30-025-42536

HOBBS OCD

Devon Energy, Bell Lake 19 State 6H

APR 3 0 2015

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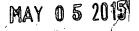
1. Geologic Formations

TVD of target	9,810'	Pilot hole depth	n/a
MD at TD:	14,155'	Deepest expected fresh water:	85'

Basin

Formation		Water/Mineral Bearing/ Target Zone?	
Rustler	1140	Water	
Top of Salt	1465	Water	······································
Base of Salt	4940	Water	
Delaware	5042	Oil	
Cherry Canyon	6014	Oil	
Brushy Canyon	7476	Oil	
Madera	8635	Oil	
1 st BSPG Lime	9045	Oil	
Upper Leonard Shale	9230	Oil	
Base U Leonard Shale	9460	Oil	
M Leonard Shale	9540	Oil	
Base M Leonard Shale	9775	Oil	
+U20			

*H2S, water flows, loss of circulation, abnormal pressures, etc.



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Hole Size	Casing From	Interval To	Csg. Size	Weight (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
17.5"	From	1,165 '	13.375"	48	H-40	STC	1.25	2.69	2.18
17.3	0	5,040'	9.625"	40	J-55	LTC	1.19	1.40	2.18
8.75"	0	9,100'	7"	29	P-110	BTC	1.64	1.32	2.27
8.75"	9,100'	14,155	5.5"	17	P-110	BTC	1.34	1.35	3.18
0.75	9,100	14,155	L		mum Safety		1.125	1.00	1.6 Dry
			Ĺ	·		,			1.8 Wet

2. Casing Program

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N				
Is casing new? If used, attach certification as required in Onshore Order #1	Y				
Does casing meet API specifications? If no, attach casing specification sheet.					
Is premium or uncommon casing planned? If yes attach casing specification sheet.					
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y				
justification (loading assumptions, casing design criteria).					
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y				
the collapse pressure rating of the casing?					
Is well located within Capitan Reef?	N				
If yes, does production casing cement tie back a minimum of 50' above the Reef?					
Is well within the designated 4 string boundary.					
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Is well located in SOPA but not in R-111-P?	<u>N</u>				
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back					
500' into previous casing?					
Is well leasted in D 111 D and SODA2	NI NI				
Is well located in R-111-P and SOPA?	N				
If yes, are the first three strings cemented to surface?					
Is 2 nd string set 100' to 600' below the base of salt?					
Is well located in high Cave/Karst?	N				
If yes, are there two strings cemented to surface?					
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?					
Is well located in critical Cave/Karst?	<u>N</u>				
If yes, are there three strings cemented to surface?					

3. Cementing Program

Casing	#Sks	Wt. Ib/ gal	H2O gal/sk	5.00 5.00	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	500	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake
	550	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	1070	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
7 x 5-	280	10.4	16.9	3.17	16	Lead: Tuned Light [®] + 0.125 lb/sk Pol-E-Flake
1/2" Combo Prod.	1320	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
7 x 5-1/2" Production Casing	4540'	25%

4. Pressure Control Equipment

N A variance is requested for the use of a diverter on the surface casing.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		Tested to:																																				
			Annular	x	50% of working pressure																																				
			Blind Ram																																						
12-1/4"	13-5/8"	3M	Pipe Ram		3M																																				
			Double Ram	x	5101																																				
			Other*																																						
			Annular	x	50% testing pressure																																				
		3M	Blind Ram																																						
8-3/4"	13-5/8"		3M	3M	3M	21/	214	3M	3M	3M	314	314	3M	3M	314	3M	21/	314	314	314	3M	3M	21/	314	314	21/	314	314	314	314	3M	314	314	314	3M	3M	3M	3M	Pipe Ram		
0-5/4	15-5/8					Double Ram	x	3M																																	
			Other *																																						
			· · · · · · · · · · · · · · · · · · ·	-																																					

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.			
Y	 A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. Y Are anchors required by manufacturer? 			

Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.
	Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
	 Wellhead will be installed by FMC's representatives. If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
	 FMC representative will install the test plug for the initial BOP test. FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
	 Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.
	After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.
	The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.
	Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

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5. Mud Program

	Depth	Туре	Weight (ppg) Viscosity	Water Loss
From	To				
0	1,165'	FW Gel	8.6-8.8	28-34	N/C
1,165'	5,040'	Saturated Brine	10.0-10.2	28-34	N/C
5,040'	14,155'	Cut Brine	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logging, Coring and Testing.			
X	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated		
	logs run will be in the Completion Report and submitted to the BLM.		
	No Logs are planned based on well control or offset log information.		
	Drill stem test? If yes, explain		
	Coring? If yes, explain		

Add	litional logs planned	d Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

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Condition	Specify what type and where?
BH Pressure at deepest TVD	4739 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions: Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If		
H2S is detected in concentrations greater than 100 ppm, the operator will comply with the		
provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured		
values and formations will be provided to the BLM.		
N	H2S is present	
Y	H2S Plan attached	

8. Other facets of operation

Is this a walking operation? No. Will be pre-setting casing? No.

Attachments

<u>x</u> Directional Plan Other, describe