

Operator Name/Number: OXY USA WTP LP 192463
 Lease Name/Number: Anderson 35 #2H Fee
 Pool Name/Number: Red Tank Bone Spring 51683
 Surface Location: 660 FSL 150 FWL M Sec 35 T21S R32E
 Penetration Point: 660 FSL 330 FWL M Sec 35 T21S R32E
 Bottom Hole Location: 660 FSL 330 FEL P Sec 35 T21S R32E

C-102 Plats: 3/21/13 6/7/13 11/5/13 Elevation: 3687.9' GL Objective: 2nd Bone Spring

30-025-41498

Proposed TD: Pilot Hole 11900' TVD Horizontal Lateral 10822' TVD 15315' TMD
 SL - Lat: 32.4297114 Long: 103.6530867 X=709885.6 Y=520711.1 NAD - 1927
 PP - Lat: 32.4297137 Long: 103.6525033 X=710065.6 Y=520713.1 NAD - 1927
 BH - Lat: 32.42977149 Long: 103.6375271 X=714686.4 Y=520764.0 NAD - 1927

Casing Program:

Hole Size	Interval	OD Csg	Weight	Collar	Grade	Condition	Collapse Design Factor	Burst Design Factor	Tension Design Factor
14-3/4"	0-1000'	11-3/4"	47	BT&C	J55	New	3.8	1.42	5.26
				Hole filled with 8.5# Mud			1514#	3072#	
10-5/8"	0-4800'	8-5/8"	32	LT&C	J-55	New	1.59	1.24	1.82
				Hole filled with 10.2# Mud			2533#	3928#	
7-7/8"	0-15315'	5-1/2"	17	BT&C	P-110	New	1.45	1.22	2.11
				Hole filled with 9.2# Mud			7480#	10640#	

Collapse and burst loads calculated using Stress Check with anticipated loads

Cement Program:

- 11-3/4" Surface Circulate cement to surface w/ 400sx PPC cmt w/ 1% CaCl₂ + 4% Bentonite + .125#/sx Poly-E-Flake, 13.5ppg 1.73 yield 888# 24hr CS 125% Excess followed by 220sx PPC cmt w/ 1% CaCl₂, 14.8ppg 1.34 yield 1416# 24hr CS 125% Excess
- 8-5/8" Intermediate Circulate cement to surface w/ 920sx HES Light PPC cmt w/ 5% salt + .25% HR-800, 12.9ppg 1.85 yield 771# 24hr CS 105% Excess followed by 170sx PPC cmt, 14.8ppg 1.33 yield 1779# 24hr CS 105% Excess
- Pilot Hole Plug Plug #1 cement w/ 580sx PPC cmt w/ .3% HR-601, 14.4ppg 1.23 yield 724# 24hr CS 50% Excess from 11900' to +/-10500'
Plug #2 cement w/ 290sx PPC cmt w/ .85% CFR-3 + .25 HR-601, 18.0ppg .90 yield 657# 24hr CS 50% excess from 10500' to +/-10000'.
- 5-1/2" Production Cement w/ 990sx PP cmt w/ 14.8#/sx Silicalite 50/50 Blend + 15#/sx Schotchlite HGS-6000 + 3#/sx Kol-Seal + .125#/sx Poly-E-Flake + .25#/sx HR-800, 10.2ppg 2.95 yield 947# 24hr CS 100% Excess followed by 710sx Super H cmt w/ 3#/sx salt + .4% CFR-3 + .5% Halad-344 + .3% HR-800 + .125#/sx Poly-E-Flake, 13.2ppg 1.66 yield 615# 24hr CS 40% Excess. Calc TOC-Surface

Description of Cement Additives: Calcium Chloride, Salt (Accelerator); Silicalite (Additive Material); CFR-3 (Dispersant); Bentonite, Schotchlite HGS-6000 (Light Weight Additive); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-601, HR-800 (Retarder)
 The above cement volumes could be revised pending the caliper measurement.

Proposed Mud Circulation System:

Depth	Mud Wt. ppg	Visc sec	Fluid Loss	Type System
0 - 1000'	8.5	28-38	NC	Fresh Water/Spud Mud
1000 - 4800'	10.2	28-32	NC	Fresh water/NaCl Brine
4800 - 11900' (Pilot Hole)	9.2	28-34	NC	Cut Brine/Sweeps
10000 - 15315' (Curve-Lateral)	9.2	32-50	<18	Duo Vis/Salt Gel/Starch/PAC

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

BOP Program:

Surface None
 Intermediate/Production 13-5/8" 10M three ram stack w/ 5M annular preventer, 5M Choke Manifold

Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

Geological Marker	Depth	Type
a. Rustler	978'	Formation
b. Top Salt	1333'	Formation
c. Bottom Salt	4383'	Formation
d. Delaware	4753'	Formation
e. Delaware-Bell Canyon	4863'	Oil/Gas
f. Delaware-Cherry Canyon	5713'	Oil/Gas
g. Delaware-Brushy Canyon	6913'	Oil/Gas
h. 1st Bone Spring	8743'	Oil/Gas
i. 2nd Bone Spring	10393'	Oil/Gas
j. 3rd Bone Spring	11313'	Oil/Gas
k. Wolfcamp	11913'	Oil/Gas

Fresh water may be present above the Rustler formation. Surface casing will be set below the top of the Rustler, which will cover potential fresh water sources.

A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins.
 Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

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