6. J. J. S.

CONFIDENTIAL

OCD Hobbs

15-800

2. Name of Operator Devon Energy Production Company, L.P. (f) 3a. Address 333 West Sheridan Avenue Oklahoma City, OK 73102-5010 3b. Phone 1 4. Location of Well (Report location clearly and in accordance with any State require At surface Unit A, 330' FNL 400' FEL PP: 330' FNL 4. Location of Well (Report location clearly and in accordance with any State require At surface Unit A, 330' FNL 400' FEL PP: 330' FNL 4. Distance in miles and direction from nearest town or post office* Approximately 23 miles NW Jal, NM. 16. No. of location to nearest property or lease line, ft. 15. Distance from proposed* Interest of the proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 16. No. of 19. Propo	T DR REENTER Single Zone Multi 377) / No. (include area code) 552-6558 ements.*) _, 400' FEL F acres in lease sed Depth 1D / 9637' TVD ximate date work will sta	ple Zone 17. Spacing 160 Ad 20. BLM/B CO-1	11. Sec., T. R. M. or Blk. and Sec. 26-T23S-R33E 12. County or Parish Lea Unit dedicated to this well	be Name , Name and No. (313483) 19 19 4009 (59900) / Ka	
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Elevations (Show whether DF, KDB, RT, GL, etc.) 22 Appro 3662.1' GL 6/15/2016	ximate date work will sta 5				
3662.1' GL 6/15/2010	5	urt*	23. Estimated duration		
24. Att			23. Estimated duration 45 Days		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 	Item 20 above). 5. Operator certifi	cation	s unless covered by an existir rmation and/or plans as may b		
	ne (Printed/Typed) nda Good		Date	11/2015	
Regulatory Compliance Specialist			4		
pproved by (Signature) ANGORATOR MacDarnest	ne (Printed/Typed)		Date	PR 2 2 20W	
tie FIELD MANAGER Offi	ce	CAR	LSBAD FIELD OFFIC	E	
		hts in the subj	ect lease which would entitle t		
nduct operations thereon. anditions of approval, if any, are le 18 U.S.C. Section 1001 and Title		o any department or agency of the United			
ates any false, fictitious or fraudul GCP form is included with the	of the				
Continued on page 2) Form's section under Unnum submit accordingly in a time	bered forms. Ple y manner.	ease	(Instruction	ons on page 2)	
arlsbad Controlled Water Basin	-p=116		i X		
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	SEE ATTA				
proval Subject to General Requirements & Special Stipulations Attached	CONDITI	ON2 (OF APPROVA	~	

1. Geologic Formations

TVD of target	9,637'	Pilot hole depth	n/a
MD at TD:	14,079'	Deepest expected fresh water:	

Basin

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Formation	Depth (TVD)	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1360	Barren	
Top of Salt	1630	Barren	
Base of Salt	5090	Barren	
Delaware	5285	Oil	
Cherry Canyon	6250	Oil	
Brushy Canyon	7590	Oil	
Bone Spring	9150	Oil	
			· · · · · · · · · · · · · · · · · · ·
+1100 / 0 1		1	
*H2S, water flows, loss of	of circulation, abr	normal pressures, etc.	

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2. Casing Program

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Hole Size	CREATER D. C. M. M. M. M. M.	Call, a	Csg. Size	A Start Barrie And	Grade	and the state of the state of	SF Collapse	SF Burst	SF Tension
17.5"	0	1,420'	13.375	48	H-40	STC	1.15	2.21	2.02
12.25"	0	4,300'	9.625	40	J-55	BTC	1.15	1.38	2.27
12.25"	4,300'	5,200'	9.625	40	HCK-55	BTC	1.41	2.77	4.82
8.75"	0	9,120'	7"	29	HCP-110	BTC	2.17	1.32	2.68
8.75"	9,120'	14,079'	5.5"	17	P-110	BTC	1.44	1.25	3.17
		• • •		BLM Min	imum Safety	y Factor	1.125	1.00	1.6 Dry
									1.8 Wet

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

	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.	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?	1 4
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?	11
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?	and the second statement of the
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

E. S. Starter		lb/ gal	H20 gal/sk	ft3/ sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	700	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.	1090	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-	250	10.4	16.9	3.17	16	Lead: Tuned Light [®] + 0.125 lb/sk Pol-E-Flake
1/2" Combo Prod.	1300	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

Actual cement volumes will be adjusted based on fluid caliper and caliper log data.

