Form 3160-3 (June 2015)	4	FORM APPRO OMB No. 1004-	
UNITED STATES DEPARTMENT OF THE INTE	RIOR C C C C C C C C C C C C C C C C C C C	Expires: January 3 5. Lease Serial No.	
BUREAU OF LAND MANAGE	PENT	NMNM116574	
APPLICATION FOR PERMIT TO DRIL	LOR REERTER	6. If Indian, Allotee or Tribe	e Name
Ia. Type of work: Image: Drill REENT Ib. Type of Well: Image: Oil Well Gas Well Other		7. If Unit or CA Agreement	
1c. Type of Completion: Hydraulic Fracturing Image: Single Singl	Zone Multiple Zone	8. Lease Name and Well No BELL LAKE 24 FED 25H	
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP)	9. API-Well No.	6876
	Phone No. (include area code) D)583-3866	10 Field and Pool, or Explo WO-025 G-09 \$263416B	1020
4. Location of Well (Report location clearly and in accordance with a At surface SWSE / 178 FSL / 1452 FEL / LAT 32.196396 / J	· · ·	11. Sec., T. R. M. or Blk. an SEC 24 (T245/R32E / N	
At proposed prod. zone NENE / 20 FNL / 330 FEL / LAT 32.2		$\langle \rangle$	
14. Distance in miles and direction from nearest town or post office*		12. County or Parish	13. State
15. Distance from proposed* 470 fact 16.	No of acres in lease 17. Space	LEA ng Unit dedicated to this well	NM
10. Distance from property or lease line, ft. 178 feet (Also to nearest drig. unit line, if any) 680			
to nearest well drilling completed	$\langle \langle \langle \langle \langle \langle \rangle \rangle \rangle \rangle \rangle$	/BIA Bond No. in file /B000801	
	Approximate date work will start*	23. Estimated duration 45 days	
	. Attachments		
The following, completed in accordance with the requirements of Ons (as applicable)	hore Oil and Gas Order No. 1, and the I	Hydraulic Fracturing rule per o	43 CFR 3162.3-3
1. Well plat certified by a registered surveyor.		ns unless covered by an existin	g bond on file (see
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Landau Strategy Plan (if the location is on National Forest System Strategy Plan (if the location is on National Forest System Strategy Plan (if the location is on Strategy Plan (if the location i	Item 20 above). ds, the 5. Operator certification.		
SUPO must be filed with the appropriate Forest Service Office)		mation and/or plans as may be	requested by the
25. Signature (Electronic Submission)	Name (Printed/Typed) Rebecca Deal / Ph: (405)228-8429	Date	2010
Title	Rebecca Deal/ Pn. (405)226-642	9 08/05/	2019
Regulatory Compliance Professional	• · - · · · - · · - · · - · · · · · · ·		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 01/29/	2020
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD		
Application approval does not warrant or certify that the applicant hold		in the subject lease which wo	uld entitle the
applicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i of the United States any false, fictitious or fraudulent statements or rep			artment or agency
GCA Resor / 10/2020		A. 1002	Ø
•		KE 115/202	
	CONTINNS	0.0.1	
	D WITH CONDITIONS	9	
(Continued on page 2)		*(Instruction	ons on page 2)
		(1100.400	Y

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM116574
WELL NAME & NO.:	BELL LAKE 24 FED / 25H
SURFACE HOLE FOOTAGE:	178'/S & 1452'/E
BOTTOM HOLE FOOTAGE	20'/N & 330'/E
LOCATION:	Section 24, T.24 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	• Yes	C No	
Potash	None		C R-111-P
Cave/Karst Potential	C Low		High
Cave/Karst Potential	Critical		
Variance	None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	Soth
Other	☐4 String Area	Capitan Reef	WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	✓ Water Disposal	ГСОМ	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware Mountain Group**. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1201 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

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completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u>
 <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Cement excess is less than 25%, more cement might be required.

Operator has proposed to pump down 13-3/8" X 7-5/8" annulus. <u>Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.</u>

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Cement excess is less than 25%, more cement might be required.

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Alternate Casing Design:

- 4. The 13-3/8 inch surface casing shall be set at approximately 1201 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

5. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- Cement excess is less than 25%, more cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- d. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Cement excess is less than 25%, more cement might be required.

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Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. <u>Operator must run</u> a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.

Operator is approved to drill 10.625" hole instead of 9.875" for intermediate 1 with a BTC connection.

Production casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 6. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Cement excess is less than 25%, more cement might be required.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- 1. Operator has proposed 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 **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

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- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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A. CASING

- Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> <u>hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

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- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

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hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- C. DRILLING MUD

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Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

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All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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U.S. Department of the interior BUREAU OF LAND MANAGEMENT



Zip: 73102

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Rebecca Deal		Signed on: 08/05/2019
Title: Regulatory Compliance Profe	ssional	
Street Address: 333 West Sheridan	Avenue	
City: Oklahoma City	State: OK	Zip: 73102
Phone: (405)228-8429		
Email address: Rebecca.Deal@dvr	.com	
Field Representative		
Representative Name:		
Street Address: 333 W. Sheridan A	/e	

Email address: blake.richardson@dvn.com

State: OK

City: OKC

Phone: (405)552-6556



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Application Data Report

APD ID: 10400045244	Submission Date: 08/05/2019	
Operator Name: DEVON ENERGY PRODUCT	ION COMPANY LP	
Well Name: BELL LAKE 24 FED	Well Number: 25H	Show Final Text
Well Type: OIL WELL	Well Work Type: Drill	
	7	
Section 1 - General		

APD ID: 10400045244	Tie to previous NOS?	N Submission Date: 08/05/201
BLM Office: CARLSBAD	User: Rebecca Deal	Title: Regulatory Compliance
Federal/Indian APD: FED	Is the first lease penetr	Professional ated for production Federal or Indian? FED
Lease number: NMNM116574	Lease Acres: 680	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agree	ement:
Agreement number:		
Agreement name:		
Keep application confidential? Y		
Permitting Agent? NO	APD Operator: DEVON	NENERGY PRODUCTION COMPANY LP
Operator letter of designation:		

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Operator PO Box:

Operator City: Oklahoma City State: OK

Operator Phone: (800)583-3866

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: BELL LAKE 24 FED

Field/Pool or Exploratory? Field and Pool

Master Development Plan name: Master SUPO name:

Zip: 73102

Master Drilling Plan name:

Well Number: 25H

Field Name: WC-025 G-09 S263416B

Well API Number:

Pool Name: UPPER WOLFCAMP

кор

Leg

#1 PPP

Leg

#1-1

50

100 FSL

FSL 330 FEL 24S 32E 24

Aliquot

32.19602 -

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Is the	e prop	posed	well	in a ⊦	lelium	n prod	uctio	n area?	N U	se Existing	Well F	Pad? N		Ne	ew surfac	e dist	urban	ce?	
Туре	of W	ell Pa	id: M	ULTIF	PLE W	/ELL				ultiple Wel		lame: E	3ell	Nι	umber: 5				
Well	Class	s: HOI	rizo	NTAL	•					ake 24 Wel umber of L									
Well	Work	Туре	: Dril	I															
Well	Туре	: OIL	WEL	L															
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Well	sub-1	Гуре:	INFIL	.L															
Desc	ribe s	sub-ty	pe:																
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Rese	rvoir	well s	pacir	ng ass	signed	d acre	s Me	asurem	ent: 160 A	cres									
Well	plat:	В	ELL_	LAKE	E_24_	FED_	025	H_C_10	2_2019080)2075346.j	odf								
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Desc	ribe S	Surve	у Тур	e:					-			•				·			
Datu	m: N/	AD83							Ve	ertical Datu	m: NA	VD88							
Surve	ey nu	mber:							Re	eference D	atum: (GROU	ND LEV	/EL					
Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	QM	۵۷۲	Will this well produce from this lease?
SHL Leg	178	FSL	145 2	FEL	24S	32E	24	Aliquot SWSE	32.19639 6	- 103.6245 2	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 116574	355 1	0	0	Y

116574 837 103.6208 MEXI MEXI 96 27 4 SESE 97 со co 6 Y 330 FEL 24S 32E 24 Aliquot 32.19618 LEA NEW NEW F NMNM 122 121 -103.6208 MEXI MEXI 116574 861 37 61 SESE 6 co 0 94 со

NEW NEW F

NMNM

LEA

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119

119 Y

Well Name: BELL LAKE 24 FED

Well Number: 25H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	dvt	Will this well produce from this lease?
EXIT Leg #1	100	FNL	330	FEL	24S	32E	24	Aliquot NENE	32.21015 9	- 103.6208 78	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 116574	- 894 9	174 66	125 00	Y
BHL Leg #1	20	FNL	330	FEL	24S	32E	24	Aliquot NENE	32.21037 9	- 103.6208 769	LEA	NEW MEXI CO		F	NMNM 116574	- 894 9	175 46	125 00	Y



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400045244

Submission Date: 08/05/2019

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELL LAKE 24 FED

Well Number: 25H

Show Final Text

2002

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical				Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
507113		3576	0 0 OTHER : SURFAC		OTHER : SURFACE	NONE	N
507114	RUSTLER	2400	1176	1176	ANHYDRITE	NONE	N
507115	SALADO	2076	1500	1500	SALT	NONE	N
507116	BASE OF SALT	-1400	4976	4976	SANDSTONE	NATURAL GAS, OIL	N
507117	BELL CANYON	-1439	5015	5015	SANDSTONE	NATURAL GAS, OIL	N
507118	CHERRY CANYON	-2369	5945	5945	SANDSTONE	NATURAL GAS, OIL	N
507119	BRUSHY CANYON	-3885	7461	7461	SANDSTONE	NATURAL GAS, OIL	N
507120	BONE SPRING LIME	-5341	8917	8917	LIMESTONE	NONE	N
507121	BONE SPRING 1ST	-6448	10024	10024	SANDSTONE	NATURAL GAS, OIL	N
507122	BONE SPRING 2ND	-7013	10589	10589	SANDSTONE	NATURAL GAS	N
507123	BONE SPRING 3RD	-8309	11885	11885	SANDSTONE	NATURAL GAS, OIL	N
507124	WOLFCAMP	-8623	12199	12199	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 12500

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below intermediate casing, a 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart. Devon requests a variance to run a 5M annular on a 10M BOP system. See

Page 1 of 6

Well Name: BELL LAKE 24 FED

Well Number: 25H

separately attached variance request and support documents in AFMSS.

