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Form 330-3 (March 2022) HODEBS OCD UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER DEPARTMENT OF THE INTERIOR APPLICATION FOR PERMIT TO DRILL OR REENTER DIAL 2000 MILL APR 2.6 2017 S. Infradux, Address or The NUMMAZI DIAL OF CALL STORES DIAL 2000 MILL S. Infradux, Address or The NUMMAZI DIAL OF CALL STORES DIAL 2000 MILL S. Infradux, Address or The NUMMAZI DIAL OF CALL STORES DIAL 2000 MILL S. Infradux, Address or The NUMMAZI DIAL OF CALL STORES DIAL 2000 MILL S. Infradux, Address or The NUMMAZI DIAL OF CALL STORES DIAL 2000 MILL S. Infradux, Address or The NUMMAZI DIAL OF CALL STORES DIAL DIAL DIAL DIAL DIAL DIAL DIAL DIAL	
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3508.6' GL 11/1/2016 30 d 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on Item 20 above). 3. A Dufling Plan 5. Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). 5. Operation certification 25. Signature Name (Printed/Typed) Date 7thle Regulatory Analyst Mayte Reyes 9/15/ Approved by (Signature Name (Printed/Typed) Date Title FOR FIELD MANAGER Office DLM-CARLSBAD FIELD OFFICE Approved by (Signature Forest Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Cody Layton Date Office DLM-CARLSBAD FIELD OFFICE Approval to granulate statements or representations as to any matter within its jurisdiction. <td>ation</td>	ation
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1. Geologic Formations

TVD of targe	et 9,290' EOL	Pilot hole depth	NA	
MD at TD:	14,111'	Deepest expected fresh water:	541'	
Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazaro	is*
Quaternary Fill	Surface	Water		
Rustler	879	Water		
Top of Salt	1096	Salt		
Base of Salt	4414	Salt		
Lamar	4642	Salt Water		
Bell Canyon	4664	Salt Water		
Cherry Canyon	5574	Oil/Gas		
Brushy Canyon	6964	Oil/Gas		
Bone Spring Lime	8588	Oil/Gas		
U. Avalon Shale	8828	Oil/Gas		
L. Avalon Shale	9068	Oil/Gas		
1st Bone Spring Sand	9647	Oil/Gas		
2nd Bone Spring Sand	X	Oil/Gas		
3rd Bone Spring Sand X		Oil/Gas		
Wolfcamp X		Oil/Gas		

2. Casing Program

Hole Size	Casin From	g Interval To	Csg. Si	ize	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5"	0	905	13.375	5"	54.5	J55	STC	2.73	1.36	10.42
12.25"	0	4670	9.625	97	40	J55	LTC	1.04	1.09	2.78
8.75"	0	14,111	5.5"		17	P110	LTC	1.65	2.95	2.82
			BL	M Minimu	m Safet	y Factor	1.125	1	1.6 Dry 1.8 Wet	

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

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

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	YorN
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.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
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?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
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?	TOTAL CONTRACTOR
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?	1 Provide and the state of t
Is well located in critical Cave/Karst?	N
If ves, are there three strings cemented to surface?	

3. Cementing Program

4

Casing	# Sks	Wt. Ib/ gal	YId ft3/ sack	H ₂ 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Sumf	350	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Surr.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter	890	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
inter.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl
5.5 Prod	640	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	1350	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	4,170'	25% OH in Lateral (KOP to EOL) – 40% OH in Vertical

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ту	pe	x	Tested to:
			Ann	ular	х	2000 psi
			Blind	Ram		
12-1/4"	13-5/8"	2M	Pipe Ram			2M
			Double Ram			
			Other*			
			Ann	ular	x	50% testing pressure
8-3/4"	13-5/8"	3M	Blind Ram		х	
			Pipe Ram		x	3M
			Doubl	e Ram		
			Other*			

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. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2.			
X	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.			
	N Are anchors required by manufacturer?			
N	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.			

5. Mud Program

Laurin Martin de La	Depth	Sa and the	Weight	A Martin	JAN
From	То	IAbe	(ppg)	VISCOSILY	water Loss
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Saturated Brine	10 - 10.2	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.4	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 of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

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

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4545 psi at 9290' TVD
Abnormal Temperature	NO 150 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

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

N	Is it a walking operation?
N	Is casing pre-set?

×	H2S Plan.
×	BOP & Choke Schematics.
x	Directional Plan

2,000 psi BOP Schematic





Check Valve









NMAC by using a Closed Loop System."