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
7 x 5-1/2" Production Casing	5000'	25%

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4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ţ	ype		Tested to:													
				nular	X	50% of working pressure													
			Blind	l Ram															
12-1/4"	13-5/8"	3M		Ram		3M													
			Doub	le Ram	x	5141													
			Other*																
			Anı	nular	x	50% testing pressure													
							1									Blind Ram			
8-3/4"	12 5/0"	13-5/8"	17 5/0"	3M	Pipe Ram														
0-3/4	15-5/8	5111	5111	3101	3101	3101	5101	5141	Doubl		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. See attached schematics.

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.

Devon Energy, Coachwhip 26 Fed 8H

#2.L

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See		
COA		A variance is requested for the use of a flexible choke line from the BOP to Choke
	Y	Manifold. See attached for specs and hydrostatic test chart.
-		Y Are anchors required by manufacturer?
Jee CerA	Y	<u>A multibowl wellhead is being used</u> . 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.
		Je J
		 Devon proposes using a multi-bowl wellhead assembly. 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 vendor's representatives. If the welding is performed by a third party, the vendor's representative will
		monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
		 Vendor representative will install the test plug for the initial BOP test.
		 Vendor representative with instant the test plug for the initial BOT test. Vendor 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 conjuct) to full mechanism.
		 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 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 the wellhead.
		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.

See attached schematic.

5. Mud Program

42

D	epth	Туре	Weight (ppg)	Viscosity	-Water Loss
From	То				And Anna State
0	1,420'	FW Gel	8.6-8.8	28-34	N/C
1,420'	5,300'	Saturated Brine	10.0-10.2	28-34	N/C
5,300'	14,079'	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?	

See <u>6. Logging and Testing Procedures</u>

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	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	



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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4660 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.

i di des di di formationo vini de provided to ine berti.		
X	H2S is present	
Y	H2S Plan attached	

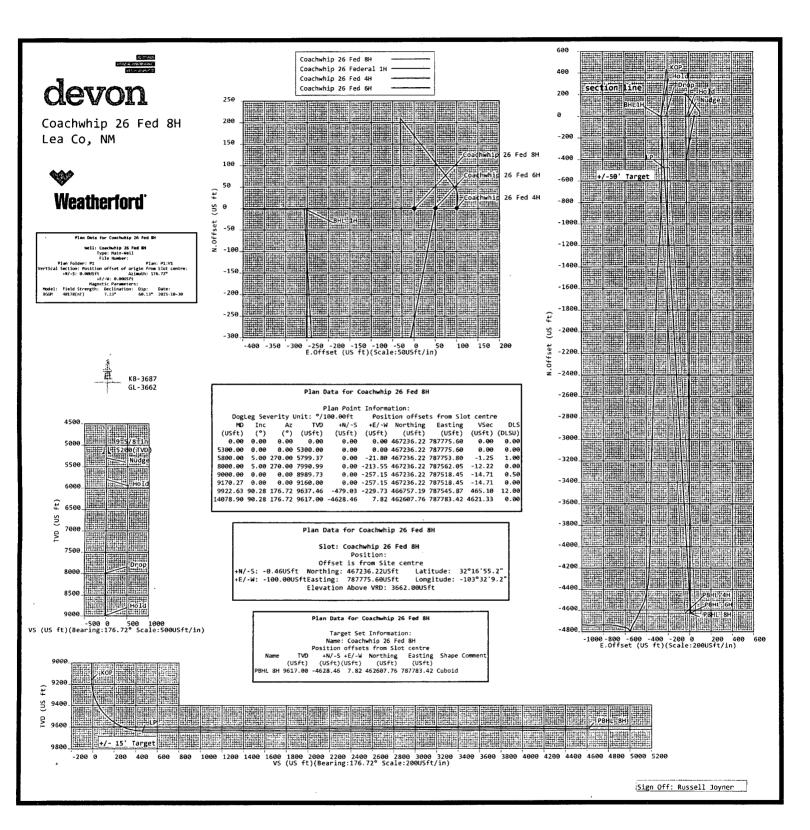
8. Other facets of operation

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

Attachments

<u>_x</u> Directional Plan

____ Other, describe



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