Testing Procedure: A multibowl wellhead may be 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. 5M annular on 10M system will be tested to 100% of rated working pressure. Choke Diagram Attachment:

10M_BOPE_CHK_DR_CLS_RKL_20190730112951.pdf

BOP Diagram Attachment:

10M_BOPE_CHK_DR_CLS_RKL_20190730113000.pdf

Pressure Rating (PSI): 5M

Rating Depth: 10790

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested. Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be 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.

Choke Diagram Attachment:

5M_BOPE__CK_20190730113129.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190730113136.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	ezis Size	Condition	E Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	101 Bottom Set TVD	Top Set MSL 3221	Bottom Set MSL	Calculated casing length MD	H Grade	Weight	Doint Type	Collapse SF	Burst SF	Doint SF Type	9 Joint SF	Body SF Type	9 Body SF
	SURFACE	17.5	13.375	NEW		N	0	1201	0	1201	3551	2350	1201	п-40	40	3160	1.12 5	1	BUUT	1.0	BUUT	1.0
	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10790	0	10790	3576	-7239	10790	P- 110		OTHER - FLUSHMAX III	1.12 5	1	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	6.75	5.5	NEW	API	N	0	17546	0	12500	3576	-8949	17546	P- 110		VAL OO	1.12 5	1	BUOY	1.6	BUOY	1.6

Well Name: BELL LAKE 24 FED

Well Number: 25H

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Surf_Csg_Ass_20190730113310.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Int_Csg_Ass_20190730113522.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Prod_Csg_Ass_20190730113701.pdf

Section 4 - Cement

Well Name: BELL LAKE 24 FED

Well Number: 25H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1201	908	1.44	13.2	1307	50	С	Class C + adds

INTERMEDIATE	Lead	0	6790	685	3.27	9	2238. 5	30	С	Class C + adds
INTERMEDIATE	Tail	6790	1079 0	783	1.44	13.2	1128	30	С	Class C + adds
PRODUCTION	Lead	9996	1199 6	59	3.27	• 9	191.9	25	TUNED	Class C + adds
PRODUCTION	Tail	1199 6	1754 6	354	1.44	13.2	509.8	25	н	(50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

 	Circ	ulating Mediu	um Ta	able							
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Fitration (cc)	Additional Characteristics
0	1201	WATER-BASED MUD	8.5	9				2			

Well Name: BELL LAKE 24 FED

Well Number: 25H

Hta D Hta	Min Weight	Max Weight 2.01	Density (lbs/cu	Gel Strength (lbs/100	Hd	N Viscosity (CP)	Salinity (ppm)	Filtration (cc)	 Additional Ch	
1079 1754 OIL-BASED 0 6 MUD	10	10.5				12			 	 _

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will run GRMWD from TD to from KOP. Cement bond logs will be run in vertical to determine top of cement. Stated logs run will be in the Completion Report and submitted to the BLM.

List of open and cased hole logs run in the well:

CALIPER, CEMENT BOND LOG, DIRECTIONAL SURVEY, GAMMA RAY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6825

Anticipated Surface Pressure: 4075

Anticipated Bottom Hole Temperature(F): 175

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Bell_Lake_24_Fed_025H_20190802080626.pdf

Weil Name: BELL LAKE 24 FED

Well Number: 25H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Bell Lake 24 Fed 25H Plot 20190802080656.pdf

Bell_Lake_24_Fed_25H_Dir_Svy_20190802080656.pdf

Other proposed operations facets description:

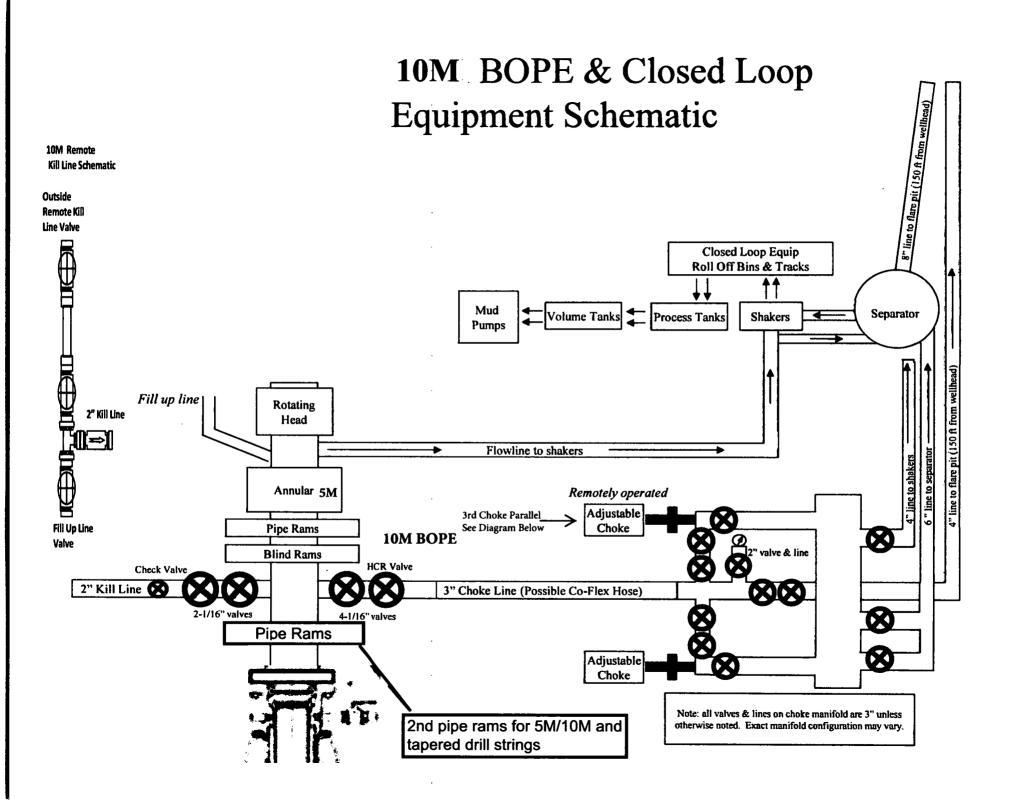
DIRECTIONAL SURVEY PLOT DRILLING PLAN SPEC SHEETS MB WELLHEAD MB VERBIAGE CLOSED LOOP DOC SPUDDER RIG REQUEST GAS CAPTURE PLAN ANNULAR VARIANCE REQUEST DOC COFLEX DOC

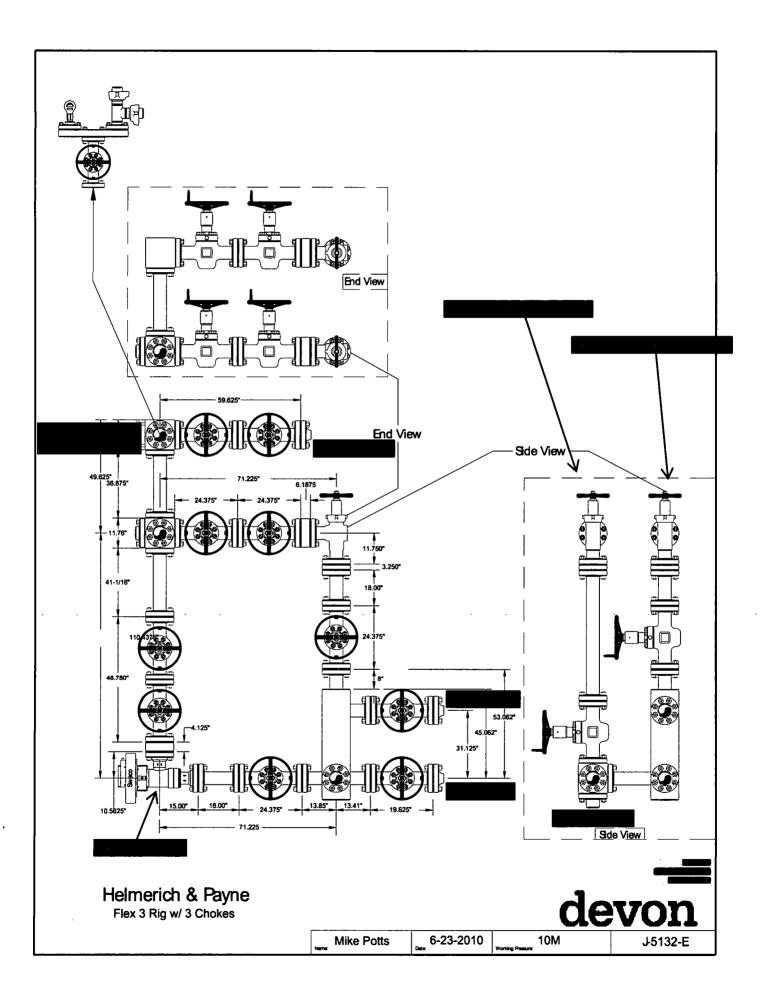
Other proposed operations facets attachment:

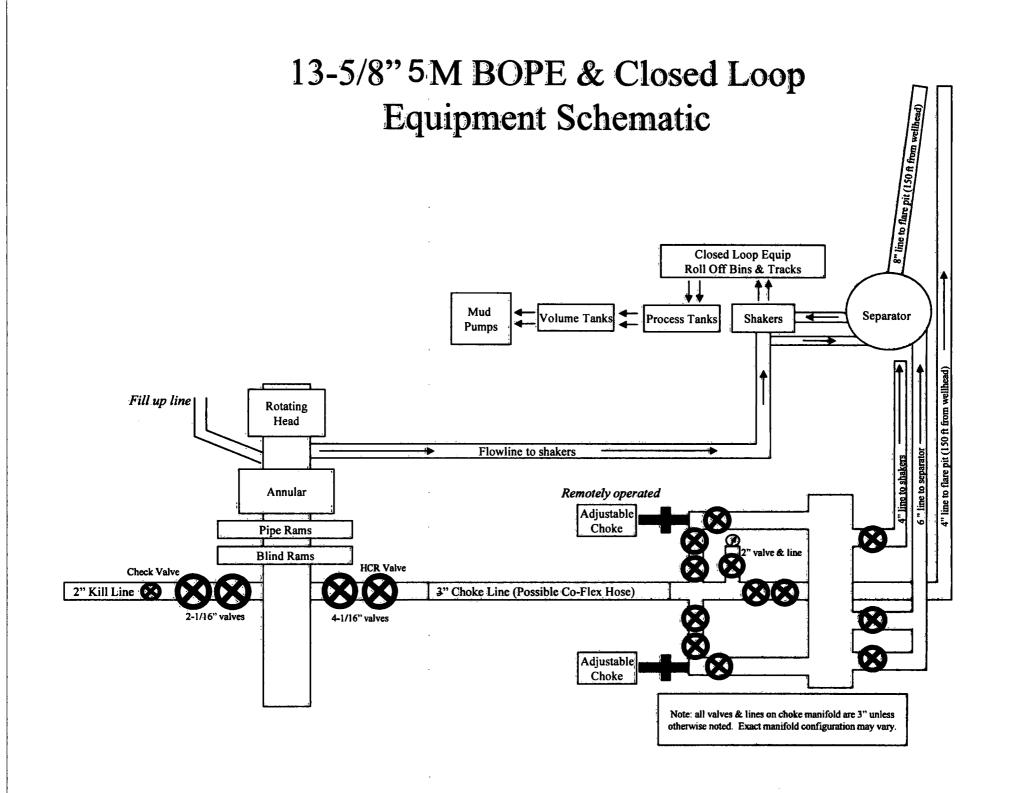
13.375_48_H40_20190730115538.pdf 5.5_17_P_110_BTC_20190730115614.pdf 5.5_20_P110_EC_VAMSG_20190730115304.pdf 7.625_29.70_P110_Flushmax_20190730115303.pdf 8.625_32.00_P110HSCY_TLW_20190730115304.PDF Bell_Lake_WP5_GCP_Form_20190801134103.pdf Clsd_Loop_20190730115304.pdf MB_Verb_10M_20190730115304.pdf MB_Wellhd_10M_13.375_7.625_5.5_20190730115340.pdf MB_Wellhd_10M_13.375_8.625_20190730115305.PDF Spudder_Rig_Info_20190730115304.pdf Bell_Lake_24_Fed_25H_Drlg_Plan_20190805070954.pdf

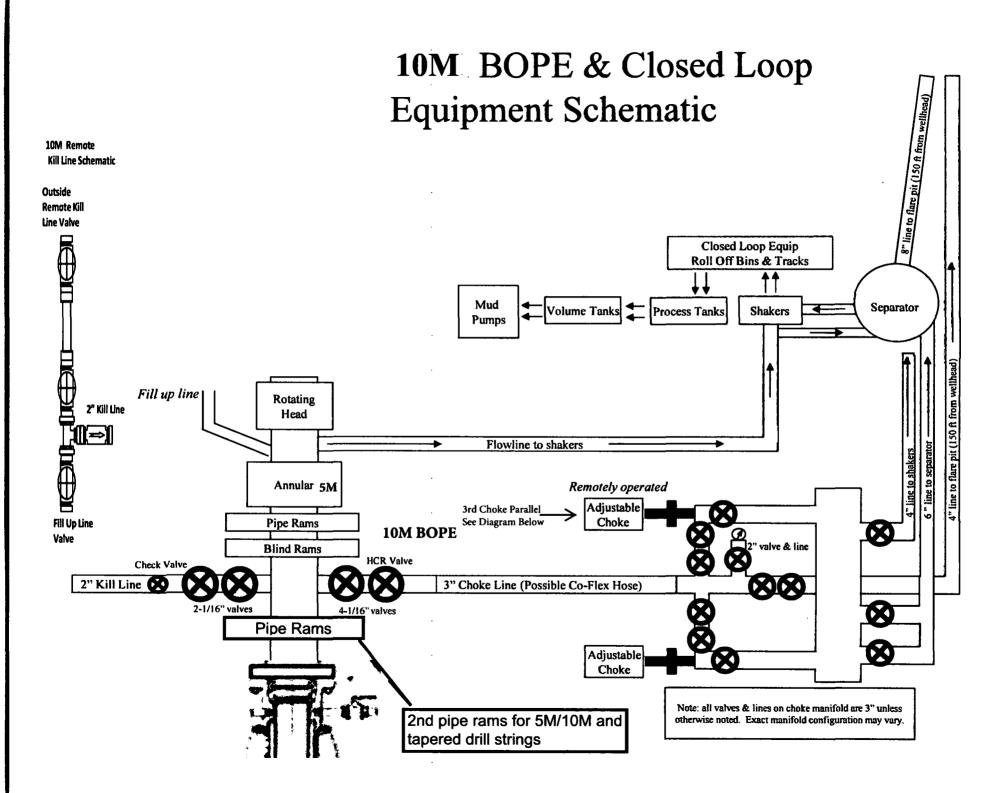
Other Variance attachment:

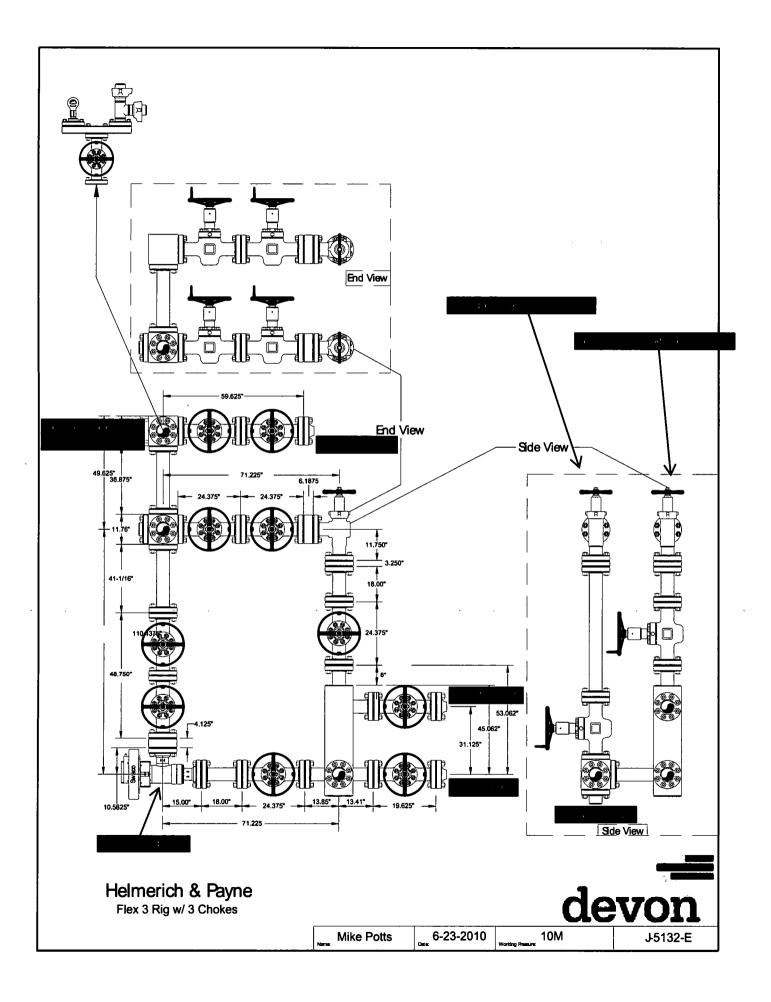
10M_BOPE_CHK_DR_CLS_RKL_20190730115411.pdf Annular_Variance___Preventer_Summary_20190730115410.pdf Co flex 20190730115411.pdf

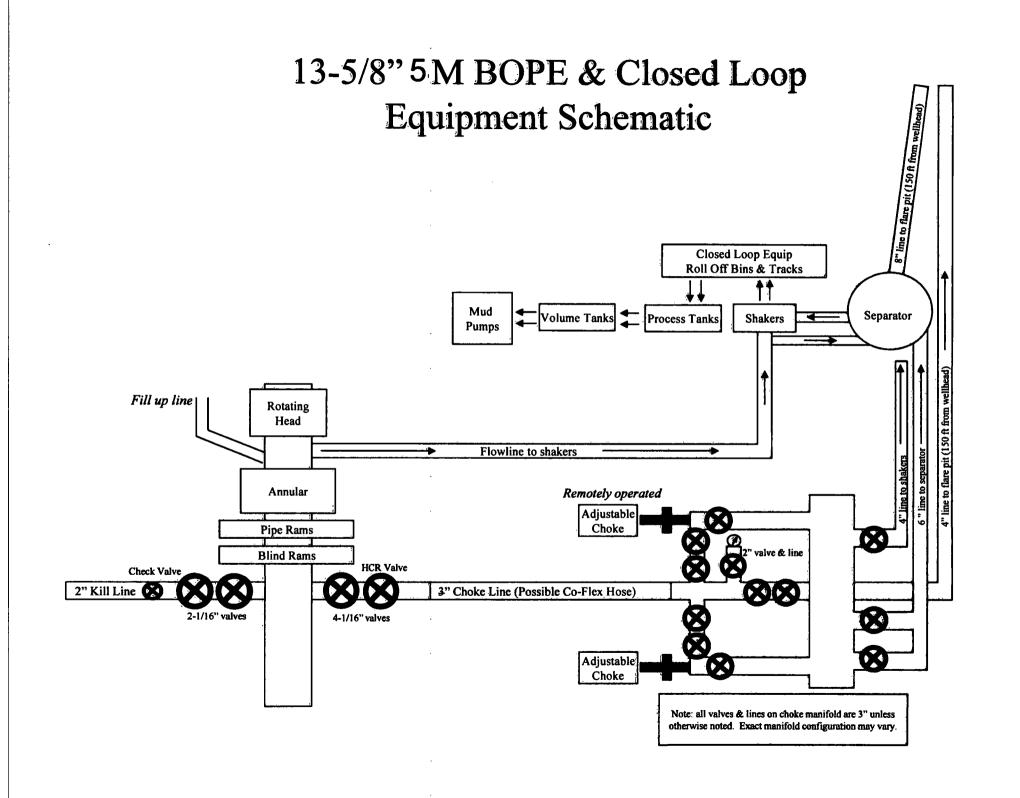














Devon Energy Center 333 West Sheridan Avenue Oklahoma City, Oklahoma 73102-5015

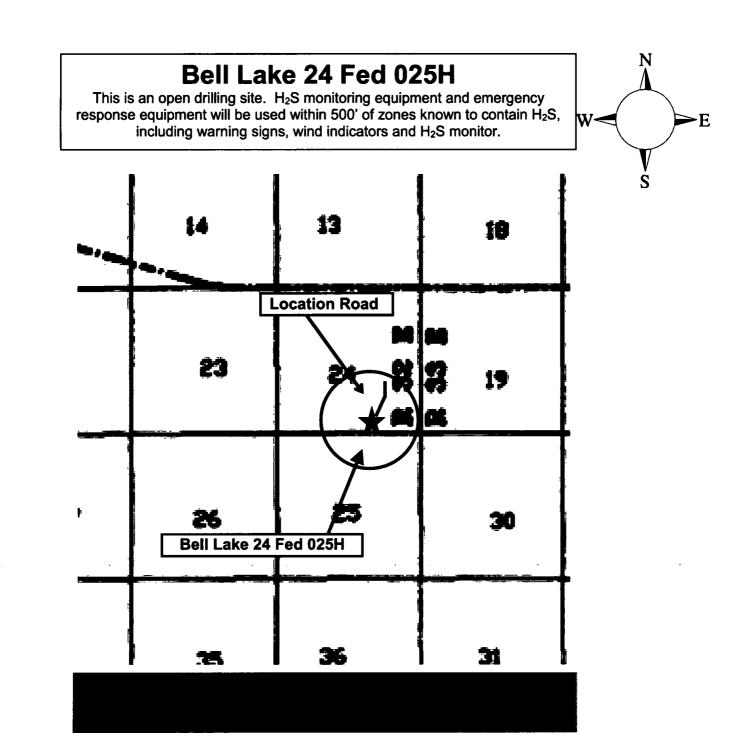
Hydrogen Sulfide (H₂S) Contingency Plan

For

Bell Lake 24 Fed 025H

Sec-24 T-24S R-32E 178' FSL & 1452 FEL LAT. = 32.196396' N (NAD83) LONG = 103.624520' W

Lea County NM



Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There are no homes or buildings in or near the ROE</u>.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - \circ Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Characteristics of H₂S and SO₂

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H_2S monitors positioned on location for best coverage and response. These units have warning lights which activate when H_2S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
 Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon	Energy	Corp.	Company	Call List

Drilling Supervisor – Basin – Mark Kramer

405-823-4796

EHS Professional - Laura Wright

405-439-8129

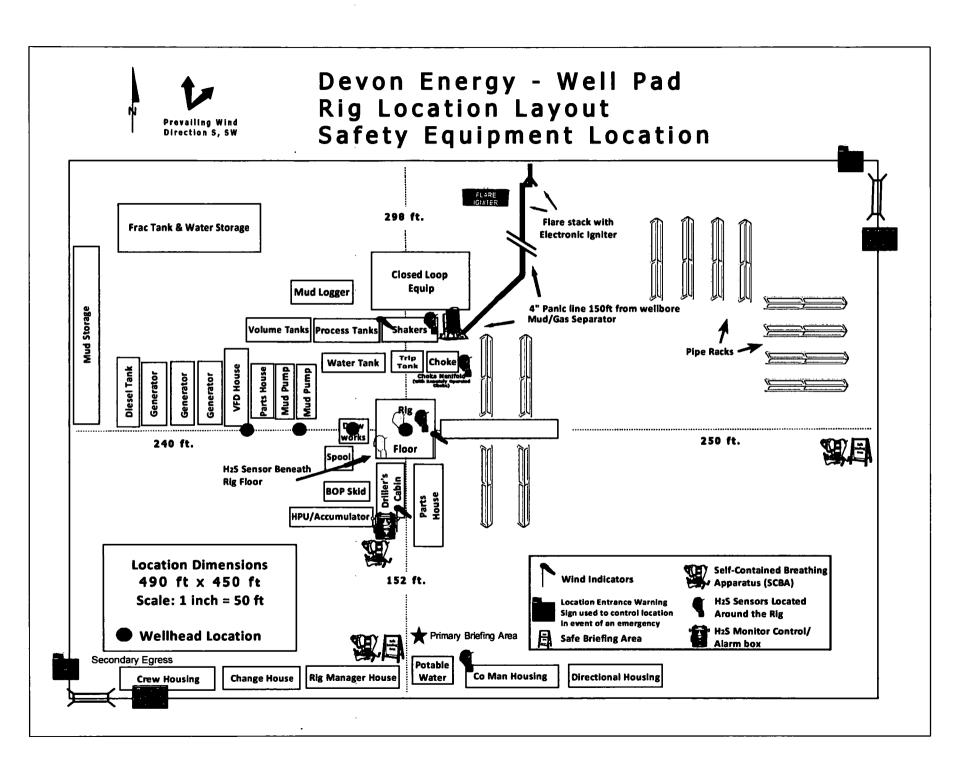
Agency Call List

County (575)	Hobbs Lea County Communication Authority State Police City Police Sheriff's Office Ambulance Fire Department LEPC (Local Emergency Planning Committee) NMOCD US Bureau of Land Management Carlsbad State Police City Police Sheriff's Office	393-3981 392-5588 397-9265 393-2515 911 397-9308 393-2870 393-6161 393-3612 885-3137 885-2111
(575) 	State Police City Police Sheriff's Office Ambulance Fire Department LEPC (Local Emergency Planning Committee) NMOCD US Bureau of Land Management Carlsbad State Police City Police	392-5588 397-9265 393-2515 911 397-9308 393-2870 393-6161 393-3612 885-3137
Eddy County	City Police Sheriff's Office Ambulance Fire Department LEPC (Local Emergency Planning Committee) NMOCD US Bureau of Land Management Carlsbad State Police City Police	397-9265 393-2515 911 397-9308 393-2870 393-6161 393-3612 885-3137
Eddy County	Sheriff's Office Ambulance Fire Department LEPC (Local Emergency Planning Committee) NMOCD US Bureau of Land Management Carlsbad State Police City Police	393-2515 911 397-9308 393-2870 393-6161 393-3612 885-3137
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Eddy County	NMOCD US Bureau of Land Management Carlsbad State Police City Police	393-6161 393-3612 885-3137
Eddy County	US Bureau of Land Management Carlsbad State Police City Police	393-3612 885-3137
Eddy County	Carlsbad State Police City Police	885-3137
County	State Police City Police	
	City Police	
<u>(575)</u>	Sheriff's Office	
Γ		887-7551
Γ	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
Γ	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
-	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control (915) 699-0139	(915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
	Flight For Life - Lubbock, TX	(806) 743-9911
· · ·	Aerocare - Lubbock, TX	(806) 747-8923
· –	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	
F	TION - WEDSILE - WWW.IIIIC.IIOda.gov	

Prepared in conjunction with

Dave Small







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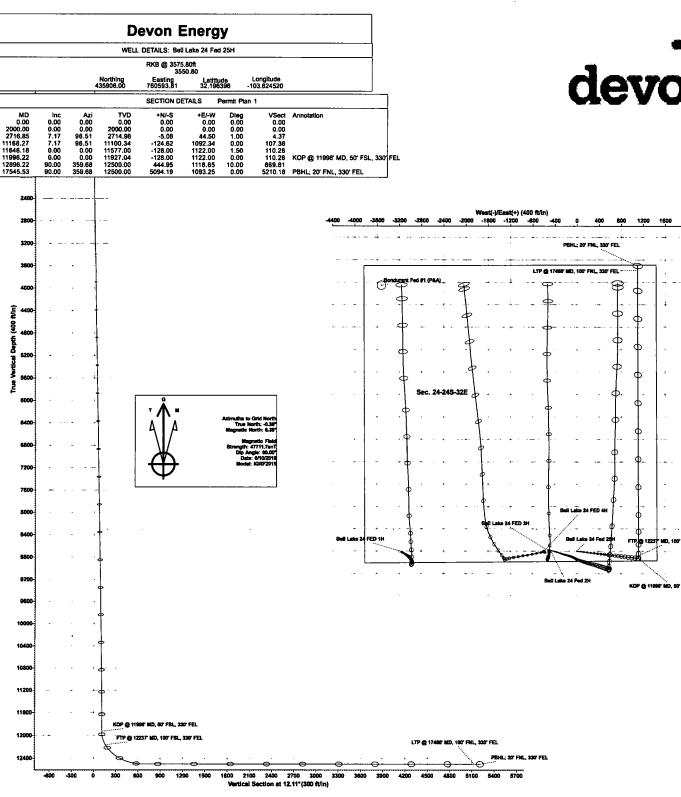
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WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 24-24S-32E Bell Lake 24 Fed 25H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

