Form 3160-3 (June 2015) DEPARTMENT OF THE BUREAU OF LAND MAN APPLICATION FOR PERMIT TO I	ES	HOBBS (FEB 1 0	2000	FORM APPR OMB No. 100 Expires: January 5. Lease Serial No. NMNM116574 6. If Indian, Allotee or Tri	4-0137 31, 2018
1a. Type of work: Image: DRILL Image: Brain Bra	REENTER Other Single Zone [Multiple Zone		7. If Unit or CA Agreemer 8. Lease Name and Well N BELL LAKE 24 FED 19H	
 Name of Operator DEVON ENERGY PRODUCTION COMPANY LP 6/3 3a. Address 333 West Sheridan Avenue Oklahoma City OK 73102 Location of Well (Report location clearly and in accordance At surface SWSW / 197 FSL / 1211 FWL / LAT 32.19 	3b. Phone N (800)583-30 with any State 96437 / LONG	requirements.*) -103.632958	\sim	9: API-Well No. 10: Field and Pool, or Exp WO-025 G-09: \$263416 11: Sec., T. R. M. or Bik. SEC 24: T245. R32E /	B / UPPER WOLF
At proposed prod. zone NENW / 20 FNL / 2310 FWL / L 14. Distance in miles and direction from nearest town or post of 15. Distance from proposed* 197 feet property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, 550 feet applied for on this lease ft	ffice* 16. No of ac 680 19. Propose	res in lease	17. Specii 160 20/BLM/	12. County or Parish LEA In Unit dedicated to this we BIA Bond No. in file	13. State NM
applied for, on this lease, ft. 550 feet 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3575 feet The following, completed in accordance with the requirements (as applicable)	22. Approxi 09/30/2020 24. Attac	hments	start*	1B000801 23. Estimated duration 45 days Hydraulic Fracturing rule pe	r 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office 	æ)	Item 20 above). 5. Operator certifi	cation.	is unless covered by an exist mation and/or plans as may b Date	
25. Signature (Electronic Submission) Title Regulatory Compliance Professional Approved by (Signature)	Rebea	cca Deal / Ph: (405 (Printed/Typed)) 07/3 Date	
(Electronic Submission) Title Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applica applicant to conduct operations thereon. Conditions of approval, if any, are attached.	Office	SBAD		I	9/2020 would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statements SCP Rec orleo/2020	s or representat		r within its	jurisdiction.	

2.1

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM116574
WELL NAME & NO.:	Bell Lake 24 Fed 019H
SURFACE HOLE FOOTAGE:	197'/S & 1211'/W
BOTTOM HOLE FOOTAGE	20'N & 2310'/W
LOCATION:	Section 24, T.24 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico



H2S	• Yes	C No	
Potash	• None	C Secretary	C R-111-P
Cave/Karst Potential	د Low		€ High
Cave/Karst Potential	Critical		
Variance	None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	🕫 Both
Other	☐4 String Area	Capitan Reef	T WIPP
Other	Fluid Filled	Cement Squeeze	
Special Requirements	☐ Water Disposal	ГСОМ	Г Unit

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 8 hours 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. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.

- 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.

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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

- 1. 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

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



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: 07/31/2019
Title: Regulatory Compliance	Professional	
Street Address: 333 West She	eridan Avenue	
City: Oklahoma City	State: OK	Zip: 73102
Phone: (405)228-8429		
Email address: Rebecca.Dea	@dvn.com	
Field Representa	tive	
Representative Name:		
Street Address: 333 W. Sheri	dan Ave	

City: OKC State: OK Phone: (405)552-6556

Zip: 73102

Email address: blake.richardson@dvn.com

WAFMSS U.S. Department of the Interior BUREAU OF LAND MANAGEMENT	Applie	cation Data Report 02/06/2020
APD ID: 10400045047	Submission Date: 07/31/20)19
Operator Name: DEVON ENERGY PROD	DUCTION COMPANY LP	
Well Name: BELL LAKE 24 FED	Well Number: 19H	Show Final Text
Well Type: OIL WELL	Well Work Type: Drill	
Section 1 - General		
APD ID: 10400045047	Tie to previous NOS? N	Submission Date: 07/31/2019
BLM Office: CARLSBAD		le: Regulatory Compliance
Federal/Indian APD: FED	Pro Is the first lease penetrated for production	ofessional n Federal or Indian? FED
Lease number: NMNM116574	Lease Acres: 680	
Surface access agreement in place?	Allotted? Reservation:	
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? Y		
Permitting Agent? NO	APD Operator: DEVON ENERGY PROD	UCTION COMPANY LP
Operator letter of designation:		

Operator Info

O	perator Ord	aaniza	ation I	Name:	DEVON	ENERGY	PRODUC	CTION (COMPANY LP
~		901							

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: Master Drilling Plan name: Well Number: 19H

Zip: 73102

Field Name: WC-025 G-09 S263416B Well API Number:

Pool Name: UPPER WOLFCAMP Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

ls the	e prop	osed	well	in a ⊦	lelium	n prod	uctio	n area?	N Us	se Existing	Well F	Pad? N		Ne	ew surfac	e dist	urban	ce?	
Туре	of W	'ell Pa	d: MI	JLTIF	PLE W	/ELL				ultiple Wel		lame: E	3ell	N	umber: 3				
Well	Class	s: HOI	rizo	NTAL						ike 24 Wel umber of L									
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Well	Туре	: OIL '	WEL	L															
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Desc	ribe s	sub-ty	pe:																
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Rese	ervoir	well s	pacir	ng ass	signed	d acre	s Me	asurem	ent: 160 A	cres									
Well	plat:	В	ELL_	LAKE	E_24_	FED_	019	H_C_10	2_2019073	ر. 31073532	odf								
Well	work	start	Date:	09/3	0/202	0			Di	uration: 45	DAYS								
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Desc	ribe S	Survey	у Тур	e:														·	
Datu	m: N/	AD83							Ve	ertical Datu	m: NA	VD88							
Surve	ey nu	mber:							Re	eference D	atum: (GROUI		/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	MD	ТЛ	Will this well produce from this lease?
SHL Leg #1	197	FSL	121 1	FW L	24S	32E	24	1	32.19643 7	- 103.6329 58	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 116574		0	0	Y
KOP Leg #1	50	FSL	231 0	FW L	24S	32E	24	Aliquot SESW	32.19601 3	- 103.6294 09	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 116574	- 835 2	119 94	119 27	Y
PPP Leg #1-1	100	FSL	231 0	FW L	24S	32E	24	Aliquot SESW	32.19617 6	- 103.6294 06	LEA		NEW MEXI CO	F	NMNM 116574	- 858 6	122 35	121 61	Y

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Well Name: BELL LAKE 24 FED

Well Number: 19H

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	QVT	Will this well produce from this lease?
EXIT Leg #1	100	FNL	231 0	FW L	24S	32E	24	Aliquot NENW	32.21018 1	- 103.6293 74	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 116574	- 892 5	174 75	125 00	Y
BHL Leg #1	20	FNL	231 0	FW L	24S	32E	24 ·	Aliquot NENW	32.21040 1	- 103.6293 73	LEA	1	NEW MEXI CO	F	NMNM 116574	- 892 5	175 55	125 00	Y



