Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
MAR 12 2019
RECEIVED

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No. NMNM116574
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. BELL LAKE 24-13 FED COM 7H
9. API Well No. 30-025-43203-00-X1
10. Field and Pool or Exploratory Area TRIPLE X-BONE SPRING
11. County or Parish, State LEA COUNTY, NM

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator DEVON ENERGY PRODUCTION COM LP
Contact: REBECCA DEAL
E-Mail: Rebecca.Deal@dvn.com

3a. Address
P O BOX 250
ARTESIA, NM 88201

3b. Phone No. (include area code)
Ph: 405-228-8429

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 24 T24S R32E SWSE 200FSL 1880FEL

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Devon Energy Production Co. respectfully requests the following changes to the original APD:

BHL change from 330 FNL & 350 FEL, 24-24S-32E to 2615 FSL & 1330 FEL, 13-24S-32E.

TVD/MD change from 11,105'/15,621' to 9600'/17,084'

Change well name from Bell Lake 24 Fed 7H to Bell Lake 24-13 Fed Com 7H

NEW PROP ID 325162

Please see attached revised C-102, drilling & directional plan, and supporting drilling documentation

Carlsbad Field Office
OCD Hobbs

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #456621 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION COM LP, sent to the Hobbs
Committed to AFMSS for processing by MUSTAFA HAQUE on 03/04/2019 (19MH0049SE)

Name *(Printed/Typed)* REBECCA DEAL — Title REGULATORY COMPLIANCE PROFESSI

Signature (Electronic Submission) — Date 03/04/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By LONG VO — Title PETROLEUM ENGINEER — Date 03/05/2019

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LEASE NO.:	**NMNM116574**
WELL NAME & NO.:	**Bell Lake 24-13 Fed Com 7H**
SURFACE HOLE FOOTAGE:	**200' FSL & 1880' FEL**
BOTTOM HOLE FOOTAGE	**2615' FSL & 1330' FEL**
LOCATION:	**Section 24, T. 24 S., R 32 E., NMPM**
COUNTY:	**Lea County, New Mexico**

COA

H2S	◉ Yes	○ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	○ Multibowl	◉ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☑ Fluid Filled	☑ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

All Previous COAs Still Apply.

A. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1180 feet** (a minimum of 25 feet 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 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 **9-5/8** inch intermediate casing shall be set at approximately **4900 feet** is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

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.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL from TD of the 9-5/8" 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.
  Cement excess is less than 25%, more cement might be required.

B. 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.
    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.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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)

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ 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.

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.

2. 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 24 hours. WOC time will be recorded in the driller's log.

3. Wait on cement (WOC) for Water Basin: 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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

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

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: 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 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.

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

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.

Devon Energy
APD VARIANCE DATA

OPERATOR NAME: Devon Energy

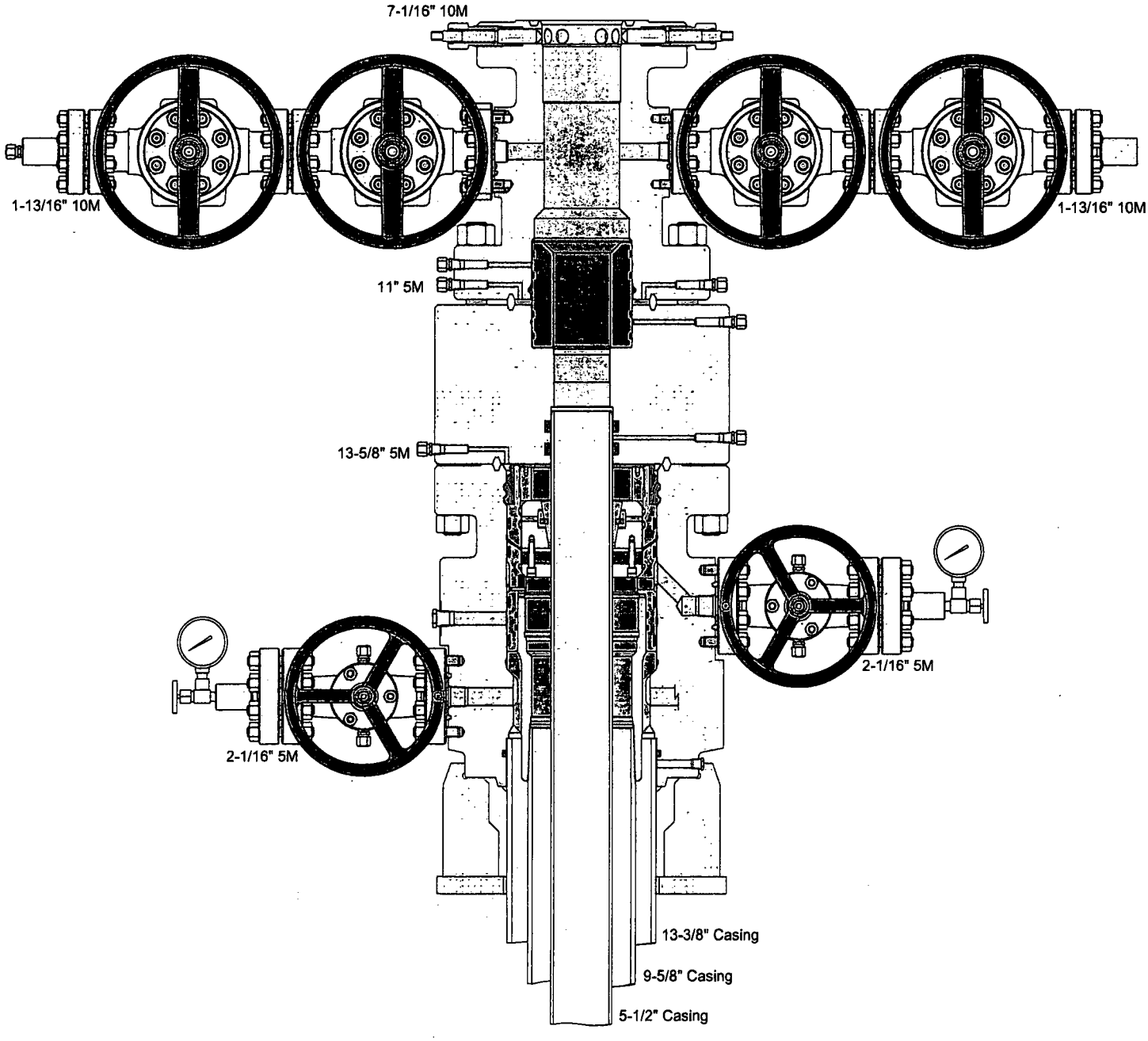
1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

2. Description of Operations

1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
    a. After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
    b. Rig will utilize fresh water based mud to drill surface hole to TD.
2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
3. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
    a. A means for intervention will be maintained while the drilling rig is not over the well.
4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
5. Drilling operation will be performed with the big rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
    a. The BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
6. Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.


7-1/16" 10M
1-13/16" 10M
1-13/16" 10M
11" 5M
13-5/8" 5M
2-1/16" 5M
2-1/16" 5M
13-3/8" Casing
9-5/8" Casing
5-1/2" Casing

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.

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.

1. Geologic Formations

TVD of target	9600	Pilot hole depth	N/A
MD at TD:	17084	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1225		
Salado	1735		
B/Salt	5150		
Delaware	5240		
Bone Spring 1st	9150		
Bone Spring 2nd	10920		
Bone Spring 3rd	11955		
Wolfcamp	12325		

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

2. Casing Program -See COA

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
17 1/2	0	~~1250~~ 1180 TVD	13 3/8	48.0	H40	BTC	1.125	1.25	1.6
12 1/4	0	~~5340~~ 4900 TVD	9 5/8	40.0	J-55	BTC	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

.0 = 17083
0 = 9600

• 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, and flows experienced while drilling. Setting depth with be revised accordingly if needed.
• A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specficition 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 3rd 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 2nd 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?	

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	943	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	591	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1 Two Stage w/ DV @ TVD of Delaware	-24	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
	562	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	591	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	359	500' tieback	9.0	3.3	Lead: Class H /C + additives
	1550	KOP	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	30%
Production	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-58"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

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

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

6. Logging and Testing Procedures

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

Additional logs planned		Interval
	Resistivity	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4493
Abnormal temperature	No

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

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

8. Other facets of operation

Is this a walking operation? 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 pad.
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. At that time an approved BOP stack will be nipped 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

Devon Energy

WELL DETAILS: Bell Lake 24-13 Fed Com 7H

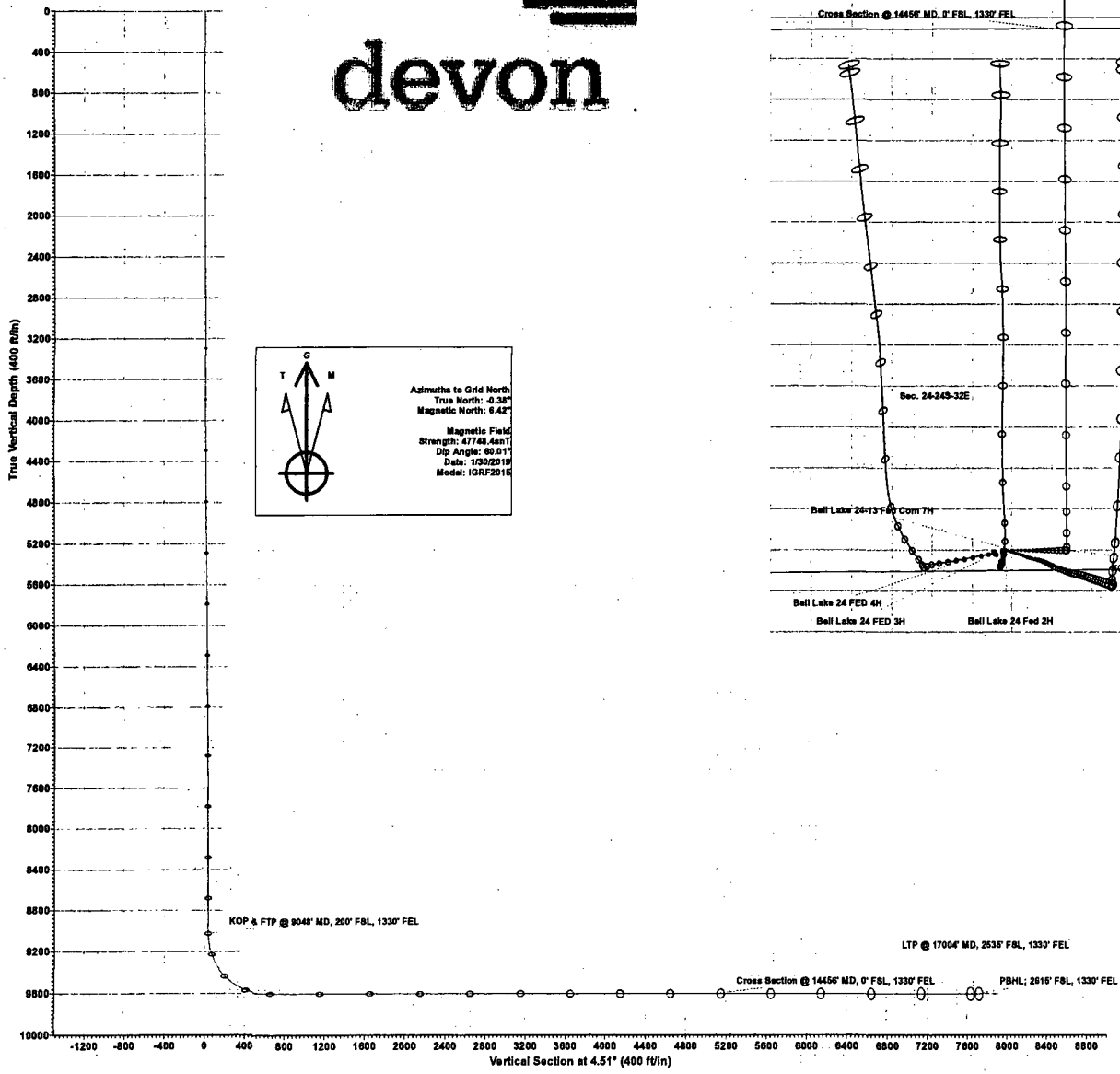
RKB @ 3579.20ft
3554.20

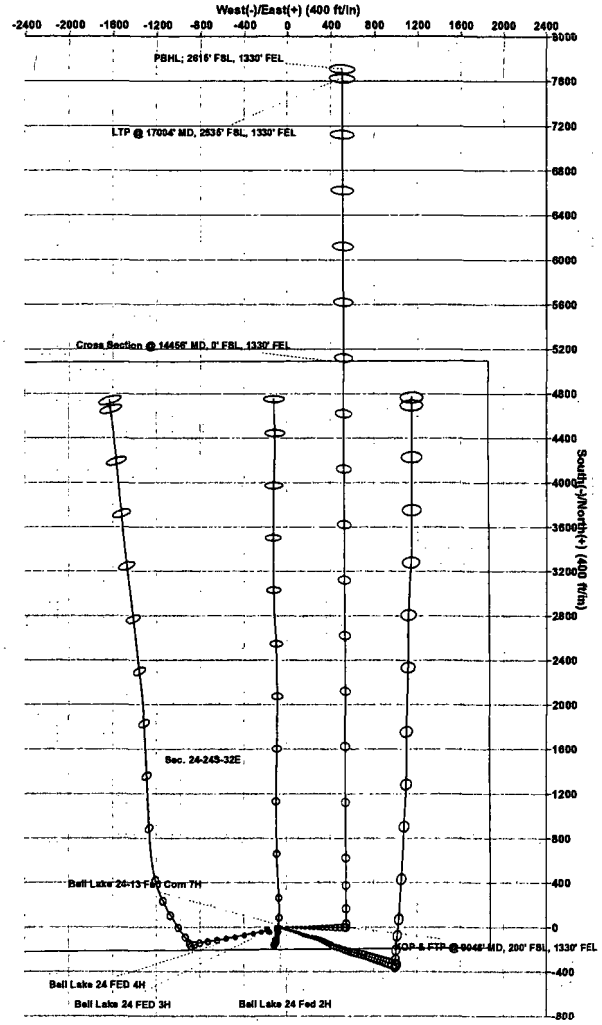
Northing	Easting	Latitude	Longitude
435921.97	760172.94	32.196448	-103.625881

SECTION DETAILS Permit Plan 2

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1375.00	0.00	0.00	1375.00	0.00	0.00	0.00	0.00	
1829.22	4.54	90.00	1828.74	0.00	17.99	1.00	1.41	
8395.60	4.54	90.00	8374.51	0.00	538.00	0.00	42.29	
8698.42	0.00	0.00	8677.00	0.00	550.00	1.50	43.23	
9048.46	0.00	0.00	9027.04	0.00	550.00	0.00	43.23	KOP & FTP @ 9048' MD, 200' FSL, 1330' FEL
9948.46	90.00	359.67	9600.00	572.95	546.72	10.00	614.15	
17083.83	90.00	359.67	9600.00	7708.21	505.87	0.00	7724.12	PBHL; 2615' FSL, 1330' FEL

devon





WCDSC Permian NM

Lea County (NAD83 New Mexico East)
Sec 24-24S-32E
Bell Lake 24-13 Fed Com 7H

Wellbore #1

Plan: Permit Plan 2

Standard Planning Report - Geographic

26 February, 2019

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Bell Lake 24-13 Fed Com 7H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3579.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3579.20ft
Site:	Sec 24-24S-32E	**North Reference:**	Grid
Well:	Bell Lake 24-13 Fed Com 7H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Project Lea County (NAD83 New Mexico East)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Sec 24-24S-32E

Site Position:		**Northing:**	-0.83 usft	**Latitude:**	30.988439
From:	Map	**Easting:**	-99.96 usft	**Longitude:**	-106.061149
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0.89 °

Well Bell Lake 24-13 Fed Com 7H

Well Position	**+N/-S**	0.00 ft	**Northing:**	435,921.97 usft	**Latitude:**	32.196448
	+E/-W	0.00 ft	**Easting:**	760,172.94 usft	**Longitude:**	-103.625881
Position Uncertainty		0.50 ft	**Wellhead Elevation:**		**Ground Level:**	3,554.20 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/30/2019	6.80	60.01	47,748.40982852

Design Permit Plan 2

Audit Notes:

Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	4.51

Plan Survey Tool Program **Date** 2/26/2019

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,083.83	Permit Plan 2 (Wellbore #1)	MWD+HDGM	
				OWSG MWD + HDGM	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,375.00	0.00	0.00	1,375.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,829.22	4.54	90.00	1,828.74	0.00	17.99	1.00	1.00	0.00	90.00	
8,395.60	4.54	90.00	8,374.51	0.00	538.00	0.00	0.00	0.00	0.00	
8,698.42	0.00	0.00	8,677.00	0.00	550.00	1.50	-1.50	0.00	180.00	
9,048.46	0.00	0.00	9,027.04	0.00	550.00	0.00	0.00	0.00	0.00	
9,948.46	90.00	359.67	9,600.00	572.95	546.72	10.00	10.00	0.00	359.67	Est. PBHL - Bell Lake
17,083.83	90.00	359.67	9,600.00	7,708.21	505.87	0.00	0.00	0.00	0.00	Est. PBHL - Bell Lake

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Bell Lake 24-13 Fed Com 7H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3579.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3579.20ft
Site:	Sec 24-24S-32E	**North Reference:**	Grid
Well:	Bell Lake 24-13 Fed Com 7H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
100.00	0.00	0.00	100.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
200.00	0.00	0.00	200.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
300.00	0.00	0.00	300.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
400.00	0.00	0.00	400.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
500.00	0.00	0.00	500.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
600.00	0.00	0.00	600.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
700.00	0.00	0.00	700.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
800.00	0.00	0.00	800.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
900.00	0.00	0.00	900.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
1,000.00	0.00	0.00	1,000.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
1,100.00	0.00	0.00	1,100.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
1,200.00	0.00	0.00	1,200.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
1,300.00	0.00	0.00	1,300.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
1,375.00	0.00	0.00	1,375.00	0.00	0.00	435,921.97	760,172.94	32.196448	-103.625881
1,400.00	0.25	90.00	1,400.00	0.00	0.05	435,921.97	760,172.99	32.196448	-103.625881
1,500.00	1.25	90.00	1,499.99	0.00	1.36	435,921.97	760,174.30	32.196448	-103.625877
1,600.00	2.25	90.00	1,599.94	0.00	4.42	435,921.97	760,177.35	32.196448	-103.625867
1,700.00	3.25	90.00	1,699.83	0.00	9.22	435,921.97	760,182.15	32.196448	-103.625851
1,800.00	4.25	90.00	1,799.61	0.00	15.76	435,921.97	760,188.69	32.196448	-103.625830
1,829.22	4.54	90.00	1,828.74	0.00	17.99	435,921.97	760,190.93	32.196448	-103.625823
1,900.00	4.54	90.00	1,899.30	0.00	23.60	435,921.97	760,196.54	32.196447	-103.625805
2,000.00	4.54	90.00	1,998.99	0.00	31.52	435,921.97	760,204.46	32.196447	-103.625779
2,100.00	4.54	90.00	2,098.67	0.00	39.44	435,921.97	760,212.38	32.196447	-103.625753
2,200.00	4.54	90.00	2,198.36	0.00	47.36	435,921.97	760,220.29	32.196447	-103.625728
2,300.00	4.54	90.00	2,298.05	0.00	55.28	435,921.97	760,228.21	32.196447	-103.625702
2,400.00	4.54	90.00	2,397.73	0.00	63.20	435,921.97	760,236.13	32.196447	-103.625677
2,500.00	4.54	90.00	2,497.42	0.00	71.12	435,921.97	760,244.05	32.196447	-103.625651
2,600.00	4.54	90.00	2,597.10	0.00	79.03	435,921.97	760,251.97	32.196446	-103.625625
2,700.00	4.54	90.00	2,696.79	0.00	86.95	435,921.97	760,259.89	32.196446	-103.625600
2,800.00	4.54	90.00	2,796.48	0.00	94.87	435,921.97	760,267.81	32.196446	-103.625574
2,900.00	4.54	90.00	2,896.16	0.00	102.79	435,921.97	760,275.73	32.196446	-103.625549
3,000.00	4.54	90.00	2,995.85	0.00	110.71	435,921.97	760,283.65	32.196446	-103.625523
3,100.00	4.54	90.00	3,095.53	0.00	118.63	435,921.97	760,291.57	32.196446	-103.625497
3,200.00	4.54	90.00	3,195.22	0.00	126.55	435,921.97	760,299.49	32.196446	-103.625472
3,300.00	4.54	90.00	3,294.91	0.00	134.47	435,921.97	760,307.41	32.196445	-103.625446
3,400.00	4.54	90.00	3,394.59	0.00	142.39	435,921.97	760,315.33	32.196445	-103.625421
3,500.00	4.54	90.00	3,494.28	0.00	150.31	435,921.97	760,323.24	32.196445	-103.625395
3,600.00	4.54	90.00	3,593.96	0.00	158.23	435,921.97	760,331.16	32.196445	-103.625369
3,700.00	4.54	90.00	3,693.65	0.00	166.15	435,921.97	760,339.08	32.196445	-103.625344
3,800.00	4.54	90.00	3,793.33	0.00	174.07	435,921.97	760,347.00	32.196445	-103.625318
3,900.00	4.54	90.00	3,893.02	0.00	181.99	435,921.97	760,354.92	32.196445	-103.625293
4,000.00	4.54	90.00	3,992.71	0.00	189.90	435,921.97	760,362.84	32.196444	-103.625267
4,100.00	4.54	90.00	4,092.39	0.00	197.82	435,921.97	760,370.76	32.196444	-103.625241
4,200.00	4.54	90.00	4,192.08	0.00	205.74	435,921.97	760,378.68	32.196444	-103.625216
4,300.00	4.54	90.00	4,291.76	0.00	213.66	435,921.97	760,386.60	32.196444	-103.625190
4,400.00	4.54	90.00	4,391.45	0.00	221.58	435,921.97	760,394.52	32.196444	-103.625165
4,500.00	4.54	90.00	4,491.14	0.00	229.50	435,921.97	760,402.44	32.196444	-103.625139
4,600.00	4.54	90.00	4,590.82	0.00	237.42	435,921.97	760,410.36	32.196444	-103.625113
4,700.00	4.54	90.00	4,690.51	0.00	245.34	435,921.97	760,418.28	32.196443	-103.625088
4,800.00	4.54	90.00	4,790.19	0.00	253.26	435,921.97	760,426.20	32.196443	-103.625062
4,900.00	4.54	90.00	4,889.88	0.00	261.18	435,921.97	760,434.11	32.196443	-103.625037
5,000.00	4.54	90.00	4,989.57	0.00	269.10	435,921.97	760,442.03	32.196443	-103.625011
5,100.00	4.54	90.00	5,089.25	0.00	277.02	435,921.97	760,449.95	32.196443	-103.624985
5,200.00	4.54	90.00	5,188.94	0.00	284.94	435,921.97	760,457.87	32.196443	-103.624960

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Bell Lake 24-13 Fed Com 7H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3579.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3579.20ft
Site:	Sec 24-24S-32E	**North Reference:**	Grid
Well:	Bell Lake 24-13 Fed Com 7H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,300.00	4.54	90.00	5,288.62	0.00	292.85	435,921.97	760,465.79	32.196443	-103.624934
5,400.00	4.54	90.00	5,388.31	0.00	300.77	435,921.97	760,473.71	32.196442	-103.624909
5,500.00	4.54	90.00	5,488.00	0.00	308.69	435,921.97	760,481.63	32.196442	-103.624883
5,600.00	4.54	90.00	5,587.68	0.00	316.61	435,921.97	760,489.55	32.196442	-103.624857
5,700.00	4.54	90.00	5,687.37	0.00	324.53	435,921.97	760,497.47	32.196442	-103.624832
5,800.00	4.54	90.00	5,787.05	0.00	332.45	435,921.97	760,505.39	32.196442	-103.624806
5,900.00	4.54	90.00	5,886.74	0.00	340.37	435,921.97	760,513.31	32.196442	-103.624781
6,000.00	4.54	90.00	5,986.43	0.00	348.29	435,921.97	760,521.23	32.196442	-103.624755
6,100.00	4.54	90.00	6,086.11	0.00	356.21	435,921.97	760,529.15	32.196441	-103.624729
6,200.00	4.54	90.00	6,185.80	0.00	364.13	435,921.97	760,537.06	32.196441	-103.624704
6,300.00	4.54	90.00	6,285.48	0.00	372.05	435,921.97	760,544.98	32.196441	-103.624678
6,400.00	4.54	90.00	6,385.17	0.00	379.97	435,921.97	760,552.90	32.196441	-103.624653
6,500.00	4.54	90.00	6,484.86	0.00	387.89	435,921.97	760,560.82	32.196441	-103.624627
6,600.00	4.54	90.00	6,584.54	0.00	395.81	435,921.97	760,568.74	32.196441	-103.624601
6,700.00	4.54	90.00	6,684.23	0.00	403.72	435,921.97	760,576.66	32.196441	-103.624576
6,800.00	4.54	90.00	6,783.91	0.00	411.64	435,921.97	760,584.58	32.196440	-103.624550
6,900.00	4.54	90.00	6,883.60	0.00	419.56	435,921.97	760,592.50	32.196440	-103.624525
7,000.00	4.54	90.00	6,983.28	0.00	427.48	435,921.97	760,600.42	32.196440	-103.624499
7,100.00	4.54	90.00	7,082.97	0.00	435.40	435,921.97	760,608.34	32.196440	-103.624473
7,200.00	4.54	90.00	7,182.66	0.00	443.32	435,921.97	760,616.26	32.196440	-103.624448
7,300.00	4.54	90.00	7,282.34	0.00	451.24	435,921.97	760,624.18	32.196440	-103.624422
7,400.00	4.54	90.00	7,382.03	0.00	459.16	435,921.97	760,632.10	32.196440	-103.624397
7,500.00	4.54	90.00	7,481.71	0.00	467.08	435,921.97	760,640.01	32.196439	-103.624371
7,600.00	4.54	90.00	7,581.40	0.00	475.00	435,921.97	760,647.93	32.196439	-103.624345
7,700.00	4.54	90.00	7,681.09	0.00	482.92	435,921.97	760,655.85	32.196439	-103.624320
7,800.00	4.54	90.00	7,780.77	0.00	490.84	435,921.97	760,663.77	32.196439	-103.624294
7,900.00	4.54	90.00	7,880.46	0.00	498.76	435,921.97	760,671.69	32.196439	-103.624269
8,000.00	4.54	90.00	7,980.14	0.00	506.67	435,921.97	760,679.61	32.196439	-103.624243
8,100.00	4.54	90.00	8,079.83	0.00	514.59	435,921.97	760,687.53	32.196439	-103.624217
8,200.00	4.54	90.00	8,179.52	0.00	522.51	435,921.97	760,695.45	32.196438	-103.624192
8,300.00	4.54	90.00	8,279.20	0.00	530.43	435,921.97	760,703.37	32.196438	-103.624166
8,395.60	4.54	90.00	8,374.51	0.00	538.00	435,921.97	760,710.94	32.196438	-103.624142
8,400.00	4.48	90.00	8,378.89	0.00	538.35	435,921.97	760,711.29	32.196438	-103.624141
8,500.00	2.98	90.00	8,478.67	0.00	544.85	435,921.97	760,717.78	32.196438	-103.624120
8,600.00	1.48	90.00	8,578.60	0.00	548.73	435,921.97	760,721.67	32.196438	-103.624107
8,698.42	0.00	0.00	8,677.00	0.00	550.00	435,921.97	760,722.94	32.196438	-103.624103
8,700.00	0.00	0.00	8,678.58	0.00	550.00	435,921.97	760,722.94	32.196438	-103.624103
8,800.00	0.00	0.00	8,778.58	0.00	550.00	435,921.97	760,722.94	32.196438	-103.624103
8,900.00	0.00	0.00	8,878.58	0.00	550.00	435,921.97	760,722.94	32.196438	-103.624103
9,000.00	0.00	0.00	8,978.58	0.00	550.00	435,921.97	760,722.94	32.196438	-103.624103
9,048.46	0.00	0.00	9,027.04	0.00	550.00	435,921.97	760,722.94	32.196438	-103.624103
KOP & FTP @ 9048' MD, 200' FSL, 1330' FEL									
9,100.00	5.15	359.67	9,078.52	2.32	549.99	435,924.29	760,722.92	32.196444	-103.624103
9,200.00	15.15	359.67	9,176.82	19.92	549.89	435,941.89	760,722.82	32.196493	-103.624103
9,300.00	25.15	359.67	9,270.58	54.34	549.69	435,976.30	760,722.62	32.196587	-103.624103
9,400.00	35.15	359.67	9,356.94	104.50	549.40	436,026.47	760,722.34	32.196725	-103.624103
9,500.00	45.15	359.67	9,433.27	168.91	549.03	436,090.88	760,721.97	32.196902	-103.624103
9,600.00	55.15	359.67	9,497.26	245.58	548.59	436,167.55	760,721.53	32.197113	-103.624102
9,700.00	65.15	359.67	9,546.97	332.21	548.10	436,254.18	760,721.03	32.197351	-103.624102
9,800.00	75.15	359.67	9,580.87	426.15	547.56	436,348.12	760,720.50	32.197609	-103.624102
9,900.00	85.15	359.67	9,597.95	524.55	547.00	436,446.52	760,719.93	32.197880	-103.624102
9,948.46	90.00	359.67	9,600.00	572.95	546.72	436,494.92	760,719.66	32.198013	-103.624101
10,000.00	90.00	359.67	9,600.00	624.49	546.42	436,546.46	760,719.36	32.198155	-103.624101
10,100.00	90.00	359.67	9,600.00	724.49	545.85	436,646.46	760,718.79	32.198429	-103.624101

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Bell Lake 24-13 Fed Com 7H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3579.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3579.20ft
Site:	Sec 24-24S-32E	**North Reference:**	Grid
Well:	Bell Lake 24-13 Fed Com 7H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,200.00	90.00	359.67	9,600.00	824.49	545.28	436,746.46	760,718.22	32.198704	-103.624101
10,300.00	90.00	359.67	9,600.00	924.49	544.71	436,846.45	760,717.64	32.198979	-103.624100
10,400.00	90.00	359.67	9,600.00	1,024.48	544.13	436,946.45	760,717.07	32.199254	-103.624100
10,500.00	90.00	359.67	9,600.00	1,124.48	543.56	437,046.45	760,716.50	32.199529	-103.624100
10,600.00	90.00	359.67	9,600.00	1,224.48	542.99	437,146.45	760,715.93	32.199804	-103.624100
10,700.00	90.00	359.67	9,600.00	1,324.48	542.42	437,246.45	760,715.35	32.200079	-103.624099
10,800.00	90.00	359.67	9,600.00	1,424.48	541.84	437,346.45	760,714.78	32.200354	-103.624099
10,900.00	90.00	359.67	9,600.00	1,524.48	541.27	437,446.44	760,714.21	32.200628	-103.624099
11,000.00	90.00	359.67	9,600.00	1,624.48	540.70	437,546.44	760,713.64	32.200903	-103.624098
11,100.00	90.00	359.67	9,600.00	1,724.47	540.13	437,646.44	760,713.06	32.201178	-103.624098
11,200.00	90.00	359.67	9,600.00	1,824.47	539.56	437,746.44	760,712.49	32.201453	-103.624098
11,300.00	90.00	359.67	9,600.00	1,924.47	538.98	437,846.44	760,711.92	32.201728	-103.624098
11,400.00	90.00	359.67	9,600.00	2,024.47	538.41	437,946.43	760,711.35	32.202003	-103.624097
11,500.00	90.00	359.67	9,600.00	2,124.47	537.84	438,046.43	760,710.77	32.202278	-103.624097
11,600.00	90.00	359.67	9,600.00	2,224.47	537.27	438,146.43	760,710.20	32.202553	-103.624097
11,700.00	90.00	359.67	9,600.00	2,324.46	536.69	438,246.43	760,709.63	32.202827	-103.624096
11,800.00	90.00	359.67	9,600.00	2,424.46	536.12	438,346.43	760,709.06	32.203102	-103.624096
11,900.00	90.00	359.67	9,600.00	2,524.46	535.55	438,446.43	760,708.48	32.203377	-103.624096
12,000.00	90.00	359.67	9,600.00	2,624.46	534.98	438,546.42	760,707.91	32.203652	-103.624096
12,100.00	90.00	359.67	9,600.00	2,724.46	534.40	438,646.42	760,707.34	32.203927	-103.624095
12,200.00	90.00	359.67	9,600.00	2,824.46	533.83	438,746.42	760,706.77	32.204202	-103.624095
12,300.00	90.00	359.67	9,600.00	2,924.45	533.26	438,846.42	760,706.19	32.204477	-103.624095
12,400.00	90.00	359.67	9,600.00	3,024.45	532.69	438,946.42	760,705.62	32.204752	-103.624094
12,500.00	90.00	359.67	9,600.00	3,124.45	532.11	439,046.41	760,705.05	32.205026	-103.624094
12,600.00	90.00	359.67	9,600.00	3,224.45	531.54	439,146.41	760,704.48	32.205301	-103.624094
12,700.00	90.00	359.67	9,600.00	3,324.45	530.97	439,246.41	760,703.90	32.205576	-103.624094
12,800.00	90.00	359.67	9,600.00	3,424.45	530.40	439,346.41	760,703.33	32.205851	-103.624093
12,900.00	90.00	359.67	9,600.00	3,524.44	529.82	439,446.41	760,702.76	32.206126	-103.624093
13,000.00	90.00	359.67	9,600.00	3,624.44	529.25	439,546.40	760,702.19	32.206401	-103.624093
13,100.00	90.00	359.67	9,600.00	3,724.44	528.68	439,646.40	760,701.61	32.206676	-103.624092
13,200.00	90.00	359.67	9,600.00	3,824.44	528.11	439,746.40	760,701.04	32.206951	-103.624092
13,300.00	90.00	359.67	9,600.00	3,924.44	527.53	439,846.40	760,700.47	32.207225	-103.624092
13,400.00	90.00	359.67	9,600.00	4,024.44	526.96	439,946.40	760,699.90	32.207500	-103.624092
13,500.00	90.00	359.67	9,600.00	4,124.43	526.39	440,046.40	760,699.32	32.207775	-103.624091
13,600.00	90.00	359.67	9,600.00	4,224.43	525.82	440,146.39	760,698.75	32.208050	-103.624091
13,700.00	90.00	359.67	9,600.00	4,324.43	525.24	440,246.39	760,698.18	32.208325	-103.624091
13,800.00	90.00	359.67	9,600.00	4,424.43	524.67	440,346.39	760,697.61	32.208600	-103.624091
13,900.00	90.00	359.67	9,600.00	4,524.43	524.10	440,446.39	760,697.03	32.208875	-103.624090
14,000.00	90.00	359.67	9,600.00	4,624.43	523.53	440,546.39	760,696.46	32.209150	-103.624090
14,100.00	90.00	359.67	9,600.00	4,724.42	522.95	440,646.38	760,695.89	32.209424	-103.624090
14,200.00	90.00	359.67	9,600.00	4,824.42	522.38	440,746.38	760,695.32	32.209699	-103.624089
14,300.00	90.00	359.67	9,600.00	4,924.42	521.81	440,846.38	760,694.74	32.209974	-103.624089
14,400.00	90.00	359.67	9,600.00	5,024.42	521.24	440,946.38	760,694.17	32.210249	-103.624089
14,456.00	90.00	359.67	9,600.00	5,080.42	520.91	441,002.38	760,693.85	32.210403	-103.624089
Cross Section @ 14456' MD, 0' FSL, 1330' FEL									
14,500.00	90.00	359.67	9,600.00	5,124.42	520.66	441,046.38	760,693.60	32.210524	-103.624089
14,600.00	90.00	359.67	9,600.00	5,224.42	520.09	441,146.38	760,693.03	32.210799	-103.624088
14,700.00	90.00	359.67	9,600.00	5,324.41	519.52	441,246.37	760,692.45	32.211074	-103.624088
14,800.00	90.00	359.67	9,600.00	5,424.41	518.95	441,346.37	760,691.88	32.211349	-103.624088
14,900.00	90.00	359.67	9,600.00	5,524.41	518.37	441,446.37	760,691.31	32.211623	-103.624087
15,000.00	90.00	359.67	9,600.00	5,624.41	517.80	441,546.37	760,690.74	32.211898	-103.624087
15,100.00	90.00	359.67	9,600.00	5,724.41	517.23	441,646.37	760,690.16	32.212173	-103.624087
15,200.00	90.00	359.67	9,600.00	5,824.41	516.66	441,746.36	760,689.59	32.212448	-103.624087
15,300.00	90.00	359.67	9,600.00	5,924.40	516.08	441,846.36	760,689.02	32.212723	-103.624086

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Bell Lake 24-13 Fed Com 7H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3579.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3579.20ft
Site:	Sec 24-24S-32E	**North Reference:**	Grid
Well:	Bell Lake 24-13 Fed Com 7H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,400.00	90.00	359.67	9,600.00	6,024.40	515.51	441,946.36	760,688.45	32.212998	-103.624086
15,500.00	90.00	359.67	9,600.00	6,124.40	514.94	442,046.36	760,687.87	32.213273	-103.624086
15,600.00	90.00	359.67	9,600.00	6,224.40	514.37	442,146.36	760,687.30	32.213548	-103.624085
15,700.00	90.00	359.67	9,600.00	6,324.40	513.79	442,246.36	760,686.73	32.213822	-103.624085
15,800.00	90.00	359.67	9,600.00	6,424.40	513.22	442,346.35	760,686.16	32.214097	-103.624085
15,900.00	90.00	359.67	9,600.00	6,524.39	512.65	442,446.35	760,685.58	32.214372	-103.624085
16,000.00	90.00	359.67	9,600.00	6,624.39	512.08	442,546.35	760,685.01	32.214647	-103.624084
16,100.00	90.00	359.67	9,600.00	6,724.39	511.50	442,646.35	760,684.44	32.214922	-103.624084
16,200.00	90.00	359.67	9,600.00	6,824.39	510.93	442,746.35	760,683.87	32.215197	-103.624084
16,300.00	90.00	359.67	9,600.00	6,924.39	510.36	442,846.34	760,683.29	32.215472	-103.624083
16,400.00	90.00	359.67	9,600.00	7,024.39	509.79	442,946.34	760,682.72	32.215747	-103.624083
16,500.00	90.00	359.67	9,600.00	7,124.39	509.21	443,046.34	760,682.15	32.216021	-103.624083
16,600.00	90.00	359.67	9,600.00	7,224.38	508.64	443,146.34	760,681.58	32.216296	-103.624083
16,700.00	90.00	359.67	9,600.00	7,324.38	508.07	443,246.34	760,681.00	32.216571	-103.624082
16,800.00	90.00	359.67	9,600.00	7,424.38	507.50	443,346.34	760,680.43	32.216846	-103.624082
16,900.00	90.00	359.67	9,600.00	7,524.38	506.92	443,446.33	760,679.86	32.217121	-103.624082
17,000.00	90.00	359.67	9,600.00	7,624.38	506.35	443,546.33	760,679.29	32.217396	-103.624081
17,003.84	90.00	359.67	9,600.00	7,628.22	506.33	443,550.17	760,679.26	32.217406	-103.624081
LTP @ 17004' MD, 2535' FSL, 1330' FEL									
[redacted]	90.00	359.67	[redacted]	7,708.21	505.87	443,630.16	760,678.81	32.217626	-103.624081
PBHL; 2615' FSL, 1330' FEL									

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
Est. PBHL - Bell Lake 24	0.00	0.00	0.00	7,708.21	505.87	443,630.16	760,678.81	32.217626	-103.624081
- plan misses target center by 7724.79ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
9,048.46	9,027.04	0.00	550.00	KOP & FTP @ 9048' MD, 200' FSL, 1330' FEL
14,456.00	9,600.00	5,080.42	520.91	Cross Section @ 14456' MD, 0' FSL, 1330' FEL
17,003.84	9,600.00	7,628.22	506.33	LTP @ 17004' MD, 2535' FSL, 1330' FEL
17,083.83	9,600.00	7,708.21	505.87	PBHL; 2615' FSL, 1330' FEL

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-43203	97964	WC-025 G-07 S243225C;LWR BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
39911	BELL LAKE 24-13 FED COM	7H

[7] OGRID No.	[8] Operator Name	[9] Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3554.2

[10] Surface Location

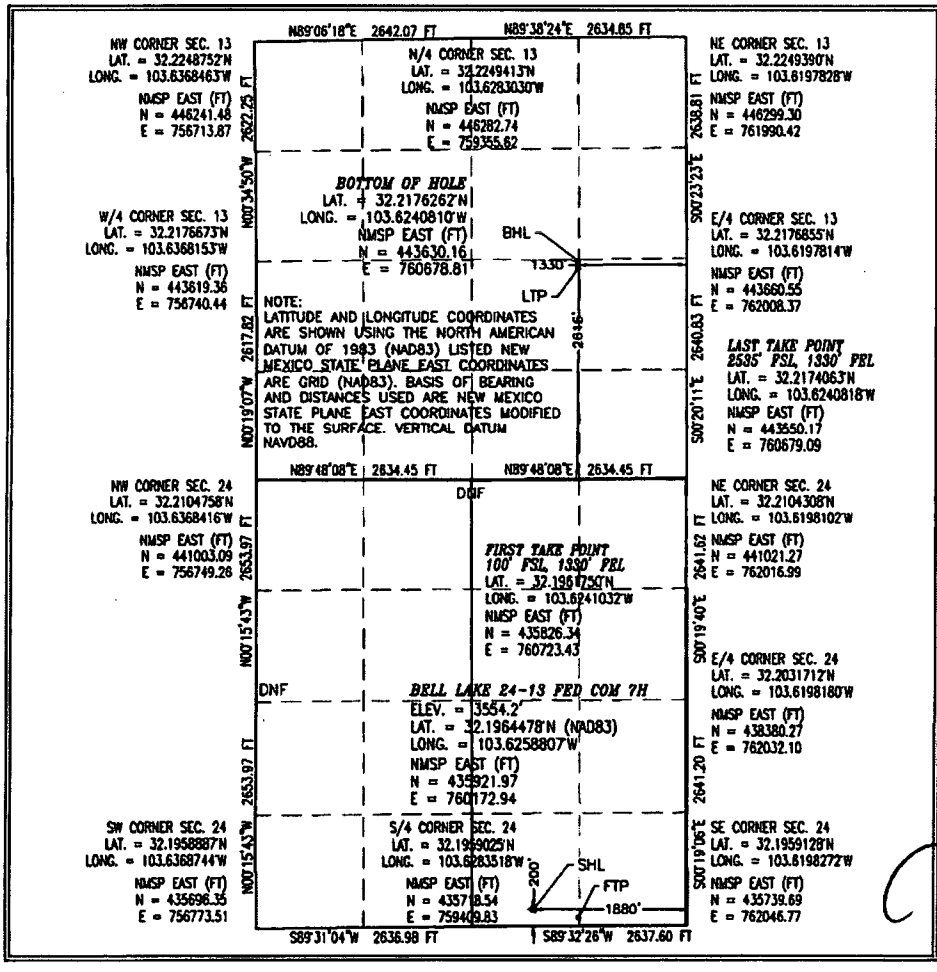
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	24	24 S	32 E		200	SOUTH	1880	EAST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	13	24 S	32 E		2615	SOUTH	1330	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 3/4/2019
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 20, 2019
Date of Survey

FILIMON F. JARAMILLO
NEW MEXICO
12797
REGISTERED PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor:
Certificate Number: FILIMON F. JARAMILLO, PLS 12797
SURVEY NO. 3783D

Intent [x] As Drilled [ ]

API #
30-025-43203

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION CO., L.P.	BELL LAKE 24-13 FED COM	7H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	24	24S	32E		200	FSL	1330	FEL	LEA

Latitude	Longitude	NAD
32.196438	-103.624103	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	24	24S	32E		100	SOUTH	1330	EAST	LEA

Latitude	Longitude	NAD
32.1961750	103.6241032	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	13	24S	32E		2535	SOUTH	1330	EAST	LEA

Latitude	Longitude	NAD
32.2174063	103.6240818	83

Is this well the defining well for the Horizontal Spacing Unit? [Y]

Is this well an infill well? [ ]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-43203	96674	TRIPLE X;BONE SPRING, WEST

[4] Property Code	[5] Property Name	[6] Well Number
39911	BELL LAKE 24-13 FED COM	7H

[7] OGRID No.	[8] Operator Name	[9] Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3554.2

[10] Surface Location

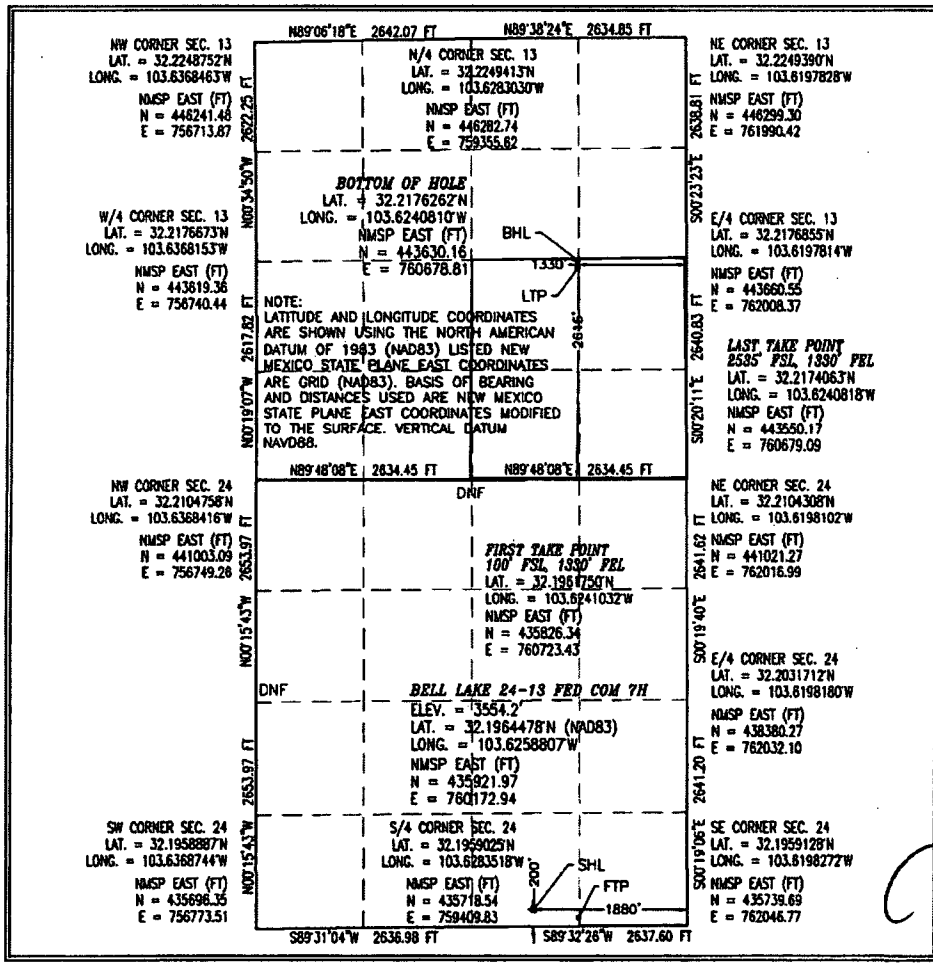
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	24	24 S	32 E		200	SOUTH	1880	EAST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	13	24 S	32 E		2615	SOUTH	1330	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
160			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 3/4/2019
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 20, 2019
Date of Survey

FILIMON F. JARAMILLO
NEW MEXICO
12797
REGISTERED PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor:
Certificate Number: FILIMON F. JARAMILLO, PLS 12797
SURVEY NO. 3783D

Intent [x] As Drilled [ ]

API #
30-025-43203

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION CO., L.P.	BELL LAKE 24-13 FED COM	7H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	24	24S	32E		200	FSL	1330	FEL	LEA

Latitude	Longitude	NAD
32.196438	-103.624103	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	24	24S	32E		100	SOUTH	1330	EAST	LEA

Latitude	Longitude	NAD
32.1961750	103.6241032	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	13	24S	32E		2535	SOUTH	1330	EAST	LEA

Latitude	Longitude	NAD
32.2174063	103.6240818	83

Is this well the defining well for the Horizontal Spacing Unit? [Y]

Is this well an infill well? [ ]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018