11 June, 2019

Database:					Local Co-	ordinate Refer	елсе	Well Bell Lake 2	4 Fed 25H	
Company:		SC Permian NI				/D Reference: RKB @ 3575.80ft				
Project:		County (NAD83		East)	MD Refer			RKB @ 3575.80		
Site:		4-24S-32E		,				Grid		
		ake 24 Fed 25	u		North Ref			Silu Minimum Curvat		
Nell:			п		Survey Ca	alculation Meti	100:	Minimum Curvai	ure	
Nellbore:		ore #1								
Design:	Permi	t Plan 1								
Project	Lea Co	ounty (NAD83 I	New Mexico E	ast)				· · ·		
Map System:		e Plane 1983			System Da	tum:	Me	an Sea Level		
Geo Datum:		nerican Datum								
Map Zone:	New Me	xico Eastern Z	one							
Site	Sec 24	-24S-32E	· · · ·							
Site Position:			Nort	hing:		-0.83 usft	Latitude:			30.98843
From:	Maj	p		—		-99.96 usft	Longitude:			-106.06114
Position Uncer					13-3/16 "	Grid Converg	ence:		-0.89	
Well	Bell Lai	ke 24 Fed 25H			-			· · · · · · · · · · · · · · · · · · ·		
Well Position	+N/-S			lorthing:		435,906.00	usft lati	tude:		32.19639
	+E/-W			Easting:		760,593.81		gitude:		-103.62452
Position Uncer			-	.asting. Vellhead Elevat	tion:			und Level:		3,550.80
Wellbore	Wellbo	ore #1	-		·					
Magnetics	Ma	odel Name	Sam	ple Date	Declina		Dip A	-		itrength
Magnetics	Ma	IGRF2015		6/10/2019	Declina (°)		Dip A (°	-	(1	itrength 1 T) 111.68315573
Magnetics	Ma					<u> </u>	-)	(1	л <u>т</u>)
Magnetics Design	Mo Permit	IGRF2015				<u> </u>	-)	(1	л <u>т</u>)
		IGRF2015				<u> </u>	-)	(1	л <u>т</u>)
Design Audit Notes:		IGRF2015		6/10/2019		6.76	-) 60.00	(1	л <u>т</u>)
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Design Audit Notes: Version:	Permit	IGRF2015 Plan 1	Pha Depth From (1 (ft)	6/10/2019 se: F	(°) PROTOTYPE	6.76 Tie +E	(° On Depth:) 60.00	(i 47,7 0.00	л <u>т</u>)
Design Audit Notes: Version:	Permit	IGRF2015 Plan 1	Pha Depth From (1	6/10/2019 se: F	(°) PROTOTYPE +N/-S	6.76 Tie +E	(° On Depth: /-W) 60.00	(i 47,7 0.00 action	л <u>т</u>)
Design Audit Notes: Version: Vertical Section	Permit	IGRF2015 Plan 1	Pha Depth From (1 (ft) 0.00	6/10/2019 se: F	(°) PROTOTYPE +N/-S (ft)	6.76 Tie +E	(° On Depth: /-W ti)) 60.00	(i 47,7 0.00 action (*)	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To	Permit n: pol Program	IGRF2015 Plan 1	Pha Depth From (1 (ft)	6/10/2019 se: F	(°) PROTOTYPE +N/-S (ft)	6.76 Tie +E	(° On Depth: /-W ti)) 60.00	(i 47,7 0.00 action (*)	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro	Permit n: Dol Program om Depti	IGRF2015 Plan 1 (Date h To	Pha Depth From (1 (ft) 0.00	6/10/2019 se: F	(°) PROTOTYPE +N/-S (ft)	6.76 Tie +E	(° On Depth: /-W ti)) 60.00	(i 47,7 0.00 action (*)	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft)	Permit n: col Program om Depti	IGRF2015 Plan 1 (Date h To ;) Survey	Pha Depth From (1 (ft) 0.00 6/10/2019	6/10/2019 se: F TVD)	(°) PROTOTYPE +N/-S (ft) 0.00. Tool Name	6.76 Tie +E (((* On Depth: /-W it) 00) 60.00	(i 47,7 0.00 action (*)	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro	Permit n: col Program om Depti	IGRF2015 Plan 1 (Date h To	Pha Depth From (1 (ft) 0.00 6/10/2019	6/10/2019 se: F TVD)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM	6.76 Tie +E (1	(* On Depth: /-W it) 00) 60.00	(i 47,7 0.00 action (*)	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft)	Permit n: col Program om Depti	IGRF2015 Plan 1 (Date h To ;) Survey	Pha Depth From (1 (ft) 0.00 6/10/2019	6/10/2019 se: F TVD)	(°) PROTOTYPE +N/-S (ft) 0.00. Tool Name	6.76 Tie +E (1	(* On Depth: /-W it) 00) 60.00	(i 47,7 0.00 action (*)	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft)	Permit n: col Program om Depti	IGRF2015 Plan 1 (Date h To ;) Survey	Pha Depth From (1 (ft) 0.00 6/10/2019	6/10/2019 se: F TVD)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM	6.76 Tie +E (1	(* On Depth: /-W it) 00) 60.00	(i 47,7 0.00 action (*)	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 Plan Sections	Permit n: col Program om Depti	IGRF2015 Plan 1 (Date h To ;) Survey	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb	6/10/2019 se: F TVD)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM	6.76 Tie +E ((0.	(° On Depth: /-W ît) 00 Remarks) 60.00 Dire	(i 47,7 0.00 action (*)	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 Plan Sections Measured	Permit n: col Program om Depti (fi 0.00 17,5	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb	6/10/2019 se: F TVD) ore #1)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD	6.76 Tie +E ((0.	(° On Depth: /-W ît) 00 Remarks) 60.00 Dire	() 47,7 0.00 action (°) 2.11	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth	Permit n: col Program om Depti (fi 0.00 17,5	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth	6/10/2019 se: F TVD) ore #1)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W	6.76 Tie +E ((0. 	(° On Depth: /-W ît) 00 Remarks Bulld Rate) 60.00 Dire 0. 12	() 47,7 0.00 action (°) 2.11	л <u>т</u>)
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft)	Permit n: ool Program om Depti (fi 0.00 17,5 (nclination (°)	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth (ft)	6/10/2019 se: F TVD) ore #1) +N/-S (ft)	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft)	6.76 Tie +E ((0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	On Depth: /-W ît) 00 Remarks Build Rate (°/100usft)) 60.00 Dire 1;	() 47,7 0.00 ection (°) 2.11 TFO (°)	אד) 11.68315573
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00	Permit n: bol Program om Depti (fi 0.00 17,5 0.00 17,5 inclination (°) 0.00	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit Azimuth (°) 0.00	Pha Depth From (1 (ft) 0.00 6/10/2019 f (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth (ft) 0.00	6/10/2019 se: F TVD) ore #1) +N/-S (ft) 0.00	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 0.00	6.76 Tie +E ((0. 0. 0. 0. 0. 0.00	On Depth: /-W ît) 00 Remarks Build Rate (°/100usft) 0.00) 60.00 Dire 1; 1;	() 47,7 0.00 ection (°) 2.11 TFO (°) 0.00	אד) 11.68315573
Design Audit Notes: Version: Vertical Section Plan Survey To (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00	Permit n: Dol Program om Depti (fi 0.00 17,5 Inclination (°) 0.00 0.00	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit Azimuth (°) 0.00 0.00	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth (ft) 0.00 2,000.00	6/10/2019 se: F TVD) ore #1) +N/-S (ft) 0.00 0.00	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00	6.76 Tie +E ((0. 0. 0. 0. 0. 0.00 0.00	(* On Depth: /-W ti) 00 Remarks Build Rate (*/100usft) 0.00 0.00) 60.00 Dire 1; 1; 1; (*/100usft) 0.00 0.00	((47,7 0.00 action (°) 2.11 TFO (°) 0.00 0.00	אד) 11.68315573
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,716.85	Permit n: bol Program om Depti (fi 0.00 17,5 0.00 17,5 inclination (°) 0.00	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit Azimuth (°) 0.00 0.00 96.51	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth (ft) 0.00 2,000.00 2,714.98	6/10/2019 se: F TVD) ore #1) +N/-S (ft) 0.00 0.00 0.00 -5.08	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00 0.00 44.50	6.76 Tie +E ((0. 0. 0. 0. 0. 0.00	(* On Depth: /-W t) 00 Remarks Build Rate (*/100usft) 0.00 0.00 1.00) 60.00 Dire 0.17 17 17 17 17 17 17 17 17 17 17 17 17 1	((47,7 0.00 action (°) 2.11 TFO (°) 0.00 0.00 96.51	אד) 11.68315573
Design Audit Notes: Version: Vertical Section Plan Survey To (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,716.85 11,168.27	Permit n: Dol Program Om Depti (fi 0.00 17; 0.00 17; 0.00 0.00 0.00 7.17 7.17	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit 545.53 Permit (°) 0.00 0.00 96.51 96.51	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth (ft) 0.00 2,000.00 2,714.98 11,100.34	6/10/2019 se: F TVD) ore #1) +N/-S (ft) 0.00 0.00	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00	6.76 Tie +E ((0. 0. 0. 0. 0. 0.00 0.00	(* On Depth: /-W ti) 00 Remarks Build Rate (*/100usft) 0.00 0.00) 60.00 Dire 1; 1; 1; (*/100usft) 0.00 0.00	((47,7 0.00 action (°) 2.11 TFO (°) 0.00 0.00	אד) 11.68315573
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,716.85	Permit n: Dol Program Om Depti (fi 0.00 17,5 Inclination (°) 0.00 0.00 7.17	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit Azimuth (°) 0.00 0.00 96.51	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth (ft) 0.00 2,000.00 2,714.98	6/10/2019 se: F TVD) ore #1) +N/-S (ft) 0.00 0.00 0.00 -5.08	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00 0.00 44.50	6.76 Tie +E ((0. 0. 0. 0. 0. 0. 0.00 0.00 1.00	(* On Depth: /-W t) 00 Remarks Build Rate (*/100usft) 0.00 0.00 1.00) 60.00 Dire 0.17 17 17 17 17 17 17 17 17 17 17 17 17 1	((47,7 0.00 action (°) 2.11 TFO (°) 0.00 0.00 96.51	אד) 11.68315573
Design Audit Notes: Version: Vertical Section Plan Survey To (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,716.85 11,168.27	Permit n: Dol Program Om Depti (fi 0.00 17; 0.00 17; 0.00 0.00 0.00 7.17 7.17	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit 545.53 Permit (°) 0.00 0.00 96.51 96.51	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth (ft) 0.00 2,000.00 2,714.98 11,100.34	6/10/2019 se: F TVD) ore #1) +N/-S (ft) 0.00 0.00 -5.08 -124.62	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00 44.50 1,092.34	6.76 Tie +E ((0. 0. 0. 0. 0.00 8ate (°/100usft) 0.00 0.00 1.00 0.00	(* On Depth: /-W ft) 00 Remarks Build Rate (*/100usft) 0.00 0.00 1.00 0.00) 60.00 Dire 0.01 12 12 12 12 12 12 12 12 12 12 12 12 12	(() 47,7 0.00 ection (°) 2.11 7FO (°) 0.00 0.00 96.51 0.00	אד) 11.68315573
Design Audit Notes: Version: Vertical Section Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,716.85 11,168.27 11,646.18	Permit n: col Program om Depti (fi 0.00 17,5 inclination (*) 0.00 0.00 7.17 7.17 0.00 0.00 0.00	IGRF2015 Plan 1 Date h To b) Survey 545.53 Permit 545.53 Permit 60.00 0.00 96.51 96.51 96.51 0.00	Pha Depth From (1 (ft) 0.00 6/10/2019 (Wellbore) Plan 1 (Wellb Plan 1 (Wellb Vertical Depth (ft) 0.00 2,000.00 2,714.98 11,100.34 11,577.00	6/10/2019 se: F TVD) ore #1) +N/-S (ft) 0.00 0.00 -5.08 -124.62 -128.00	(°) PROTOTYPE +N/-S (ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00 44.50 1,092.34 1,122.00	6.76 Tie +E ((0. 0. 0. 0. 0.00 Rate ('/100usft) 0.00 0.00 1.00 0.00 1.50	(* On Depth: /-W ft) 00 Remarks Build Rate (*/100usft) 0.00 0.00 1.00 0.00 1.00 0.00 -1.50) 60.00 Dire 0 12 12 12 12 12 12 12 12 12 12 12 12 12	(() 47,7 0.00 ection (°) 2.11 7FO (°) 0.00 0.00 96.51 0.00 180.00 0.00	אד) 11.68315573