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

1.55

APD ID: 10400045047

Submission Date: 07/31/2019

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BELL LAKE 24 FED

Well Number: 19H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
505777	_	3576	0	0	OTHER : SURFACE	NONE	N
505778	RUSTLER	2400	1176	1176	ANHYDRITE	NONE	N
505779	SALADO	2076	1500	1500	SALT	NONE	N
505780	BASE OF SALT	-1400	4976	4976	SANDSTONE	NATURAL GAS, OIL	N
505781	BELL CANYON	-1439	5015	5015	SANDSTONE	NATURAL GAS, OIL	N
505782	CHERRY CANYON	-2369	5945	5945	SANDSTONE	NATURAL GAS, OIL	N
505783	BRUSHY CANYON	-3885	7461	7461	SANDSTONE	NATURAL GAS, OIL	N
505784	BONE SPRING LIME	-5341	8917	8917	LIMESTONE	NONE	N
505785	BONE SPRING 1ST	-6448	10024	10024	SANDSTONE	NATURAL GAS, OIL	N
505786	BONE SPRING 2ND	-7013	10589	10589	SANDSTONE	NATURAL GAS	N
505787	BONE SPRING 3RD	-8309	11885	11885	SANDSTONE	NATURAL GAS, OIL	N
505788	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: 19H

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	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	ΑΡΙ	N	0	1201	0	1201	3575	2374	1201	H-40	48	ST&C	1.12 5	1	BUOY	1.6	BUOY	1.6
_	INTERMED IATE	9.87 5	7.625	NEW	ΑΡΙ	N	0	10790	0	10790	3576	-7215	10790	P- 110		OTHER - FLUSHMAX III	1.12 5	1	BUOY	1.6	BUOY	1.6
-	PRODUCTI ON	6.75	5.5	NEW	ΑΡΙ	N	0	17555	0	12500	3576	-8925	17555	P- 110			1.12 5	1	BUOY	1.6	BUOY	1.6

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP Well Name: BELL LAKE 24 FED Well Number: 19H

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: 19H

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	9994	1199 4	59	3.27	9	191.9	25	TUNED	Class C + adds
PRODUCTION	Tail	1199 4	1755 5	355	1.44	13.2	511	25	H	(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

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

Well Name: BELL LAKE 24 FED

Well Number: 19H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (łbs/cu ft)	Gel Strength (Ibs/100 sqft)	H	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1201	1079 0	SALT SATURATED	10	10.5				2			
1079 0	1755 5	OIL-BASED 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_019H_20190731075340.pdf

Well Name: BELL LAKE 24 FED

Well Number: 19H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Devon_Bell_Lake_24_Fed_19H_Plot_Permit_Plan_1_20190731075356.pdf Devon_Bell_Lake_24_Fed_19H_Dir_Svy_20190731075356.pdf

Other proposed operations facets description:

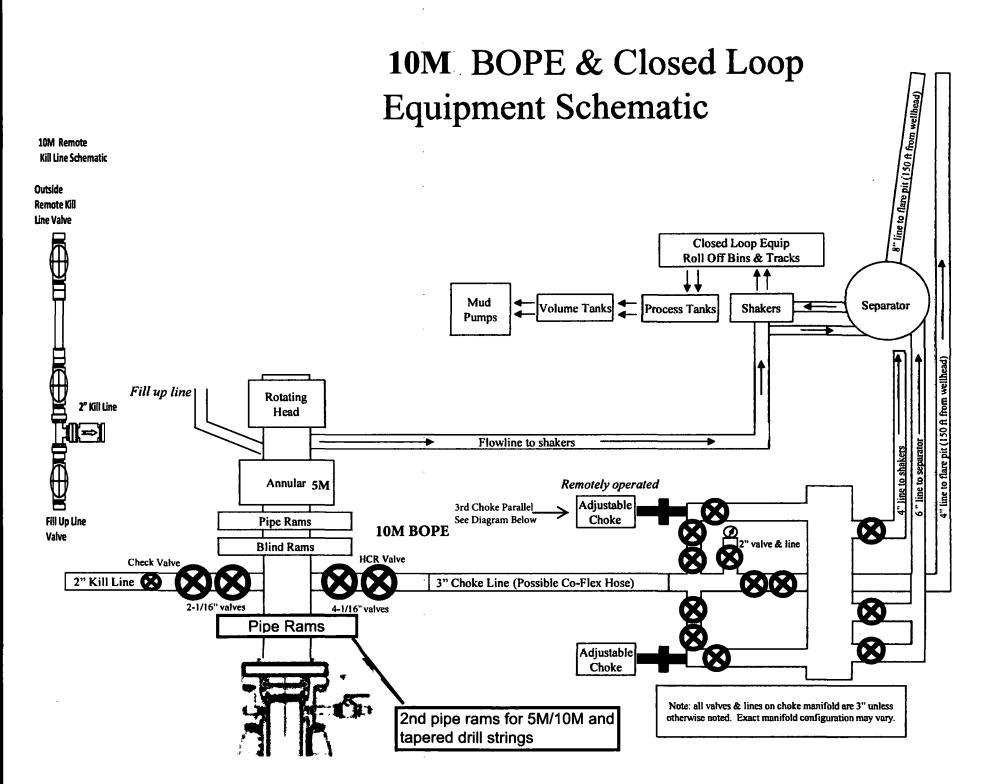
DIRECTIONAL SURVEY PLOT DRILLING PLAN SPEC SHEETS MB WELLHEAD MB VERBIAGE CLOSED LOOP DOC SPUDDER RIG REQUEST GAS CAPTURE PLAN ANNULAR VARIANCE REQUEST DOC COFLEX DOC

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_WP3_GCP_Form_20190730120000.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_19H_Drlg_Plan_20190731075412.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

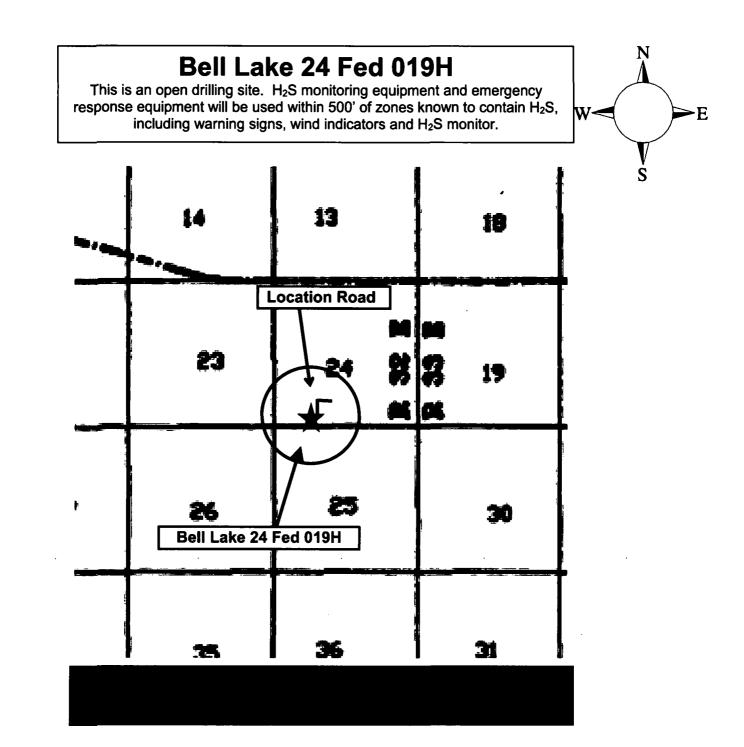
For

Bell Lake 24 Fed 019H

Sec-24 T-24S R-32E 197' FSL & 1211 FWL LAT. = 32.196437' N (NAD83) LONG = 103.632958' W

Lea County NM

Devon Energy Corp. Cont Plan. Page 1



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	H₂S	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 H₂S 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 H₂S.

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 H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S 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

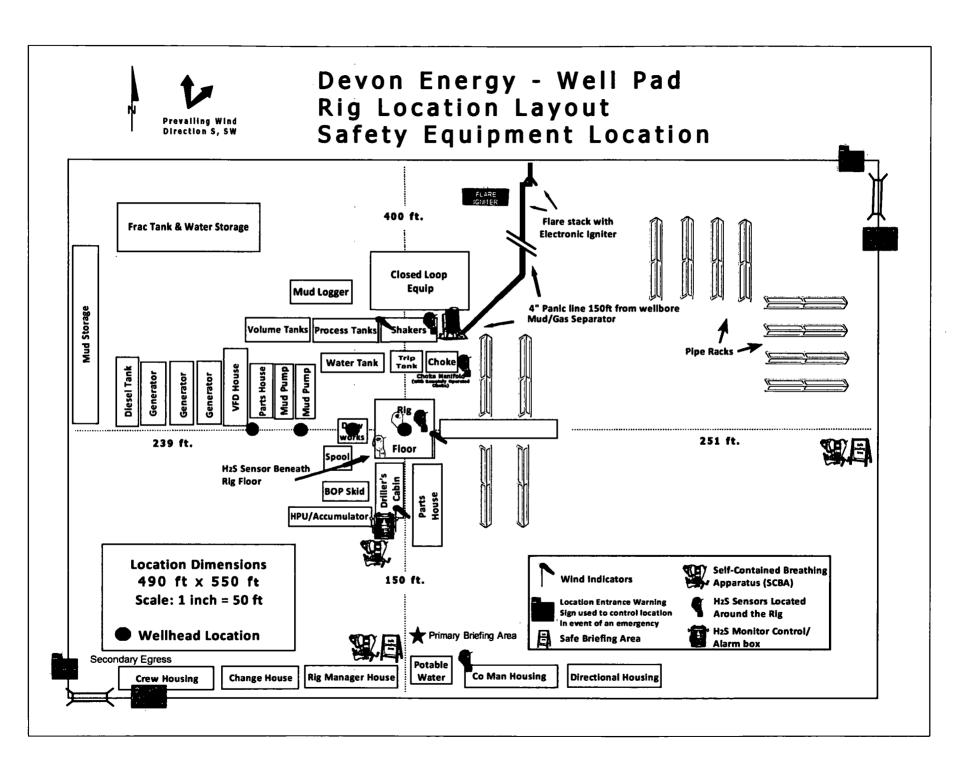
405-439-8129

Agency Call List

<u>Lea</u>	Hobbs	
<u>County</u>	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
Eddy	Carlsbad	
County	State Police	885-3137
(575)	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	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
Give	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
GPS	Flight For Life - Lubbock, TX	(806) 743-9911
position:	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	· · · · · · · · · · · · · · · · · · ·

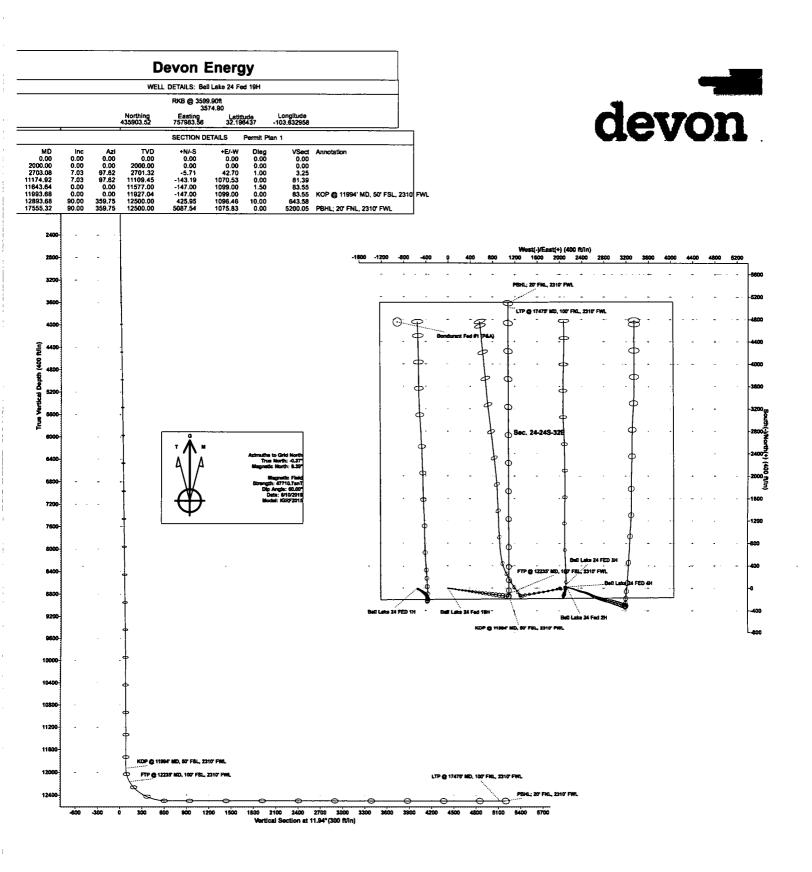
Prepared in conjunction with Dave Small





Devon Energy Corp. Cont Plan. Page 8

Devon Energy Corp. Cont Plan. Page 9



WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 24-24S-32E Bell Lake 24 Fed 19H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

10 June, 2019

Planning Report - Geographic

Database:		5000.141_Pro			Local Co-	ordinate Refer	ence V	Vell Bell Lake 24	4 Fed 19H		
Company:	WCDS	WCDSC Permian NM				TVD Reference:			RKB @ 3599.90ft		
Project:	Lea Co	ounty (NAD83	New Mexico	East)	MD Reference:			RKB @ 3599.90ft			
lite:	Sec 24	4-24S-32E			North Refe	erence:	(Grid			
Vell:	Bell La	ake 24 Fed 19	4		Survey Ca	alculation Meth	nod: M	/linimum Curvat	ure		
Veilbore:	Wellbo	ле #1									
Design:	Permit	Plan 1									
Project	Lea Co	unty (NAD83 N	New Mexico I	East)							
			···········								
Map System:		Plane 1983 Plane Datum	1983		System Dat	ium:	Me	an Sea Level			
Geo Datum: Map Zone:		cico Eastern Zo									
Site	Sec 24-	-24S-32E				· -					
Site Position:			Nor	thing:		-0.83 usft	Latitude:			30.9884	
From:	Мар)	Eas	ting:			Longitude:			-106.0611	
Position Uncer	tainty:	C).00 ft Slot	t Radius:		13-3/16 "	Grid Converge	ance:		-0.8	
Well		e 24 Fed 19H		<u></u>							
Well Position	+N/-S			Northing:		435,903.52	-	tude:		32.1964	
	+E/-W			Easting:	_	757,983.56		gitude:		-103.6329	
Position Uncer	tainty		0.50 ft	Wellhead Elevat	lon:		Gro	und Level:		3,574.90	
Wellbore	Wellbo	ire #1					· · · · · ·				
Magnetics	No	del Name	Som	ple Date	Declina	tion	Dip A		Field S	itrength	
magnetics	mo		3411		(°)		۲ קוט (°)	-		nT)	
		IGRF2015		6/10/2019		6.77		60.00	47,7	10.65208013	
Design	Permit	Plan 1									
Audit Notes:											
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Vertical Section	n:		Depth From ((TVD)	+N/-S	+E	/-W	Dire	ection		
			(ft)		(ft)	(†	ft)		(°)		
· ·		•	. 0.00		0.00	0.	. 00	11	1.94		
Plan Survey Tr	ol Program	Date	6/10/2019	<u>_</u>						··	
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Pian Survey To Depth Fro (ft)		n To	6/10/2019 (Wellbore)		Tool Name		Remarks				
Depth Fre (ft)	om Depti (ft	n To) Survey	(Wellbore)				Remarks				
Depth Fre	om Depti (ft	n To	(Wellbore)	pore #1)	Tool Name MWD+HDGM OWSG MWD		Remarks				
Depth Fre (ft)	om Depti (ft	n To) Survey	(Wellbore)	pore #1)	MWD+HDGM		Remarks			· - · · · · · · · · · · · · · · · · · ·	
Depth Fre (ft)	om Depti (ft	n To) Survey	(Wellbore)	bore #1)	MWD+HDGM		Remarks				
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Depth Fr (ft) 1 Plan Sections Measured Depth (ft)	om Depti (ft 0.00 17,5 Inclination (°)	Azimuth	(Wellbore) Plan 1 (Wellt Vertical Depth (ft)	+N/-S (ft)	MWD+HDGM OWSG MWD +E/-W (ft)	+ HDGM Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Rate	(°)	Target	
Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00	om Depti (ft 0.00 17,5 Inclination (°) 0.00	Azimuth (°) 0.00	Vertical (ft) 0.00	+N/-S (ft) 0 0.00	MWD+HDGM OWSG MWD +E/-W (ft) 0.00	+ HDGM Dogleg Rate (°/100usft) 0.00	Build Rate (°/100usft) 0.00	Rate (°/100usft)		Target	
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Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,703.08 11,174.92 11,643.64	om Depti (ft 0.00 17,5 inclination (*) 0.00 0.00 7.03 7.03 0.00	Azimuth (°) 0.00 97.62 97.62 0.00	Vertical Depth (ft) 0.00 2,000.00 2,701.32 11,109.45 11,577.00	+N/-S (ft) 0 0.00 0 0.00 2 -5.71 5 -143.19 0 -147.00	MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00 42.70 1,070.53 1,099.00	+ HDGM Dogleg Rate (*/100usft) 0.00 0.00 1.00 0.00 1.50	Build Rate (°/100usft) 0.00 0.00 1.00 0.00 -1.50	Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00	(°) 0.00 97.62 0.00 180.00	Target	
Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,703.08 11,174.92 11,643.64 11,993.68	Depti (ft 0.00 17,5 Inclination (°) 0.00 7.03 7.03 0.00 0.00 0.00	Azimuth (°) 0.00 97.62 97.62 0.00 0.00	Vertical Depth (ft) 0.00 2,000.00 2,701.32 11,1094.5 11,577.00 11,927.04	+N/-S (ft) 0 0.00 0 0.00 2 -5.71 5 -143.19 0 -147.00 4 -147.00	MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00 42.70 1.070.53 1.099.00 1.099.00	+ HDGM Dogleg Rate (*/100usft) 0.00 1.00 0.00 1.50 0.00	Build Rate (*/100usft) 0.00 0.00 1.00 0.00 -1.50 0.00	Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00	(°) 0.00 97.62 0.00 180.00 0.00		
Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,703.08 11,174.92 11,643.64	om Depti (ft 0.00 17,5 inclination (*) 0.00 0.00 7.03 7.03 0.00	Azimuth (°) 0.00 97.62 97.62 0.00	Vertical Depth (ft) 0.00 2,000.00 2,701.32 11,109.45 11,577.00	+N/-S (ft) 0 0.00 0 0.00 2 -5.71 5 -143.19 0 -147.00 4 -147.00 0 425.95	MWD+HDGM OWSG MWD +E/-W (ft) 0.00 0.00 42.70 1,070.53 1,099.00	+ HDGM Dogleg Rate (*/100usft) 0.00 0.00 1.00 0.00 1.50	Build Rate (°/100usft) 0.00 0.00 1.00 0.00 -1.50	Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00	(°) 0.00 97.62 0.00 180.00 0.00 359.75	Target PBHL - Bell Lake 24 PBHL - Bell Lake 24	

6/10/2019 4:42:42PM

COMPASS 5000.14 Build 85

Planning Report - Geographic

Database: Company:	EDM r5000.141_Prod US WCDSC Permian NM	Local Co-ordinate Reference	Well Bell Lake 24 Fed 19H RKB @ 3599.90ft
Project:	Lea County (NAD83 New Mexico East)		•
	Sec 24-24S-32E	MD Reference:	RKB @ 3599.90ft
Site:		North Reference:	Grid
Weli:	Bell Lake 24 Fed 19H	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
0.00	0.00	0.00	0.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
100.00	0.00	0.00	100.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
200.00	0.00	0.00	200.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
300.00	0.00	0.00	300.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
400.00	0.00	0.00	400.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
500.00	0.00	0.00	500.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
600.00	0.00	0.00	600.00	0.00	0.00	435, 9 03.52	757,983.56	32.196437	-103.632959
700.00	0.00	0.00	700.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
800.00	0.00	0.00	800.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
900.00	0.00	0.00	900.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,000.00	0.00	0.00	1,000.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,100.00	0.00	0.00	1,100.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,200.00	0.00	0.00	1,200.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,300.00	0.00	0.00	1,300.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,400.00	0.00	0.00	1,400.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,500.00	0.00	0.00	1,500.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,600.00	0.00	0.00	1,600.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,700.00	0.00	0.00	1,700.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,800.00	0.00	0.00	1,800.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
1,900.00	0.00	0.00	1,900.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
2,000.00	0.00	0.00	2,000.00	0.00	0.00	435,903.52	757,983.56	32.196437	-103.632959
2,100.00	1.00	97.62	2,099.99	-0.12	0.86	435,903.40	757,984.42	32.196436	-103.632956
2,200.00	2.00	97.62	2,199.96	-0.46	3.46	435,903.06	757,987.02	32.196435	-103.632948
2,300.00	3.00	97.62	2,299.86	-1.04	7.78	435,902.48	757,991.34	32.196434	-103.632934
2,400.00	4.00	97.62	2,399.68	-1.85	13.83	435,901.67	757,997.39	32.196431	-103.632914
2,500.00	5.00	97.62	2,499.37	-2.89	21.61	435,900.63	758,005.17	32.196428	-103.632889
2,600.00	6.00	97.62	2,598.90	-4.16	31.11	435,899.36	758,014.67	32.196425	-103.632858
2,700.00	7.00	97.62	2,698.26	-5.66	42.33	435,897.86	. 758,025.89	32.196420	-103.632822
2,703.08	7.03	97.62	2,701.32	-5.71	42.70	435,897.81	758,026.26	32.196420	-103.632821
2,800.00	7.03	97.62	2,797.51	-7.28	54.46	435,896.24	758,038.02	32.196416	-103.632783
2,900.00	7.03	97.62	2,896.76	-8.91	66.59	435,894.61	758,050.15	32.196411	-103.632744
3,000.00	7.03	97.62	2,996.00	-10.53	78.73	435,892.99	758,062.28	32.196406	-103.632704
3,100.00	7.03 7.03	97.62	3,095.25	-12.15	90.86	435,891.37	758,074.42 758,086.55	32.196402	-103.632665 -103.632626
3,300.00	7.03	97.62 97.62	3,194.50 3,293.75	-13.78 -15.40	102.99 115.12	435,889.74 435,888.12	758,098.68	32.196397 32.196392	-103.632587
3,400.00	7.03	97.62 97.62	3,293.75	-17.02	127.26	435,886.50	758,110.81	32.196388	-103.632548
3,500.00	7.03	97.62	3,492.24	-18.64	139.39	435,884.88	758,122.94	32.196383	-103.632509
3,600.00	7.03	97.62	3,591.49	-20.27	153.53	435,883.25	758,135.08	32.196378	-103.632469
3,700.00	7.03	97.62	3,690.74	-21.89	163.65	435,881.63	758,147.21	32.196374	-103.632430
3,800.00	7.03	97.62	3,789.99	-23.51	175.78	435,880.01	758,159.34	32.196369	-103.632391
3,900.00	7.03	97.62	3,889.24	-25.14	187.92	435,878.38	758,171.47	32.196364	-103.632352
4,000.00	7.03	97.62	3,988.48	-26.76	200.05	435,876.76	758,183.61	32.196359	-103.632313
4,100.00	7.03	97.62	4,087.73	-28.38	212.18	435,875.14	758,195.74	32.196355	-103.632273
4,200.00	7.03	97.62	4,186.98	-30.00	224.31	435,873.52	758,207.87	32.196350	-103.632234
4,300.00	7.03	97.62	4,286.23	-31.63	236.45	435,871.89	758,220.00	32.196345	-103.632195
4,400.00	7.03	97.62	4,385.48	-33.25	248.58	435,870.27	758,232.13	32.196341	-103.632156
4,500.00	7.03	97.62	4,484.72	-34.87	260.71	435,868.65	758,244.27	32.196336	-103.632117
4,600.00	7.03	97.62	4,583.97	-36.49	272.84	435,867.02	758,256.40	32.196331	-103.632077
4,700.00	7.03	97.62	4,683.22	-38.12	284.98	435,865.40	758,268.53	32.196327	-103.632038
4,800.00	7.03	97.62	4,782.47	-39.74	297.11	435,863.78	758,280.66	32.196322	-103.631999
4,900.00	7.03	97.62	4,881.72	-41.36	309.24	435,862.16	758,292.80	32.196317	-103.631960
5,000.00	7.03	97.62	4,980.97	-42.99	321.37	435,860.53	758,304.93	32.196313	-103.631921
5,100.00	7.03	97.62	5,080.21	-44.61	333.50	435,858.91	758,317.06	32.196308	-103.631882
5,200.00	7.03	97.62	5,179.46	-46.23	345.64	435,857.29	758,329.19	32.196303	-103.631842
0,200.00			0,110.40					VL. 100000	

6/10/2019 4:42:42PM

COMPASS 5000.14 Build 85

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Bell Lake 24 Fed 19H	
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3599.90ft	
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3599.90ft	
Site:	Sec 24-24S-32E	North Reference:	Grid	
Well:	Bell Lake 24 Fed 19H	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	7.03	97.62	5,278.71	-47.85	357.77	435,855.67	758,341.33	32.196299	-103.631803
5,400.00	7.03	97.62	5,377.96	-49.48	369.90	435,854.04	758,353.46	32.196294	-103.631764
5,500.00		97.62	5,477.21	-51.10	382.03	435,852.42	758,365.59	32.196289	-103.63172
5,600.00	7.03	97.62	5,576.45	-52.72	394.17	435,850.80	758,377.72	32.196285	-103.63168
5,700.00	7.03	97.62	5,675.70	-54.35	406.30	435,849.17	758,389.85	32.196280	-103.631646
5,800.00	7.03	97.62	5,774.95	-55.97	418.43	435,847.55	758,401.99	32.196275	-103.631607
5,900.00	7.03	97.62	5,874.20	-57.59	430.56	435,845.93	758,414.12	32.196271	-103.63156
6,000.00	7.03	97.62	5,973.45	-59.21	442.69	435,844.31	758,426.25	32.196266	-103.63152
6,100.00	7.03	97.62	6,072.69	-60.84	454.83	435,842.68	758,438.38	32.196261	-103.63149
6,200.00	7.03	97.62	6,171.94	-62.46	466.96	435,841.06	758,450.52	32.196257	-103.63145
6,300.00	7.03	97.62	6,271.19	-64.08	479.09	435,839.44	758,462.65	32.196252	-103.63141
6,400.00	7.03	97.62	6,370.44	-65.71	491.22	435,837.81	758,474.78	32.196247	-103.63137
6,500.00	7.03	97.62	6,469.69	-67.33	503.36	435,836.19	758,486.91	32.196243	-103.63133
6,600.00	7.03	97.62	6,568.93	-68.95	515.49	435,834.57	758,499.04	32.196238	-103.63129
6,700.00	7.03	97.62	6,668.18	-70.57	527.62	435,832.95	758,511.18	32.196233	-103.63125
6,800.00	7.03	97.62	6,767.43	-72.20	539.75	435,831.32	758,523.31	32.196228	-103.63121
6,900.00	7.03	97.62	6,866.68	-73.82	551.89	435,829.70	758,535.44	32.196224	-103.63117
7,000.00	7.03	97.62	6,965.93	-75.44	564.02	435,828.08	758,547.57	32.196219	-103.63113
7,100.00		97.62	7,065.17	-77.06	576.15	435,826.46	758,559.71	32.196214	-103.63109
7,200.00	7.03	97.62	7,164.42	-78.69	588.28	435,824.83	758,571.84	32.196210	-103.63105
7,300.00		97.62	7,263.67	-80.31	600.41	435,823.21	758,583.97	32.196205	-103.63101
7,400.00		97.62	7,362.92	-81.93	612.55	435,821.59	758,596.10	32.196200	-103.63098
7,500.00		97.62	7,462.17	-83.56	624.68	435,819.96	758,608.23	32.196196	-103.63094
7,600.00		97.62	7,561.41	-85.18	636.81	435,818.34	758.620.37	32.196191	-103.63090
7,700.00		97.62	7,660.66	-86.80	648.94	435,816.72	758,632.50	32,196186	-103.63086
7,800.00		97.62	7,759.91	-88.42	661.08	435,815.10	758,644.63	32.196182	-103.63082
7,900.00		97.62	7,859.16	-90.05	673.21	435,813.47	758,656.76	32.196177	-103.63078
8,000.00	-	97.62	7,958.41	-91.67	685.34	435,811.85	758,668.90	32.196172	-103.63074
8,100.00		97.62	8,057.65	-93.29	697.47	435,810.23	758,681.03	32.196168	-103.63070
8,200.00		97.62	8,156.90	-94.92	709.61	435,808.60	758,693.16	32.196163	-103.63066
8,300.00		97.62	8,256.15	-96.54	721.74	435,806.98	758,705.29	32.196158	-103.63062
8,400.00		97.62	8,355.40	-98.16	733.87	435,805.36	758,717.43	32.196154	-103.63058
8,500.00		97.62	8,454.65	-99.78	746.00	435,803.74	758,729.56	32.196149	-103.63054
8,600.00		97.62	8,553.89	-101.41	758.13	435,802.11	758,741.69	32.196144	-103.63051
8,700.00		97.62	8,653.14	-103.03	770.27	435,800.49	758,753.82	32.196140	-103.63047
8,800.00		97.62	8,752.39	-104.65	782.40	435,798.87	758,765.95	32.196135	-103.63043
8,900.00		97.62	8,851.64	-106.27	794.53	435,797.25	758,778.09	32.196130	-103.63039
9,000.00		97.62	8,950.89	-107.90	806.66	435,795.62	758,790.22	32.196126	-103.63035
9,100.00	7.03	97.62	9,050.14	-109.52	818.80	435,794.00	758,802.35	32.196121	-103.63031
9,200.00	7.03	97.62	9,149.38	-111.14	830.93	435,792.38	758,814.48	32.196116	-103.63027
9,300.00	7.03	97.62	9,248.63	-112.77	843.06	435,790.75	758,826.62	32.196112	-103.63023
9,400.00	7.03	97.62	9,347.88	-114.39	855.19	435,789.13	758,838.75	32.196107	-103.63019
9,500.00	-	97.62	9,447.13	-116.01	867.32	435,787.51	758,850.88	32.196102	-103.63015
9,600.00	7.03	97.62 97.62	9,546.38	-117.63	879.46	435,785.89	758,863.01	32.196097	-103.63011
9,700.00	7.03	97.62 97.62	9,645.62	-119.26	891.59	435,784.26	758,875.14	32.196093	-103.63007
9,800.00	7.03	97.62 97.62	9,045.82 9,744.87	-119.28	903.72	435,782.64	758,887.28	32.196088	-103.63007
9,800.00	7.03	97.62 97.62	9,744.87 9,844.12	-120.88	903.72 915.85	435,782.04	758,899.41	32.196083	-103.63004
-									
10,000.00	7.03	97.62	9,943.37	-124.13	927.99	435,779.39	758,911.54	32.196079	-103.62996
10,100.00	7.03	97.62	10,042.62	-125.75	940.12	435,777.77	758,923.67	32.196074	-103.62992
10,200.00	7.03	97.62	10,141.86	-127.37	952.25	435,776.15	758,935.81	32.196069	-103.62988
10,300.00	7.03	97.62	10,241.11	-128.99	964.38	435,774.53	758,947.94	32.196065	-103.62984
10,400.00	7.03	97.62	10,340.36	-130.62	976.52	435,772.90	758,960.07	32.196060	-103.62980
10,500.00	7.03	97.62	10,439.61	-132.24	988.65	435,771.28	758,972.20	32.196055	-103.62976
10,600.00	7.03	97.62	10,538.86	-133.86	1,000.78	435,769.66	758,984.33	32.196051	-103.62972

COMPASS 5000.14 Build 85

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Bell Lake 24 Fed 19H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3599.90ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3599.90ft
Site:	Sec 24-24S-32E	North Reference:	Grid
Neli:	Bell Lake 24 Fed 19H	Survey Calculation Method:	Minimum Curvature
Nellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey

Me	easured			Vertical			Мар	Мар		
1	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
1	10,700.00	7.03	97.62	10,638.10	-135.49	1,012.91	435,768.03	758,996.47	32.196046	-103.629687
1 1	10,800.00	7.03	97.62	10,737.35	-137.11	1,025.04	435,766.41	759,008.60	32.196041	-103.629648
	10,900.00	7.03	97.62	10,836.60	-138.73	1,037.18	435,764.79	759,020.73	32.196037	-103.629609
	11,000.00	7.03	97.62	10,935.85	-140.35	1,049.31	435,763.17	759,032.86	32.196032	-103.629570
·	11,100.00	7.03	97.62	11,035.10	-141.98	1,061.44	435,761.54	759,045.00	32.196027	-103.629530
	11,174.92	7.03	97.62	11,109.45	-143.19	1,070.53	435,760.33	759,054.09	32.196024	-103.629501
	11,200.00	6.65	97.62	11,134.35	-143.59	1,073.49	435,759.93	759,057.05	32.196023	-103.629492
	11,300.00	5.15	97.62	11,233.82	-144.95	1,083.69	435,758.57	759,067.24	32.196019	-103.629459
1	11,400.00	3.65	97.62	11,333.52	-145.97	1,091.30	435,757.55	759,074.86	32.196016	-103.629434
	11,500.00	2.15	97.62	11,433.39	-146.64	1,096.32	435,756.88	759,079.88	32.196014	-103.629418
	11,600.00	0.65	97.62	11,533.36	-146.97	1,098.75	435,756.55	759,082.31	32.196013	-103.629410
	11,643.64	0.00	0.00	11,577.00	-147.00	1,099.00	435,756.52	759,082.55	32.196013	-103.629409
	11,700.00	0.00	0.00	11,633.36	-147.00	1,099.00	435,756.52	759,082.55	32.196013	-103.629409
	11,800.00	0.00	0.00	11,733.36	-147.00	1,099.00	435,756.52	759,082.55	32.196013	-103.629409
	11,900.00	0.00	0.00	11,833.36	-147.00	1,099.00	435,756.52	759,082.55	32.196013	-103.629409
	11,993.68	0.00	0.00	11,927.04	-147.00	1,099.00	435,756.52	759,082.55	32.196013	-103.629409
	KOP @ 1	1994' MD, 50'	FSL. 2310' F	WL						
	12,000.00	0.63	359.75	11,933.36	-146.97	1,099.00	435,756.55	759,082.55	32.196013	-103.629409
	12,100.00	10.63	359.75	12,032.75	-137.16	1,098.96	435,766.36	759,082.51	32.196040	-103.629409
	12,200.00	20.63	359.75	12,128.93	-110.25	1,098.84	435,793.27	759,082.39	32.196114	-103.629409
	12,234.83	24.11	359.75	12,161.13	-97.00	1,098.78	435,806.52	759,082.33	32.196150	-103.629409
		2235' MD, 100						•		
	12,300.00	30.63	359.75	12,218.97	-67.05	1,098.65	435,836.47	759,082.20	32.196233	-103.629409
	12,400.00	40.63	359.75	12,300.15	-8.87	1,098.39	435,894.65	759,081.94	32.196393	-103.629408
	12,500.00	50.63	359.75	12,369.99	62.53	1,098.07	435,966.05	759,081.63	32.196589	-103.629408
	12,600.00	60.63	359.75	12,426.36	144.96	1,097.71	436.048.48	759,081.26	32.196815	-103.629407
	12,700.00	70.63	359.75	12,467.57	235.94	1,097.31	436,139.46	759,080.86	32.197065	-103.629407
	12,800.00	80.63	359.75	12,492.36	332.69	1,096.88	436,236.21	759,080.43	32.197331	-103.629406
	12,893.69	90.00	359.75	12,500.00	425.95	1,096.46	436,329.47	759,080.02	32.197588	-103.629405
	12,900.00	90.00	359.75	12,500.00	432.27	1,096.44	436,335.79	759,079.99	32.197605	-103.629405
	13,000.00	90.00	359.75	12,500.00	532.27	1,095.99	436,435.79	759,079.55	32.197880	-103.629405
	13,100.00	90.00	359.75	12,500.00	632.27	1,095.55	436,535.78	759,079.11	32.198155	-103.629404
	13,200.00	90.00	359.75	12,500.00	732.27	1,095.11	436,635.78	759,078.66	32.198430	-103.629403
· ·	13,300.00	90.00	359.75	12,500.00	832.26	1,094.67	436,735.78	759,078.22	32.198705	-103.629402
	13,400.00	90.00	359.75	12,500.00	932.26	1,094.22	436,835.78	759,077.78	32.198979	-103.629402
· ·	13,500.00	90.00	359.75	12,500.00	1,032.26	1,093.78	436,935.78	759,077.34	32.199254	-103.629401
	13,600.00	90.00	359.75	12,500.00	1,132.26	1,093.34	437,035.78	759,076.89	32.199529	-103.629400
	13,700.00	90.00	359.75	12,500.00	1,232.26	1,092.90	437,135.78	759,076.45	32.199804	-103.629400
1	13,800.00	90.00	359.75	12,500.00	1,332.26	1,092.45	437,235.78	759,076.01	32.200079	-103.629399
1	13,900.00	90.00	359.75	12,500.00	1,432.26	1,092.01	437,335.78	759,075.57	32.200354	-103.629398
	14,000.00	90.00	359.75	12,500.00	1,532.26	1,091.57	437,435.77	759,075.12	32.200629	-103.629398
1	14,100.00	90.00	359.75	12,500.00	1,632.26	1,091.13	437,535.77	759,074.68	32.200904	-103.629397
1	14,200.00	90.00	359.75	12,500.00	1,732.26	1,090.68	437,635.77	759,074.24	32.201178	-103.629396
1	14,300.00	90.00	359.75	12,500.00	1,832.25	1,090.24	437,735.77	759,073.79	32.201453	-103.629396
1	14,400.00	90.00	359.75	12,500.00	1,932.25	1,089.80	437,835.77	759,073.35	32.201728	-103.629395
1	14,500.00	90.00	359.75	12,500.00	2,032.25	1,089.35	437,935.77	759,072.91	32.202003	-103.629394
	14,600.00	90.00	359.75	12,500.00	2,132.25	1,088.91	438,035.77	759,072.47	32.202278	-103.629394
	14,700.00	90.00	359.75	12,500.00	2,232.25	1,088.47	438,135.77	759,072.02	32.202553	-103.629393
	14,800.00	90.00	359.75	12,500.00	2,332.25	1,088.03	438,235.76	759,071.58	32.202828	-103.629392
	14,900.00	90.00	359.75	12,500.00	2,432.25	1,087.58	438,335.76	759,071.14	32.203103	-103.629391
	15,000.00	90.00	359.75	12,500.00	2,532.25	1,087.14	438,435.76	759,070.70	32.203377	-103.629391
1	15,100.00	90.00	359.75	12,500.00	2,632.25	1,086.70	438,535.76	759,070.25	32.203652	-103.629390
	15,200.00	90.00	359.75	12,500.00	2,732.25	1,086.26	438,635.76	759,069.81	32.203927	-103.629389
·										

COMPASS 5000.14 Build 85

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Bell Lake 24 Fed 19H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3599.90ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3599.90ft
Site:	Sec 24-24S-32E	North Reference:	Grid
Well:	Bell Lake 24 Fed 19H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey

Neasured			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	359.75	12,500.00	2,832.24	1,085.81	438,735.76	759,069.37	32.204202	-103.62938
15,400.00	90.00	359.75	12,500.00	2,932.24	1,085.37	438,835.76	759,068.93	32.204477	-103.62938
15,500.00	90.00	359.75	12,500.00	3,032.24	1,084.93	438,935.76	759,068.48	32.204752	-103.62938
15,600.00	90.00	359.75	12,500.00	3,132.24	1,084.49	439,035.76	759,068.04	32.205027	-103.62938
15,700.00	90.00	359.75	12,500.00	3,232.24	1,084.04	439,135.75	759,067.60	32.205302	-103.62938
15,800.00	90.00	359.75	12,500.00	3,332.24	1,083.60	439,235.75	759,067.16	32.205576	-103.62938
15,900.00	90.00	359.75	12,500.00	3,432.24	1,083.16	439,335.75	759,066.71	32.205851	-103.62938
16,000.00	90.00	359.75	12,500.00	3,532.24	1,082.72	439,435.75	759,066.27	32.206126	-103.62938
16,100.00	90.00	359.75	12,500.00	3,632.24	1,082.27	439,535.75	759,065.83	32.206401	-103.62938
16,200.00	90.00	359.75	12,500.00	3,732.24	1,081.83	439,635.75	759,065.39	32.206676	-103.62938
16,300.00	90.00	359.75	12,500.00	3,832.24	1,081.39	439,735.75	759,064.94	32.206951	-103.62938
16,400.00	90.00	359.75	12,500.00	3,932.23	1,080.95	439,835.75	759,064.50	32.207226	-103.62938
16,500.00	90.00	359.75	12,500.00	4,032.23	1,080.50	439,935.74	759,064.06	32.207501	-103.62938
16,600.00	90.00	359.75	12,500.00	4,132.23	1,080.06	440,035.74	759,063.62	32.207775	-103.62938
16,700.00	90.00	359.75	12,500.00	4,232.23	1,079.62	440,135.74	759,063.17	32.208050	-103.62937
16,800.00	90.00	359.75	12,500.00	4,332.23	1,079.18	440,235.74	759,062.73	32.208325	-103.62937
16,900.00	90.00	359.75	12,500.00	4,432.23	1,078.73	440,335.74	759,062.29	32.208600	-103.62937
17,000.00	90.00	359.75	12,500.00	4,532.23	1,078.29	440,435.74	759,061.84	32.208875	-103.62937
17,100.00	90.00	359.75	12,500.00	4,632.23	1,077.85	440,535.74	759,061.40	32.209150	-103.62937
17,200.00	90.00	359.75	12,500.00	4,732.23	1,077.40	440,635.74	759,060.96	32.209425	-103.62937
17,300.00	90.00	359.75	12,500.00	4,832.23	1,076.96	440,735.74	759,060.52	32.209700	-103.62937
17,400.00	90.00	359.75	12,500.00	4,932.22	1,076.52	440,835.73	759,060.07	32.209974	-103.62937
17,475.32	90.00	359.75	12,500.00	5,007.54	1,076.19	440,911.05	759,059.74	32.210182	-103.62937
LTP @ 1	7475' MD, 100	' FNL, 2310' F	WL						
17,500.00	90.00	359.75	12,500.00	5,032.22	1,076.08	440,935.73	759,059.63	32.210249	-103.62937
17,555.31	90.00	359.75	12,500.00	5,087.53	1,075.83	440,991.04	759,059.39	32.210401	-103.62932
PBHL: 2	0' FNL. 2310'	FWL							
17.555.32	90.00	359.75	12,500.00	5,087.54	1,075.83	440,991.05	759,059.39	32,210401	-103.62937

Design Targets

Target Name - hit/miss target - Shape	Dip Angie (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Bell Lake 24 Fec	0.00	0.00	0.00	5,087.54	1,075.83	440,991.05	759,059.39	32.210401	-103.629373
 plan misses target Point 	center by 520	0.05ft at 0.00	ft MD (0.00	TVD, 0.00 N,	0.00 E)				

Plan Annotations

ĥ	leasured	Vertical	Local Coon	dinates		
	Depth	Depth	+N/-S	+E/-W		
	(ft)	(ft)	(ft)	(ft)	Comment	
	11,993.68	11,927.04	-147.00	1,099.00	KOP @ 11994' MD, 50' FSL, 2310' FWL	
	12,234.83	12,161.13	-97.00	1,098.78	FTP @ 12235' MD, 100' FSL, 2310' FWL	
	17,475.32	12,500.00	5,007.54	1,076.19	LTP @ 17475' MD, 100' FNL, 2310' FWL	
	17,555.31	12,500.00	5,087.53	1,075.83	PBHL; 20' FNL, 2310' FWL	

1. Geologic Formations

TVD of target	12500	Pilot hole depth	N/A
MD at TD:	17555	Deepest expected fresh water	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1176		
Salt	1500		
Base of Salt	4976		
Delaware	5015		
Bone Spring 1st	8917		
Bone Spring 2nd	10242		
Bone Spring 3rd	10790		
Wolfcamp	12199		· · · · · · · · · · · · · · · · · · ·

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

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Bell Lake 24 Fed 19H

Hole Size	Casing	Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	То	Csg. Size	(PPF)	Grade	Сопп	Collapse	Burst	Tension
17 1/2	0	1201 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	10790 TVD	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6
				BLM N	/inimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

2. Casing Program (Primary Design)

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

• Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

• A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.

• Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.

• A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

• A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Hole Size	Casing	g Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
HUIE SIZE	From	To	Cag. Size	(PPF)	Graue	Com	Collapse	Burst	Tension
· 17 1/2	0	1201 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	10790 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6
7 7/8	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
				BLM N	/inimum Sat	fety Factor	1.125	1	1.6 Dry 1.8 Wet

Casing Program (Alternative Design)

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

• Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

• A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.

• Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.

• A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

•Variance requested to drill 10.625" hole instead of 9.875" for intermediate 1, the 8.625" connection will change from TLW to BTC.

• A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

	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 specificition sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	908	Surf	13.2	1.44	Lead: Class C Cement + additives
	685	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	845	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	93	500' above shoe	13.2	1.44	l st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	479	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	93	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	685	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	59	9994	9.0	3.3	Lead: Class H /C + additives
Production	355	11994	13.2	1.4	Tail: Class H / C + additives

3. Cementing Program (Primary Design)

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	· % Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

Casing	# Sks	тос	Wt. PPg	Yld (ft3/sack)	Slurry Description
Surface	908	Surf	13.2	1.44	Lead: Class C Cement + additives
	455	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	496	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	55	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w DV @ ~4500	335	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	55	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	455	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
nt 1 (10.625" Hole Size)	641	Surf	9	3.27	Lead: Class C Cement + additives
	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	117	9994	9.0	3.3	Lead: Class H /C + additives
Production	736	11994	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess		
Surface	50%		
Intermediate 1	30%		
Intermediate 1 (Two Stage)	25%		
Prod	10%		

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Т	уре	*	Tested to:
			An	nular	x	50% of rated working pressure
Int 1	13-58"	5M	Blind Ram		X	- 5M
filt I	13-36	5191	Pipe	Pipe Ram		
			Doub	ole Ram	X	5101
			Other*]
	13-5/8"		Annu	lar (5M)	x	100% of rated workin pressure
Production		10M	Blin	ind Ram X		10M
FIGUREION		TON	Pipe Ram			
			Doub	Double Ram		
			Other*			
			Annu	lar (5M)		
		:	Blin	d Ram		
			Pipe Ram			
			Dout	ole Ram		
			Other*			
A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
A variance is requested to	A variance is requested to run a 5 M annular on a 10M system					

4. Pressure Control Equipment (Three String Design)

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5. Mud Program (Three String Design)

	(ppg)
FW Gel	8.5-9
DBE / Cut Brine	10-10.5
OBM	10-10.5
	DBE / Cut Brine

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, C	Logging, Coring and Testing				
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the				
X	Completion Rpeort and sbumitted 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.				

Addition	al 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	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6825
Abnormal temperature	No

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

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

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).

 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.

- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan Other, describe



Well Name: BELL LAKE 24 FED

Well Type: OIL WELL

Well Number: 19H Well Work Type: Drill 2000

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):

Well Name: BELL LAKE 24 FED

Well Number: 19H

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?

Well Name: BELL LAKE 24 FED

Well Number: 19H

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):

Well Name: BELL LAKE 24 FED

Well Number: 19H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



Bond Info Data Report 02/06/2020

APD ID: 10400045047	Submission Date: 07/31/2019	1. (c)
Operator Name: DEVON ENERGY PRODUCTION COMP	ANY LP	and the second sec
Well Name: BELL LAKE 24 FED	Well Number: 19H	Show Final Text
Well Type: OIL WELL	Well Work Type: Drill	

Bond Information

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?

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:

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Reclamation bond rider amount:

Additional reclamation bond information attachment:

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