

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

5. Lease Serial No.
NMNM116574

If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

MAR 12 2019

RECEIVED

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
BELL LAKE 24-13 FED COM 6H

9. API Well No.
30-025-43201-00-X1

10. Field and Pool or Exploratory Area
WC-025 G-08 S243213C; WOLFCAMP

11. County or Parish, State
LEA COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY
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 SESE 230FSL 950FEL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 2619 FSL & 330 FEL, 13-24S-32E.

TVD/MD change from 9740'/14,263' to 12,500'/20,139'

Change well name from Bell Lake 24 Fed 6H to Bell Lake 24-13 Fed Com 6H

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

NEW APP-ID (325162)
Carlsbad Field Office
OCD Hobbs

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

Electronic Submission #456617 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION COMPANY LP, sent to the Hobbs
Committed to AFMSS for processing by MUSTAFA HAQUE on 03/04/2019 (19MH0048SE)

Name (Printed/Typed) REBECCA DEAL Title REGULATORY COMPLIANCE PROFESSOR

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.

KZ

**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 6H
SURFACE HOLE FOOTAGE:	230' FSL & 950' FEL
BOTTOM HOLE FOOTAGE:	2619' FSL & 330' FEL
LOCATION:	Section 24, T. 24 S., R 32 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input type="radio"/> Multibowl	<input checked="" type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input checked="" type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

All Previous COAs Still Apply.

A. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately 1140 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 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.

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 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.

Alternate Casing Design:

4. The 13-3/8 inch surface casing shall be set at approximately **1140 feet** (a minimum of 25 feet 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 **8**

hours 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.**

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

Operator is Approved for variance to drill 10.625" hole instead of 9.875" for intermediate 1 with 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.

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 **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 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 **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

Bell Lake 24-13 Fed Com 6H

1. Geologic Formations

TVD of target	12500	Pilot hole depth	N/A
MD at TD:	20138	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
RUSTLER	1200		
DELAWARE	5000		
Bone Spring 3rd	11885		
Landing Point	12500		

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

- see COA

2. Casing Program (Primary Design)

Hole Size	Casing Interval		Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
	From	To							
17 1/2	0	1185 1225 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	11885 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 Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

D=11855
D=12500
D=20138

- Fluid Filled

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

Casing Program (Alternative Design) - see COA

Hole Size	Casing Interval		Csg. Size	Wt (PPF)	Grade	Conn	Min SF Collapse	Min SF Burst	Min SF Tension
	From	To							
17 1/2	0	1185 1225 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	11885 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 Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

] Fluid Filled

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

- Not enough cement to reach surface with 10.625" hole

Bell Lake 24-13 Fed Com 6H

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

Casing	# Skis	TOC	Wt. (lb/gal)	Yld (ft ³ /sack)	Slurry Description
Surface	925	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	780	Surf	9	3.27	Lead: Class C Cement + additives
	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1 Two Stage w/ DV @ TVD of Delaware	541	200' above DV	9	3.27	1st stage Lead: Class C Cement + additives
	93	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
	480	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 Intermediate Squeeze	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
	780	Surf	9	3.27	Lead: Class C Cement + additives
	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	62	9968	9.0	3.3	Lead: Class H / C + additives
	511	11968	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%

3. Cementing Program (Alternative Design)

Casing	# Skis	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	925	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	512	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1 Two Stage w DV @ ~4500	317	Surf	9	3.27	1st stage Lead: Class C Cement + additives
	55	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
	336	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 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	512	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	117	9968	9.0	3.3	Lead: Class H / C + additives
	1060	11968	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%

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 5M
			Blind Ram	X	
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	10M	Annular (5M)	X	100% of rated working pressure 10M
			Blind Ram	X	
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
Y	A variance is requested to run a 5 M annular on a 10M system				

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	11.5
Intermediate	DBE / Cut Brine	11.5
Production	OBM	11.5

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 submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional 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	Specify 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.

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

8. Other facets of operation

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 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

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 30-025-43201	² Pool Code 28309	³ Pool Name WC-1256-118243713C-WOLF-CAMP
⁴ Property Code	⁵ Property Name BELL LAKE 24-13 FED COM 6H	⁶ Well Number 330
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3547.3

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
P	24	24 S	32 E		230	SOUTH	950	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
I	13	24 S	32 E		2619	SOUTH	330	EAST	LEA

¹² Dedicated Acres 240	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---------------------------------------------	-------------------------------	----------------------------------	-------------------------

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.

NOTE:
LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD83.

¹⁶ 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.

Signature: Rebecca Deal Date: 3/4/2019

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

Signature and Seal of Professional Surveyor: PILMON P. JARAMILLO

Certificate Number: PILMON P. JARAMILLO, PLS 12797

SURVEY NO. 3758C

Intent As Drilled

API # 30-025-43201		
Operator Name: DEVON ENERGY PRODUCTION CO., L.P.	Property Name: BELL LAKE 24-13 FED COM	Well Number 6H

Kick Off Point (KOP)

UL	Section 24	Township 24S	Range 32E	Lot	Feet 50	From N/S FSL	Feet 330	From E/W FEL	County LEA
Latitude 32.196035					Longitude -103.620897				NAD 83

First Take Point (FTP)

UL P	Section 24	Township 24S	Range 32E	Lot	Feet 100	From N/S SOUTH	Feet 330	From E/W EAST	County LEA
Latitude 32.1961789					Longitude 103.6208712				NAD 83

Last Take Point (LTP)

UL I	Section 13	Township 24S	Range 32E	Lot	Feet 2539	From N/S SOUTH	Feet 330	From E/W EAST	County LEA
Latitude 32.2174097					Longitude 103.6208491				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? **Y**

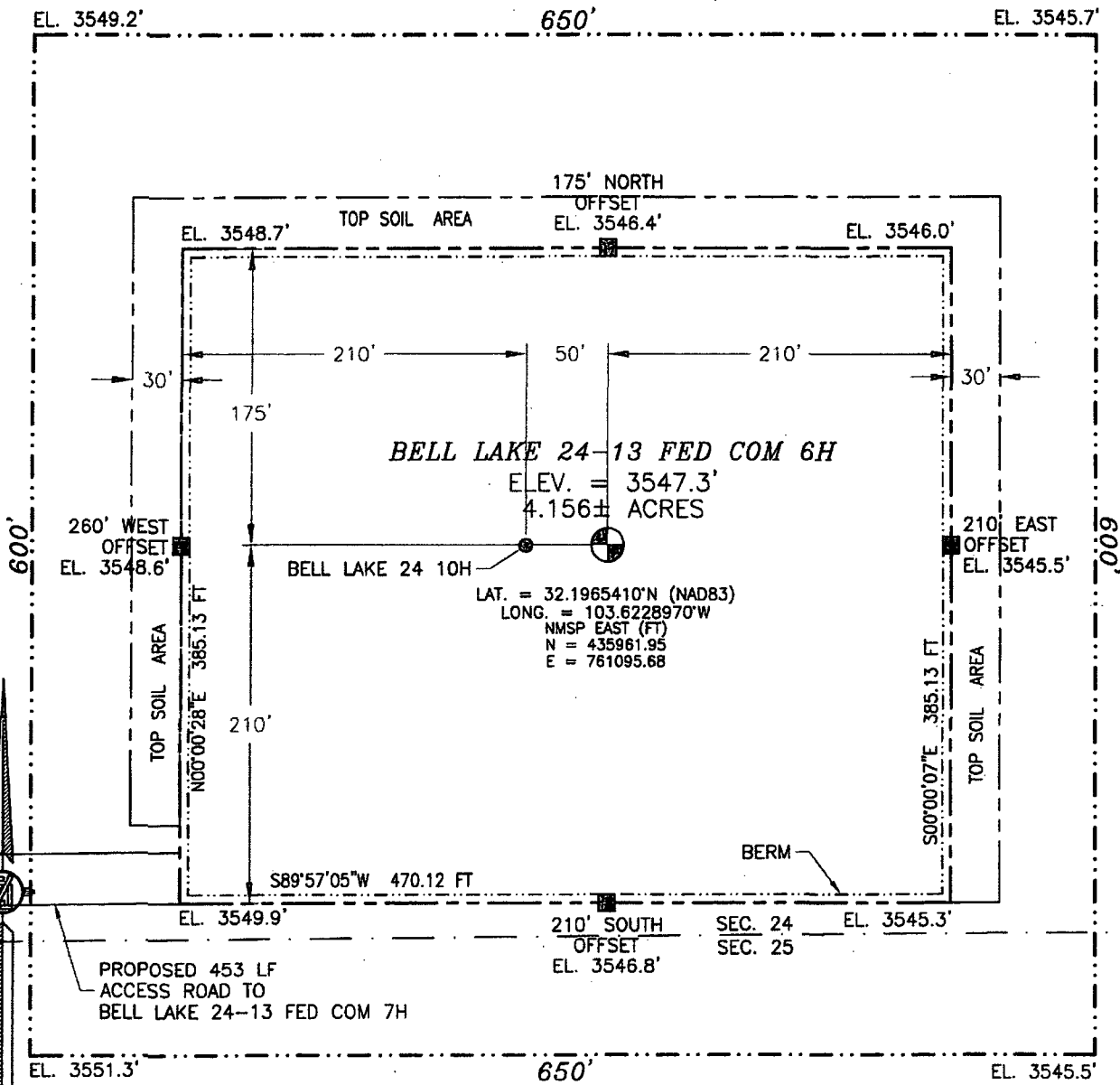
Is this well an infill well?

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

**SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP**

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD88.



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM INTERSECTION OF CR 1 (ORLA HIGHWAY) AND STATE HIGHWAY 128 GO APPROX. 3.0 MILES EAST ON STATE HIGHWAY 128 TO A LEASE ROAD ON RIGHT SIDE (SOUTH) OF STATE HIGHWAY 128. TURN RIGHT (SOUTH) AT CATTLE GUARD, GO APPROX. 1.1 MILES TO LEASE ROAD ON RIGHT SIDE (WEST), TURN RIGHT (WEST) GO APPROX. 0.4 OF A MILE. TURN RIGHT (NORTH) GO APPROX. 671' TO EXISTING PAD. TURN RIGHT (EAST) GO APPROX. 143' TO THE SOUTHWEST PAD CORNER FOR BELL LAKE 24-13 FED COM 7H. THEN FROM THE SOUTHWEST PAD CORNER GO EAST APPROX. 453' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

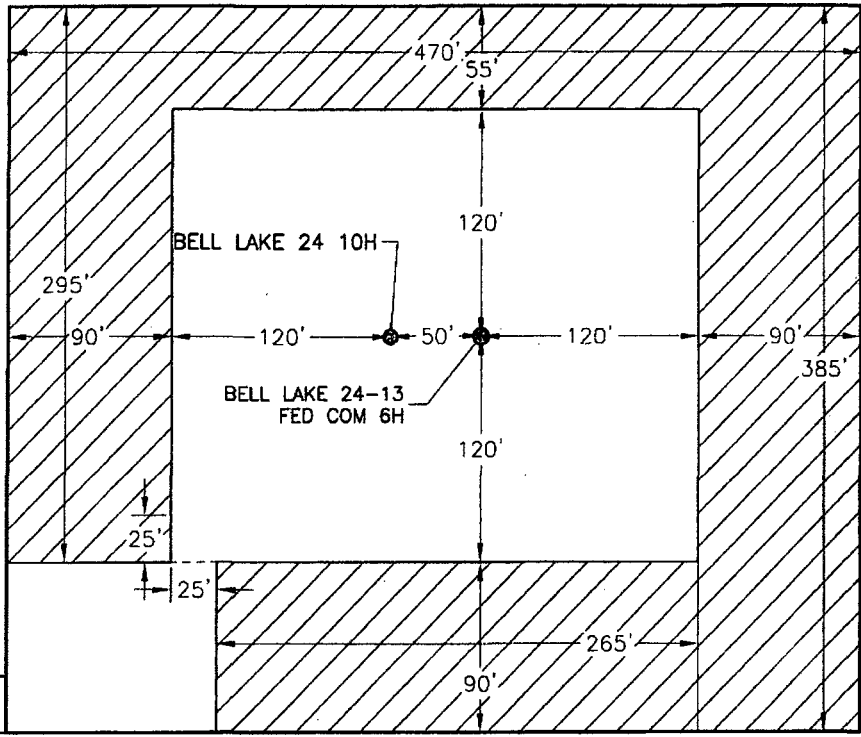
**DEVON ENERGY PRODUCTION COMPANY, L.P.
BELL LAKE 24-13 FED COM 6H
LOCATED 230 FT. FROM THE SOUTH LINE
AND 950 FT. FROM THE EAST LINE OF
SECTION 24, TOWNSHIP 24 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM**

FEBRUARY 20, 2019

SURVEY NO. 3758C

MADRON SURVEYING, INC. 301 SOUTH CAHAL (575) 734-3341 **CARLSBAD, NEW MEXICO**

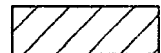
SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO
 INTERIM SITE BUILD PLAN

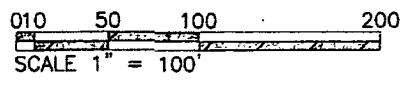


SEC. 24
 SEC. 25



PROPOSED 453 LF
 ACCESS ROAD TO
 BELL LAKE 24-13 FED COM 7H

 DENOTES INTERIM PAD
 RECLAMATION AREA
 2.307± ACRES

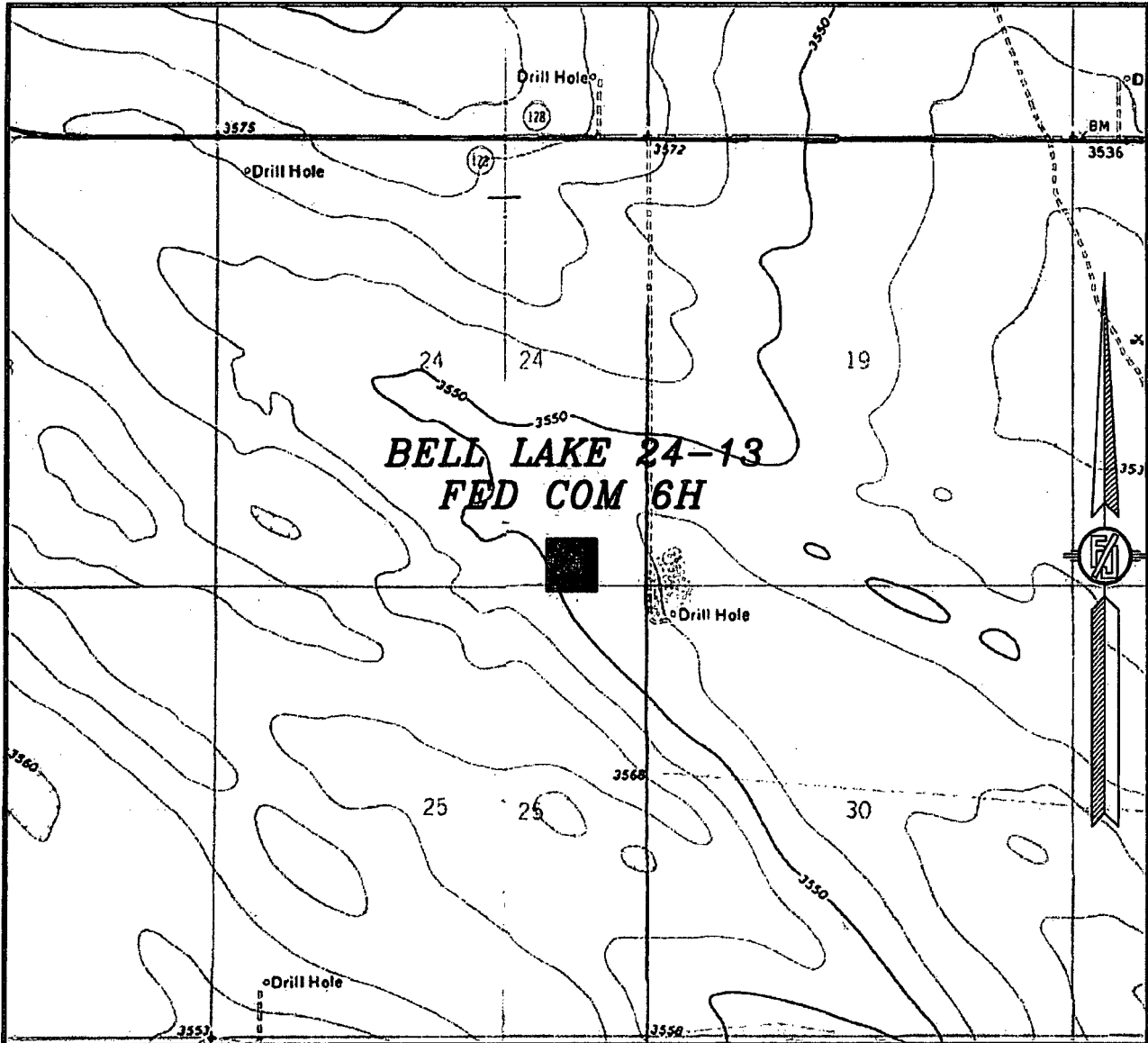


DEVON ENERGY PRODUCTION COMPANY, L.P.
BELL LAKE 24-13 FED COM 6H
 LOCATED 230 FT. FROM THE SOUTH LINE
 AND 950 FT. FROM THE EAST LINE OF
 SECTION 24, TOWNSHIP 24 SOUTH,
 RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO
 LAND STATUS: BLM

FEBRUARY 20, 2019
 SURVEY NO. 3758C

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 PADUCA BREAKS NW

NOT TO SCALE

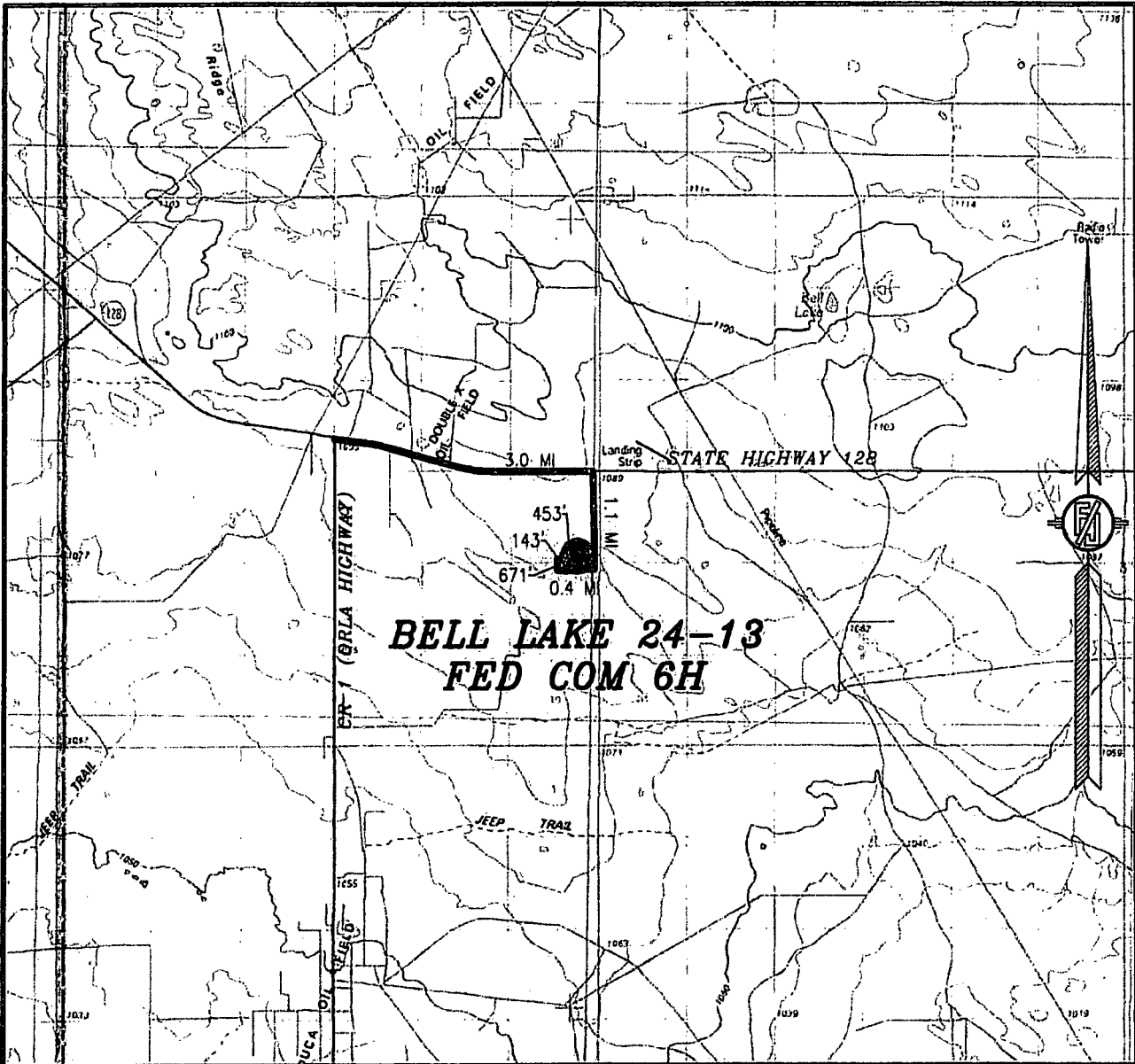
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 LEA COUNTY, STATE OF NEW MEXICO
 LAND STATUS: BLM

FEBRUARY 20, 2019

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MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

BELL LAKE 24-13 FED COM 6H

LOCATED 230 FT. FROM THE SOUTH LINE

AND 950 FT. FROM THE EAST LINE OF

SECTION 24, TOWNSHIP 24 SOUTH,
 RANGE 32 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

LAND STATUS: BLM

FEBRUARY 20, 2019

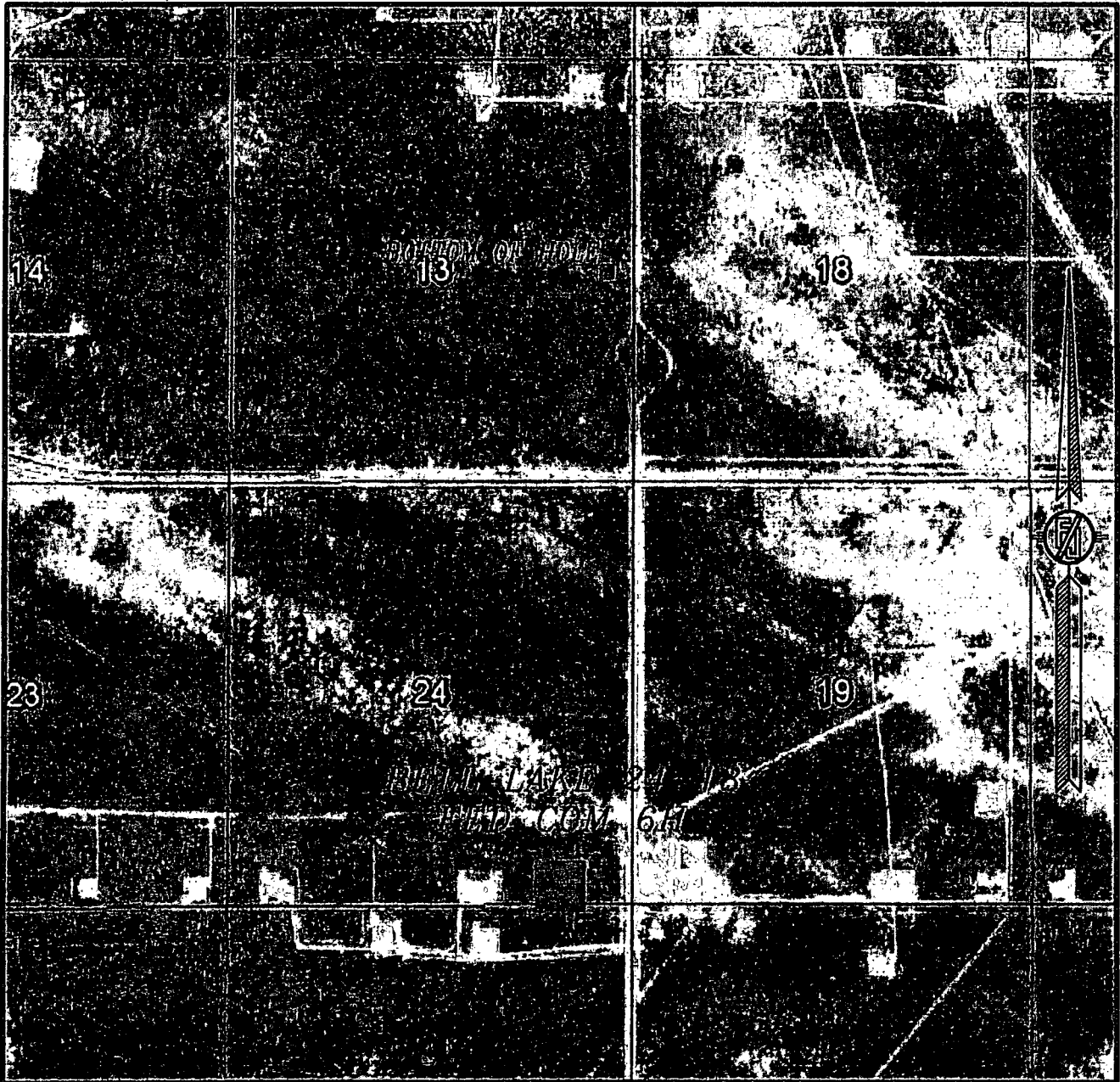
DIRECTIONS TO LOCATION

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SURVEY NO. 3758C

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2017

DEVON ENERGY PRODUCTION COMPANY, L.P.
BELL LAKE 24-13 FED COM 6H
LOCATED 230 FT. FROM THE SOUTH LINE
AND 950 FT. FROM THE EAST LINE OF
SECTION 24, TOWNSHIP 24 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

FEBRUARY 20, 2019

SURVEY NO. 3758C

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2017

DEVON ENERGY PRODUCTION COMPANY, L.P.
BELL LAKE 24-13 FED COM 6H
LOCATED 230 FT. FROM THE SOUTH LINE
AND 950 FT. FROM THE EAST LINE OF
SECTION 24, TOWNSHIP 24 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LAND STATUS: BLM

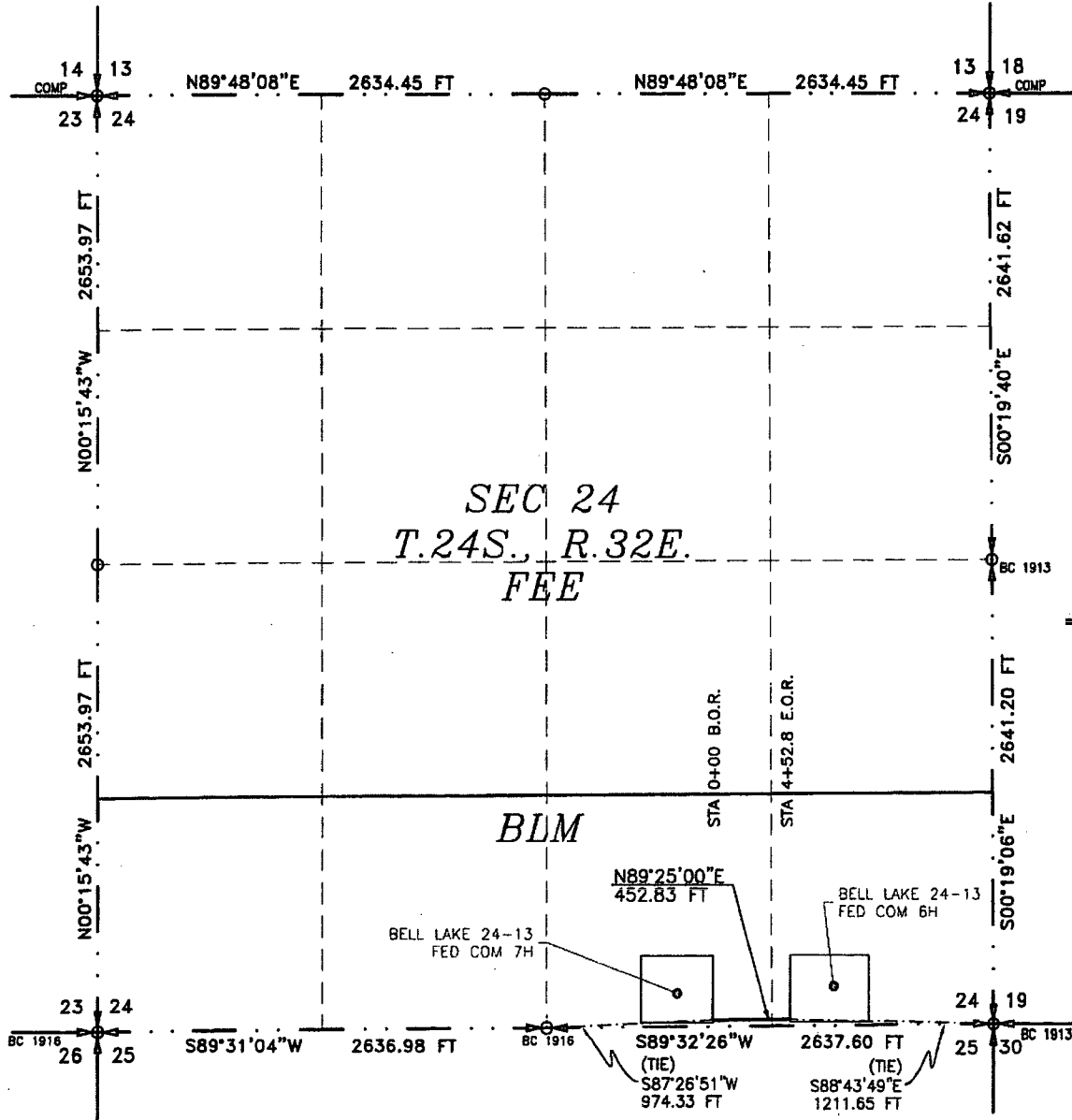
FEBRUARY 20, 2019

SURVEY NO. 3758C

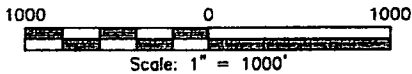
MADRON SURVEYING, INC. 301 SOUTH CAROL (575) 234-3341 CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT
 ACCESS ROAD TO THE BELL LAKE 24-13 FED COM 6H

DEVON ENERGY PRODUCTION COMPANY, L.P.
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO
 FEBRUARY 20, 2019



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 21 DAY OF FEBRUARY 2019

(Signature of Filmon F. Jaramillo)
 FILMON F. JARAMILLO, P.L.S. 12797
 301 SOUTH CANAL
 (575) 234-3341

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

SHEET: 1-2

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 3758C

ACCESS ROAD PLAT
ACCESS ROAD TO THE BELL LAKE 24-13 FED COM 6H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
FEBRUARY 20, 2019

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S87°26'51"W, A DISTANCE OF 974.33 FEET;

THENCE N89°25'00"E A DISTANCE OF 452.83 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 24, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S88°43'49"E, A DISTANCE OF 1211.65 FEET;

SAID STRIP OF LAND BEING 452.83 FEET OR 27.44 RODS IN LENGTH, CONTAINING 0.312 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 345.23 L.F. 20.92 RODS 0.238 ACRES
SE/4 SE/4 107.60 L.F. 6.52 RODS 0.074 ACRES

GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 20 DAY OF FEBRUARY, 2019

Filimon F. Jaramillo
12797
FILIMON F. JARAMILLO P.L.S. 12797

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

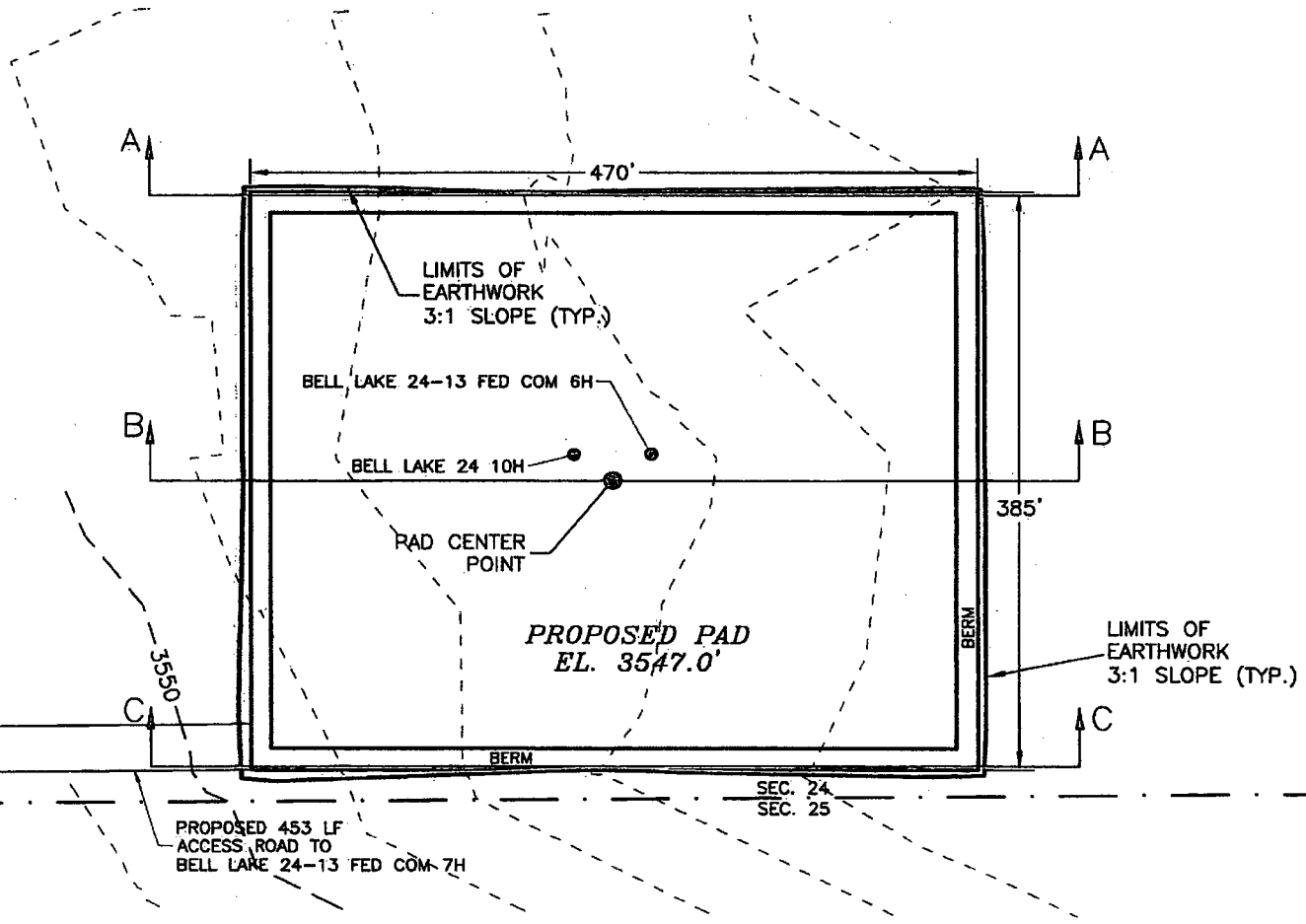
SHEET: 2-2

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

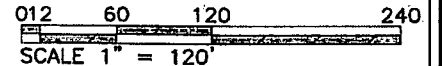
SURVEY NO. 3758C

301 SOUTH CANAL
(575) 234-3341

PLAN VIEW



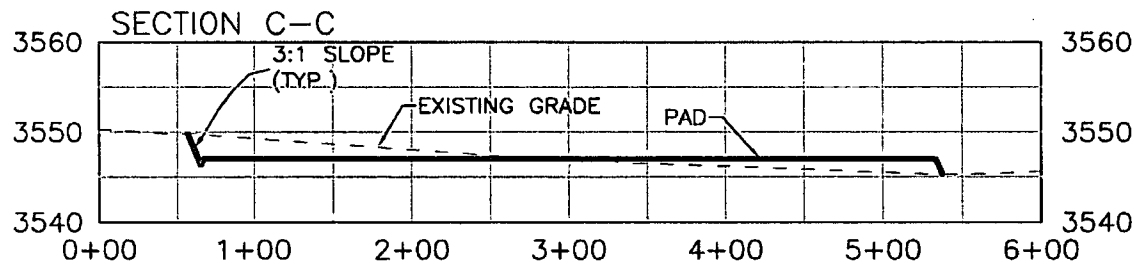
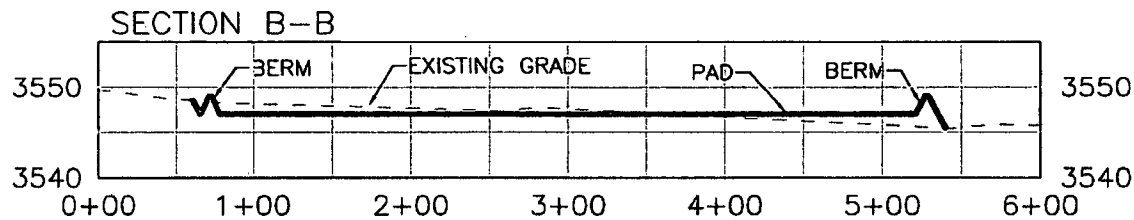
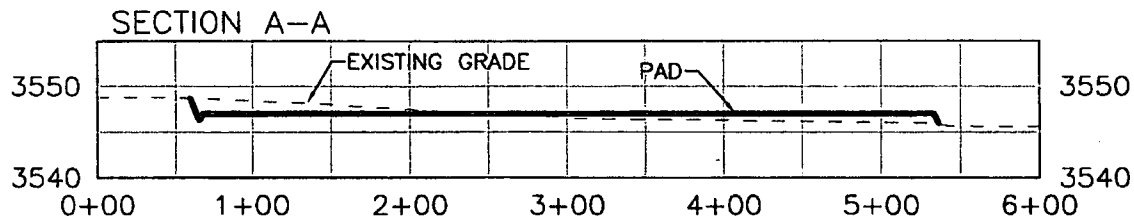
DEVON ENERGY PRODUCTION COMPANY, L.P.
 GRADING PLAN AND CROSS SECTIONS
 FOR BELL LAKE 24-13 FED COM 6H
 SECTION 24, TOWNSHIP 24 SOUTH,
 RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO



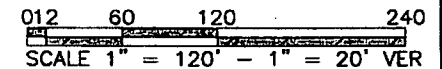
CUT	FILL	NET
2820 CU. YD	3218 CU. YD	398 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

CROSS SECTIONS



DEVON ENERGY PRODUCTION COMPANY, L.P.
GRADING PLAN AND CROSS SECTIONS
FOR BELL LAKE 24-13 FED COM 6H
 SECTION 24, TOWNSHIP 24 SOUTH,
 RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO

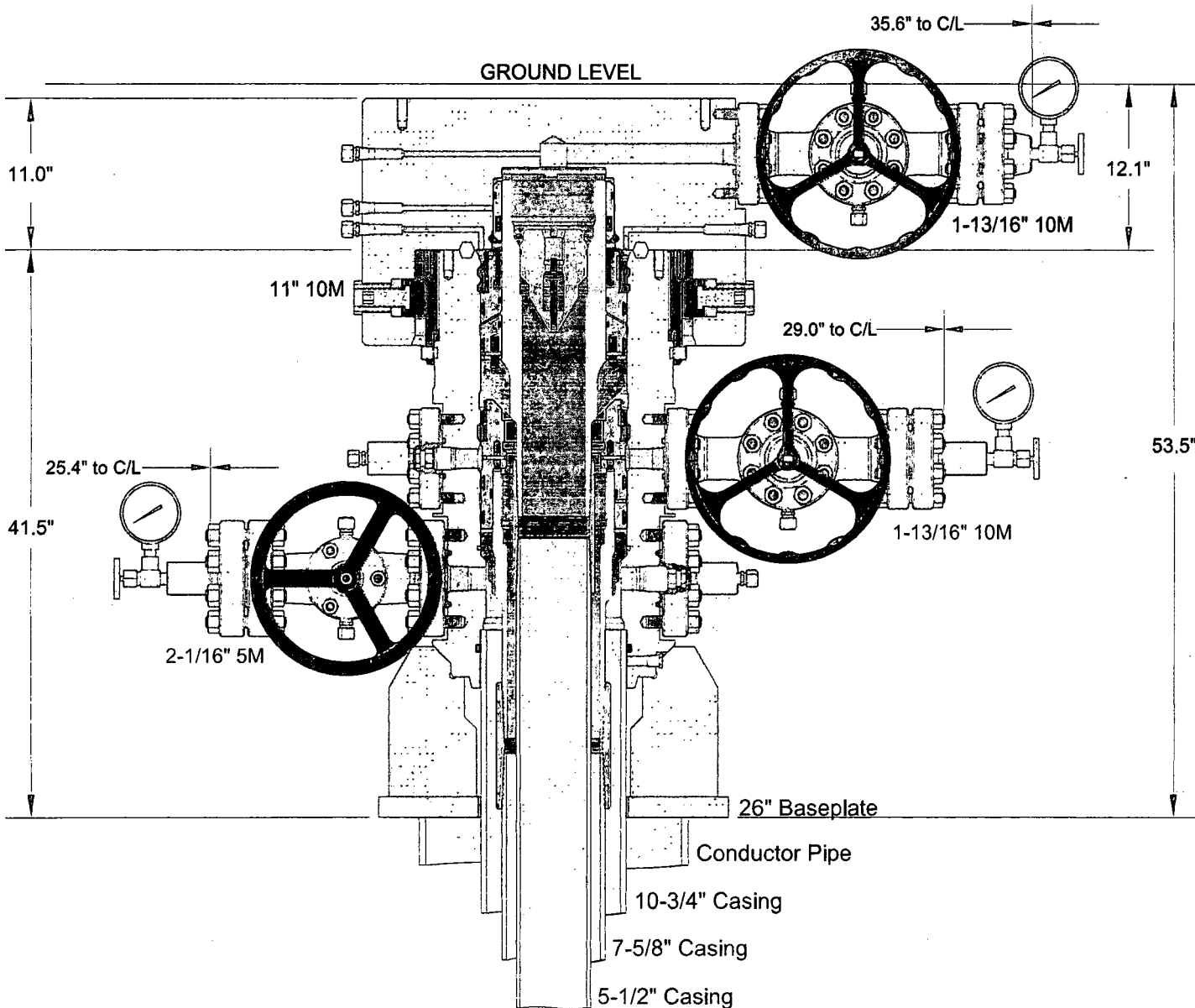


CUT	FILL	NET
2820 CU. YD	3218 CU. YD	398 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