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Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Bell Lake 24 Fed 25H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3575.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3575.80ft
Site:	Sec 24-24S-32E	North Reference:	Grid
Well:	Bell Lake 24 Fed 25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey

Me	asured			Vertical			Мар	Мар		
0	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
	0.00	0.00	0.00	0.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	100.00	0.00	0.00	100.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
}	200.00	0.00	0.00	200.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	300.00	0.00	0.00	300.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
1	400.00	0.00	0.00	400.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	500.00	0.00	0.00	500.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
1	600.00	0.00	0.00	600.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	700.00	0.00	0.00	700.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	800.00	0.00	0.00	800.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	900.00	0.00	0.00	900.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,000.00	0.00	0.00	1,000.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,100.00	0.00	0.00	1,100.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,200.00	0.00	0.00	1,200.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,300.00	0.00	0.00	1,300.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,400.00	0.00	0.00	1,400.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,500.00	0.00	0.00	1,500.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,600.00	0.00	0.00	1,600.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,700.00	0.00	0.00	1,700.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,800.00	0.00	0.00	1,800.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	1,900.00	0.00	0.00	1,900.00	0.00	. 0.00	435,906.00	760,593.81	32.196396	-103.624521
	2,000.00	0.00	0.00	2,000.00	0.00	0.00	435,906.00	760,593.81	32.196396	-103.624521
	2,100.00	1.00	96.51	2,099.99	-0.10	0.87	435,905.90	760,594.67	32.196396	-103.624518
	2,200.00	2.00	96.51	2,199.96	-0.40	3.47	435,905.60	760,597.27	32.1 9 6395	-103.624510
	2,300.00	3.00	96.51	2,299.86	-0.89	7.80	435,905.11	760,601.61	32.196394	-103.624496
	2,400.00	4.00	96.51	2,399.68	-1.58	13.87	435,904.42	760,607.67	32.196392	-103.624476
	2,500.00	5.00	96.51	2,499.37	-2.47	21.66	435,903.53	760,615.47	32.196389	-103.624451
	2,600.00	6.00	96.51	2,598.90	-3.56	31.18	435,902.44	760,624.99	32.196386	-103.624420
	2,700.00	. 7.00	96.51	2,698.26	-4.84	42.43	435,901.16	760,636,24	32.196382	-103.624384
1	2,716.85	7.17	96.51	2,714.98	-5.08	44.50	435,900.92	760,638.30	32.196382	-103.624377
	2,800.00	7.17	96.51	2,797.48	-6.25	54.81	435,899.75	760,648.61	32.196378	-103.624344
	2,900.00	7.17	96.51	2,896.70	-7.67	67.20	435,898.33	760,661.01	32.196374	-103.624304
	3,000.00	7.17	96.51	2,995.92	-9.08	79.60	435,896.92	760,673.41	32.196370	-103.624264
	3,100.00	7.17	96.51	3,095.14	-10.50	92.00	435,895.50	760,685.81	32.196366	-103.624224
1	3,200.00	7.17	96.51	3,194.35	-11.91	104.40	435,894.09	760,698.21	32.196362	-103.624184
	3,300.00	7.17	96.51	3,293.57	-13.32	116.80	435,892.68	760,710.60	32.196358	-103.624143
	3,400.00	7.17	96.51	3,392.79	-14.74	129.20	435,891.26	760,723.00	32.196354	-103.624103
	3,500.00	7.17	96.51	3,492.01	-16.15	141.59	435,889.85	760,735.40	32.196349	-103.624063
	3,600.00	7.17	96.51	3,591.23	-17.57	153.99	435,888.43	760,747.80	32.196345	-103.624023
1	3,700.00	7.17	96.51	3,690.45	-18.98	166.39	435,887.02	760,760.20	32.196341	-103.623983
	3,800.00	7.17	96.51	3,789.66	-20.40	178.79	435,885.60	760,772.60	32.196337	-103.623943
	3,900.00	7.17	96.51	3,888.88	-21.81	191.19	435,884.19	760,784.99	32.196333	-103.623903
	4,000.00	7.17	96.51	3,988.10	-23.23	203.59	435,882.77	760,797.39	32.196329	-103.623863
1	4,100.00	7.17	96.51	4,087.32	-24.64	215.98	435,881.36	760,809.79	32.196325	-103.623823
	4,200.00	7.17	96.51	4,186.54	-26.05	228.38	435,879.95	760,822.19	32.196321	-103.623783
1	4,300.00	7.17	96.51	4,285.76	-27.47	240.78	435,878.53	760,834.59	32.196317	-103.623743
	4,400.00	7.17	96.51	4,384.97	-28.88	253.18	435,877.12	760,846.99	32.196312	-103.623703
	4,500.00	7.17	96.51	4,484.19	-30.30	265.58	435,875.70	760,859.38	32.196308	-103.623663
	4,600.00	7.17	96.51	4,583.41	-31.71	277.98	435,874.29	760,871.78	32.196304	-103.623623
	4,700.00	7.17	96.51	4,682.63	-33.13	290.37	435,872.87	760,884.18	32.196300	-103.623583
1	4,800.00	7.17	96.51	4,781.85	-34.54	302.77	435,871.46	760,896.58	32.196296	-103.623543
1	4,900.00	7.17	96.51	4,881.07	-35.96	315.17	435,870.04	760,908.98	32.196292	-103.623503
	5,000.00	7.17	96.51	4,980.29	-37.37	327.57	435,868.63	760,921.38	32.196288	-103.623463
1	5,100.00	7.17	96.51	5,079.50	-38.78	339.97	435,867.22	760,933.77	32.196284	-103.623423
	5,200.00	7.17	96.51	5,178.72	-40.20	352.37	435,865.80	760,946.17	32.196280	-103.623383

6/11/2019 8:36:55AM

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Bell Lake 24 Fed 25H	
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3575.80ft	
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3575.80ft	
Site:	Sec 24-24S-32E	North Reference:	Grid	
Well:	Bell Lake 24 Fed 25H	Survey Calculation Method:	Minimum Curvature	
Wellbore:	Wellbore #1			
Design:	Permit Plan 1			

Planned Survey

Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
5,300.00	7.17	96.51	5,277.94	-41.61	364.77	435,864.39	760,958.57	32.196275	-103.623343
5,400.00	7.17	96.51	5,377.16	-43.03	377.16	435,862.97	760,970.97	32.196271	-103.623302
5,500.00) 7.17	96.51	5,476.38	-44.44	389.56	435,861.56	760,983.37	32.196267	-103.623262
5,600.00) 7.17	96.51	5,575.60	-45.86	401.96	435,860.14	760,995.77	32.196263	-103.623222
5,700.00) 7.17	96.51	5,674.81	-47.27	414.36	435,858.73	761,008.16	32.196259	-103.623182
5,800.00) 7.17	96.51	5,774.03	-48.69	426.76	435,857.31	761,020.56	32.196255	-103.623142
5,900.00) 7.17	96.51	5,873.25	-50.10	439.16	435,855.90	761,032.96	32.196251	-103.623102
6,000.00	7.17	96.51	5,972.47	-51.51	451.55	435,854.49	761,045.36	32.196247	-103.623062
6,100.00	7.17	96.51	6,071.69	-52.93	463.95	435,853.07	761,057.76	32.196243	-103.623022
6,200.00	7.17	96.51	6,170.91	-54.34	476.35	435,851.66	761,070.16	32.196238	-103.622982
6,300.00) 7.17	96.51	6,270.12	-55.76	488.75	435,850.24	761,082.55	32.196234	-103.622942
6,400.00		96.51	6,369.34	-57.17	501.15	435,848.83	761,094.95	32.196230	-103.622902
6,500.00) 7.17	96.51	6,468.56	-58.59	513.55	435,847.41	761,107.35	32.196226	-103.622862
6,600.00		96.51	6,567.78	-60.00	525.94	435,846.00	761,119.75	32.196222	-103.622822
6,700.00		96.51	6,667.00	-61.42	538.34	435,844.58	761,132.15	32.196218	-103.622782
6,800.00		96.51	6,766.22	-62.83	550.74	435,843.17	761,144.55	32.196214	-103.622742
6,900.00		96.51	6,865.43	-64.24	563.14	435,841.76	761,156.94	32.196210	-103.622702
7,000.00		96.51	6,964.65	-65.66	575.54	435,840.34	761,169.34	32.196205	-103.622662
7,100.00		96.51	7,063.87	-67.07	587.94	435,838,93	761,181.74	32.196201	-103.622622
7,200.00		96.51	7,163.09	-68.49	600.33	435,837.51	761,194.14	32.196197	-103.622582
7,300.00		96.51	7,262.31	-69.90	612.73	435.836.10	761,206.54	32.196193	-103.622542
7,400.00		96.51	7,361.53	-71.32	625.13	435,834.68	761,218.94	32.196189	-103.622501
7,500.00		96.51	7,460.74	-72.73	637.53	435,833.27	761,231.33	32.196185	-103.622461
7,600.00		96.51	7,559.96	-74.15	649.93	435,831.85	761,243.73	32.196181	-103.622421
7,700.00		96.51	7,659.18	-75.56	662.33	435,830.44	761,256.13	32.196177	-103.622381
7,800.00		96.51	7,758.40	-76.97	674.72	435,829.03	761,268.53	32.196173	-103.622341
7,900.00		96.51	7,857.62	-78.39	687.12	435,827.61	761,280.93	32.196168	-103.622301
8,000.00		96.51	7,956.84	-79.80	699.52	435,826.20	761,293.33	32.196164	-103.622261
8,100.00		96.51	8,056.05	-81.22	711.92	435,824.78	761,305.73	32.196160	-103.622221
8,200.00		96.51	8,155.27	-82.63	724.32	435,823.37	761,318.12	32.196156	-103.622181
8,300.00		96.51	8,254.49	-84.05	736.72	435,821.95	761,330.52	32.196150	-103.622141
8,400.00		96.51	8,353.71	-85.46	749.11	435,820.54	761,342.92	32.196152	-103.622101
8,500.00		96.51	8,452.93	-86.87	749.11	435,820.54	761,355.32	32.196146	-103.622061
8,600.00		96.51	8,552.15	-88.29	773.91	435,819.13	761,367.72	32.196144	-103.622021
8,700.00		96.51	8,651.36	-89.70	786.31	435,817.71	761,380.12	32.196136	-103.621981
8,800.00		96.51	8,750.58	-09.70 -91.12	788.71	435,814.88	761,392.51	32.196130	-103.621981
8,900.00		96.51	8,750.56 8,849.80	-91.12	811.11	435,813.47	761,404.91	32.196127	-103.621901
9,000.00		96.51	8,949.00 8,949.02	-92.55	823.50	435,812.05	761,404.91	32.196123	-103.621861
-			9,048.24		835.90			32.196123	
9,100.00		96.51		-95.36		435,810.64	761,429.71		-103.621821
9,200.00 9,300.00		96.51	9,147.46 0.246.67	-96.78 -98.19	848.30 860.70	435,809.22	761,442.11	32.196115 32.196111	-103.621781
		96.51	9,246.67			435,807.81	761,454.51		-103.621741
9,400.00		96.51	9,345.89	-99.60	873.10	435,806.40	761,466.90	32.196107	-103.621701
9,500.00		96.51	9,445.11	-101.02	885.50	435,804.98	761,479.30	32.196103	-103.621660
9,600.00		96.51	9,544.33	-102.43	897.89	435,803.57	761,491.70	32.196099	-103.621620
9,700.00		96.51	9,643.55	-103.85	910.29	435,802.15	761,504.10	32.196094	-103.621580
9,800.00		96.51	9,742.77	-105.26	922.69	435,800.74	761,516.50	32.196090	-103.621540
9,900.00		96.51	9,841.98	-106.68	935.09	435,799.32	761,528.90	32.196086	-103.621500
10,000.00		96.51	9,941.20	-108.09	947.49	435,797.91	761,541.29	32.196082	-103.621460
10,100.00		96.51	10,040.42	-109.51	959.89	435,796.49	761,553.69	32.196078	-103.621420
10,200.00		96.51	10,139.64	-110.92	972.29	435,795.08	761,566.09	32.196074	-103.621380
10,300.00		96.51	10,238.86	-112.33	984.68	435,793.67	761,578.49	32.196070	-103.621340
10,400.00		96.51	10,338.08	-113.75	997.08	435,792.25	761,590.89	32.196066	-103.621300
10,500.00	7.17	96.51	10,437.29	-115.16	1,009.48	435,790.84	761,603.29	32.196062	-103.621260
10,600.00	7.17	96.51	10,536.51	-116.58	1,021.88	435,789.42	761,615.68	32.196057	-103.621220

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Bell Lake 24 Fed 25H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3575.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3575.80ft
Site:	Sec 24-24S-32E	North Reference:	Grid
Well:	Bell Lake 24 Fed 25H	Survey Calculation Method:	Minimum Curvature
Nellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey

Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
10,700.00		96.51	10,635.73	-117.99	1,034.28	435,788.01	761,628.08	32.196053	-103.62118
10,800.00		96.51	10,734.95	-119.41	1,046.68	435,786.59	761,640.48	32.196049	-103.62114
10,900.00		96.51	10,834.17	-120.82	1,059.07	435,785.18	761,652.88	32.196045	-103.62110
11,000.00		96.51	10,933.39	-122.24	1,071.47	435,783.76	761,665.28	32.196041	-103.62106
11,100.00		96.51	11,032.60	-123.65	1,083.87	435,782.35	761,677.68	32.196037	-103.62102
11,168.27		96.51	11,100.34	-124.62	1,092.34	435,781.38	761,686.14	32.196034	-103.62099
11,200.00		96.51	11,131.84	-125.05	1,096.14	435,780.95	761,689.94	32.196033	-103.62098
11,300.00		96.51	11,231.30	-126.22	1,106.43	435,779.78	761,700.23	32.196029	-103.62094
11,400.00		96.51	11,331.00	-127.10	1,114.12	435,778.90	761,707.93	32.196027	-103.62092
11,500.00		96.51	11,430.86	-127.68	1,119.22	435,778.32	761,713.03	32.196025	-103.62090
11,600.00		96.51	11,530.83	-127.97	1,121.72	435,778.03	761,715.53	32.196024	-103.62089
11,646.18		0.00	11,577.00	-128.00	1,122.00	435,778.00	761,715.80	32.196024	-103.62089
11,700.00		0.00	11,630.82	-128.00	1,122.00	435,778.00	761,715.80	32.196024	-103.62089
11,800.00		0.00	11,730.82	-128.00	1,122.00	435,778.00	761,715.80	32.196024	-103.62089
11,900.00		0.00	11,830.82	-128.00	1,122.00	435,778.00	761,715.80	32.196024	-103.62089
11,996.22		0.00	11,927.04	-128.00	1,122.00	435,778.00	761,715.80	32.196024	-103.62089
	11996' MD, 50'			120.00	1,122.00	400,110.00	/01,/10.00	02.100024	100.02000
-		359.68	11,930.82	-127.99	1,122.00	435.778.01	761 715 90	32.196024	102 62090
12,000.00 12,100.00		359.68	12,030.26	-127.99	1,122.00	435,778.01	761,715.80 761,715.75	32.196050	-103.62089 -103.62089
		359.68		-118.83		•			-103.62089
12,200.00		359.68	12,126.56		1,121.80	435,813.86	761,715.61	32.196123	
12,237.36			12,161.13	-78.00	1,121.72	435,828.00	761,715.53	32.196162	-103.62089
-	2237' MD, 100								
12,300.00		359.68	12,216.79	-49.34	1,121.57	435,856.66	761,715.37	32.196240	-103.62089
12,400.00		359.68	12,298.22	8.49	1,121.25	435,914.49	761,715.05	32.196399	-103.62089
12,500.00		359.68	12,368.37	79.57	1,120.86	435,985.57	761,714.66	32.196595	-103.62089
12,600.00		359.68	12,425.12	161.76	1,120.40	436,067.76	761,714.21	32.196821	-103.62089
12,700.00		359.68	12,466.73	252.55	1,119.91	436,158.55	761,713.71	32.197070	-103.62089
12,800.00		359.68	12,491.94	349.19	1,119.37	436,255.18	761,713.18	32.197336	-103.62089
12,896.22		359.68	12,500.00	444.95	1,118.85	436,350.95	761,712.65	32.197599	-103.62089
12,900.00		359.68	12,500.00	448.73	1,118.83	436,354.73	761,712.63	32.197610	-103.62089
13,000.00		359.68	12,500.00	548.73	1,118.27	436,454.73	761,712.08	32.197884	-103.62089
13,100.00		359.68	12,500.00	648.73	1,117.72	436,554.73	761,711.53	32.198159	-103.62089
13,200.00		359.68	12,500.00	748.73	1,117.17	436,654.73	761,710.98	32.198434	-103.62089
13,300.00		359.68	12,500.00	848.73	1,116.62	436,754.72	761,710.43	32.198709	-103.62089
13,400.00		359.68	12,500.00	948.73	1,116.07	436,854.72	761,709.88	32.198984	-103.62089
13,500.00		359.68	12,500.00	1,048.72	1,115.52	436,954.72	761,709.33	32.199259	-103.62089
13,600.00		359.68	12,500.00	1,148.72	1,114.97	437,054.72	761,708.78	32.199534	-103.62089
13,700.00		359.68	12,500.00	1,248.72	1,114.42	437,154.72	761,708.23	32.199809	-103.62089
13,800.00		359.68	12,500.00	1,348.72	1,113.87	437,254.72	761,707.68	32.200083	-103.62089
13,900.00		359.68	12,500.00	1,448.72	1,113.32	437,354.71	761,707.13	32.200358	-103.62089
14,000.00		359.68	12,500.00	1,548.72	1,112.77	437,454.71	761,706.57	32.200633	-103.62089
14,100.00		359.68	12,500.00	1,648.71	1,112.22	437,554.71	761,706.02	32.200908	-103.62089
14,200.00		359.68	12,500.00	1,748.71	1,111.67	437,654.71	761,705.47	32.201183	-103.62089
14,300.00		359.68	12,500.00	1,848.71	1,111.12	437,754.71	761,704.92	32.201458	-103.62088
14,400.00		359.68	12,500.00	1,948.71	1,110.57	437,854.71	761,704.37	32.201733	-103.62088
14,500.00		359.68	12,500.00	2,048.71	1,110.02	437,954.70	761,703.82	32.202008	-103.62088
14,600.00		359.68	12,500.00	2,148.71	1,109.47	438,054.70	761,703.27	32.202282	-103.62088
14,700.00		359.68	12,500.00	2,248.71	1,108.92	438,154.70	761,702.72	32.202557	-103.62088
14,800.00		359.68	12,500.00	2,348.70	1,108.37	438,254.70	761,702.17	32.202832	-103.62088
14,900.00		359.68	12,500.00	2,448.70	1,107.82	438,354.70	761,701.62	32.203107	-103.62088
15,000.00	90.00	359.68	12,500.00	2,548.70	1,107.26	438,454.70	761,701.07	32.203382	-103.62088
15,100.00	90.00	359.68	12,500.00	2,648.70	1,106.71	438,554.69	761,700.52	32.203657	-103.62088
15,200.00	90.00	359.68	12,500.00	2,748.70	1,106.16	438,654.69	761,699.97	32.203932	-103.62088

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Bell Lake 24 Fed 25H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3575.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3575.80ft
Site:	Sec 24-24S-32E	North Reference:	Grid
Well:	Bell Lake 24 Fed 25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey

Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(*)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
15,300.00	90.00	359.68	12,500.00	2,848.70	1,105.61	438,754.69	761,699.42	32.204207	-103.62088
15,400.00	90.00	359.68	12,500.00	2,948.69	1,105.06	438,854.69	761,698.87	32.204481	-103.62088
15,500.00	90.00	359.68	12,500.00	3,048.69	1,104.51	438,954.69	761,698.32	32.204756	-103.62088
15,600.00	90.00	359.68	12,500.00	3,148.69	1,103.96	439,054.69	761,697.77	32.205031	-103.62088
15,700.00	90.00	359.68	12,500.00	3,248.69	1,103.41	439,154.68	761,697.22	32.205306	-103.62088
15,800.00	90.00	359.68	12,500.00	3,348.69	1,102.86	439,254.68	761,696.67	32.205581	-103.62088
15,900.00	90.00	359.68	12,500.00	3,448.69	1,102.31	439,354.68	761,696.12	32.205856	-103.62088
16,000.00	90.00	359.68	12,500.00	3,548.69	1,101.76	439,454.68	761,695.56	32.206131	-103.62088
16,100.00	90.00	359.68	12,500.00	3,648.68	1,101.21	439,554.68	761,695.01	32.206406	-103.62088
16,200.00	90.00	359.68	12,500.00	3,748.68	1,100.66	439,654.68	761,694.46	32.206680	-103.62088
16,300.00	90.00	359.68	12,500.00	3,848.68	1,100.11	439,754.67	761,693.91	32.206955	-103.62088
16,400.00	90.00	359.68	12,500.00	3,948.68	1,099.56	439,854.67	761,693.36	32.207230	-103.62088
16,500.00	90.00	359.68	12,500.00	4,048.68	1,099.01	439,954.67	761,692.81	32.207505	-103.62088
16,600.00	90.00	359.68	12,500.00	4,148.68	1,098.46	440,054.67	761,692.26	32.207780	-103.62088
16,700.00	90.00	359.68	12,500.00	4,248.68	1,097.91	440,154.67	761,691.71	32.208055	-103.62088
16,800.00	90.00	359.68	12,500.00	4,348.67	1,097.36	440,254.66	761,691.16	32.208330	-103.62088
16,900.00	90.00	359.68	12,500.00	4,448.67	1,096.81	440,354.66	761,690.61	32.208605	-103.62088
17,000.00	90.00	359.68	12,500.00	4,548.67	1,096.26	440,454.66	761,690.06	32.208879	-103.62088
17,100.00	90.00	359.68	12,500.00	4,648.67	1,095.70	440,554.66	761,689.51	32.209154	-103.62087
17,200.00	90.00	359.68	12,500.00	4,748.67	1,095.15	440,654.66	761,688.96	32.209429	-103.62087
17,300.00	90.00	359.68	12,500.00	4,848.67	1,094.60	440,754.66	761,688.41	32.209704	-103.62087
17,400.00	90.00	359.68	12,500.00	4,948.66	1,094.05	440,854.65	761,687.86	32.209979	-103.62087
17,465.53	90.00	359.68	12,500.00	5,014.19	1,093.69	440,920.18	761,687.50	32.210159	-103.62087
LTP @ 1	7466' MD, 100	' FNL, 330' FE	EL						
17,500.00	90.00	359.68	12,500.00	5,048.66	1,093.50	440,954.65	761,687.31	32.210254	-103.62087
17,545.52	90.00	359.68	12,500.00	5,094.18	1,093.25	441,000.17	761,687.06	32.210379	-103.62087
PBHL: 2	0' FNL, 330' FI	EL							
17.545.53	90.00	359.68	12,500.00	5.094.19	1.093.25	441,000.18	761,687,06	32.210379	-103.62087

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Bell Lake 24 Fec - plan misses target - Point		0.00 0.18ft at 0.00	0.00 ft MD (0.00	5,094.19 TVD, 0.00 N,	1,093.25 0.00 E)	441,000.18	761,687.06	32.210379	-103.620878

Plan Annotations

Measured	Measured Vertical Local Coordinates		dinates		
Depth	Depth	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)	Comment	
11,996.22	11,927.04	-128.00	1,122.00	KOP @ 11996' MD, 50' FSL, 330' FEL	
12,237.36	12,161.13	-78.00	1,121.72	FTP @ 12237' MD, 100' FSL, 330' FEL	
17,465.53	12,500.00	5,014.19	1,093.69	LTP @ 17466' MD, 100' FNL, 330' FEL	
17,545.52	12,500.00	5,094.18	1,093.25	PBHL; 20' FNL, 330' FEL	



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400045244

Submission Date: 08/05/2019

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELL LAKE 24 FED

Well Type: OIL WELL

Well Number: 25H Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N
Produced Water Disposal (PWD) Location:
PWD surface owner:
Lined pit PWD on or off channel:
Lined pit PWD discharge volume (bbl/day):
Lined pit specifications:
Pit liner description:
Pit liner manufacturers information:
Precipitated solids disposal:
Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

PWD disturbance (acres):

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELL LAKE 24 FED

Well Number: 25H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELL LAKE 24 FED

Well Number: 25H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELL LAKE 24 FED

Well Number: 25H

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Other PWD type description:

Other PWD type attachment:

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Have other regulatory requirements been met?

Other regulatory requirements attachment:



Well Number: 25H

Well Work Type: Drill

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Bond Information

Well Type: OIL WELL

Well Name: BELL LAKE 24 FED

Federal/Indian APD: FED BLM Bond number: NMB000801

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: