilled (ft) 4,115.0	Time Drilled (hr) 40.10	Nozzles 14/14/14/14/14/14/11/0/0/0		TFA (in ²) 0.99

Drilling String Components

Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	Bit	8.750	0.000	8.750	4 1/2 REG	1.00	1.00
1	Motor	6.750	0.000	0.000	4 1/2 IF	31.67	32.67
1	8.25" stabilizer	6.750	2.750	8.250	4 1/2 IF	4.44	37.11
1	UBHO	6.750	2.813	0.000	4 1/2 IF	3.73	40.84
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.08	70.92
1	8.25" NM Stabilizer	6.750	2.750	8.250	4 1/2 IF	5.90	76.82
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.56	107.38
1	8.25" stabilizer	6.750	2.500	8.250	4 1/2 IF	5.59	112.97
1	Crossover	6.500	2.875	0.000	4 1/2 IF to 4 1/2 XH	4.02	116.99
15	6.5" Drill Collar	6.500	2.438	0.000	4 1/2 XH	459.54	576.53
1	Crossover	6.563	2.313	0.000	4 1/2 XH - 4 1/2 IF	4.64	581.17
21	HWDP	5.000	3.000	0.000	4 1/2 IF	640.99	1,222.16

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
MWD	9,231.0	0.70	183.10	9,229.62	28.15	28.15	45.05	0.12
MWD	9,414.0	0.70	182.70	9,412.61	25.92	25.92	44.94	0.00
MWD	9,595.0	0.80	198.20	9,593.59	23.62	23.62	44.49	0.12

Printed: 11/29/2019 4:51:55 AM



Daily Report

Report Date: 11/28/2019
 Report No: 17
 Days From Spud: 9.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224
 Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jason Fontenot	Mobile Phone (337) 831-7652

Activity Summary
 Rotate/slide F/6479' T/7702'. Rig service. Rotate F/7702' T/7760'. NPT for Pump repair on pumps #1,2 for module gaskets. Rotate F/7760' T/8831'. After making a connection and going to bottom, pressure spiked and bit became stuck. Racked back stand and worked the next stand. Pulled 100k over and came free. Back ream out and circulate after getting loose.

Current Status
 circulating @ 8831'

24 Hr Forecast
 Continue drilling ahead to Ellenberger.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Water transfers and making stands in the mousehole.

EHS Comment
 No incidents/no accidents

Limiting Factor
 WOB, formation

Progress (ft) 2352.0	Depth End (ft) 8,831.0	Drill Time (hrs) 21.1	Daily Cost 106,420.00	Cumulative Cost 1,392,933.21
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	09:00	3.00	3.00	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/6479' T/6950', WOB-45, Diff-400, SPP-3300, RPM-100, GPM-700 TQ-10-15k. Losses 20 bbls/hr, 80% returns
09:00	09:15	0.25	3.25	2nd Int Drlg	2.2 - Drill SLD	Vert		Slide F/6950' T/6965', WOB-27, Diff-150, SPP-3110, GPM-700 MTF-225. Losses 20 bbls/hr, 80% returns
09:15	10:30	1.25	4.50	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/6965' T/7130', WOB-45, Diff-400, SPP-3300, RPM-100, GPM-700 TQ-10-15k. Losses 20 bbls/hr, 80% returns
10:30	10:45	0.25	4.75	2nd Int Drlg	2.2 - Drill SLD	Vert		Slide F/7130' T/7150', WOB-27, Diff-150, SPP-3110, GPM-700 MTF-225. Losses 20 bbls/hr, 80% returns
10:45	11:45	1.00	5.75	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/7150' T/7310', WOB-45, Diff-400, SPP-3300, RPM-100, GPM-700 TQ-10-15k. Losses 20 bbls/hr, 80% returns
11:45	12:00	0.25	6.00	2nd Int Drlg	2.2 - Drill SLD	Vert		Slide F/7310' T/7330', WOB-27, Diff-150, SPP-3110, GPM-700 MTF-225. Losses 20 bbls/hr, 80% returns
12:00	15:30	3.50	9.50	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/7330' T/7702', WOB-45, Diff-400, SPP-3300, RPM-100, GPM-700 TQ-10-15k. Losses 20 bbls/hr, 80% returns
15:30	16:30	1.00	10.50	2nd Int Drlg	7 - Lubricate Rig	Vert		Change out module gaskets on pump #2
16:30	17:30	1.00	11.50	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/7702' T/7760', WOB-45, Diff-400, SPP-3300, RPM-100, GPM-700 TQ-10-15k. Losses 20 bbls/hr, 80% returns
17:30	19:00	1.50	13.00	2nd Int Drlg	8 - Repair Rig	Vert	Equipment Failure	Change out module gaskets on pump #1,2
19:00	05:30	10.50	23.50	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/7760' T/8831', WOB-55, Diff-250, SPP-3300, RPM-100, GPM-700 TQ-17-19k. Losses 20 bbls/hr, 80% returns
05:30	06:00	0.50	24.00	2nd Int Drlg	21 - Other	Vert	Stuck Pipe	After making a connection and going to bottom, pressure spiked and bit became stuck. Racked back stand and worked the next stand. Pulled 100k over and came free. Back ream out and circulate after getting loose.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	256,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	28,789.00
INTN	310.15	DRILL BITS	73,000.00	0.00	16,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	107,855.00

INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	7,391.50	42,592.19
INTN	310.19	FUEL / POWER	76,214.27	8,188.00	43,281.30
INTN	310.21	WATER / WATER HAULING	63,000.00	35,758.50	39,943.50
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	25,852.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	19,258.00	100,690.23
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	875.00	9,185.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	0.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	58,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	75,200.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	106,420.00	1,129,690.93
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	263,242.28
		Total	3,051,379.92	106,420.00	1,392,933.21

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
11/28/2019 06:00:00	90.0	8,831.0	8,831.0	8.50	28
PV (cP)	YP (lb/100ft2)	pH	Solids (%)	Oil (%)	Water (%)
1	1	9.0	1.0	0.0	99.0
Sand (%)	Gel 10 sec (lb/100ft2)	Gel 10 min (lb/100ft2)	Gel 30 min (lb/100ft2)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1
MBT (lb/bbl)	Pm (mL/mL)	PF (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.100	0.100	0.000	5,000	1,000
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		0.9	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio / 100	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00		0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
4	3	2	1	1	1

Drilling Parameters

Depth Start (ft)	Depth End (ft)	Date Start (DateTime)	Date End (DateTime)	Pump Press (lbs)
6,479.0	8,831.0	11/27/2019 06:00:00	11/28/2019 06:00:00	3,300
Drill Rot Dist (ft)	Drill Rot Time (hr)	Av RPM (rpm)	Av WOB (Mlbs)	Av ROP (ft/hr)
2297	20.25	100	50	140.00
Drill Slide Dist (ft)	Drill Slide Time (hr)	PU Load (Mlbs)	SO Load (Mlbs)	Rot Load (Mlbs)
55	0.8	275	255	265

Bit Data

Ultrerra CF716

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
3	8.750	PDC	Ultrerra		48738
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
3,196.0	27.60	14/14/14/14/14/11/0/0/0		0.99	

Drilling String Components							
Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	Bit	8.750	0.000	8.750	4 1/2 REG	1.00	1.00
1	Motor	6.750	0.000	0.000	4 1/2 IF	31.67	32.67
1	8.25" stabilizer	6.750	2.750	8.250	4 1/2 IF	4.44	37.11
1	UBHO	6.750	2.813	0.000	4 1/2 IF	3.73	40.84
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.08	70.92
1	8.25" NM Stabilizer	6.750	2.750	8.250	4 1/2 IF	5.90	76.82
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.56	107.38
1	8.25" stabilizer	6.750	2.500	8.250	4 1/2 IF	5.59	112.97
1	Crossover	6.500	2.875	0.000	4 1/2 IF to 4 1/2 XH	4.02	116.99
15	6.5" Drill Collar	6.500	2.438	0.000	4 1/2 XH	459.54	576.53
1	Crossover	6.563	2.313	0.000	4 1/2 XH - 4 1/2 IF	4.64	581.17
21	HWDP	5.000	3.000	0.000	4 1/2 IF	640.99	1,222.16

Mud Pumps								
name			Manufacturer			Model		
PUMP #1			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/28/2019 02:00:00	6.000	12.00	83.0	350	8,515.0	3,200	95.0	NORMAL
name			Manufacturer			Model		
PUMP #2			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/28/2019 02:00:00	6.000	12.00	83.0	350	8,515.0	3,200	95.0	NORMAL
name			Manufacturer			Model		
PUMP #3			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/28/2019 02:00:00	6.000	12.00	83.0	350	8,515.0	3,200	95.0	NORMAL

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
MWD	6,515.0	0.40	41.40	6,513.72	35.42	35.42	38.67	0.60
MWD	6,695.0	0.50	47.40	6,693.71	36.42	36.42	39.66	0.06
MWD	6,874.0	0.60	54.20	6,872.70	37.50	37.50	41.00	0.07
MWD	7,057.0	0.50	126.90	7,055.69	37.58	37.58	42.42	0.36
MWD	7,236.0	0.80	153.40	7,234.68	35.99	35.99	43.60	0.23
MWD	7,417.0	1.00	209.50	7,415.66	33.49	33.49	43.39	0.48
MWD	7,780.0	0.40	110.50	7,778.63	30.29	30.29	43.02	0.31
MWD	7,960.0	0.20	112.00	7,958.63	29.95	29.95	43.90	0.11
MWD	8,139.0	0.20	43.20	8,137.63	30.06	30.06	44.40	0.13
MWD	8,323.0	0.10	47.40	8,321.63	30.40	30.40	44.74	0.05
MWD	8,505.0	0.00	143.80	8,503.63	30.51	30.51	44.86	0.05

Printed: 11/28/2019 4:51:53 AM



Daily Report

Report Date: 11/27/2019
 Report No: 16
 Days From Spud: 8.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jason Fontenot	Mobile Phone (337) 831-7652

Activity Summary
 TIH with packer to 5525' and set. Packer set successfully, Test casing to 1653 psi for 30 min, bled off to 1635 psi, test good. TOOH to LD packer and PU directional tools. 1 hr downtime for high winds. Wind passed and continued TOOH. LD packer and MU 8.75" intermediate #2 BHA. TIH T/610'. Rig service. TIH T/5482'. Slip/cut drill line. Wash down and tag shoe @5595'. Drillout shoe @40 RPM, 500 GPM, 2-4K torque. No cement below shoe. Tag formation @5636'. Drill ahead T/6479'

Current Status
 Drilling 8.75" intermediate #2 @6479'

24 Hr Forecast
 Continue drilling intermediate #2 to Ellenberger.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 High winds. First day back. MU stds drill pipe.

EHS Comment
 No incidents/no accidents

Limiting Factor
 Wind

Progress (ft) 844.0	Depth End (ft) 6,479.0	Drill Time (hrs) 6.6	Daily Cost 47,164.30	Cumulative Cost 1,286,513.21
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	08:30	2.50	2.50	1st Int Csg	6 - Trips	Vert	Other	TIH with packer F/30' T/5085'
08:30	09:00	0.50	3.00	1st Int Csg	6 - Trips	Vert	Other	Remove trip nipple and install rotating head
09:00	09:30	0.50	3.50	1st Int Csg	6 - Trips	Vert	Other	PU 10 jts 5" drill pipe
09:30	11:00	1.50	5.00	1st Int Csg	12 - Run Csg/Cmt	Vert	Other	Set packer @5525'. Pressure test to 1653psi, hold for 30 min. Pressure bled off to 1635psi, test passed. Bleed off pressure, unset packer.
11:00	11:30	0.50	5.50	1st Int Csg	7 - Lubricate Rig	Vert	Other	Rig service
11:30	12:00	0.50	6.00	1st Int Csg	6 - Trips	Vert	Other	TOOH F/5525' T/4830'
12:00	12:30	0.50	6.50	1st Int Csg	6 - Trips	Vert	Other	Remove rotating head and install trip nipple
12:30	13:30	1.00	7.50	1st Int Csg	6 - Trips	Vert	Other	TOOH F/4930' T/2280'
13:30	14:45	1.25	8.75	1st Int Csg	21 - Other	Vert	Weather	Shut down operations due to high winds. Constant wind at 30 mph, gusts to 50 mph.
14:45	16:30	1.75	10.50	1st Int Csg	6 - Trips	Vert	Other	TOOH F/2280' to surface at reduced rate due to high winds, watching service loop on ODS side. LD packer.
16:30	17:15	0.75	11.25	1st Int Csg	20 - Dir. Work	Vert	Other	PU racked back motor and bit, PU/MU NMDC, MU stab/XO
17:15	18:00	0.75	12.00	1st Int Csg	6 - Trips	Vert	Other	TIH F/180' T/610', 5 stds 6.5" collars
18:00	18:30	0.50	12.50	1st Int Csg	7 - Lubricate Rig	Vert	Other	Rig service
18:30	20:30	2.00	14.50	1st Int Csg	6 - Trips	Vert	Other	TIH F/610' T/5298'
20:30	21:00	0.50	15.00	1st Int Csg	6 - Trips	Vert	Other	Remove trip nipple and install rotating head
21:00	22:30	1.50	16.50	1st Int Csg	9 - Slip and Cut	Vert	Other	Slip/cut drill line
22:30	23:30	1.00	17.50	1st Int Csg	3 - Ream	Vert	Other	Wash down to shoe @20-rpm, 500-gpm, 5k-WOB. Tagged shoe @5595'. Drilled through shoe into rathole. Washed to previous TD@5635', no cement below shoe. Tagged and took weight @5636'.
23:30	05:00	5.50	23.00	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/5635' T/6398', WOB-38, Diff-400, SPP-3100, RPM-80, GPM-700 TQ-10-15k. Losses 60-80bbls/hr

05:00	05:15	0.25	23.25	2nd Int Drlg	2.2 - Drill SLD	Vert		Slide F/6398' T/6413', WOB-25, Diff-400, SPP-3000, GPM-700 MTF-270. Losses 60-80bbls/hr
05:15	06:00	0.75	24.00	2nd Int Drlg	2.1 - Drill ROT	Vert		Rotate F/6413' T/6479', WOB-38, Diff-400, SPP-3100, RPM-80, GPM-700 TQ-10-15k. Losses 60-80bbls/hr

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	238,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	27,040.00
INTN	310.15	DRILL BITS	73,000.00	0.00	16,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	100,255.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	950.00	35,200.69
INTN	310.19	FUEL / POWER	76,214.27	3,870.30	35,093.30
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	650.00	25,852.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	81,432.23
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	875.00	8,310.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.38	FISHING/SIDETRACK SERVICES	0.00	5,870.00	5,870.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	55,800.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	69,800.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	47,164.30	1,023,270.93
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	263,242.28
		Total	3,051,379.92	47,164.30	1,286,513.21

Mud Checks

Date 11/27/2019 00:00:00	Temp 0.0	MD (ft) 6,479.0	TVD (ft) 0.0	Weight (lb/gal) 0.00	Vis (s/qt) 0
PV (cP) 0	YP (lb/100ft2) 0	pH 0.0	Solids (%) 0.0	Oil (%) 0.0	Water (%) 0.0
Sand (%) 0.0	Gel 10 sec (lb/100ft2) 0.000	Gel 10 min (lb/100ft2) 0.000	Gel 30 min (lb/100ft2) 0.000	Filtrate (mL/30min) 0.0	Cake (1/32") 0
MBT (lb/bbl) 0.0	Pm (mL/mL) 0.000	Pf (mL/mL) 0.000	Mf (mL/mL) 0.000	Chlorides (mg/L) 0	Calcium (mg/L) 0
		LGS (%) 0.0	HTHP Cake (1/32") 0	HTHP Press (psi) 0.0	HTHP Temp (°F) 0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio	Electric Stab (V)	WPS ()	solCorPc (%)

0.0 / 0.00	0.00	NaN / NaN	0.0	0	0.00
600 Rpm () 0	300 Rpm () 0	vis200Rpm () 0	vis100Rpm () 0	vis6Rpm () 0	vis3Rpm () 0

Drilling Parameters					
Depth Start (ft) 5,635.0	Depth End (ft) 6,479.0	Date Start (DateTime) 11/26/2019 23:30:00	Date End (DateTime) 11/27/2019 06:00:00	Pump Press (lbs) 3,100	
Drill Rot Dist (ft) 828	Drill Rot Time (hr) 6.25	Av RPM (rpm) 80	Av WOB (Mlbs) 32	Av ROP (ft/hr) 200.00	
Drill Slide Dist (ft) 15	Drill Slide Time (hr) 0.3	PU Load (Mlbs) 230	SO Load (Mlbs) 205	Rot Load (Mlbs) 220	

Bit Data					
Ulterra CF716					
Bit No 3	Bit Size 8.750	Bit Type PDC	Make Ulterra	IADC Code	Serial No 48738
Depth Drilled (ft) 844.0	Time Drilled (hr) 6.55	Nozzles 14/14/14/14/14/11/0/0/0		TFA (in ²) 0.99	Mfg Code

Drilling String Components							
Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	Bit	8.750	0.000	8.750	4 1/2 REG	1.00	1.00
1	Motor	6.750	0.000	0.000	4 1/2 IF	31.67	32.67
1	8.25" stabilizer	6.750	2.750	8.250	4 1/2 IF	4.44	37.11
1	UBHO	6.750	2.813	0.000	4 1/2 IF	3.73	40.84
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.08	70.92
1	8.25" NM Stabilizer	6.750	2.750	8.250	4 1/2 IF	5.90	76.82
1	NMDC	6.750	3.250	0.000	4 1/2 IF	30.56	107.38
1	8.25" stabilizer	6.750	2.500	8.250	4 1/2 IF	5.59	112.97
1	Crossover	6.500	2.875	0.000	4 1/2 IF to 4 1/2 XH	4.02	116.99
15	6.5" Drill Collar	6.500	2.438	0.000	4 1/2 XH	459.54	576.53
1	Crossover	6.563	2.313	0.000	4 1/2 XH - 4 1/2 IF	4.64	581.17
21	HWDP	5.000	3.000	0.000	4 1/2 IF	640.99	1,222.16

Mud Pumps								
name PUMP #1			Manufacturer HONG HUA			Model HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/27/2019 04:00:00	6.000	12.00	83.0	350	6,247.0	3,100	95.0	NORMAL
name PUMP #2			Manufacturer HONG HUA			Model HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/27/2019 04:00:00	6.000	12.00	83.0	350	6,247.0	3,100	95.0	NORMAL
name PUMP #3			Manufacturer HONG HUA			Model HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/27/2019 04:00:00	6.000	12.00	83.0	350	6,247.0	350	95.0	NORMAL

Survey Data									
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	
MWD	5,608.0	1.40	72.90	5,606.98	29.26	29.26	18.47	0.18	
MWD	5,790.0	1.40	76.40	5,788.93	30.44	30.44	22.76	0.05	
MWD	5,970.0	1.50	72.00	5,968.87	31.69	31.69	27.14	0.08	
MWD	6,150.0	1.50	75.20	6,148.81	33.02	33.02	31.66	0.05	
MWD	6,334.0	1.40	72.90	6,332.75	34.30	34.30	36.14	0.06	



Daily Report

Report Date: 11/26/2019
 Report No: 15
 Days From Spud: 7.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

Field Name: Spraberry
 AFE Number: Lone Ranger #1
 KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jason Fontenot	Mobile Phone (337) 831-7652

Activity Summary
 Cemented 9 5/8" 1st Intermediate Casing. Plug did not bump, pumped 2 additional bbls , plug did not bump. Checked floats, holding, bled back 1.5 bbls. No cement or spacer to surface. Install and test packoff, swap over to FW in pits, PU BHA. TIH to 5550' and tagged plug. Attempt to pressure test casing. Test failed. Troubleshoot and isolate surface equipment. Pressure would bleed off and hold @750 psi. Drill out float collar and plug. TIH on elevators and tagged @5594.5 with 15k weight. No cement in shoe track. Decision was made to TOOH to PU packer to test casing. TOOH and stand back BHA. PU packer.

Current Status
 TIH with packer to test casing.

24 Hr Forecast
 Test casing with packer. Evaluate results for next step.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic

EHS Comment
 No incidents/no accidents

Limiting Factor
 Casing test

Progress (ft) 0.0	Depth End (ft) 5,635.0	Drill Time (hrs) 0.0	Daily Cost 141,188.68	Cumulative Cost 1,239,348.91
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" 54.5 J-55 BTC Surface Casing	11/19/2019 11:00:00	25.0	410.0
9 5/8" 40# L-80 BTC Intermediate	11/25/2019 00:00:00	32.0	5,598.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	09:45	3.75	3.75	1st Int Csg	12 - Run Csg/Cmt	Vert		Pump intermediate cement job. Job as follows: -30 bbls spacer. -794.2 bbls, 1835 sks, 2.43 yld, 14.38 gal/sk 12ppg lead cement -140.5 bbls, 140.5 sks, 1.36 yld, 6.379 gal/sk tail 14.8ppg cement -421.4 bbls displacement 50%-Full returns throughout job, no cement or spacer to surface. Plug did not bump,Pumped 421 bbls of displacement then an extra 2bbls to attempt to bump plug a second time. Plug did not bump on second attempt however floats held.
09:45	10:15	0.50	4.25	1st Int Csg	12 - Run Csg/Cmt	Vert		RD cementers, cement head and lines.
10:15	10:45	0.50	4.75	1st Int Csg	12 - Run Csg/Cmt	Vert		LD landing jt, casing bails and elevators.
10:45	11:45	1.00	5.75	1st Int Csg	12 - Run Csg/Cmt	Vert		Set packoff and pressure test to 5000psi. Test good
11:45	12:00	0.25	6.00	1st Int Csg	14 - Nipple up BOP	Vert		Set medium wear bushing
12:00	12:45	0.75	6.75	1st Int Csg	20 - Dir. Work	Vert		PU directional subs, stabilizers and bit to rig floor.
12:45	16:15	3.50	10.25	1st Int Csg	20 - Dir. Work	Vert		MU intermediate #2 directional BHA, test MWD. Test good BHA Details: 8 3/4" CF716 Bit 6 3/4" Dynamax 7/8 lobe, 5.7 stage set @ 1.15 fixed bend motor. (0.23 rev/gal) 8 1/4" Stabilizer 6 3/4" UBHO Sub 6 3/4" NMDC 8 1/4" Stab 6 3/4" NMDC 8 1/4" Stab XO 15 6.5" DC's XO 21 Jts HWDP
16:15	19:15	3.00	13.25	1st Int Csg	6 - Trips	Vert		TIH F/BHA T/4300'
19:15	19:45	0.50	13.75	1st Int Csg	6 - Trips	Vert		Remove trip nipple and install rotating head
19:45	21:00	1.25	15.00	1st Int Csg	6 - Trips	Vert		TIH T/5500'. Tag plug @5550'

21:00	00:00	3.00	18.00	1st Int Csg	15 - Test BOP	Vert	Other	Attempt to pressure test. Test failed. Troubleshoot and isolate surface equipment. Pressure would bleed off and hold @750 psi.
00:00	00:30	0.50	18.50	1st Int Csg	3 - Ream	Vert	Other	Drillout plug and float collar @5552'. TIH below float collar on elevators, no cement in shoe track. Tagged @5594.5' with 15k.
00:30	05:15	4.75	23.25	1st Int Csg	6 - Trips	Vert	Other	TOOH F/5594' T/BHA.
05:15	05:30	0.25	23.50	1st Int Csg	20 - Dir. Work	Vert	Other	Rack back directional BHA
05:30	06:00	0.50	24.00	1st Int Csg	6 - Trips	Vert	Other	PU/MU packer

Cost Breakdown					
Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	220,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,749.00	25,291.00
INTN	310.15	DRILL BITS	73,000.00	12,970.00	16,072.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	21,507.50	92,655.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	950.00	34,250.69
INTN	310.19	FUEL / POWER	76,214.27	3,660.00	31,223.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	2,400.00	25,202.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	61,533.23	81,432.23
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	875.00	7,435.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	53,600.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	64,400.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	0.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	131,244.73	976,106.63
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	9,943.95	44,341.75
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	9,943.95	263,242.28
		Total	3,051,379.92	141,188.68	1,239,348.91

Mud Checks					
Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
11/26/2019 00:00:00	85.0	5,635.0	5,635.0	8.50	28
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
1	1	8.5	1.0	0.0	99.0
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	0.0	1

MBT (lb/bbl) 0.0	Pm (mL/mL) 0.100	Pf (mL/mL) 0.100	Mf (mL/mL) 0.200	Chlorides (mg/L) 3,000	Calcium (mg/L) 1,200
		LGS (%) 0.0	HTHP Cake (1/32") 0	HTHP Press (psi) 0.0	HTHP Temp (°F) 0.0
Lime (lb/bbl) / Excess Lime (lb/bbl) 0.0 / 0.00	Brine (lb/gal) 0.00	Oil / Water Ratio / 100	Electric Stab (V) 0.0	WPS () 0	solCorPc (%) 0.00
600 Rpm () 3	300 Rpm () 2	vis200Rpm () 1	vis100Rpm () 1	vis6Rpm () 1	vis3Rpm () 1

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components								
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Mud Pumps								
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Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)

Printed: 11/26/2019 9:06:16 AM



Daily Report

Report Date: 11/25/2019
 Report No: 14
 Days From Spud: 6.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
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Name Jason Fontenot	Mobile Phone (337) 831-7652
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Activity Summary
 LD directional BHA. Pull wear bushing. RU and run 9-5/8" intermediate casing to 5600', tight hole @ 3500. RD casing crew. Circulate 2 casing capacities. RU Cementers.

Current Status
 Pumping cement

24 Hr Forecast
 Finish cementing. Wash stack and pull landing jt. Install packoff. PU/MU intermediate #2 directional BHA. TIH, drillout shoe track and continue drilling ahead.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Running casing and pumping cement

EHS Comment
 No incidents/no accidents

Limiting Factor
 Tight hole

Progress (ft) 0.0	Depth End (ft) 5,635.0	Drill Time (hrs) 0.0	Daily Cost 207,090.53	Cumulative Cost 1,098,160.23
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" Surface Casing	11/19/2019 11:00:00	25.0	410.0
Intermediate #1	11/25/2019 00:00:00	25.0	5,600.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	07:30	1.50	1.50	1st Int Csg	6 - Trips	Vert		TOOH to Directional tools
07:30	10:00	2.50	4.00	1st Int Csg	20 - Dir. Work	Vert		LD directional tools
10:00	10:30	0.50	4.50	1st Int Csg	14 - Nipple up BOP	Vert		Pull wear bushing
10:30	11:00	0.50	5.00	1st Int Csg	21 - Other	Vert		PJSM for RU casing crew and running casing
11:00	19:00	8.00	13.00	1st Int Csg	12 - Run Csg/Cmt	Vert		Run casing T/3580', filling every 30 jts.
19:00	22:00	3.00	16.00	1st Int Csg	12 - Run Csg/Cmt	Vert		Run casing T/3580', filling every 30 jts. Hole became tight Washed F/3580' T/3620'. Casing would not go past 3600'. Began rotating casing @80% makeup torque @6k, RPM- 10. Partial to no returns. Regained returns and raised gpm's to 800gpm and washed through from 3600' - 3604'. Washed last of casing jt down. After shutting off pumps, well ballooned back 70 bbls.
22:00	22:45	0.75	16.75	1st Int Csg	5 - Cond Mud & Circ	Vert		Pump sweep and circulate to surface, no cuttings with sweep. Partial to full returns
22:45	02:30	3.75	20.50	1st Int Csg	12 - Run Csg/Cmt	Vert		Land casing @ 5600'. Washed last jt and landing jt to bottom. Fill at bottom, washed on landing jt to land for 0.75hr. Partial to full returns.
02:30	03:00	0.50	21.00	1st Int Csg	12 - Run Csg/Cmt	Vert		RD casing crew.
03:00	05:00	2.00	23.00	1st Int Csg	12 - Run Csg/Cmt	Vert		Load cement plug, verified by WSM. Circ 2x casing capacity.
05:00	06:00	1.00	24.00	1st Int Csg	12 - Run Csg/Cmt	Vert		Held PJSM with cement and rig crews. Break circ, test lines t/3500 psi. Pump 30 bbl FW Spacer. Lead: 1835 sx, 794 bbls class c, mixed at 2.43 yld, 12.0 ppg.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	202,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,675.00	23,542.00
INTN	310.15	DRILL BITS	73,000.00	0.00	3,102.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	71,147.50
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	4,980.00

INTN	310.18	MUD / CHEMICALS	58,661.75	950.00	33,300.69
INTN	310.19	FUEL / POWER	76,214.27	1,094.00	27,563.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	22,802.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	11,020.00	15,170.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	19,899.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	435.00	6,560.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	0.00	1,510.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	51,400.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	59,000.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.22	CEMENT/FLOAT EQUIP & SERVICES	0.00	2,885.00	2,885.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	51,259.00	844,861.90
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	155,831.53	205,831.53
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	34,397.80
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	155,831.53	253,298.33
		Total	3,051,379.92	207,090.53	1,098,160.23

Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
0.0	0.00			0.00	

Drilling String Components					
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Mud Pumps					
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Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 11/24/2019
 Report No: 13
 Days From Spud: 5.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jason Fontenot	Mobile Phone (337) 831-7652
Activity Summary Work through tight spot at 1680', unsuccessful. TIH t/2500' and est returns. Pump sweeps, circ hole clean. TIH to 5610' and drill to 5635', circ sweeps. TOOH to 4500'. C&C mud. Work on mud prop, TOOH to 1950'. Wash/ream through tight hole F/1678' T/BHA	
Current Status Pulling rotating head	
24 Hr Forecast Run and cement 9.625" casing to 5600'.	
Incident Summary Injuries: 0 Incidents: 0 Spills: 0	
Safety Topic Tripping pipe. Reaming through tight hole.	
EHS Comment No incidents/no accidents	
Limiting Factor	

Progress (ft) 25.0	Depth End (ft) 5,635.0	Drill Time (hrs) 0.5	Daily Cost 72,666.00	Cumulative Cost 906,746.70
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" Surface Casing	11/19/2019 11:00:00	25.0	410.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	08:00	2.00	2.00	1st Int Drlg	3 - Ream	Vert	Lost Circulation	Working tight hole at 1685' with no success. Hole packed off, no returns.
08:00	13:00	5.00	7.00	1st Int Drlg	5 - Cond Mud & Circ	Vert	Lost Circulation	TIH with 2 stands , no circulation, TIH with 4 stands, no circulation, TIH with 4 stands t/2500'. Rotate and recip pipe, staging pumps regained returns at 600 gpm.
13:00	15:30	2.50	9.50	1st Int Drlg	5 - Cond Mud & Circ	Vert	Lost Circulation	Circ 2 sweeps from surf/surf. 1st sweep had 50% increase in cuttings, 2nd sweep had no change in cuttings. Decision made to TIH to bottom and circulate out.
15:30	17:00	1.50	11.00	1st Int Drlg	6 - Trips	Vert	Lost Circulation	TIH f/2500' and tagged at 5433'. MU top drive and wash and ream to 5610'.
17:00	17:30	0.50	11.50	1st Int Drlg	2.1 - Drill ROT	Vert		Drilling f/5610' t/5635'. 825 gpm, 100 rpm.
17:30	18:30	1.00	12.50	1st Int Csg	5 - Cond Mud & Circ	Vert		Pump hi vis sweep , circulate and recipr. pipe. 825 gpm, 100 rpm.
18:30	19:15	0.75	13.25	1st Int Csg	6 - Trips	Vert		TOOH wet F/5635' T/4500'
19:15	21:30	2.25	15.50	1st Int Csg	5 - Cond Mud & Circ	Vert		Establish circulation. Pump sweep and lower water loss.
21:30	23:15	1.75	17.25	1st Int Csg	6 - Trips	Vert		TOOH F/4500' T/1950'
23:15	05:15	6.00	23.25	1st Int Csg	3 - Ream	Vert		Wash/ream through tight hole. 700 gpm, 80 rpm. 25-100% returns
05:15	06:00	0.75	24.00	1st Int Csg	6 - Trips	Vert		TOOH F/1250' T/BHA

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	184,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	1,675.00	21,867.00
INTN	310.15	DRILL BITS	73,000.00	0.00	3,102.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	63,547.50
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	4,980.00	4,980.00
INTN	310.18	MUD / CHEMICALS	58,661.75	8,051.00	32,350.69
INTN	310.19	FUEL / POWER	76,214.27	21,212.00	42,146.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00

INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	22,802.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	1,693.00	1,693.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	4,150.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	19,899.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	345.00	6,125.00
INTN	310.34	PUMPING SERVICES / RENTAL	0.00	1,510.00	1,510.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	49,200.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	53,600.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	72,666.00	809,279.90
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	34,397.80
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	97,466.80
		Total	3,051,379.92	72,666.00	906,746.70

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
11/23/2019 18:00:00	85.0	5,635.0	5,635.0	10.00	28
PV (cP)	YP (lb/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
2	1	7.8	88.0	0.0	12.0
Sand (%)	Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	1.000	20.0	1
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.000	0.000	0.100	173,000	1,000
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		0.2	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio / 100	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00		0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
3	5	1	1	1	1

Drilling Parameters

Depth Start (ft)	Depth End (ft)	Date Start (DateTime)	Date End (DateTime)	Pump Press (lbs)
5,610.0	5,635.0	11/23/2019 17:00:00	11/23/2019 17:30:00	3,700
Drill Rot Dist (ft)	Drill Rot Time (hr)	Av RPM (rpm)	Av WOB (Mlbs)	Av ROP (ft/hr)
25	0.50	100	25	100.00
Drill Slide Dist (ft)	Drill Slide Time (hr)	PU Load (Mlbs)	SO Load (Mlbs)	Rot Load (Mlbs)
0	0.0	205	195	200

Bit Data

Drillformance

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
2	12.250	PDC	Drillformance		44431
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
5,219.0	37.50	12/12/12/12/12/12/12/12/0		0.99	

Drilling String Components

Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	bit	12.250	0.000	12.250	6-5/8	1.00	1.00
1	motor	8.000	0.000	11.875	6-5/8	37.55	38.55
1	Stabilizer	8.000	2.875	12.000	6-5/8	7.21	45.76

1	UBHO	8.000	2.875	8.000	6-5/8	3.42	49.18
1	NMDC	8.000	3.250	8.000	6-5/8	30.44	79.62
1	NM stabilizer	8.000	2.875	12.000	6-5/8	7.14	86.76
1	NMDC	8.000	3.250	8.000	6-5/8	30.00	116.76
1	stabilizer	8.000	2.875	12.000	6-5/8	7.26	124.02
1	Shock sub	8.000	2.875	8.000	6-5/8	14.13	138.15
1	XO	8.000	2.750	8.000	4-1/2 XHB X 6-5/8 REG P	2.60	140.75
15	6.5 drill collars	6.500	2.438	6.500	4-1/2 XH	459.54	600.29
1	XO	6.500	2.750	0.000	4-1/2 XHB- 4-1/2 IFP	4.64	604.93
21	HWDP	5.000	3.000	0.000	4-1/2 IF	640.99	1,245.92

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Printed: 11/24/2019 4:51:53 AM



Daily Report

Report Date: 11/23/2019
 Report No: 12
 Days From Spud: 4.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jason Fontenot	Mobile Phone (337) 831-7652
Activity Summary RRC notified of upcoming casing/cement job.	
Current Status LD BHA	
24 Hr Forecast Finish LD BHA. Pull wear bushing. RU casing crew and run 9-5/8" casing to 5600'. RD casing crew and RU cementers. Pump intermediate cement job.	
Incident Summary Injuries: 0 Incidents: 0 Spills: 0	
Safety Topic Tripping and LD BHA.	
EHS Comment No incidents/no accidents	
Limiting Factor Pump pressure and pump repairs.	

Progress (ft) 1690.0	Depth End (ft) 5,610.0	Drill Time (hrs) 15.3	Daily Cost 42,742.50	Cumulative Cost 834,080.70
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Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" Surface Casing	11/19/2019 11:00:00	25.0	410.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	06:30	0.50	0.50	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/3920' T/3970' RPM-85, WOB-20-40, SPP-3900, DIFF-300, GPM-800, TQ-8-12K, 100% returns
06:30	06:45	0.25	0.75	1st Int Drlg	2.2 - Drill SLD	Vert		Slide F/3970' T/3990' MTF-180, WOB-45, SPP-3800, DIFF-200, GPM-825, 100% returns
06:45	15:30	8.75	9.50	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/3990' T/4980' RPM-85, WOB-55, SPP-3900, DIFF-300, GPM-875, TQ-8-12K, 100% returns
15:30	16:00	0.50	10.00	1st Int Drlg	7 - Lubricate Rig	Vert		Rig service
16:00	19:00	3.00	13.00	1st Int Drlg	8 - Repair Rig	Vert	Equipment Failure	NPT Ensign. Two rig pumps down at the same time. Could not continue operations with one rig pump. Circulate and repair wear plate/liner gasket.
19:00	19:30	0.50	13.50	1st Int Drlg	7 - Lubricate Rig	Vert		Rig service
19:30	22:00	2.50	16.00	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/4980' T/5240' RPM-85, WOB-40, SPP-3900, DIFF-300, GPM-800, TQ-8-12K, 100% returns
22:00	22:15	0.25	16.25	1st Int Drlg	2.2 - Drill SLD	Vert		Slide F/5240' T/5260' MTF-200, WOB-45, SPP-3800, DIFF-200, GPM-825, 100% returns
22:15	01:15	3.00	19.25	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/5260' T/5610' RPM-85, WOB-40, SPP-3900, DIFF-300, GPM-800, TQ-8-12K, 100% returns
01:15	02:00	0.75	20.00	1st Int Csg	5 - Cond Mud & Circ	Vert		Pump sweep at TD. Sweep came back with minimal cuttings, shakers clean
02:00	05:00	3.00	23.00	1st Int Csg	6 - Trips	Vert		Flow check, no flow. Pump slug. TOOH F/5610' T/BHA
05:00	06:00	1.00	24.00	1st Int Csg	3 - Ream	Vert		Pull tight at 1769' with 30k-40K drag, wash and ream through tight spot and cleaned up, work through without pumps with no drag. Tight spot at 1688' with 30k-40k, wash and backream until cleaned up.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	166,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	920.00	20,192.00
INTN	310.15	DRILL BITS	73,000.00	0.00	3,102.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	55,947.50
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00

INTN	310.18	MUD / CHEMICALS	58,661.75	8,207.50	24,299.69
INTN	310.19	FUEL / POWER	76,214.27	0.00	20,934.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	22,802.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	4,150.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	19,899.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	415.00	5,780.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	47,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	48,200.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	42,742.50	736,613.90
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	34,397.80
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	97,466.80
		Total	3,051,379.92	42,742.50	834,080.70

Mud Checks

Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
11/23/2019 02:00:00	90.0	5,610.0	0.0	10.15	30
PV (cP)	YP (lbf/100ft ²)	pH	Solids (%)	Oil (%)	Water (%)
4	2	8.0	12.5	0.0	87.5
Sand (%)	Gel 10 sec (lbf/100ft ²)	Gel 10 min (lbf/100ft ²)	Gel 30 min (lbf/100ft ²)	Filtrate (mL/30min)	Cake (1/32")
0.0	1.000	1.000	0.000	15.0	2
MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	Mf (mL/mL)	Chlorides (mg/L)	Calcium (mg/L)
0.0	0.000	0.000	0.000	185,000	0
		LGS (%)	HTHP Cake (1/32")	HTHP Press (psi)	HTHP Temp (°F)
		1.6	0	0.0	0.0
Lime (lb/bbl) / Excess Lime (lb/bbl)	Brine (lb/gal)	Oil / Water Ratio / 100	Electric Stab (V)	WPS ()	solCorPc (%)
0.0 / 0.00	0.00	/ 100	0.0	0	0.00
600 Rpm ()	300 Rpm ()	vis200Rpm ()	vis100Rpm ()	vis6Rpm ()	vis3Rpm ()
10	6	4	2	2	2

Drilling Parameters

Depth Start (ft)	Depth End (ft)	Date Start (DateTime)	Date End (DateTime)	Pump Press (lbs)
3,920.0	5,610.0	11/22/2019 06:00:00	11/23/2019 01:15:00	4,000
Drill Rot Dist (ft)	Drill Rot Time (hr)	Av RPM (rpm)	Av WOB (Mlbs)	Av ROP (ft/hr)
1650	14.75	100	40	180.00
Drill Slide Dist (ft)	Drill Slide Time (hr)	PU Load (Mlbs)	SO Load (Mlbs)	Rot Load (Mlbs)
40	0.5	205	190	195

Bit Data

Drilformance

Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
2	12.250	PDC	Drilformance		44431
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
5,194.0	37.00	12/12/12/12/12/12/12/0		0.99	

Drilling String Components

Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	bit	12.250	0.000	12.250	6-5/8	1.00	1.00

1	motor	8.000	0.000	11.875	6-5/8	37.55	38.55
1	Stabilizer	8.000	2.875	12.000	6-5/8	7.21	45.76
1	UBHO	8.000	2.875	8.000	6-5/8	3.42	49.18
1	NMDC	8.000	3.250	8.000	6-5/8	30.44	79.62
1	NM stabilizer	8.000	2.875	12.000	6-5/8	7.14	86.76
1	NMDC	8.000	3.250	8.000	6-5/8	30.00	116.76
1	stabilizer	8.000	2.875	12.000	6-5/8	7.26	124.02
1	Shock sub	8.000	2.875	8.000	6-5/8	14.13	138.15
1	XO	8.000	2.750	8.000	4-1/2 XHB X 6-5/8 REG P	2.60	140.75
15	6.5 drill collars	6.500	2.438	6.500	4-1/2 XH	459.54	600.29
1	XO	6.500	2.750	0.000	4-1/2 XHB- 4-1/2 IFP	4.64	604.93
21	HWDP	5.000	3.000	0.000	4-1/2 IF	640.99	1,245.92

Mud Pumps								
name			Manufacturer			Model		
PUMP #1			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/22/2019 22:00:00	6.000	12.00	96.0	405	5,297.0	3,900	95.0	NORMAL
PUMP #2			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/22/2019 22:00:00	6.000	12.00	96.0	405	5,297.0	3,900	95.0	NORMAL
PUMP #3			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/22/2019 22:00:00	6.000	12.00	96.0	405	5,297.0	3,900	95.0	NORMAL

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
MWD	3,807.0	1.50	29.70	3,806.52	4.81	4.81	-15.80	0.06
MWD	3,988.0	1.40	41.40	3,987.46	8.53	8.53	-13.16	0.17
MWD	4,171.0	1.00	56.50	4,170.42	11.09	11.09	-10.35	0.28
MWD	4,355.0	0.90	54.00	4,354.39	12.83	12.83	-7.84	0.06
MWD	4,535.0	1.10	56.20	4,534.36	14.62	14.62	-5.26	0.11
MWD	4,717.0	1.40	54.70	4,716.32	16.88	16.88	-1.99	0.17
MWD	4,898.0	1.70	51.00	4,897.25	19.85	19.85	1.90	0.17
MWD	5,079.0	1.80	45.80	5,078.17	23.52	23.52	6.02	0.10
MWD	5,259.0	1.50	61.10	5,258.09	26.63	26.63	10.11	0.29
MWD	5,441.0	1.40	78.00	5,440.03	28.24	28.24	14.37	0.24
MWD	5,532.0	1.50	76.50	5,531.00	28.75	28.75	16.62	0.12

Printed: 11/23/2019 4:51:22 AM



Daily Report

Report Date: 11/22/2019
 Report No: 11
 Days From Spud: 3.52
 Spud Date (Original): 11/18/2019

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

State: Texas
 County: Martin
 API Number: 42-317-42648

Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
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Name Jason Fontenot	Mobile Phone (337) 831-7652
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Activity Summary
 Drill out fit equipment and formation to 695'. Rack back HWDP and run in 3 stands of drill collars, resume drilling T/1972'. Rig service. Drill F/1972' T/3920'

Current Status
 Drilling 12.25" intermediate @3920'

24 Hr Forecast
 Drill ahead 12.25" intermediate to 5610'

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Tripping pipe, making stands in mousehole

EHS Comment
 No incidents/no accidents

Limiting Factor
 Pump pressure rating for 6" liners

Progress (ft)	Depth End (ft)	Drill Time (hrs)	Daily Cost	Cumulative Cost
3504.0	3,920.0	21.8	70,149.13	791,338.20

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" Surface Casing	11/19/2019 11:00:00	25.0	410.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	08:00	2.00	2.00	1st Int Drlg	2.1 - Drill ROT	Vert		Drillout shoe track T/410'. Drill F/410' T/535' RPM-20, WOB-5-10, SPP-1200, DIFF-100, TQ-4-7K 100% returns
08:00	09:00	1.00	3.00	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/535' T/695' RPM-65, WOB-20-25, SPP-3000, DIFF-250, GPM-900, TQ-8-12K, 100 % returns
09:00	09:15	0.25	3.25	1st Int Drlg	5 - Cond Mud & Circ	Vert		Circulate hole clean
09:15	09:30	0.25	3.50	1st Int Drlg	6 - Trips	Vert		TOOH 4 stds HWDP
09:30	09:45	0.25	3.75	1st Int Drlg	6 - Trips	Vert		Remove rotating head
09:45	10:30	0.75	4.50	1st Int Drlg	6 - Trips	Vert		PU 3 jts of 6.5" collars. TIH 3 stds collars
10:30	10:45	0.25	4.75	1st Int Drlg	6 - Trips	Vert		Install rotating head
10:45	16:45	6.00	10.75	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/695' T/1972' RPM-75, WOB-20-50, SPP-3900, DIFF-250, GPM-900, TQ-8-12K, 100% returns
16:45	17:00	0.25	11.00	1st Int Drlg	7 - Lubricate Rig	Vert		Rig Service
17:00	19:30	2.50	13.50	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/1972' T/2435' RPM-85, WOB-20-50, SPP-3900, DIFF-300, GPM-900, TQ-8-12K, 100% returns
19:30	19:45	0.25	13.75	1st Int Drlg	2.2 - Drill SLD	Vert		Slide F/2435' T/2450' MTF-60R, WOB-20, SPP-3700, DIFF-200, GPM-900, 100% returns
19:45	20:15	0.50	14.25	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/2450' T/2525' RPM-85, WOB-20-50, SPP-3900, DIFF-300, GPM-900, TQ-8-12K, 100% returns
20:15	20:30	0.25	14.50	1st Int Drlg	2.2 - Drill SLD	Vert		Slide F/2525' T/2540' MTF-70R, WOB-20, SPP-3700, DIFF-200, GPM-900, 100% returns
20:30	04:30	8.00	22.50	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/2540' T/3779' RPM-85, WOB-20-40, SPP-3900, DIFF-300, GPM-800, TQ-8-12K, 100% returns
04:30	04:45	0.25	22.75	1st Int Drlg	7 - Lubricate Rig	Vert		Rig Service
04:45	06:00	1.25	24.00	1st Int Drlg	2.1 - Drill ROT	Vert		Drill F/3779' T/3920' RPM-85, WOB-20-40, SPP-3900, DIFF-300, GPM-800, TQ-8-12K, 100% returns

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00

INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	148,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	920.00	19,272.00
INTN	310.15	DRILL BITS	73,000.00	3,102.00	3,102.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	48,347.50
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	11,773.99	16,092.19
INTN	310.19	FUEL / POWER	76,214.27	0.00	20,934.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	20,738.14	22,802.71
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	4,150.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	19,899.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	415.00	5,365.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	44,800.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	42,800.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	70,149.13	693,871.40
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	34,397.80
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	97,466.80
		Total	3,051,379.92	70,149.13	791,338.20

Mud Checks

Date 11/22/2019 02:00:00	Temp 90.0	MD (ft) 3,780.0	TVD (ft) 3,780.0	Weight (lb/gal) 10.00	Vis (s/qt) 28
PV (cP) 2	YP (lb/100ft ²) 1	pH 7.8	Solids (%) 11.5	Oil (%) 0.0	Water (%) 88.5
Sand (%) 0.0	Gel 10 sec (lb/100ft ²) 1.000	Gel 10 min (lb/100ft ²) 1.000	Gel 30 min (lb/100ft ²) 1.000	Filtrate (mL/30min) 0.0	Cake (1/32") 1
MBT (lb/bbl) 0.0	Pm (mL/mL) 0.000	Pf (mL/mL) 0.000	Mf (mL/mL) 0.100	Chlorides (mg/L) 180,000	Calcium (mg/L) 3,600
		LGS (%) 0.6	HTHP Cake (1/32") 0	HTHP Press (psi) 0.0	HTHP Temp (°F) 0.0
Lime (lb/bbl) / Excess Lime (lb/bbl) 0.0 / 0.00	Brine (lb/gal) 0.00	Oil / Water Ratio / 100	Electric Stab (V) 0.0	WPS () 0	solCorPc (%) 0.00
600 Rpm () 3	300 Rpm () 2	vis200Rpm () 1	vis100Rpm () 1	vis6Rpm () 1	vis3Rpm () 1

Drilling Parameters

Depth Start (ft) 416.0	Depth End (ft) 3,920.0	Date Start (DateTime) 11/21/2019 06:00:00	Date End (DateTime) 11/22/2019 06:00:00	Pump Press (lbs) 3,750
Drill Rot Dist (ft) 3474	Drill Rot Time (hr) 21.25	Av RPM (rpm) 80	Av WOB (Mlbs) 35	Av ROP (ft/hr) 250.00
Drill Slide Dist (ft) 30	Drill Slide Time (hr) 0.5	PU Load (Mlbs) 0	SO Load (Mlbs) 0	Rot Load (Mlbs) 128

Bit Data

Drilformance

Bit No 2	Bit Size 12.250	Bit Type PDC	Make Drilformance	IADC Code	Serial No 44431
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Depth Drilled (ft) 3,504.0	Time Drilled (hr) 21.75	Nozzles 12/12/12/12/12/12/12/12/0	TFA (in ²) 0.99	Mfg Code
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Drilling String Components							
Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	bit	12.250	0.000	12.250	6-5/8	1.00	1.00
1	motor	8.000	0.000	11.875	6-5/8	37.55	38.55
1	Stabilizer	8.000	2.875	12.000	6-5/8	7.21	45.76
1	UBHO	8.000	2.875	8.000	6-5/8	3.42	49.18
1	NMDC	8.000	3.250	8.000	6-5/8	30.44	79.62
1	NM stabilizer	8.000	2.875	12.000	6-5/8	7.14	86.76
1	NMDC	8.000	3.250	8.000	6-5/8	30.00	116.76
1	stabilizer	8.000	2.875	12.000	6-5/8	7.26	124.02
1	Shock sub	8.000	2.875	8.000	6-5/8	14.13	138.15
1	XO	8.000	2.750	8.000	4-1/2 XHB X 6-5/8 REG P	2.60	140.75
15	6.5 drill collars	6.500	2.438	6.500	4-1/2 XH	459.54	600.29
1	XO	6.500	2.750	0.000	4-1/2 XHB- 4-1/2 IFP	4.64	604.93
21	HWDP	5.000	3.000	0.000	4-1/2 IF	640.99	1,245.92

Mud Pumps								
name			Manufacturer			Model		
PUMP #1			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/21/2019 21:00:00	6.000	12.00	106.0	450	2,645.0	3,700	95.0	NORMAL
name			Manufacturer			Model		
PUMP #2			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/21/2019 21:00:00	6.000	12.00	107.0	450	2,645.0	3,700	95.0	NORMAL
name			Manufacturer			Model		
PUMP #3			HONG HUA			HHF-1600		
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type
11/21/2019 21:00:00	6.000	12.00	107.0	450	2,645.0	3,700	95.0	NORMAL

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
MWD	448.0	0.60	245.30	447.99	-1.34	-1.34	-1.47	0.21
MWD	541.0	0.60	241.80	540.98	-1.77	-1.77	-2.34	0.04
MWD	725.0	0.70	235.80	724.97	-2.86	-2.86	-4.12	0.07
MWD	909.0	0.70	245.50	908.96	-3.96	-3.96	-6.07	0.06
MWD	1,091.0	0.70	245.40	1,090.95	-4.88	-4.88	-8.09	0.00
MWD	1,273.0	0.70	253.80	1,272.94	-5.65	-5.65	-10.17	0.06
MWD	1,453.0	0.90	250.50	1,452.92	-6.43	-6.43	-12.56	0.11
MWD	1,637.0	0.80	248.30	1,636.90	-7.39	-7.39	-15.12	0.06
MWD	1,818.0	1.10	238.40	1,817.87	-8.77	-8.77	-17.77	0.19
MWD	1,882.0	1.10	238.40	1,881.86	-9.41	-9.41	-18.82	0.00
MWD	2,001.0	1.10	247.30	2,000.84	-10.45	-10.45	-20.85	0.14
MWD	2,181.0	1.10	239.10	2,180.81	-12.00	-12.00	-23.93	0.09
MWD	2,361.0	1.20	241.00	2,360.77	-13.80	-13.80	-27.06	0.06
MWD	2,543.0	0.60	6.60	2,542.75	-13.78	-13.78	-28.62	0.89
MWD	2,724.0	0.80	26.20	2,723.74	-11.70	-11.70	-27.95	0.17
MWD	2,905.0	0.70	32.10	2,904.72	-9.63	-9.63	-26.80	0.07
MWD	3,085.0	1.00	42.70	3,084.70	-7.54	-7.54	-25.15	0.19
MWD	3,266.0	1.10	47.40	3,265.67	-5.20	-5.20	-22.80	0.07
MWD	3,445.0	1.20	37.90	3,444.63	-2.56	-2.56	-20.38	0.12
MWD	3,624.0	1.40	30.50	3,623.58	0.80	0.80	-18.12	0.15



Daily Report

Report Date: 11/21/2019
 Report No: 10
 Days From Spud: 2.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224
 Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
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Name Jason Fontenot	Mobile Phone (337) 831-7652
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Activity Summary
 Finish nipple up, rig up testers, had accumulator problem causing top pipe rams and annular to function at the same time. Called for electrician. Off critical path: Test choke manifold, repaired electric chokes, Fabling up flowline with welder. Troubleshoot and repair upon arrival of electrician. performed shell test of entire BOPE system and released torque crew. Finish testing BOPs, test surface casing to 1500 psi for 30 min, perform accumulator draw down test. Set wear bushing. PU/MU intermediate BHA. TIH to top of float collar.

Current Status
 Drillout shoe track.

24 Hr Forecast
 Drill 1st Intermediate to San Andres Formation.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 Testing BOP's

EHS Comment
 No incidents/no accidents

Limiting Factor
 Fab flowline, troubleshoot and repair accumulator.

Progress (ft)	Depth End (ft)	Drill Time (hrs)	Daily Cost	Cumulative Cost
0.0	416.0	0.0	48,059.13	721,189.07

Casing

Description	Run Date	Top Depth	Bottom Depth
13 3/8" Surface Casing	11/19/2019 11:00:00	25.0	410.0

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	08:30	2.50	2.50	Surf Csg	14 - Nipple up BOP	Vert		Finish installing orbit valve, install flowline on skid, hook up rotating head lines.
08:30	09:00	0.50	3.00	Surf Csg	21 - Other	Vert		Lay down casing elevators and bale extensions.
09:00	09:30	0.50	3.50	Surf Csg	15 - Test BOP	Vert		Safety meeting with tester, rig manager, and crews on testing bope.
09:30	10:00	0.50	4.00	Surf Csg	15 - Test BOP	Vert		Rig up tester, found malfunction on first test. While closing upper pipe rams, annular closed simultaneously.
10:00	11:00	1.00	5.00	Surf Csg	8 - Repair Rig	Vert	Equipment Failure	Troubleshoot accumulator system, pusher on phone with IT dept. Electrician en route to troubleshoot.
11:00	13:30	2.50	7.50	Surf Csg	15 - Test BOP	Vert	Equipment Failure	Test choke manifold and choke line hose to 250 psi-low and 5000 psi-high, 5 minutes on each test. Chokes were bleeding, got pason and can-OK to service chokes. retested, good test.
13:30	14:30	1.00	8.50	Surf Csg	8 - Repair Rig	Vert	Equipment Failure	Troubleshoot and repair accumulator. Removed faulty component and planned to continue with BOP testing.
14:30	17:00	2.50	11.00	Surf Csg	14 - Nipple up BOP	Vert	Other	Finish welding on flowline to match flange to orbit valve flange.
17:00	23:30	6.50	17.50	Surf Csg	15 - Test BOP	Vert		Perform shell test on BOP system. Release torque crew. Test BOPE to 250 psi-low and 5000 psi high, test annular to 250 psi-low and 3500 psi-high. Held tests for 5 minutes each test and record on chart.
23:30	00:00	0.50	18.00	Surf Csg	15 - Test BOP	Vert		Test surface casing to 1500 psi for 30 minutes, test successful
00:00	00:15	0.25	18.25	Surf Csg	14 - Nipple up BOP	Vert		Set wear bushing
00:15	00:30	0.25	18.50	Surf Csg	21 - Other	Vert		PJSM with all parties for PU/MU BHA
00:30	03:00	2.50	21.00	Surf Csg	6 - Trips	Vert		PU/MU intermediate BHA
03:00	03:45	0.75	21.75	Surf Csg	6 - Trips	Vert		Tih with drill collars
03:45	04:30	0.75	22.50	Surf Csg	6 - Trips	Vert		Finish rigging up orbit valve, strap HWDP for drillout
04:30	05:00	0.50	23.00	Surf Csg	21 - Other	Vert		Stab and install rotating head
05:00	05:15	0.25	23.25	Surf Csg	20 - Dir. Work	Vert		Test MWD
05:15	06:00	0.75	24.00	Surf Csg	3 - Ream	Vert		Tag at 353'. Drillout shoe track.

Cost Breakdown					
Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	130,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	820.00	18,352.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	7,600.00	40,747.50
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	1,014.13	4,318.20
INTN	310.19	FUEL / POWER	76,214.27	0.00	20,934.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	2,064.57
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	4,150.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	19,899.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	415.00	4,950.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	11,092.50	11,092.50
INTN	310.40	OVERHEAD	50,000.00	2,200.00	42,600.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	37,400.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	1,517.50	6,985.50
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	48,059.13	623,722.27
TANG	311.02	SURFACE CASING	18,200.00	0.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	34,397.80
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	0.00	97,466.80
		Total	3,051,379.92	48,059.13	721,189.07

Mud Checks					
Date	Temp	MD (ft)	TVD (ft)	Weight (lb/gal)	Vis (s/qt)
11/21/2019 03:00:00	80.0	410.0	410.0	10.00	28
PV (cP) 1	YP (lbf/100ft ²) 1	pH 8.0	Solids (%) 12.0	Oil (%) 0.0	Water (%) 88.0
Sand (%) 0.0	Gel 10 sec (lbf/100ft ²) 1.000	Gel 10 min (lbf/100ft ²) 1.000	Gel 30 min (lbf/100ft ²) 1.000	Filtrate (mL/30min) 0.0	Cake (1/32") 1
MBT (lb/bbl) 0.0	Pm (mL/mL) 0.000	Pf (mL/mL) 0.000	Mf (mL/mL) 0.100	Chlorides (mg/L) 185,000	Calcium (mg/L) 3,600
		LGS (%) 0.5	HTHP Cake (1/32") 0	HTHP Press (psi) 0.0	HTHP Temp (°F) 0.0
Lime (lb/bbl) / Excess Lime (lb/bbl) 0.0 / 0.00	Brine (lb/gal) 10.00	Oil / Water Ratio / 100	Electric Stab (V) 0.0	WPS () 0	solCorPc (%) 0.00
600 Rpm () 3	300 Rpm () 2	vis200Rpm () 1	vis100Rpm () 1	vis6Rpm () 1	vis3Rpm () 1

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
gyro	86.5	0.09	110.47	86.52	0.00	0.00	0.00	0.11
gyro	178.7	0.06	181.74	178.70	0.00	0.00	0.00	0.17
gyro	270.0	0.37	234.25	270.00	0.00	0.00	0.00	0.37
gyro	361.0	0.61	226.94	361.00	0.00	0.00	0.00	0.27
gyro	391.0	0.62	234.15	390.99	0.00	0.00	0.00	0.26

Printed: 11/21/2019 4:51:33 AM



Daily Report

Report Date: 11/20/2019
 Report No: 9
 Days From Spud: 1.52
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224
 Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jason Fontenot	Mobile Phone (337) 831-7652

Activity Summary
 FINISH LD SURFACE BHA. RU AND RUN 10 jts 13-3/8" CASING. COULD NOT LAND CASING AT 416' AFTER WASHING, CASING SET AT 410'. CIRCULATE 2 CASING CAPACITIES. SPOT AND RU CEMENTERS. PUMP 485 SKS (115 BBLS) 14.8 PPG, 1.33 YD CEMENT. DISPLACE WITH 58 BBLS OF FRESHWATER. LANDED PLUG @14:54, FLOATS HELD, BLEED BACK 0.5 BBLS. 38 BBLS CEMENT BACK TO SURFACE. RD CEMENTERS AND WOC FOR 4 HRS. CLEAN CELLAR FOR WELLHEAD. CUT CASING AND CONDUCTOR. INSTALL AND TEST WELD ON WELLHEAD. NU BOP, CHOKE LINE, KOOMY LINES, INSTALL LOWER VBRS.

Current Status
 NU ORBIT VALVE AND HANGING FLOW LINE.

24 Hr Forecast
 FINISH TESTING BOP, FINISH RU WEATHERFORD ORBIT VALVE. PU/MU INTERMEDIATE BHA. DRILLOUT FLOAT/SHOE TRACK. DRILL AHEAD.

Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
 NU BOP

EHS Comment
 NO INCIDENTS/NO ACCIDENTS

Limiting Factor
 CLEANING CELLAR. TAILING IN WELLHEAD THROUGH SUBSTRUCTURE.

Progress (ft) 0.0	Depth End (ft) 416.0	Drill Time (hrs) 0.0	Daily Cost 165,361.60	Cumulative Cost 676,929.94
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Casing

Description	Run Date	Top Depth	Bottom Depth
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Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	06:45	0.75	0.75	Surf Csg	6 - Trips	Vert		LD BHA AND BIT
06:45	07:00	0.25	1.00	Surf Csg	21 - Other	Vert		PJSM WITH ALL PERSONNEL FOR CASING RUN
07:00	07:30	0.50	1.50	Surf Csg	12 - Run Csg/Cmt	Vert		RU CASING CREW
07:30	11:00	3.50	5.00	Surf Csg	12 - Run Csg/Cmt	Vert		RUN 10 JTS 13-3/8 CASING. COULD NOT LAND CASING AT 416' AFTER WASHING, CASING SET AT 410'
11:00	11:30	0.50	5.50	Surf Csg	12 - Run Csg/Cmt	Vert		CIRCULATE 2 CASING CAPACITIES
11:30	12:30	1.00	6.50	Surf Csg	12 - Run Csg/Cmt	Vert		SPOT AND RU CEMENTERS
12:30	12:45	0.25	6.75	Surf Csg	21 - Other	Vert		PJSM FOR PUMPING SURFACE CEMENT
12:45	15:00	2.25	9.00	Surf Csg	12 - Run Csg/Cmt	Vert		PUMP 485 SKS (115 BBLS) 14.8 PPG, 1.33 YD CEMENT. DISPLACE WITH 58 BBLS OF FRESHWATER. LANDED PLUG @14:54, FLOATS HELD, BLEED BACK 0.5 BBLS. 38 BBLS CEMENT BACK TO SURFACE.
15:00	16:00	1.00	10.00	Surf Csg	13 - WOC	Vert		RU CEMENTERS, FLUSH LINES.
16:00	19:00	3.00	13.00	Surf Csg	13 - WOC	Vert		WOC TILL 19:00. CLEAN OUT CELLAR FOR INSTALLING WELLHEAD.
19:00	23:00	4.00	17.00	Surf Csg	12 - Run Csg/Cmt	Vert		CUT CASING AND CONDUCTOR. INSTALL AND WELD WELLHEAD ON 13-3/8" CASING. TEST WELLHEAD AT 900 PSI FOR 15 MIN, TEST GOOD.
23:00	06:00	7.00	24.00	Surf Csg	14 - Nipple up BOP	Vert		NU CHOKE. STAB AND NU STACK. INSTALL WEATHERFORD ROTATING HEAD ASSYM AND ORBIT VALVE. INSTALL LOWER VBR'S

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	112,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	6,612.00	17,532.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	36,947.50	36,947.50
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00

INTN	310.18	MUD / CHEMICALS	58,661.75	1,238.30	3,304.07
INTN	310.19	FUEL / POWER	76,214.27	20,934.00	20,934.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	885.00	2,064.57
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	4,150.00	4,150.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	17,010.00	19,899.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.32	WIRELINE / SLICKLINE SERVICES	0.00	0.00	3,575.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	1,125.00	4,535.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	2,200.00	40,400.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	32,000.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	3,393.00	5,468.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.09	COMPLETION/SNUBBING/WO UNIT	48,428.87	0.00	0.00
INTN	320.10	TRAILER HOUSE / COMMUNICATIONS	2,210.34	0.00	0.00
INTN	320.15	FUEL / POWER	9,313.24	0.00	0.00
INTN	320.17	WATER / WATER HAULING	4,000.00	0.00	0.00
INTN	320.19	TRANSPORTATION / HAULING	5,000.00	0.00	0.00
INTN	320.20	INSPECTION / TUBULAR TESTING	6,000.00	0.00	0.00
INTN	320.21	LAYDOWN MACHINE/CASE CREW/TONG	21,000.00	0.00	0.00
INTN	320.27	EQUIPMENT RENTAL	7,996.52	0.00	0.00
INTN	320.33	NIPPLE UP / BOPE TESTING	3,200.00	0.00	0.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	8,940.71	0.00	12,000.00
INTN	320.39	INSURANCE	2,980.24	0.00	0.00
INTN	320.43	CONTINGENCY	12,155.35	0.00	0.00
INTN		Sub-Total	2,101,738.92	117,894.80	579,463.14
TANG	311.02	SURFACE CASING	18,200.00	13,069.00	13,069.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	34,397.80	34,397.80
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG	321.01	PRODUCTION CASING / LINER	226,260.00	0.00	0.00
TANG	321.03	LINER HANGER ASSEMBLY	30,000.00	0.00	0.00
TANG	321.06	WELLHEAD EQUIPMENT	20,000.00	0.00	0.00
TANG	321.10	WELLHEAD EQUIP - PROD TREE	30,000.00	0.00	0.00
TANG	321.29	MISCELLANEOUS	15,313.00	0.00	0.00
TANG		Sub-Total	949,641.00	47,466.80	97,466.80
		Total	3,051,379.92	165,361.60	676,929.94

Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
0.0	0.00			0.00	

Drilling String Components					
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Mud Pumps					
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Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 11/19/2019
 Report No: 8
 Days From Spud: 0.54
 Spud Date (Original): 11/18/2019

State: Texas
 County: Martin
 API Number: 42-317-42648

Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224
 Field Name: Spraberry
 AFE Number: Lone Ranger #1

KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429			
Name Jason Fontenot	Mobile Phone (337) 831-7652			
Activity Summary Slip off drill line. Install shaker slides. Dress out shakers with screens. Test pumps and fix leaks. PU/MU BHA. Tag bottom @ 89'. Drill ahead from 89' to 416'. TD section @ 3:15 AM. Circulate hole clean and drop gyro. LD BHA.				
Current Status LD BHA.				
24 Hr Forecast Run 13-3/8" casing to 416'. RD casing crew and RU BJ cement and pump surface cement job. RD cementers. Cut casing and weld on wellhead. NU BOP and pressure test.				
Incident Summary Injuries: 0 Incidents: 0 Spills: 0				
Safety Topic MU BHA				
EHS Comment Making connections, handling collars				
Limiting Factor Lack of WOB, high vibrations at surface with top drive.				
Progress (ft) 416.0	Depth End (ft) 416.0	Drill Time (hrs) 10.3	Daily Cost 39,330.85	Cumulative Cost 506,934.85

Casing

Description	Run Date	Top Depth	Bottom Depth
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Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	07:30	1.50	1.50	Rig Mo	9 - Slip and Cut	Vert		Slip one layer of drill line
07:30	15:00	7.50	9.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Rig up modified shaker slides. Dress out shakers with screens. RU PVC on shaker slides. prime pumps and fix leaks.
15:00	17:00	2.00	11.00	Rig Mo	20 - Dir. Work	Vert		PU/MU BHA
17:00	03:15	10.25	21.25	Surf Drlg	2.1 - Drill ROT	Vert		Tag bottom @ 89'. Drill ahead F/89' T/416' WOB 10-30, RPM 60-120, GPM 550-800, TQ 2-7K, SPP-1550 PSI FULL RETURNS
03:15	04:00	0.75	22.00	Surf Drlg	5 - Cond Mud & Circ	Vert		Pump sweep after TD @416', circulate hole clean
04:00	04:30	0.50	22.50	Surf Drlg	11 - Wireline Logs	Vert		PU GRYO tool and drop it down string.
04:30	06:00	1.50	24.00	Surf Drlg	6 - Trips	Vert		Lay down Kelly jt of HWDP. Rack back 6.5" collars. LD BHA and bit

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	18,000.00	94,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	820.00	10,920.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	0.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	1,007.28	1,007.28
INTN	310.19	FUEL / POWER	76,214.27	0.00	0.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	589.57	1,179.57
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	0.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	2,889.00	2,889.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	280.00	3,340.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	0.00	30,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	26,600.00

INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	2,075.00	2,075.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN	320.27	EQUIPMENT RENTAL	0.00	70.00	70.00
INTN	320.35	WELLSITE CONSULT SERV/SUPERVIS	0.00	8,200.00	20,200.00
INTN		Sub-Total	1,970,513.65	39,330.85	456,934.85
TANG	311.02	SURFACE CASING	18,200.00	0.00	0.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	0.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG		Sub-Total	628,068.00	0.00	50,000.00
		Total	2,598,581.65	39,330.85	506,934.85

Mud Checks

Date 11/19/2019 03:00:00	Temp 90.0	MD (ft) 416.0	TVD (ft) 416.0	Weight (lb/gal) 8.80	Vis (s/qt) 28
PV (cP) 1	YP (lb/100ft ²) 0	pH 8.5	Solids (%) 1.0	Oil (%) 0.0	Water (%) 99.0
Sand (%) 0.0	Gel 10 sec (lb/100ft ²) 1.000	Gel 10 min (lb/100ft ²) 1.000	Gel 30 min (lb/100ft ²) 1.000	Filtrate (mL/30min) 0.0	Cake (1/32") 2
MBT (lb/bbl) 0.0	Pm (mL/mL) 0.100	Pf (mL/mL) 0.100	Mf (mL/mL) 0.200	Chlorides (mg/L) 3,000	Calcium (mg/L) 40
		LGS (%) 0.6	HTHP Cake (1/32") 0	HTHP Press (psi) 0.0	HTHP Temp (°F) 0.0
Lime (lb/bbl) / Excess Lime (lb/bbl) 0.0 / 0.00	Brine (lb/gal) 0.00	Oil / Water Ratio / 100	Electric Stab (V) 0.0	WPS () 0	solCorPc (%) 0.00
600 Rpm () 3	300 Rpm () 2	vis200Rpm () 2	vis100Rpm () 1	vis6Rpm () 1	vis3Rpm () 1

Drilling Parameters

Depth Start (ft) 89.0	Depth End (ft) 416.0	Date Start (DateTime) 11/18/2019 00:00:00	Date End (DateTime) 11/19/2019 03:15:00	Pump Press (lbs) 1,400
Drill Rot Dist (ft) 327	Drill Rot Time (hr) 10.25	Av RPM (rpm) 100	Av WOB (Mlbs) 20	Av ROP (ft/hr) 50.00
Drill Slide Dist (ft) 0	Drill Slide Time (hr) 0.0	PU Load (Mlbs) 0	SO Load (Mlbs) 0	Rot Load (Mlbs) 0

Bit Data

ulterra

Bit No 1	Bit Size 17.500	Bit Type PDC	Make CF616	IADC Code	Serial No 44404
Depth Drilled (ft) 327.0	Time Drilled (hr) 10.25	Nozzles 12/12/12/12/12/0/0/0		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Joints	Component Name	Nominal OD	Nominal ID	Maximum OD	Connection	Total Length	Cum Total Length
1	bit	17.500	0.000	17.500	6-5/8	1.35	1.35
1	shock sub	8.000	0.000	0.000	6-5/8	12.15	13.50
1	17.5" Stabilizer	17.500	0.000	17.500	6-5/8	7.25	20.75
1	XO	8.000	0.000	8.000	6-5/8-4.5 xo	2.60	23.35
12	6.5" drill collars	6.500	0.000	0.000	4.5 xo	357.06	380.41
1	XO	6.000	0.000	6.000	4.5 xo-4.5 if	4.64	385.05
1	HWDP	5.000	0.000	5.000	4.5 if	30.95	416.00

Mud Pumps

name PUMP #1		Manufacturer HONG HUA				Model HHF-1600			
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type	
	6.000	12.00	0.0	0	0.0	0	95.0		
name PUMP #2		Manufacturer HONG HUA				Model HHF-1600			
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type	
	6.000	12.00	0.0	0	0.0	0	95.0		
name PUMP #3		Manufacturer HONG HUA				Model HHF-1600			
Checked (DateTime)	Liner ID (in)	Stroke Len (in)	Stroke Rate (spm)	Pump Output (gpm)	Bit Depth (ft)	Pressure (psi)	Efficiency (%)	Op Type	
	6.000	12.00	0.0	0	0.0	0	95.0		

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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Daily Report

Report Date: 11/18/2019

Report No: 7

Well Name: Lone Ranger SWD #1
Rig Name: Ensign T224

Days From Spud: 0.00
Spud Date (Original):

State: Texas
County: Martin
API Number: 42-317-42648

Field Name: Spraberry
AFE Number: Lone Ranger #1

KB-GL: 25.0
Ground Elevation: 2,847.0
KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
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Name Jason Fontenot	Mobile Phone (337) 831-7652
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Activity Summary
Continue rigging up and finish 1000 day Ensign inspection. Weld and modify rig shaker slides for reserve pit. RU cellar pumps and water lines for rig pits.

RRC notified of spudding well.

Current Status
Strapping surface BHA. Finishing welding shaker slides.

24 Hr Forecast
Spud well and drill surface section.

Incident Summary
Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
Welding and fire watch

EHS Comment
No accidents, incidents, or spills

Limiting Factor

Progress (ft) 0.0	Depth End (ft) 0.0	Drill Time (hrs) 0.0	Daily Cost 22,700.00	Cumulative Cost 455,604.00
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Casing

Description	Run Date	Top Depth	Bottom Depth
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Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	14:00	8.00	8.00	Rig Mo	1 - Rig Up & Rig Down	Vert		RU floor. Set stompers, BOP and catwalk into place. RU mudlines. PU/RU topdrive track, topdrive, service loop and Kelly hose.
14:00	20:00	6.00	14.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Perform 1000 day inspection and pre-spud checklist
20:00	06:00	10.00	24.00	Rig Mo	1 - Rig Up & Rig Down	Vert		RU cellar pumps. Weld and modify shaker slides.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	16,200.00	76,950.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	820.00	10,100.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	0.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	0.00
INTN	310.19	FUEL / POWER	76,214.27	0.00	0.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	590.00
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	0.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	0.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	280.00	3,060.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	0.00	30,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	21,200.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	0.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN		Sub-Total	1,970,513.65	22,700.00	405,604.00

TANG	311.02	SURFACE CASING	18,200.00	0.00	0.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	0.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG		Sub-Total	628,068.00	0.00	50,000.00
		Total	2,598,581.65	22,700.00	455,604.00

Mud Checks					

Drilling Parameters				
Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data					
Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 11/17/2019

Report No: 6

Days From Spud: 0.00

Spud Date (Original):

 Well Name: Lone Ranger SWD #1
 Rig Name: Ensign T224

 State: Texas
 County: Martin
 API Number: 42-317-42648

 Field Name: Spraberry
 AFE Number: Lone Ranger #1

 KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Dan Batton	Mobile Phone (724)710-8429
Name Jason Fontenot	Mobile Phone (337) 831-7652

Activity Summary

Finish spotting equipment and release trucks. Kept the cranes on location to finish rig up after floor is raised. Continue to rig up, raise derrick, raise sub structures. Crews broke tour, now on 24 hours. Hauling 10# brine to reserve pit.

Current Status

Rigging up on rig floor and sub structures.

24 Hr Forecast

Continue to ready rig for spudding. Pick up top drive and connect traveling blocks.

Incident Summary

Injuries: 0 Incidents: 0 Spills: 0

Safety Topic

Body Placement

EHS Comment

Limiting Factor

Cool weather and wind.

Progress (ft) 0.0	Depth End (ft) 0.0	Drill Time (hrs) 0.0	Daily Cost 117,290.00	Cumulative Cost 432,904.00
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Casing

Description	Run Date	Top Depth	Bottom Depth
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Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	18:00	12.00	12.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Finish building derrick and set on rig floor. Hook onto bridal lines, install monkey board, spot parts house, rig up electric wiring, finish spotting misc loads. string up blocks, install clamp and set in horses head. Spool up on rig floor. Perform Ensign Drops Inspection. Raise derrick, rig up hoist lines.
18:00	06:00	12.00	24.00	Rig Mo	1 - Rig Up & Rig Down	Vert		Held safety meeting, inspect subs, then raise sub structures. Rig up sub braces, install standpipe lines, working on electric, air, water lines in subs. Fill water tank and function test mud pit and rig floor equipment.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	94,000.00	94,000.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	16,200.00	60,750.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	820.00	9,280.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	0.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	0.00
INTN	310.19	FUEL / POWER	76,214.27	0.00	0.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	590.00	590.00
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	0.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	0.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	280.00	2,780.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	0.00	30,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	5,400.00	15,800.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	0.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN		Sub-Total	1,970,513.65	117,290.00	382,904.00
TANG	311.02	SURFACE CASING	18,200.00	0.00	0.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00

TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	0.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG		Sub-Total	628,068.00	0.00	50,000.00
		Total	2,598,581.65	117,290.00	432,904.00

Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No	Bit Size	Bit Type	Make	IADC Code	Serial No
0	0.000				
Depth Drilled (ft)	Time Drilled (hr)	Nozzles		TFA (in ²)	Mfg Code
0.0	0.00			0.00	

Drilling String Components					

Mud Pumps					

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 11/16/2019

Report No: 5

Days From Spud: 0.00

Spud Date (Original):

Well Name: Lone Ranger SWD #1
Rig Name: Ensign T224

State: Texas
County: Martin
API Number: 42-317-42648

Field Name: Spraberry
AFE Number: Lone Ranger #1

KB-GL: 25.0
Ground Elevation: 2,847.0
KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
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Activity Summary
Received 18 loads from old location. Rig 100% moved in. Set rig camps, and continued to rig up and prepare rig to spud. Rig is estimated 50% rigged up. Estimated spud date on Monday 11/18/2019.

Current Status
Rig idle, waiting on daylight.

24 Hr Forecast
Continue to rig up. Crews will break tour on Saturday 11/16/2019.

Incident Summary
Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
Rig up operations

EHS Comment

Limiting Factor
Logistics.

Progress (ft) 0.0	Depth End (ft) 0.0	Drill Time (hrs) 0.0	Daily Cost 20,620.00	Cumulative Cost 315,614.00
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Casing

Description	Run Date	Top Depth	Bottom Depth
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Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	12:00	6.00	6.00	Rig Mo	1 - Rig Up & Rig Down		Other	Derrick could not be trucked on bolsters due to permits not being submitted. Had to bring equipment back to old location to break down derrick into non permit sections. Derrick left old location at 13:30. Did not stop all operations, 5J continued to haul equipment to new location while work was being done on derrick.
12:00	22:00	10.00	16.00	Rig Mo	1 - Rig Up & Rig Down			Haul 18 loads from old location, 100% moved in. Set rig camps, worked on subs, backyard equipment and re-assembled derrick. Changed out annular element offline. Installed GPS and fuel level indicators in fuel tanks. Received load of fuel and started Gens and bled out air from lines.
22:00	06:00	8.00	24.00	Rig Mo	1 - Rig Up & Rig Down			Rig idle, waiting on daylight.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	0.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	16,200.00	44,550.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	820.00	8,460.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	0.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	0.00
INTN	310.19	FUEL / POWER	76,214.27	0.00	0.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	0.00
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	0.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	0.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	0.00	2,500.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	0.00	30,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	3,600.00	10,400.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	0.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN		Sub-Total	1,970,513.65	20,620.00	265,614.00

TANG	311.02	SURFACE CASING	18,200.00	0.00	0.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	0.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG		Sub-Total	628,068.00	0.00	50,000.00
		Total	2,598,581.65	20,620.00	315,614.00

Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components								
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Mud Pumps								
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Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 11/15/2019

Report No: 4

Days From Spud: 0.00

Spud Date (Original):

 Well Name: Lone Ranger SWD #1
 Rig Name: EnsignT224

 State: Texas
 County: Martin
 API Number: 42-317-42648

 Field Name: Spraberry
 AFE Number: Lone Ranger #1

 KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652			
Activity Summary Moving in on new location. Spotting backyard loads and rig up while waiting on trucks to arrive. Spot sub structures, generator and SCR packages. Received 30 loads. Receiving some 3rd party equipment.				
Current Status Rig idle, waiting on daylight. 85% moved in 45% rigged up				
24 Hr Forecast Continue to bring all equipment in to release trucks. Bring in Ensign housing.				
Incident Summary Injuries: 0 Incidents: 0 Spills: 0				
Safety Topic Working with cranes and trucks.				
EHS Comment				
Limiting Factor Waiting on trucks to arrive with the correct parts.				
Progress (ft) 0.0	Depth End (ft) 0.0	Drill Time (hrs) 0.0	Daily Cost 21,120.00	Cumulative Cost 294,994.00

Casing

Description	Run Date	Top Depth	Bottom Depth

Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	18:00	12.00	12.00	Rig Mo	1 - Rig Up & Rig Down			Moving in on new location. Spotting backyard loads and rig up while waiting on trucks to arrive. Spot sub structures, generator and SCR packages. Received 30 loads. Receiving some 3rd party equipment.
18:00	06:00	12.00	24.00	Rig Mo	1 - Rig Up & Rig Down			Rig Idle, Waiting on daylight.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	0.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	16,200.00	28,350.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	820.00	7,640.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	0.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	0.00
INTN	310.19	FUEL / POWER	76,214.27	0.00	0.00
INTN	310.21	WATER / WATER HAULING	63,000.00	500.00	4,185.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	0.00
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	0.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	0.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	0.00	2,500.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	0.00	30,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	3,600.00	6,800.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	0.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN		Sub-Total	1,970,513.65	21,120.00	244,994.00
TANG	311.02	SURFACE CASING	18,200.00	0.00	0.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	0.00

TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG		Sub-Total	628,068.00	0.00	50,000.00
		Total	2,598,581.65	21,120.00	294,994.00

Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)



Daily Report

Report Date: 11/14/2019

Report No: 3

Days From Spud: 0.00

Spud Date (Original):

Well Name: Lone Ranger SWD #1
Rig Name: EnsignT224

State: Texas
County: Martin
API Number: 42-317-42648

Field Name: Spraberry
AFE Number: Lone Ranger #1

KB-GL: 25.0
Ground Elevation: 2,847.0
KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
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Activity Summary
Moving in on new location. Hauled 23 loads, spot mats for subs and backyard equipment. Unload trucks and misc equipment. 70% rigged down, 30% moved in.

Current Status
Rig idle, waiting on daylight.

24 Hr Forecast
Continue to move in and rig up on new location. Gathering 3rd party equipment and rentals to prepare for spud.

Incident Summary
Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
Working with crane and trucks.

EHS Comment

Limiting Factor
Cold weather, excessive time cleaning mud pits.

Progress (ft) 0.0	Depth End (ft) 0.0	Drill Time (hrs) 0.0	Daily Cost 27,856.00	Cumulative Cost 273,874.00
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Casing

Description	Run Date	Top Depth	Bottom Depth
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Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	18:00	12.00	12.00	Rig Mo	1 - Rig Up & Rig Down			Held PJSM, moving in on new location. Hauled 22 loads. Spotted rig matting for subs and backyard equipment. 70% rigged down, 30% moved in.
18:00	06:00	12.00	24.00	Rig Mo	1 - Rig Up & Rig Down			Rig idle, waiting on daylight.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	7,286.00	99,056.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	0.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	12,150.00	12,150.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	6,820.00	6,820.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	0.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	0.00
INTN	310.19	FUEL / POWER	76,214.27	0.00	0.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	3,685.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	0.00
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	0.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	0.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	0.00	2,500.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	0.00	30,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	1,600.00	3,200.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	0.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN		Sub-Total	1,970,513.65	27,856.00	223,874.00
TANG	311.02	SURFACE CASING	18,200.00	0.00	0.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	0.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG		Sub-Total	628,068.00	0.00	50,000.00

	Total		2,598,581.65	27,856.00	273,874.00
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Mud Checks					

Drilling Parameters					
Depth Start	Depth End	Date Start	Date End	Pump Press	
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP	
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load	

Bit Data					
Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components					
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Mud Pumps					
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Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)

Printed: 11/14/2019 10:26:18 AM



Daily Report

Report Date: 11/13/2019

Report No: 2

 Well Name: Lone Ranger SWD #1
 Rig Name: TRINIDAD 224

 Days From Spud: 0.00
 Spud Date (Original):

 State: Texas
 County: Martin
 API Number: 42-317-42648

 Field Name: Spraberry
 AFE Number: Lone Ranger #1

 KB-GL: 25.0
 Ground Elevation: 2,847.0
 KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
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 Activity Summary
 Received 20 loads that include all drillpipe and some rig matts. Installed reserve pit liner.

 Current Status
 Rig idle, waiting on daylight. 40% rigged down, 5% moved in.

 24 Hr Forecast
 Continue to rig down and move rig to new location.

 Incident Summary
 Injuries: 0 Incidents: 0 Spills: 0

 Safety Topic
 Rigging down.

 EHS Comment
 Be careful because of high winds.

 Limiting Factor
 Freezing temps.

Progress (ft)	Depth End (ft)	Drill Time (hrs)	Daily Cost	Cumulative Cost
0.0	0.0	0.0	1,600.00	246,018.00

Casing

Description	Run Date	Top Depth	Bottom Depth
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Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	18:00	12.00	12.00	Pre-Rig Mo	1 - Rig Up & Rig Down			Received 20 loads consisting of all rig drillpipe and all loose matting around the rig, Set pit liner in reserve pi.
18:00	06:00	12.00	24.00	Pre-Rig Mo	1 - Rig Up & Rig Down			Rig idle, waiting on daylight.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	0.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	0.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	0.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	0.00	91,770.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	0.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	0.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	0.00	0.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	0.00	0.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	0.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	0.00
INTN	310.19	FUEL / POWER	76,214.27	0.00	0.00
INTN	310.21	WATER / WATER HAULING	63,000.00	0.00	3,685.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	0.00
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	0.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	0.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	0.00	2,500.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	0.00	30,000.00
INTN	310.41	WELLSITE CONSULT SERV/SUPERVIS	0.00	1,600.00	1,600.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	0.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	0.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	0.00	7,500.00
INTN		Sub-Total	1,970,513.65	1,600.00	196,018.00
TANG	311.02	SURFACE CASING	18,200.00	0.00	0.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	0.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	0.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG		Sub-Total	628,068.00	0.00	50,000.00
		Total	2,598,581.65	1,600.00	246,018.00

Mud Checks					

Drilling Parameters				
Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data					
Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data								
Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)

Printed: 11/13/2019 5:02:10 AM



Daily Report

Report Date: 11/12/2019

Report No: 1

Days From Spud: 0.00

Spud Date (Original):

Well Name: Lone Ranger SWD #1
Rig Name:

State: Texas
County: Martin
API Number: 42-317-42648

Field Name: Spraberry
AFE Number: Lone Ranger #1

KB-GL: 25.0
Ground Elevation: 2,847.0
KB Elevation: 2,872.0

Daily Operations

Name Jason Fontenot	Mobile Phone (337) 831-7652
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Activity Summary
Start rig down operations. Set 3 house camp with water/sewer prior to rig mob, build up dirtwork around cellar and re-level same.

Current Status
Rigging down

24 Hr Forecast
Start rigging down rig for mobilization.

Incident Summary
Injuries: 0 Incidents: 0 Spills: 0

Safety Topic
Rigging down.

EHS Comment
Beware of extremely high wind gusts.

Limiting Factor
45-50 mph wind gusts.

Progress (ft) 0.0	Depth End (ft) 0.0	Drill Time (hrs) 0.0	Daily Cost 244,418.00	Cumulative Cost 244,418.00
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Casing

Description	Run Date	Top Depth	Bottom Depth
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Time Log

Start Time	End Time	Duration	Cum Duration	Phase	Activity	Activity Detail	Code	Comments
06:00	06:00	24.00	24.00	Pre-Rig Mo	1 - Rig Up & Rig Down			Set 3 house camp on new location. Add dirt and relevel around the cellar area.

Cost Breakdown

Cost Class	Cost Code	Description	AFE Amount	Daily Cost	Cumulative Cost
INTN	310.01	LEGAL FEES & TITLE OPINIONS	0.00	8,000.00	8,000.00
INTN	310.02	SURVEY/STAKING/PERMITS/BONDS	8,000.00	8,413.00	8,413.00
INTN	310.03	ROW / SURFACE DAMAGES	4,000.00	3,000.00	3,000.00
INTN	310.04	LOC RSRV PIT CONSTRUCTION	88,000.00	91,770.00	91,770.00
INTN	310.08	MOUSE/RATHOLE/CONDUCTOR	16,000.00	18,200.00	18,200.00
INTN	310.09	MOBILIZATION / DEMOBILIZATION	276,050.00	0.00	0.00
INTN	310.10	DRILLING - DAYWORK	339,980.86	0.00	0.00
INTN	310.14	TRAILER HOUSE / COMMUNICATIONS	22,157.08	0.00	0.00
INTN	310.15	DRILL BITS	73,000.00	0.00	0.00
INTN	310.16	DIRECTIONAL EQUIP/GYRO SURVEYS	148,598.17	0.00	0.00
INTN	310.17	DOWNHOLE TOOL / STABIL RENTAL	19,096.00	0.00	0.00
INTN	310.18	MUD / CHEMICALS	58,661.75	0.00	0.00
INTN	310.19	FUEL / POWER	76,214.27	0.00	0.00
INTN	310.21	WATER / WATER HAULING	63,000.00	3,685.00	3,685.00
INTN	310.22	OFFSITE WATER/CUTTING DISPOSAL	30,000.00	0.00	0.00
INTN	310.23	TRANSPORTATION / HAULING	31,000.00	0.00	0.00
INTN	310.24	INSPECTION/TUBULAR TESTING	10,500.00	0.00	0.00
INTN	310.25	LAYDOWN MACHINE/CAST CREW/TONG	56,128.09	0.00	0.00
INTN	310.26	CEMENT FLOAT EQUIP & SERVICES	145,000.00	0.00	0.00
INTN	310.28	LOGGING - OPEN HOLE	20,000.00	0.00	0.00
INTN	310.33	EQUIPMENT RENTAL	74,928.02	2,500.00	2,500.00
INTN	310.39	NIPPLE UP / BOPE TESTING	7,200.00	0.00	0.00
INTN	310.40	OVERHEAD	50,000.00	30,000.00	30,000.00
INTN	310.42	ENG/GEO/LAB TRACE DIAGNOSTICS	61,121.90	21,350.00	21,350.00
INTN	310.43	ROUSTABOUT / CONTRACT LABOR	93,205.70	0.00	0.00
INTN	310.44	WELDING SERVICES	5,760.00	0.00	0.00
INTN	310.45	INSURANCE	14,000.00	0.00	0.00
INTN	310.49	CONTINGENCY	178,911.83	7,500.00	7,500.00
INTN		Sub-Total	1,970,513.65	194,418.00	194,418.00
TANG	311.02	SURFACE CASING	18,200.00	0.00	0.00
TANG	311.03	1ST INTERMEDIATE CASING/ LINER	166,000.00	50,000.00	50,000.00
TANG	311.04	2ND INTERMEDIATE CASING/ LINER	351,960.00	0.00	0.00
TANG	311.05	WELLHEAD EQUIPMENT	62,000.00	0.00	0.00
TANG	311.08	MISC & CONTINGENCY	29,908.00	0.00	0.00
TANG		Sub-Total	628,068.00	50,000.00	50,000.00
		Total	2,598,581.65	244,418.00	244,418.00

Mud Checks

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Drilling Parameters

Depth Start	Depth End	Date Start	Date End	Pump Press
Drill Rot Dist	Drill Rot Time	Av RPM	Av WOB	Av ROP
Drill Slide Dist	Drill Slide Time	PU Load	SO Load	Rot Load

Bit Data

Bit No 0	Bit Size 0.000	Bit Type	Make	IADC Code	Serial No
Depth Drilled (ft) 0.0	Time Drilled (hr) 0.00	Nozzles		TFA (in ²) 0.00	Mfg Code

Drilling String Components

Mud Pumps

Survey Data

Survey Tool Type	MD (ft)	Incl (°)	Azi (°)	TVD (ft)	Vert Sec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)
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