MADRON SURVEYING, INC. 301 SOUTH CANAL **CARLSBAD, NEW MEXICO**
 (575) 234-3341

SHEET 2-2
SURVEY NO. 3758C



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

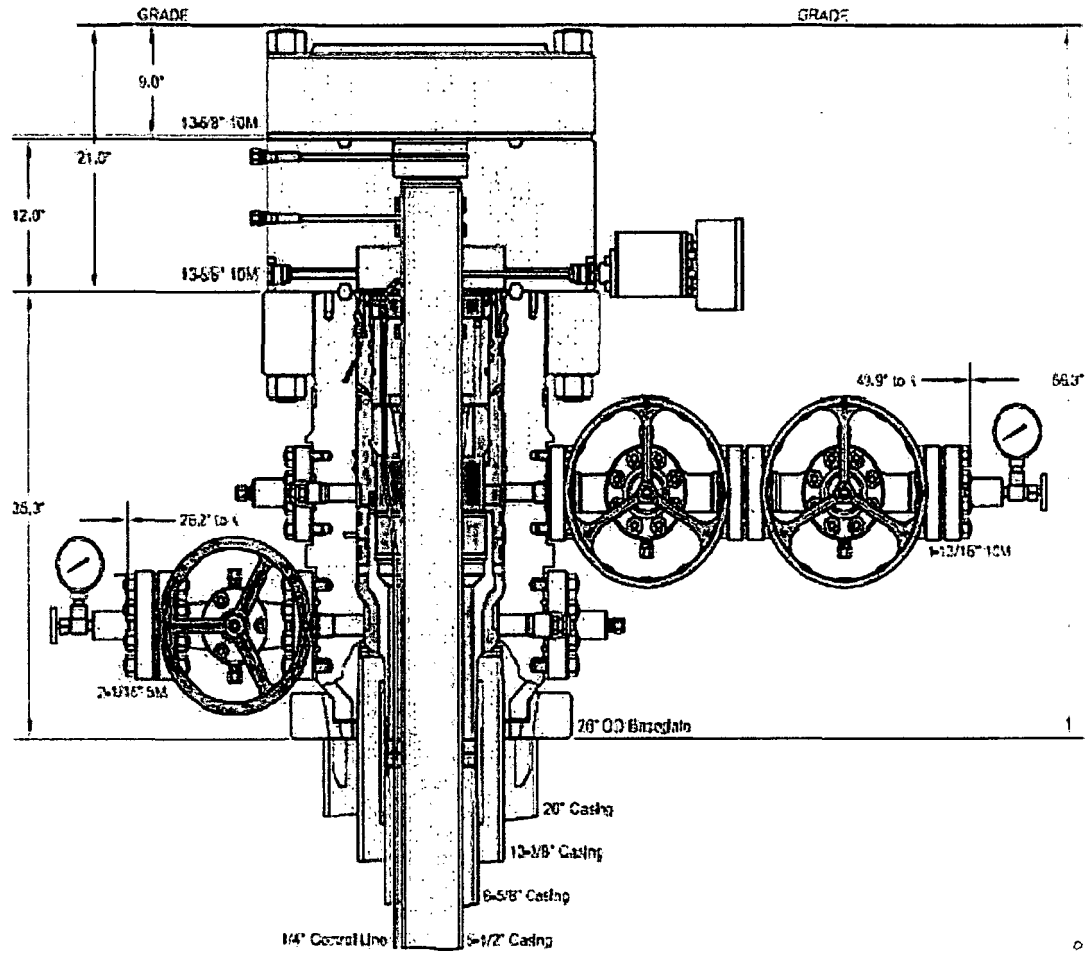
CACTUS WELLHEAD LLC

DEVON ENERGY CORPORATION

16" x 11-7/8" x 7-5/8" MBU-T Wellhead Assembly
 With 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers
 And 11" 10M MBU-T-HPS-F TA Cap

DRAWN	DLE	29NOV17
APPRV		
DRAWING NO.	OKE0001764	

MB Wellhead Diagram



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. 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 10M will be installed and tested, with 5M annular being tested to 100% of rated working pressure.

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 10,000 psi WP.

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

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 24-24S-32E

Bell Lake 24-13 Fed Com 6H

Wellbore #1

Plan: Permit Plan 2

Standard Planning Report - Geographic

26 February, 2019

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well: Bell Lake 24-13 Fed Com 6H
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 6H	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 6H					
Well Position	+N-S	0.00 ft	Northing:	435,961.95 usft	Latitude:	32.196541
	+E-W	0.00 ft	Easting:	761,095.68 usft	Longitude:	-103.622897
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,547.30 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	1/30/2019	(°)	(°)	(nT)
			6.80	60.01	47,748.82712257

Design	Permit Plan 2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	10.14

Plan Survey Tool Program	Date	2/26/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0.00	20,138.73 Permit Plan 2 (Wellbore #1)	MWD+HDGM OWSG MWD + HDGM	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,516.20	5.16	106.19	4,515.50	-6.48	22.32	1.00	1.00	0.00	106.19	
11,261.39	5.16	106.19	11,233.34	-175.68	605.12	0.00	0.00	0.00	0.00	
11,605.52	0.00	0.00	11,577.00	-180.00	620.00	1.50	-1.50	0.00	180.00	
11,955.56	0.00	0.00	11,927.04	-180.00	620.00	0.00	0.00	0.00	0.00	
12,855.56	90.00	359.73	12,500.00	392.95	617.29	10.00	10.00	0.00	359.73	Est PBHL - Bell Lake
20,138.73	90.00	359.73	12,500.00	7,676.04	582.88	0.00	0.00	0.00	0.00	Est PBHL - Bell Lake

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 24-13 Fed Com 6H
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 6H	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	435,961.95	761,095.68	32.196541	-103.622897
100.00	0.00	0.00	100.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
200.00	0.00	0.00	200.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
300.00	0.00	0.00	300.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
400.00	0.00	0.00	400.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
500.00	0.00	0.00	500.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
600.00	0.00	0.00	600.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
700.00	0.00	0.00	700.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
800.00	0.00	0.00	800.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
900.00	0.00	0.00	900.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,000.00	0.00	0.00	1,000.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,100.00	0.00	0.00	1,100.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,200.00	0.00	0.00	1,200.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,300.00	0.00	0.00	1,300.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,400.00	0.00	0.00	1,400.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,500.00	0.00	0.00	1,500.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,600.00	0.00	0.00	1,600.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,700.00	0.00	0.00	1,700.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,800.00	0.00	0.00	1,800.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
1,900.00	0.00	0.00	1,900.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,000.00	0.00	0.00	2,000.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,100.00	0.00	0.00	2,100.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,200.00	0.00	0.00	2,200.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,300.00	0.00	0.00	2,300.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,400.00	0.00	0.00	2,400.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,500.00	0.00	0.00	2,500.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,600.00	0.00	0.00	2,600.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,700.00	0.00	0.00	2,700.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,800.00	0.00	0.00	2,800.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
2,900.00	0.00	0.00	2,900.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,000.00	0.00	0.00	3,000.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,100.00	0.00	0.00	3,100.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,200.00	0.00	0.00	3,200.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,300.00	0.00	0.00	3,300.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,400.00	0.00	0.00	3,400.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,500.00	0.00	0.00	3,500.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,600.00	0.00	0.00	3,600.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,700.00	0.00	0.00	3,700.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,800.00	0.00	0.00	3,800.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
3,900.00	0.00	0.00	3,900.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
4,000.00	0.00	0.00	4,000.00	0.00	0.00	435,961.95	761,095.68	32.196541	-103.622897
4,100.00	1.00	106.19	4,100.00	-0.24	0.84	435,961.71	761,096.52	32.196540	-103.622895
4,200.00	2.00	106.19	4,199.96	-0.97	3.35	435,960.98	761,099.03	32.196538	-103.622886
4,300.00	3.00	106.19	4,299.86	-2.19	7.54	435,959.76	761,103.22	32.196535	-103.622873
4,400.00	4.00	106.19	4,399.68	-3.89	13.40	435,958.06	761,109.08	32.196530	-103.622854
4,500.00	5.00	106.19	4,499.37	-6.08	20.94	435,955.87	761,116.62	32.196524	-103.622830
4,516.20	5.16	106.19	4,515.50	-6.48	22.32	435,955.47	761,117.99	32.196523	-103.622825
4,600.00	5.16	106.19	4,598.96	-8.58	29.56	435,953.37	761,125.23	32.196517	-103.622802
4,700.00	5.16	106.19	4,698.56	-11.09	38.20	435,950.86	761,133.87	32.196510	-103.622774
4,800.00	5.16	106.19	4,798.15	-13.60	46.84	435,948.35	761,142.51	32.196503	-103.622746
4,900.00	5.16	106.19	4,897.75	-16.11	55.48	435,945.84	761,151.15	32.196496	-103.622718
5,000.00	5.16	106.19	4,997.34	-18.61	64.12	435,943.33	761,159.79	32.196489	-103.622690
5,100.00	5.16	106.19	5,096.93	-21.12	72.76	435,940.83	761,168.44	32.196482	-103.622662
5,200.00	5.16	106.19	5,196.53	-23.63	81.40	435,938.32	761,177.08	32.196475	-103.622635
5,300.00	5.16	106.19	5,296.12	-26.14	90.04	435,935.81	761,185.72	32.196468	-103.622607

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 24-13 Fed Com 6H
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 6H	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
5,400.00	5.16	106.19	5,395.72	-28.65	98.68	435,933.30	761,194.36	32.196461	-103.622579
5,500.00	5.16	106.19	5,495.31	-31.16	107.32	435,930.79	761,203.00	32.196453	-103.622551
5,600.00	5.16	106.19	5,594.91	-33.67	115.96	435,928.28	761,211.64	32.196446	-103.622523
5,700.00	5.16	106.19	5,694.50	-36.17	124.60	435,925.78	761,220.28	32.196439	-103.622495
5,800.00	5.16	106.19	5,794.10	-38.68	133.24	435,923.27	761,228.92	32.196432	-103.622467
5,900.00	5.16	106.19	5,893.69	-41.19	141.88	435,920.76	761,237.56	32.196425	-103.622439
6,000.00	5.16	106.19	5,993.28	-43.70	150.52	435,918.25	761,246.20	32.196418	-103.622412
6,100.00	5.16	106.19	6,092.88	-46.21	159.16	435,915.74	761,254.84	32.196411	-103.622384
6,200.00	5.16	106.19	6,192.47	-48.72	167.80	435,913.23	761,263.48	32.196404	-103.622356
6,300.00	5.16	106.19	6,292.07	-51.23	176.44	435,910.72	761,272.12	32.196397	-103.622328
6,400.00	5.16	106.19	6,391.66	-53.73	185.08	435,908.22	761,280.76	32.196390	-103.622300
6,500.00	5.16	106.19	6,491.26	-56.24	193.72	435,905.71	761,289.40	32.196383	-103.622272
6,600.00	5.16	106.19	6,590.85	-58.75	202.36	435,903.20	761,298.04	32.196376	-103.622244
6,700.00	5.16	106.19	6,690.45	-61.26	211.00	435,900.69	761,306.68	32.196369	-103.622216
6,800.00	5.16	106.19	6,790.04	-63.77	219.64	435,898.18	761,315.32	32.196362	-103.622189
6,900.00	5.16	106.19	6,889.63	-66.28	228.28	435,895.67	761,323.96	32.196355	-103.622161
7,000.00	5.16	106.19	6,989.23	-68.78	236.92	435,893.17	761,332.60	32.196348	-103.622133
7,100.00	5.16	106.19	7,088.82	-71.29	245.56	435,890.66	761,341.24	32.196341	-103.622105
7,200.00	5.16	106.19	7,188.42	-73.80	254.21	435,888.15	761,349.88	32.196334	-103.622077
7,300.00	5.16	106.19	7,288.01	-76.31	262.85	435,885.64	761,358.52	32.196327	-103.622049
7,400.00	5.16	106.19	7,387.61	-78.82	271.49	435,883.13	761,367.16	32.196320	-103.622021
7,500.00	5.16	106.19	7,487.20	-81.33	280.13	435,880.62	761,375.80	32.196312	-103.621993
7,600.00	5.16	106.19	7,586.80	-83.84	288.77	435,878.11	761,384.44	32.196305	-103.621966
7,700.00	5.16	106.19	7,686.39	-86.34	297.41	435,875.61	761,393.08	32.196298	-103.621938
7,800.00	5.16	106.19	7,785.98	-88.85	306.05	435,873.10	761,401.72	32.196291	-103.621910
7,900.00	5.16	106.19	7,885.58	-91.36	314.69	435,870.59	761,410.36	32.196284	-103.621882
8,000.00	5.16	106.19	7,985.17	-93.87	323.33	435,868.08	761,419.00	32.196277	-103.621854
8,100.00	5.16	106.19	8,084.77	-96.38	331.97	435,865.57	761,427.64	32.196270	-103.621826
8,200.00	5.16	106.19	8,184.36	-98.89	340.61	435,863.06	761,436.29	32.196263	-103.621798
8,300.00	5.16	106.19	8,283.96	-101.39	349.25	435,860.56	761,444.93	32.196256	-103.621770
8,400.00	5.16	106.19	8,383.55	-103.90	357.89	435,858.05	761,453.57	32.196249	-103.621743
8,500.00	5.16	106.19	8,483.15	-106.41	366.53	435,855.54	761,462.21	32.196242	-103.621715
8,600.00	5.16	106.19	8,582.74	-108.92	375.17	435,853.03	761,470.85	32.196235	-103.621687
8,700.00	5.16	106.19	8,682.33	-111.43	383.81	435,850.52	761,479.49	32.196228	-103.621659
8,800.00	5.16	106.19	8,781.93	-113.94	392.45	435,848.01	761,488.13	32.196221	-103.621631
8,900.00	5.16	106.19	8,881.52	-116.45	401.09	435,845.50	761,496.77	32.196214	-103.621603
9,000.00	5.16	106.19	8,981.12	-118.95	409.73	435,843.00	761,505.41	32.196207	-103.621575
9,100.00	5.16	106.19	9,080.71	-121.46	418.37	435,840.49	761,514.05	32.196200	-103.621547
9,200.00	5.16	106.19	9,180.31	-123.97	427.01	435,837.98	761,522.69	32.196193	-103.621520
9,300.00	5.16	106.19	9,279.90	-126.48	435.65	435,835.47	761,531.33	32.196186	-103.621492
9,400.00	5.16	106.19	9,379.50	-128.99	444.29	435,832.96	761,539.97	32.196178	-103.621464
9,500.00	5.16	106.19	9,479.09	-131.50	452.93	435,830.45	761,548.61	32.196171	-103.621436
9,600.00	5.16	106.19	9,578.68	-134.01	461.57	435,827.94	761,557.25	32.196164	-103.621408
9,700.00	5.16	106.19	9,678.28	-136.51	470.21	435,825.44	761,565.89	32.196157	-103.621380
9,800.00	5.16	106.19	9,777.87	-139.02	478.85	435,822.93	761,574.53	32.196150	-103.621352
9,900.00	5.16	106.19	9,877.47	-141.53	487.49	435,820.42	761,583.17	32.196143	-103.621324
10,000.00	5.16	106.19	9,977.06	-144.04	496.13	435,817.91	761,591.81	32.196136	-103.621297
10,100.00	5.16	106.19	10,076.66	-146.55	504.78	435,815.40	761,600.45	32.196129	-103.621269
10,200.00	5.16	106.19	10,176.25	-149.06	513.42	435,812.89	761,609.09	32.196122	-103.621241
10,300.00	5.16	106.19	10,275.85	-151.56	522.06	435,810.39	761,617.73	32.196115	-103.621213
10,400.00	5.16	106.19	10,375.44	-154.07	530.70	435,807.88	761,626.37	32.196108	-103.621185
10,500.00	5.16	106.19	10,475.03	-156.58	539.34	435,805.37	761,635.01	32.196101	-103.621157
10,600.00	5.16	106.19	10,574.63	-159.09	547.98	435,802.86	761,643.65	32.196094	-103.621129
10,700.00	5.16	106.19	10,674.22	-161.60	556.62	435,800.35	761,652.29	32.196087	-103.621101
10,800.00	5.16	106.19	10,773.82	-164.11	565.26	435,797.84	761,660.93	32.196080	-103.621073

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 24-13 Fed Com 6H
Company:	WCDCS 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 6H	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	
10,900.00	5.16	106.19	10,873.41	-166.62	573.90	435,795.33	761,669.57	32.196073	-103.621046	
11,000.00	5.16	106.19	10,973.01	-169.12	582.54	435,792.83	761,678.21	32.196066	-103.621018	
11,100.00	5.16	106.19	11,072.60	-171.63	591.18	435,790.32	761,686.85	32.196059	-103.620990	
11,200.00	5.16	106.19	11,172.20	-174.14	599.82	435,787.81	761,695.49	32.196052	-103.620962	
11,261.39	5.16	106.19	11,233.34	-175.68	605.12	435,786.27	761,700.80	32.196047	-103.620945	
11,300.00	4.58	106.19	11,271.81	-176.60	608.27	435,785.35	761,703.95	32.196045	-103.620935	
11,400.00	3.08	106.19	11,371.58	-178.46	614.69	435,783.49	761,710.37	32.196039	-103.620914	
11,500.00	1.58	106.19	11,471.49	-179.59	618.60	435,782.36	761,714.28	32.196036	-103.620901	
11,600.00	0.08	106.19	11,571.48	-180.00	620.00	435,781.95	761,715.67	32.196035	-103.620897	
11,605.52	0.00	0.00	11,577.00	-180.00	620.00	435,781.95	761,715.68	32.196035	-103.620897	
11,700.00	0.00	0.00	11,671.48	-180.00	620.00	435,781.95	761,715.68	32.196035	-103.620897	
11,800.00	0.00	0.00	11,771.48	-180.00	620.00	435,781.95	761,715.68	32.196035	-103.620897	
11,900.00	0.00	0.00	11,871.48	-180.00	620.00	435,781.95	761,715.68	32.196035	-103.620897	
11,955.56	0.00	0.00	11,927.04	-180.00	620.00	435,781.95	761,715.68	32.196035	-103.620897	
KOP @ 11956' MD, 50' FSL, 330' FEL										
12,000.00	4.44	359.73	11,971.44	-178.28	619.99	435,783.67	761,715.67	32.196040	-103.620897	
12,100.00	14.44	359.73	12,069.96	-161.89	619.91	435,800.06	761,715.59	32.196085	-103.620897	
12,196.70	24.11	359.73	12,161.12	-130.00	619.76	435,831.95	761,715.44	32.196172	-103.620897	
FTP @ 12197' MD, 100' FSL, 330' FEL										
12,200.00	24.44	359.73	12,164.13	-128.64	619.76	435,833.31	761,715.43	32.196176	-103.620897	
12,300.00	34.44	359.73	12,251.11	-79.55	619.53	435,882.40	761,715.20	32.196311	-103.620896	
12,400.00	44.44	359.73	12,328.23	-16.10	619.23	435,945.85	761,714.90	32.196486	-103.620896	
12,500.00	54.44	359.73	12,393.17	59.78	618.87	436,021.73	761,714.54	32.196694	-103.620895	
12,600.00	64.44	359.73	12,443.94	145.78	618.46	436,107.73	761,714.14	32.196931	-103.620895	
12,700.00	74.44	359.73	12,479.01	239.30	618.02	436,201.25	761,713.69	32.197188	-103.620894	
12,800.00	84.44	359.73	12,497.31	337.48	617.55	436,299.43	761,713.23	32.197457	-103.620894	
12,855.56	90.00	359.73	12,500.00	392.95	617.29	436,354.90	761,712.97	32.197610	-103.620893	
12,900.00	90.00	359.73	12,500.00	437.39	617.08	436,399.34	761,712.76	32.197732	-103.620893	
13,000.00	90.00	359.73	12,500.00	537.39	616.61	436,499.34	761,712.29	32.198007	-103.620892	
13,100.00	90.00	359.73	12,500.00	637.39	616.14	436,599.34	761,711.81	32.198282	-103.620892	
13,200.00	90.00	359.73	12,500.00	737.39	615.67	436,699.34	761,711.34	32.198557	-103.620891	
13,300.00	90.00	359.73	12,500.00	837.39	615.19	436,799.33	761,710.87	32.198832	-103.620891	
13,400.00	90.00	359.73	12,500.00	937.39	614.72	436,899.33	761,710.40	32.199107	-103.620890	
13,500.00	90.00	359.73	12,500.00	1,037.38	614.25	436,999.33	761,709.92	32.199381	-103.620889	
13,600.00	90.00	359.73	12,500.00	1,137.38	613.78	437,099.33	761,709.45	32.199656	-103.620889	
13,700.00	90.00	359.73	12,500.00	1,237.38	613.30	437,199.33	761,708.98	32.199931	-103.620888	
13,800.00	90.00	359.73	12,500.00	1,337.38	612.83	437,299.33	761,708.51	32.200206	-103.620888	
13,900.00	90.00	359.73	12,500.00	1,437.38	612.36	437,399.33	761,708.03	32.200481	-103.620887	
14,000.00	90.00	359.73	12,500.00	1,537.38	611.89	437,499.33	761,707.56	32.200756	-103.620886	
14,100.00	90.00	359.73	12,500.00	1,637.38	611.41	437,599.32	761,707.09	32.201031	-103.620886	
14,200.00	90.00	359.73	12,500.00	1,737.38	610.94	437,699.32	761,706.62	32.201306	-103.620885	
14,300.00	90.00	359.73	12,500.00	1,837.38	610.47	437,799.32	761,706.14	32.201580	-103.620884	
14,400.00	90.00	359.73	12,500.00	1,937.37	610.00	437,899.32	761,705.67	32.201855	-103.620884	
14,500.00	90.00	359.73	12,500.00	2,037.37	609.52	437,999.32	761,705.20	32.202130	-103.620883	
14,600.00	90.00	359.73	12,500.00	2,137.37	609.05	438,099.32	761,704.73	32.202405	-103.620883	
14,700.00	90.00	359.73	12,500.00	2,237.37	608.58	438,199.32	761,704.25	32.202680	-103.620882	
14,800.00	90.00	359.73	12,500.00	2,337.37	608.11	438,299.31	761,703.78	32.202955	-103.620881	
14,900.00	90.00	359.73	12,500.00	2,437.37	607.63	438,399.31	761,703.31	32.203230	-103.620881	
15,000.00	90.00	359.73	12,500.00	2,537.37	607.16	438,499.31	761,702.84	32.203505	-103.620880	
15,100.00	90.00	359.73	12,500.00	2,637.37	606.69	438,599.31	761,702.36	32.203779	-103.620880	
15,200.00	90.00	359.73	12,500.00	2,737.37	606.22	438,699.31	761,701.89	32.204054	-103.620879	
15,300.00	90.00	359.73	12,500.00	2,837.36	605.74	438,799.31	761,701.42	32.204329	-103.620878	
15,400.00	90.00	359.73	12,500.00	2,937.36	605.27	438,899.31	761,700.95	32.204604	-103.620878	
15,500.00	90.00	359.73	12,500.00	3,037.36	604.80	438,999.31	761,700.47	32.204879	-103.620877	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 24-13 Fed Com 6H
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 6H	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
15,600.00	90.00	359.73	12,500.00	3,137.36	604.33	439,099.30	761,700.00	32.205154	-103.620876
15,700.00	90.00	359.73	12,500.00	3,237.36	603.85	439,199.30	761,699.53	32.205429	-103.620876
15,800.00	90.00	359.73	12,500.00	3,337.36	603.38	439,299.30	761,699.06	32.205704	-103.620875
15,900.00	90.00	359.73	12,500.00	3,437.36	602.91	439,399.30	761,698.58	32.205978	-103.620875
16,000.00	90.00	359.73	12,500.00	3,537.36	602.44	439,499.30	761,698.11	32.206253	-103.620874
16,100.00	90.00	359.73	12,500.00	3,637.36	601.96	439,599.30	761,697.64	32.206528	-103.620873
16,200.00	90.00	359.73	12,500.00	3,737.35	601.49	439,699.30	761,697.17	32.206803	-103.620873
16,300.00	90.00	359.73	12,500.00	3,837.35	601.02	439,799.30	761,696.69	32.207078	-103.620872
16,400.00	90.00	359.73	12,500.00	3,937.35	600.55	439,899.29	761,696.22	32.207353	-103.620872
16,500.00	90.00	359.73	12,500.00	4,037.35	600.07	439,999.29	761,695.75	32.207628	-103.620871
16,600.00	90.00	359.73	12,500.00	4,137.35	599.60	440,099.29	761,695.28	32.207903	-103.620870
16,700.00	90.00	359.73	12,500.00	4,237.35	599.13	440,199.29	761,694.80	32.208177	-103.620870
16,800.00	90.00	359.73	12,500.00	4,337.35	598.66	440,299.29	761,694.33	32.208452	-103.620869
16,900.00	90.00	359.73	12,500.00	4,437.35	598.18	440,399.29	761,693.86	32.208727	-103.620868
17,000.00	90.00	359.73	12,500.00	4,537.35	597.71	440,499.29	761,693.39	32.209002	-103.620868
17,100.00	90.00	359.73	12,500.00	4,637.34	597.24	440,599.28	761,692.91	32.209277	-103.620867
17,200.00	90.00	359.73	12,500.00	4,737.34	596.77	440,699.28	761,692.44	32.209552	-103.620867
17,300.00	90.00	359.73	12,500.00	4,837.34	596.29	440,799.28	761,691.97	32.209827	-103.620866
17,400.00	90.00	359.73	12,500.00	4,937.34	595.82	440,899.28	761,691.50	32.210102	-103.620865
17,493.00	90.00	359.73	12,500.00	5,030.34	595.38	440,992.28	761,691.06	32.210357	-103.620865
Cross Section @ 17493' MD, 0' FSL, 330' FEL									
17,500.00	90.00	359.73	12,500.00	5,037.34	595.35	440,999.28	761,691.02	32.210376	-103.620865
17,600.00	90.00	359.73	12,500.00	5,137.34	594.88	441,099.28	761,690.55	32.210651	-103.620864
17,700.00	90.00	359.73	12,500.00	5,237.34	594.40	441,199.28	761,690.08	32.210926	-103.620864
17,800.00	90.00	359.73	12,500.00	5,337.34	593.93	441,299.28	761,689.61	32.211201	-103.620863
17,900.00	90.00	359.73	12,500.00	5,437.34	593.46	441,399.27	761,689.13	32.211476	-103.620862
18,000.00	90.00	359.73	12,500.00	5,537.33	592.99	441,499.27	761,688.66	32.211751	-103.620862
18,100.00	90.00	359.73	12,500.00	5,637.33	592.51	441,599.27	761,688.19	32.212026	-103.620861
18,200.00	90.00	359.73	12,500.00	5,737.33	592.04	441,699.27	761,687.72	32.212301	-103.620860
18,300.00	90.00	359.73	12,500.00	5,837.33	591.57	441,799.27	761,687.24	32.212575	-103.620860
18,400.00	90.00	359.73	12,500.00	5,937.33	591.10	441,899.27	761,686.77	32.212850	-103.620859
18,500.00	90.00	359.73	12,500.00	6,037.33	590.62	441,999.27	761,686.30	32.213125	-103.620859
18,600.00	90.00	359.73	12,500.00	6,137.33	590.15	442,099.26	761,685.83	32.213400	-103.620858
18,700.00	90.00	359.73	12,500.00	6,237.33	589.68	442,199.26	761,685.35	32.213675	-103.620857
18,800.00	90.00	359.73	12,500.00	6,337.33	589.21	442,299.26	761,684.88	32.213950	-103.620857
18,900.00	90.00	359.73	12,500.00	6,437.32	588.73	442,399.26	761,684.41	32.214225	-103.620856
19,000.00	90.00	359.73	12,500.00	6,537.32	588.26	442,499.26	761,683.94	32.214500	-103.620856
19,100.00	90.00	359.73	12,500.00	6,637.32	587.79	442,599.26	761,683.46	32.214774	-103.620855
19,200.00	90.00	359.73	12,500.00	6,737.32	587.32	442,699.26	761,682.99	32.215049	-103.620854
19,300.00	90.00	359.73	12,500.00	6,837.32	586.84	442,799.26	761,682.52	32.215324	-103.620854
19,400.00	90.00	359.73	12,500.00	6,937.32	586.37	442,899.25	761,682.05	32.215599	-103.620853
19,500.00	90.00	359.73	12,500.00	7,037.32	585.90	442,999.25	761,681.57	32.215874	-103.620852
19,600.00	90.00	359.73	12,500.00	7,137.32	585.43	443,099.25	761,681.10	32.216149	-103.620852
19,700.00	90.00	359.73	12,500.00	7,237.32	584.95	443,199.25	761,680.63	32.216424	-103.620851
19,800.00	90.00	359.73	12,500.00	7,337.31	584.48	443,299.25	761,680.16	32.216699	-103.620851
19,900.00	90.00	359.73	12,500.00	7,437.31	584.01	443,399.25	761,679.68	32.216973	-103.620850
20,000.00	90.00	359.73	12,500.00	7,537.31	583.54	443,499.25	761,679.21	32.217248	-103.620849
20,058.73	90.00	359.73	12,500.00	7,596.04	583.26	443,557.98	761,678.93	32.217410	-103.620849
LTP @ 20058' MD, 2539' FSL, 330' FEL									
20,100.00	90.00	359.73	12,500.00	7,637.31	583.06	443,599.25	761,678.74	32.217523	-103.620849
20,138.72	90.00	359.73	12,500.00	7,676.03	582.88	443,637.96	761,678.56	32.217630	-103.620849
PBHL @ 2619' FSL, 330' FEL									
20,177.00	90.00	359.73	12,500.00	7,676.04	582.88	443,637.97	761,678.56	32.217630	-103.620849

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well: Bell Lake 24-13 Fed Com 6H
Company:	WCDCS 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 6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
Est PBHL - Bell Lake Fe	0.00	0.00	0.00	7,676.04	582.88	443,637.97	761,678.56	32.217630	-103.620849
- plan misses target center by 7698.13ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N-S (ft)	+E-W (ft)		
11,955.56	11,927.04	-180.00	620.00	KOP @ 11956' MD, 50' FSL, 330' FEL	
12,196.70	12,161.12	-130.00	619.76	FTP @ 12197' MD, 100' FSL, 330' FEL	
17,493.00	12,500.00	5,030.34	595.38	Cross Section @ 17493' MD, 0' FSL, 330' FEL	
20,058.73	12,500.00	7,596.04	583.26	LTP @ 20058' MD, 2539' FSL, 330' FEL	
20,138.72	12,500.00	7,676.03	582.88	PBHL; 2619' FSL, 330' FEL	

Devon Energy

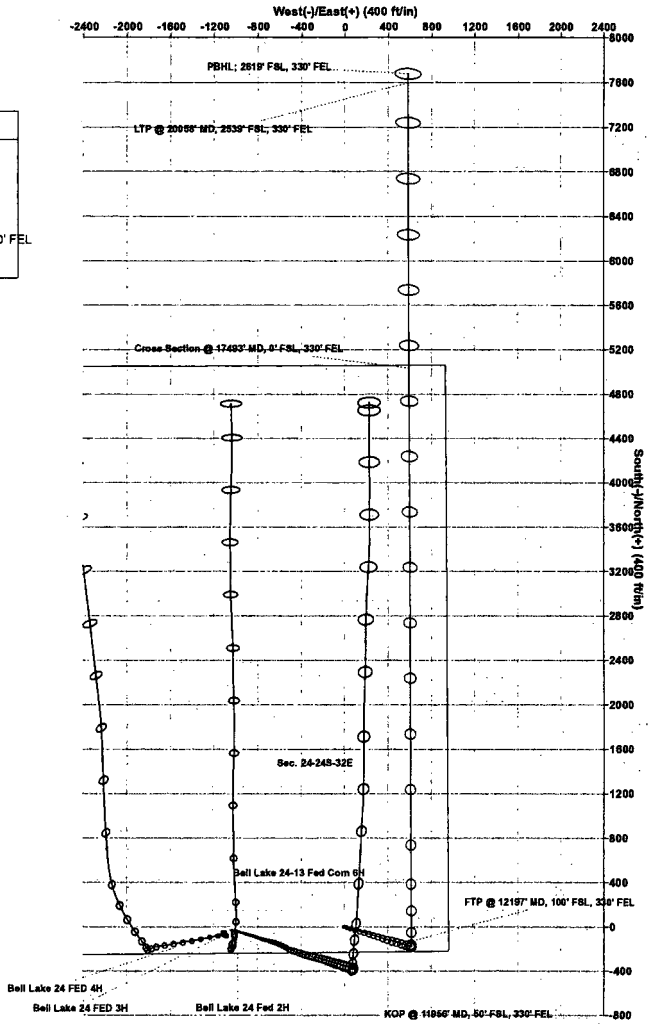
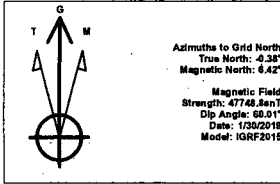
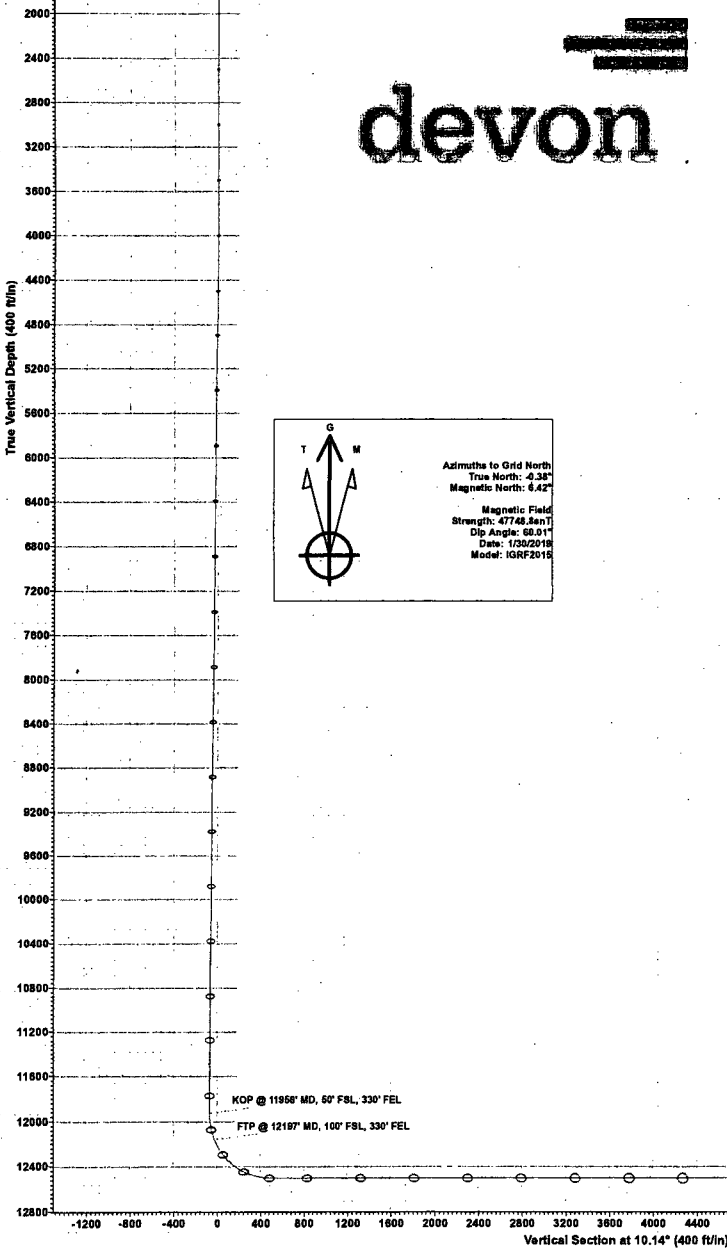
WELL DETAILS: Bell Lake 24-13 Fed Com 6H

RKB @ 3579.20ft
3547.30

Northing 435981.95 Easting 761095.88 Latitude 32.196541 Longitude -103.622897

SECTION DETAILS Permit Plan 2

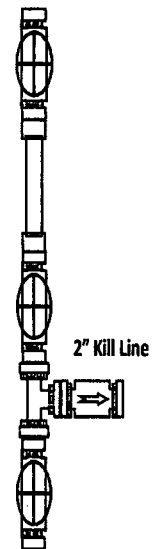
MD	Inc	Azi	TVD	+N-S	+E-W	Diag	V Sect	Annotation
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4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	
4516.20	5.18	108.19	4515.50	-8.48	22.32	1.00	-2.46	
11281.38	5.18	108.19	11283.34	-175.88	905.12	0.00	-68.39	
11605.52	0.00	0.00	11577.00	-180.00	820.00	1.50	-68.03	
11955.58	0.00	0.00	11927.04	-180.00	820.00	0.00	-68.03	KOP @ 11956' MD, 50' FSL, 330' FEL
12855.56	90.00	359.73	12500.00	392.95	617.29	10.00	495.50	
20138.73	90.00	359.73	12500.00	7676.04	582.88	0.00	7658.75	PBHL: 2619' FSL, 330' FEL



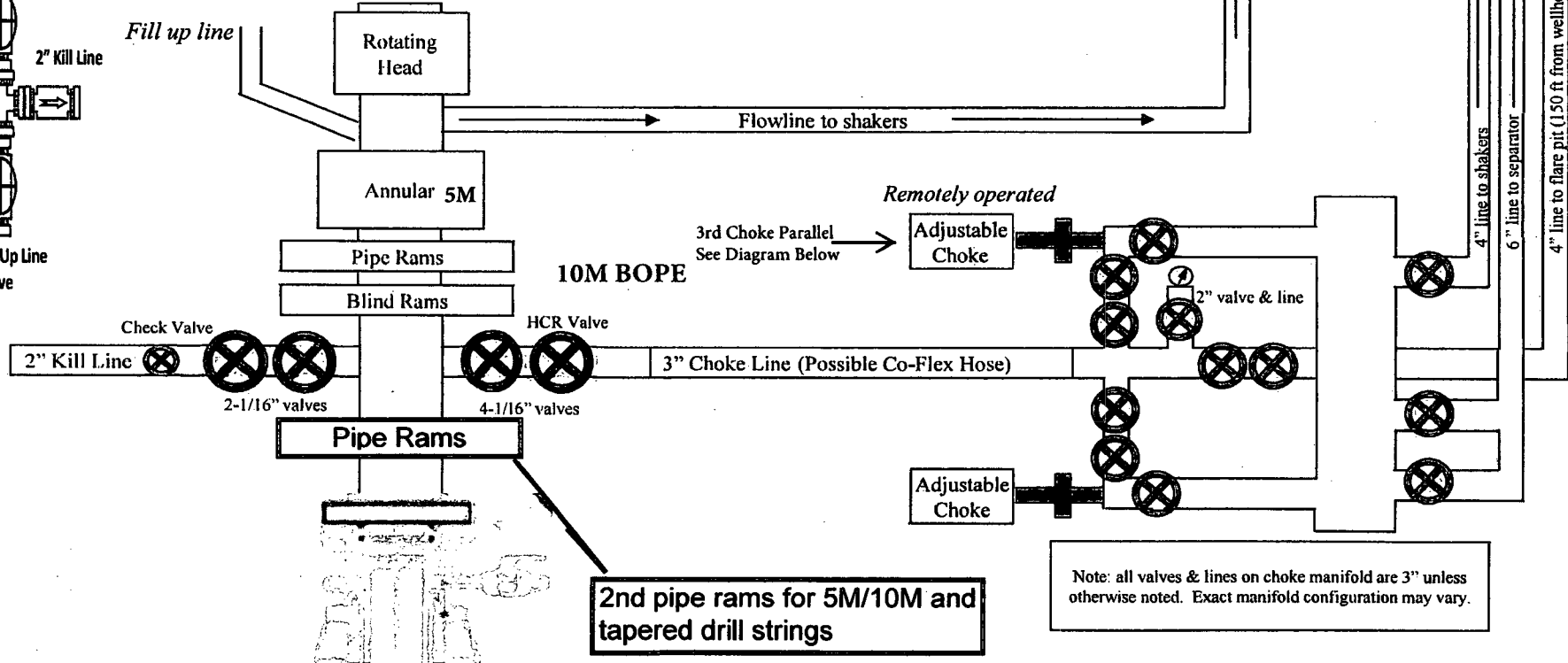
10M BOPE & Closed Loop Equipment Schematic

10M Remote Kill Line Schematic

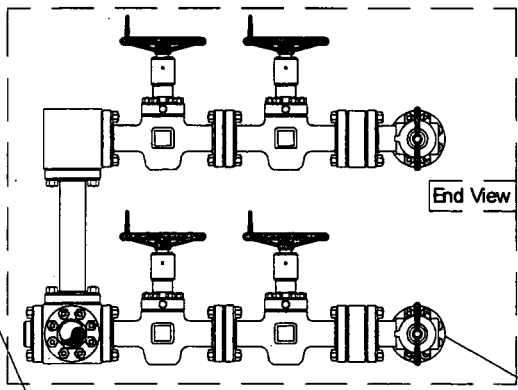
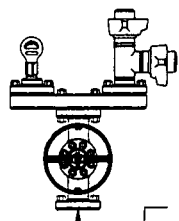
Outside Remote Kill Line Valve



Fill Up Line Valve



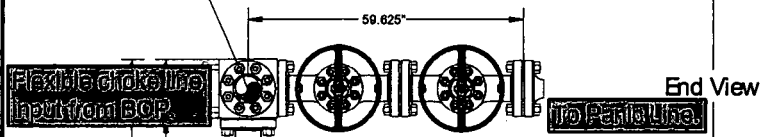
2nd pipe rams for 5M/10M and tapered drill strings



End View

Top choke will be parallel

Bottom choke will be parallel

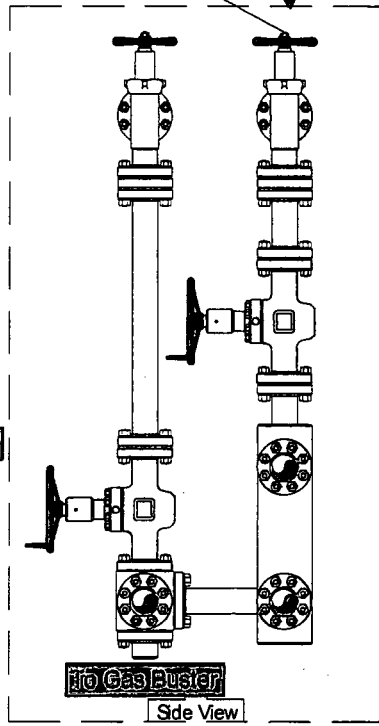
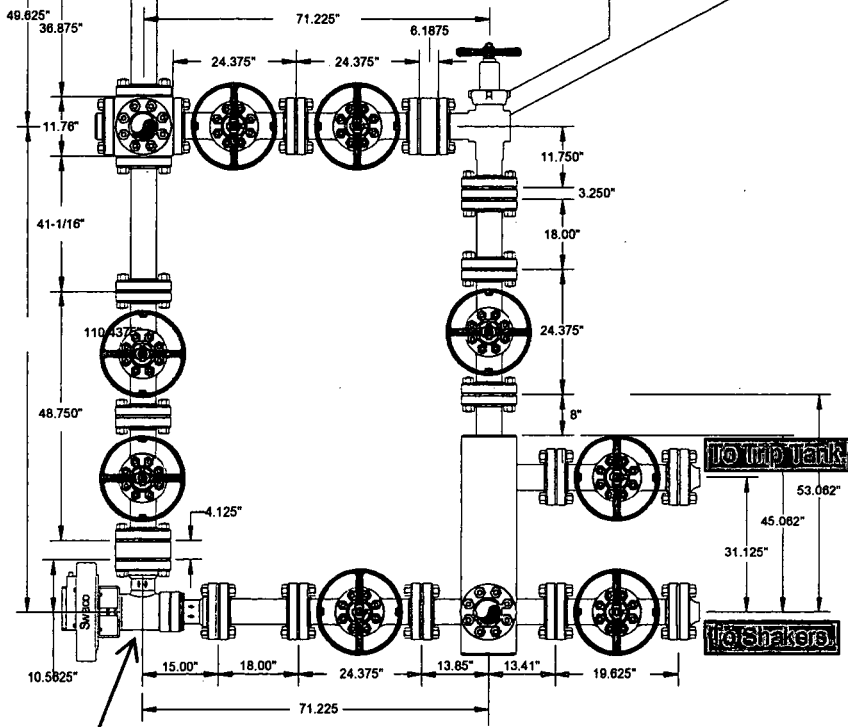


End View

Flexible choke line
next to BOP

To Paro Line

Side View



Side View

Hydraulic choke

To Trip Tank

To Shakers

To Gas Buster

Helmerich & Payne
Flex 3 Rig w/ 3 Chokes

devon

Name: Mike Potts	Date: 6-23-2010	Working Pressure: 10M	J-5132-E
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Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

6-3/4" Production hole section, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
HWDP	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
Drill collars and MWD tools	4.75"	Upper 4.5-7" VBR	10M
Mud Motor	4.75"	Upper 4.5-7" VBR	10M
Production casing	5.5"	Upper 4.5-7" VBR	10M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram.
 - e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram.
 - d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper pipe ram.
 - f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan