

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM088134
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP		8. Lease Name and Well No. MR. POTATO HEAD 11-14 FED COM 732H 326251
3a. Address 333 West Sheridan Avenue Oklahoma City OK 73102	3b. Phone No. (include area code) (800)583-3866	9. API Well No. 30-015-46423
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW / 200 FNL / 1075 FWL / LAT 32.2388709 / LONG -103.9603072 At proposed prod. zone SWSW / 20 FSL / 1254 FWL / LAT 32.2102974 / LONG -103.959695		10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP / WOLFCAI
14. Distance in miles and direction from nearest town or post office*		11. Sec, T, R, M, or Blk. and Survey or Area SEC 11 / T24S / R29E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200 feet	16. No of acres in lease 560	12. County or Parish EDDY
17. Spacing Unit dedicated to this well 640	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1025 feet	13. State NM
19. Proposed Depth 10600 feet / 20903 feet	20. BLM/BIA Bond No. in file FED: NMB000807	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3054 feet	22. Approximate date work will start* 10/15/2020	23. Estimated duration 45 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office) | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Erin Workman / Ph: (405)552-7970	Date 09/17/2018
Title Regulatory Compliance Professional		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 10/18/2019
Title Assistant Field Manager Lands & Minerals Office CARLSBAD		

Application approval 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.
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS
Approval Date: 10/18/2019
Ref 10-28-19

*(Instructions on page 2)

NSL Required

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY PRODUCTION CO. LP
LEASE NO.:	NMNM88134
WELL NAME & NO.:	732H – MR. POTATO HEAD 11-14 FED COM
SURFACE HOLE FOOTAGE:	200'/N & 1075'/W
BOTTOM HOLE FOOTAGE:	230'/S & 990'/W
LOCATION:	Section 11 T.24 S., R.29 E., NMP
COUNTY:	EDDY County, New Mexico

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" 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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **400 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after 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.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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 **400 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
- e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **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. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

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.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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.

Variance requested to drill 10.625" hole with BTC connection is Approved. Cement excess is less than -19%, more cement will be required.

6. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Cement excess is less than 25%, more cement might be required.

C. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** 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.

- 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.

D. 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.



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

Operator Certification Data Report

10/21/2019

Operator Certification

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

NAME: Erin Workman

Signed on: 09/17/2018

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City

State: OK

Zip: 73102

Phone: (405)552-7970

Email address: Erin.Workman@dvn.com

Field Representative

Representative Name: TRAVIS PHIBBS

Street Address: 333 WEST SHERIDAN AVENUE

City: OKC

State: OK

Zip: 73102

Phone: (405)552-4643

Email address: Travis.phibbs@dvn.com



APD ID: 10400033914

Submission Date: 09/17/2018

Highlighted data reflects the most recent changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400033914

Tie to previous NOS?

Submission Date: 09/17/2018

BLM Office: CARLSBAD

User: Erin Workman

Title: Regulatory Compliance Professional

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM088134

Lease Acres: 560

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator letter of designation:

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Zip: 73102

Operator PO Box:

Operator City: Oklahoma City State: OK

Operator Phone: (800)583-3866

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? EXISTING

Master Development Plan name: Potato Basin MDP 1

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE SAGE-WOLFCAMP

Pool Name: WOLFCAMP

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

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

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** NO **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: MR. **Number:** 2

Well Class: HORIZONTAL

POTATO HEAD 11 PAD

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town:

Distance to nearest well: 1025 FT

Distance to lease line: 200 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: AA000152509_MR_POTATO_HEAD_11_14_F_C_732H_SINGED_R6__002__20190611094601.pdf

Well work start Date: 10/15/2020

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 6305C

Reference Datum:

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	200	FNL	1075	FWL	24S	29E	11	Aliquot NWN W	32.2388709	-103.9603072	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 088134	3054	0	0	
KOP Leg #1	50	FNL	1254	FWL	24S	29E	11	Aliquot NWN W	32.239282	-103.959727	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 088134	-6973	10032	10027	
PPP Leg #1	1	FSL	1254	FWL	24S	29E	11	Aliquot SWS W	32.2255149	-103.959711	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 085892	-7546	15500	10600	

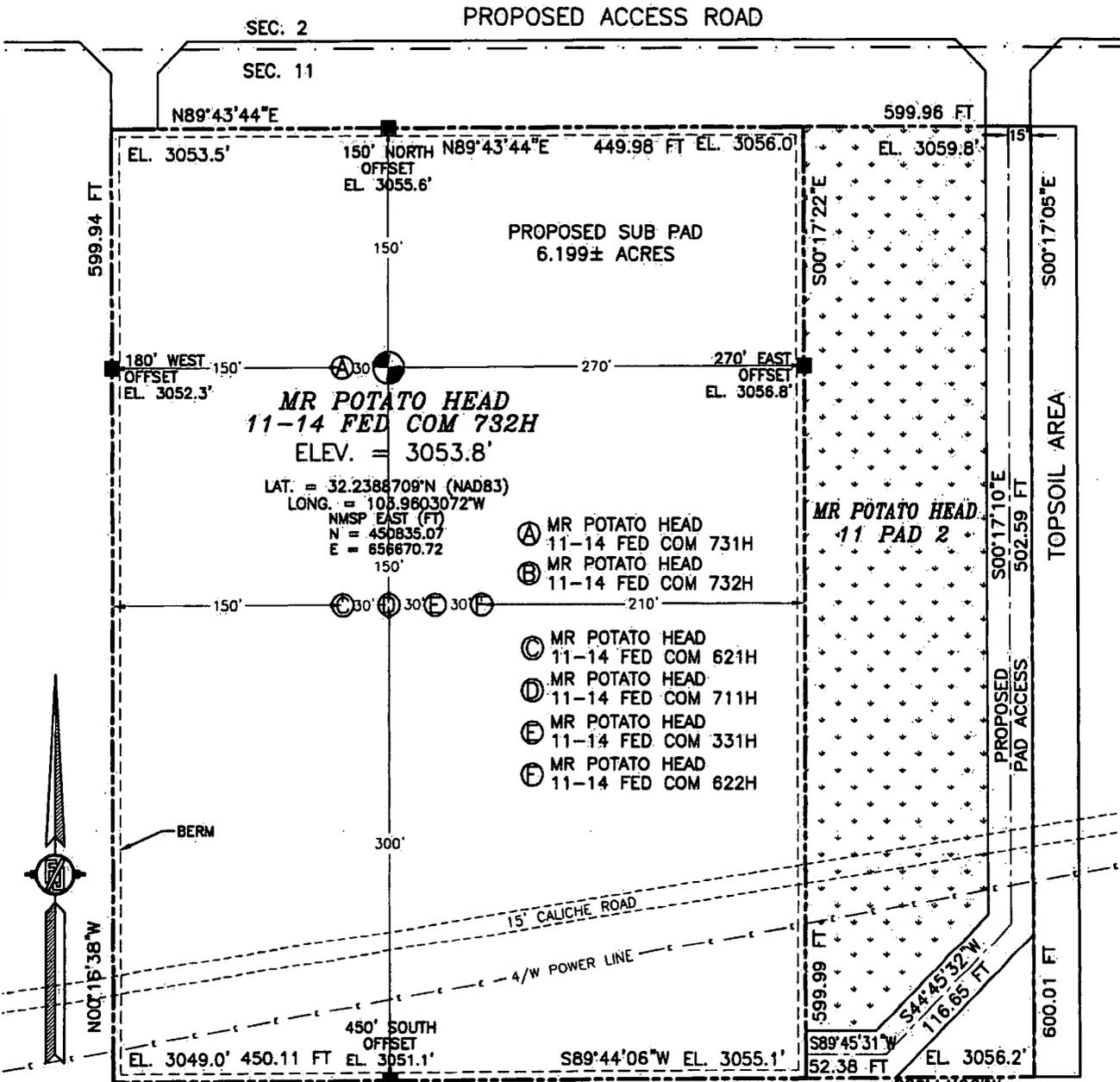
Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

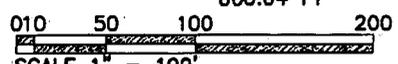
Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP Leg #1	1	FSL	1254	FWL	24S	29E	11	Aliquot SWS W	32.2255149	-103.959711	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 085892	-7546	15500	10600	
PPP Leg #1	100	FNL	1254	FWL	24S	29E	11	Aliquot NWN W	32.2391467	-103.9597287	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 088134	-7207	10273	10261	
PPP Leg #1	100	FNL	1254	FWL	24S	29E	11	Aliquot NWN W	32.2391467	-103.9597287	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 088134	-7207	10273	10261	
EXIT Leg #1	100	FSL	1254	FWL	24S	29E	14	Aliquot SWS W	32.2105173	-103.9596952	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 096222	-7546	20823	10600	
BHL Leg #1	20	FSL	1254	FWL	24S	29E	14	Aliquot SWS W	32.2102974	-103.959695	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 096222	-7546	20903	10600	

**SECTION 11, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP**



**DEVON ENERGY PRODUCTION COMPANY, L.P.
MR POTATO HEAD 11-14 FED COM 732H
LOCATED 200 FT. FROM THE NORTH LINE
AND 1075 FT. FROM THE WEST LINE OF
SECTION 11, TOWNSHIP 24 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO**

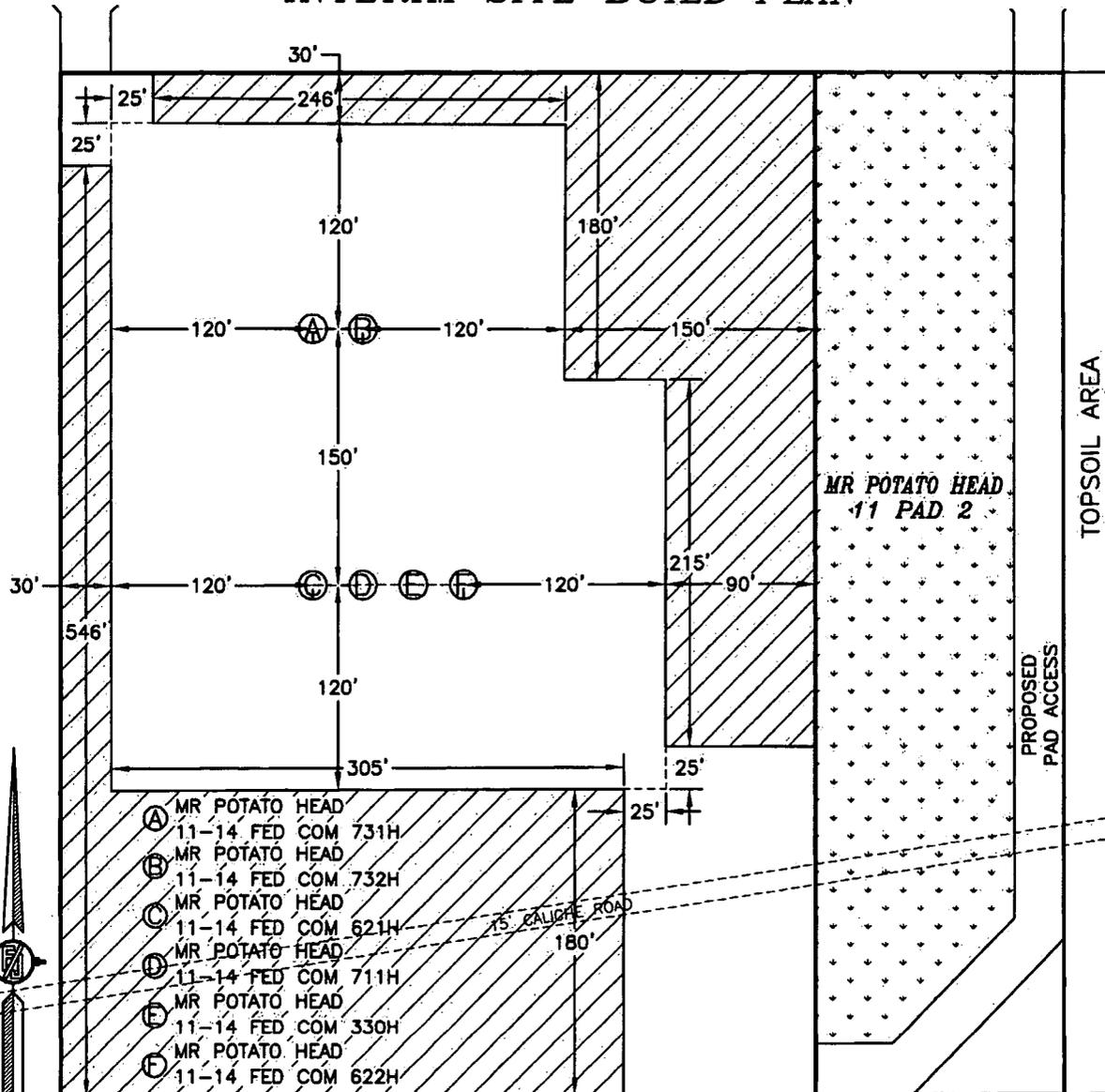
MAY 22, 2019



DIRECTIONS TO LOCATION
DRIVING DIRECTIONS: FROM THE INTERSECTION OF STATE HIGHWAY 128 & CR 793 (RAWHIDE ROAD) GO SOUTH ON CR 793 APPROX. 4.3 MILES. ROAD TURNS LEFT (EAST) GO EAST 0.2 OF A MILE. TURN RIGHT (SOUTH) GO SOUTH 0.9 OF A MILE. TURN LEFT (EAST) GO EAST 0.3 OF A MILE. TURN RIGHT (SOUTH) GO SOUTH APPROX. 2.8 MILES. TURN RIGHT (WEST) GO WEST APPROX. 2.1 MILES. ROAD TURNS RIGHT (NORTHWEST) GO NORTHWEST 0.4 OF A MILE TO A ROAD LATH PAINTED RED ON LEFT (WEST) FOLLOW ROAD LATH WEST GO APPROX. 0.3 OF A MILE. TURN LEFT GO SOUTH 70' TO NORTHEAST PAD CORNER FOR THIS LOCATION.

SURVEY NO. 8306E

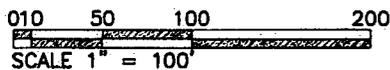
**SECTION 11, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
INTERIM SITE BUILD PLAN**



- Ⓐ MR POTATO HEAD 11-14 FED COM 731H
- Ⓑ MR POTATO HEAD 11-14 FED COM 732H
- Ⓒ MR POTATO HEAD 11-14 FED COM 621H
- Ⓓ MR POTATO HEAD 11-14 FED COM 711H
- Ⓔ MR POTATO HEAD 11-14 FED COM 330H
- Ⓕ MR POTATO HEAD 11-14 FED COM 622H

DENOTES INTERIM PAD RECLAMATION AREA

DENOTES GRADING SITE RECLAMATION AREA

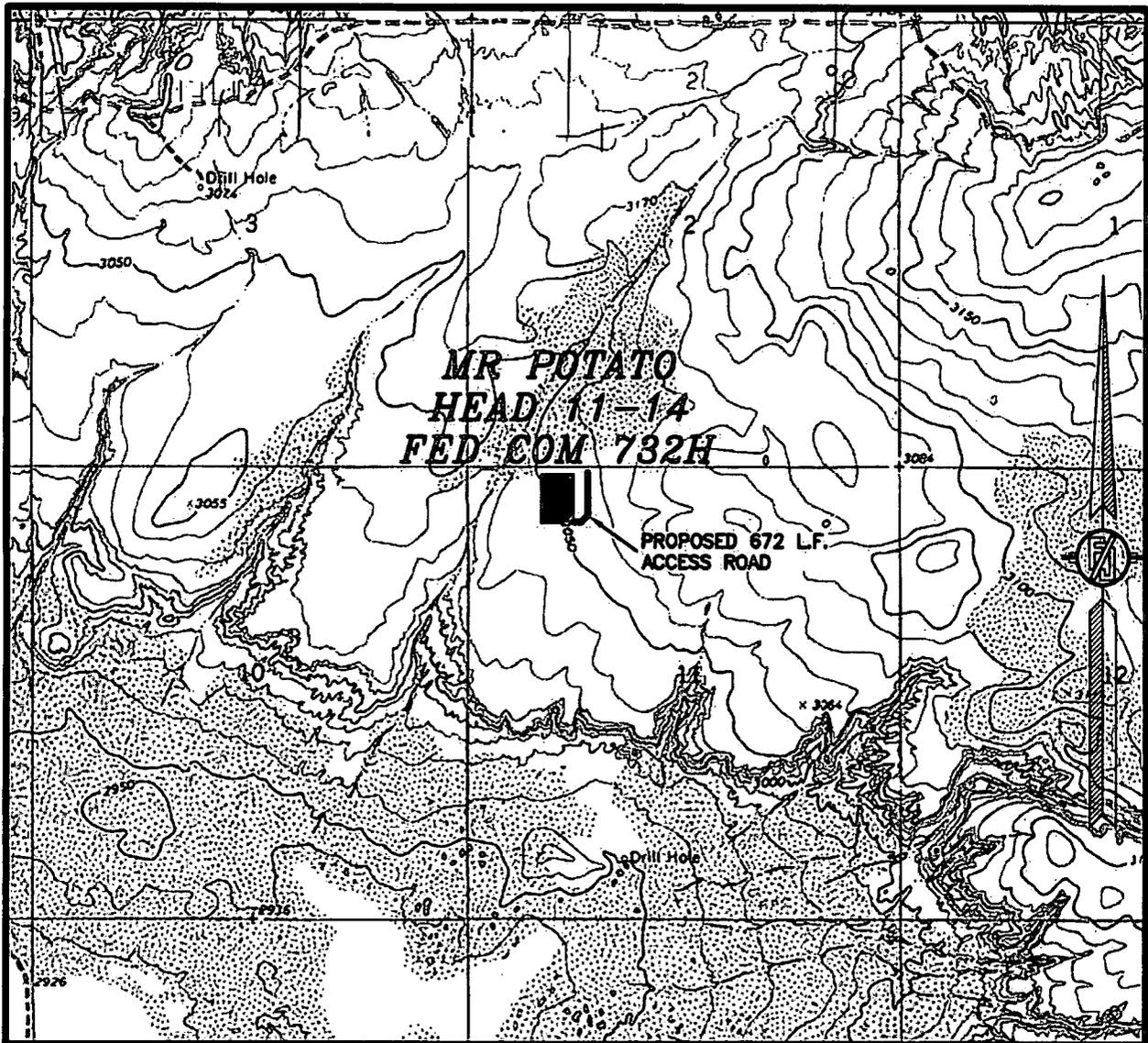


2.869± ACRES INTERIM PAD RECLAMATION AREA
 1.507± ACRES GRADING SITE RECLAMATION AREA
 3.888± ACRES NON-RECLAIMED AREA
 8.264± ACRES MR. POTATO HEAD 11 PAD 2

**DEVON ENERGY PRODUCTION COMPANY, L.P.
MR POTATO HEAD 11-14 FED COM 732H
LOCATED 200 FT. FROM THE NORTH LINE
AND 1075 FT. FROM THE WEST LINE OF
SECTION 11, TOWNSHIP 24 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO**

MAY 22, 2019

SECTION 11, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
PIERCE CANYON

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
MR POTATO HEAD 11-14 FED COM 732H
LOCATED 200 FT. FROM THE NORTH LINE
AND 1075 FT. FROM THE WEST LINE OF
SECTION 11, TOWNSHIP 24 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MAY 22, 2019

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 6305E



APD ID: 10400033914

Submission Date: 09/17/2018

Highlighted data reflects the most recent changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3044	0	0	ALLUVIUM	NONE	N
2	TOP SALT	2695	349	349	SALT	NONE	N
3	BASE OF SALT	-31	3075	3075	SALT	NONE	N
4	BELL CANYON	-91	3135	3135	SANDSTONE	NATURAL GAS,OIL	N
5	CHERRY CANYON	-909	3953	3953	SANDSTONE	NATURAL GAS,OIL	N
6	BRUSHY CANYON	-2186	5230	5230	SANDSTONE	NATURAL GAS,OIL	N
7	BONE SPRING	-3768	6812	6812	SANDSTONE	NATURAL GAS,OIL	N
8	WOLFCAMP	-7091	10135	10135	SHALE	NATURAL GAS,OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9791

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

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

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

Mr._Potato_Head_11_14_FC_732H_5M_BOPE__CK_20180912120854.pdf

BOP Diagram Attachment:

Mr._Potato_Head_11_14_FC_732H_5M_BOPE__CK_20180912120906.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

2

Mr._Potato_Head_11_14_FC_732H_5M_BOPE__CK_20180912120854.pdf

Mr._Potato_Head_11_14_FC_732H_5M_BOPE__CK_20180912120906.pdf

Pressure Rating (PSI): 5M

Rating Depth: 10600

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

Requesting Variance? YES

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

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

5M_BOPE__CK_20190611095447.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190611095459.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	400	0	400			400	H-40	48	ST&C	1.125	1	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	9791	0	9791			9791	P-110	29.7	OTHER - Flushmax III	1.125	1	BUOY	1.6	BUOY	1.6
3	PRODUCTION	6.75	5.5	NEW	API	N	0	20903	0	10600			20903	P-110	20	OTHER - VAM SG	1.125	1	BUOY	1.6	BUOY	1.6

Casing Attachments

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Mr._Potato_Head_11_14__FC_732H_Surf_Csg_Ass_20180912121224.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Mr._Potato_Head_11_14__FC_732H_Int_Csg_Ass_20180912121214.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Mr._Potato_Head_11_14__FC_732H_Prod_Csg_Ass_20180912121147.pdf

Section 4 - Cement

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	400	328	1.44	13.2	472.3	50	Class C	Class C + adds

INTERMEDIATE	Lead		0	5791	529.3	3.27	9	1730.9	30	Class C	Class C + Adds
INTERMEDIATE	Tail		5791	9791	783	1.44	13.2	1127.6	30	Class C	Class C + Adds
PRODUCTION	Lead		8032	10032	61.7	3.27	9	201.7	10	Tuned	Class C + adds
PRODUCTION	Tail		10032	20903	693.6	1.44	13.2	998.7	10	H	(50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	400	WATER-BASED MUD	8.5	9							

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
400	9791	SALT SATURATED	10	10.5							
9791	3090 3	OIL-BASED MUD	10	10.5							

Section 6 - Test, Logging, Coring

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

Logs (or some combination thereof depending on whether in vertical or horizontal section) will be run TD to surface; stated logs will be in the Completion Report and submitted to the BLM.

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

CBL,DS,GR,MWD

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5788

Anticipated Surface Pressure: 3456

Anticipated Bottom Hole Temperature(F): 148

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Mr._Potato_Head_11_14_FC_732H__H2S_Plans_20180912121612.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Devon_Mr._Potatohead_11_14_Fed_Com_732H_Permit_Plan_2_20190611100657.pdf

Devon_Mr._Potatohead_11_14_Fed_Com_732H_Permit_Plan_2_AC_Report_20190611100658.pdf

Devon_Mr._Potatohead_11_14_Fed_Com_732H_Permit_Plan_2_Plot_20190611100658.pdf

Other proposed operations facets description:

DRILLING PLAN

CLOSED LOOP

5.5 X 20 VAM-SG

7.625 29.70 P110 FLUSHMAX

13.375 48 H40

GAS CAPTURE FORM

MULTI-BOWL VERBIAGE

MULTI-BOWL WELLHEAD

SPUDDER RIG INFORMATION

ANNULAR VARIANCE

Other proposed operations facets attachment:

Mr._Potato_Head_11_14__FC_732H_Clsd_Loop_20180912122042.pdf

Mr._Potato_Head_11_14__FC_732H_Spudder_Rig_Info_20180912122042.pdf

Mr._Potato_Head_11_14_Fed_Com_732H_GCP2_09_07_18_20180912122049.pdf

Mr._Potato_Head_11_14_FC_732H_7.625_29.70_P110_Flushmax_20180912122051.pdf

Mr._Potato_Head_11_14_FC_732H_5.5_x_20_P110_EC_VAMSG_20180912122051.pdf

Mr._Potato_Head_11_14_FC_732H__13.375_48__H40_20190228152936.pdf

Mr_Potato_Head_11_14_FC_731H_8.625_32.00_P110HSCY_TLW_20190228153217.PDF

MB_Wellhd_10M_13.375_8.625_20190319062712.PDF

5.5_17__P_110_BTC_20190611100419.pdf

MB_Verb_5M_20190611100419.pdf

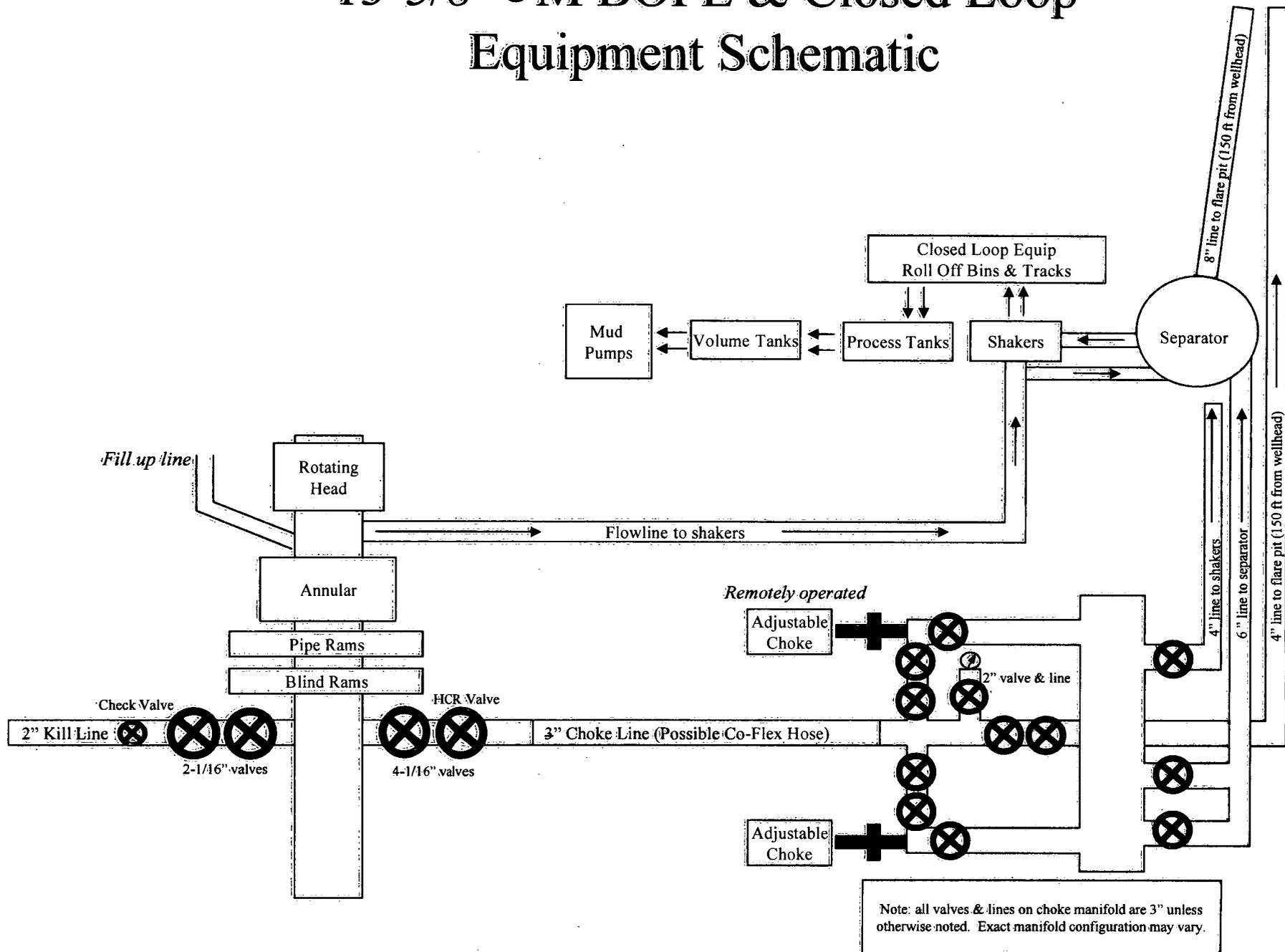
MB_Wellhd_5M_13.375_8.625_20190611100420.pdf

Mr._Potato_Head_11_14_Fed_Com_732H_Permit_Plan_2_20190611100539.pdf

Other Variance attachment:

Mr._Potato_Head_11_14__FC_732H_Co_flex_20180912122143.pdf

13-5/8" 5M BOPE & Closed Loop Equipment Schematic





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

Hydrogen Sulfide (H₂S) Contingency Plan

For

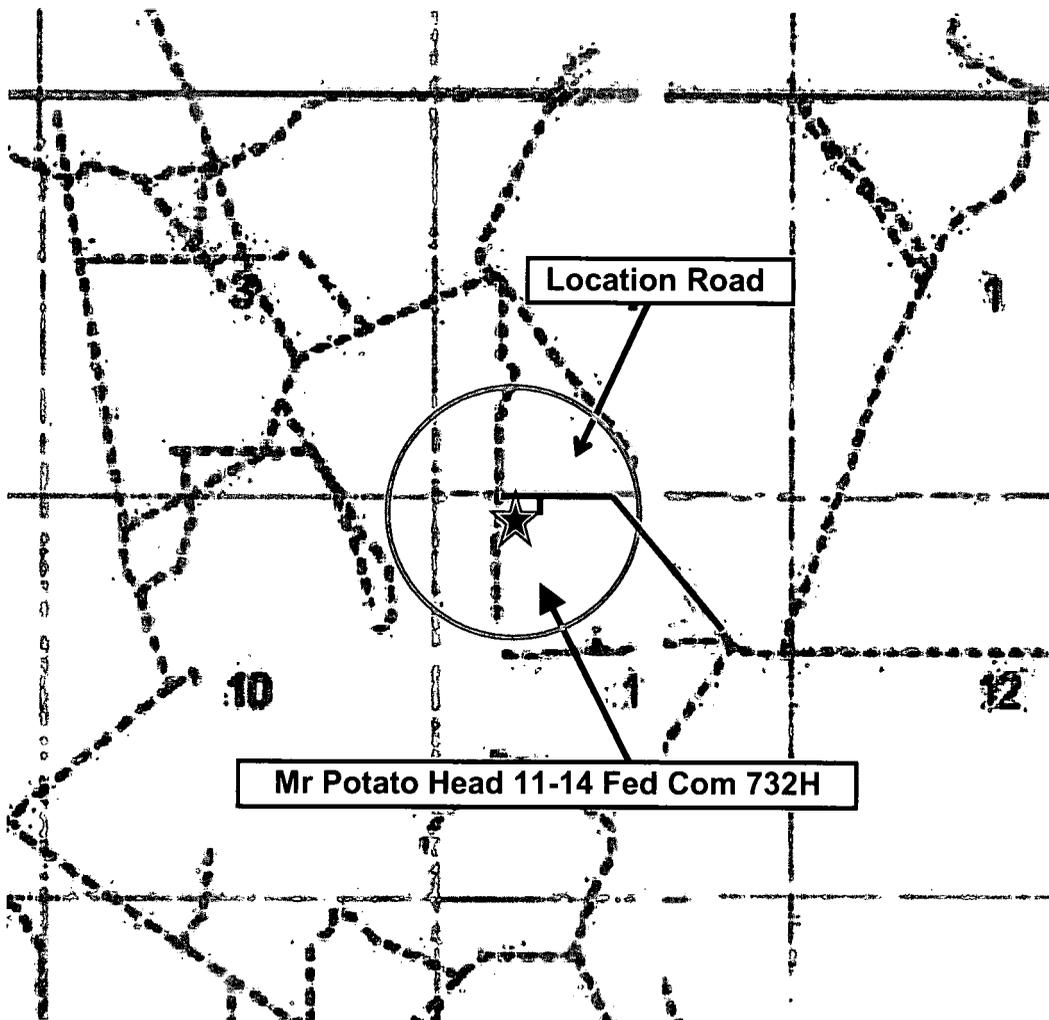
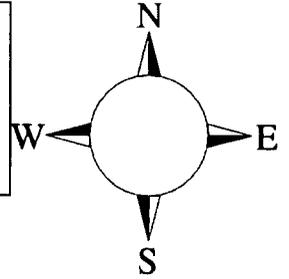
Mr Potato Head 11-14 Fed Com 732H

**Sec-11 T-24S R-29E
200' FNL & 1075' FWL
LAT. = 32.2388709' N (NAD83)
LONG = 103.9603072' W**

Eddy County NM

Mr Potato Head 11-14 Fed Com 732H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



**Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H₂S concentration shall trigger activation of this plan.**

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

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

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

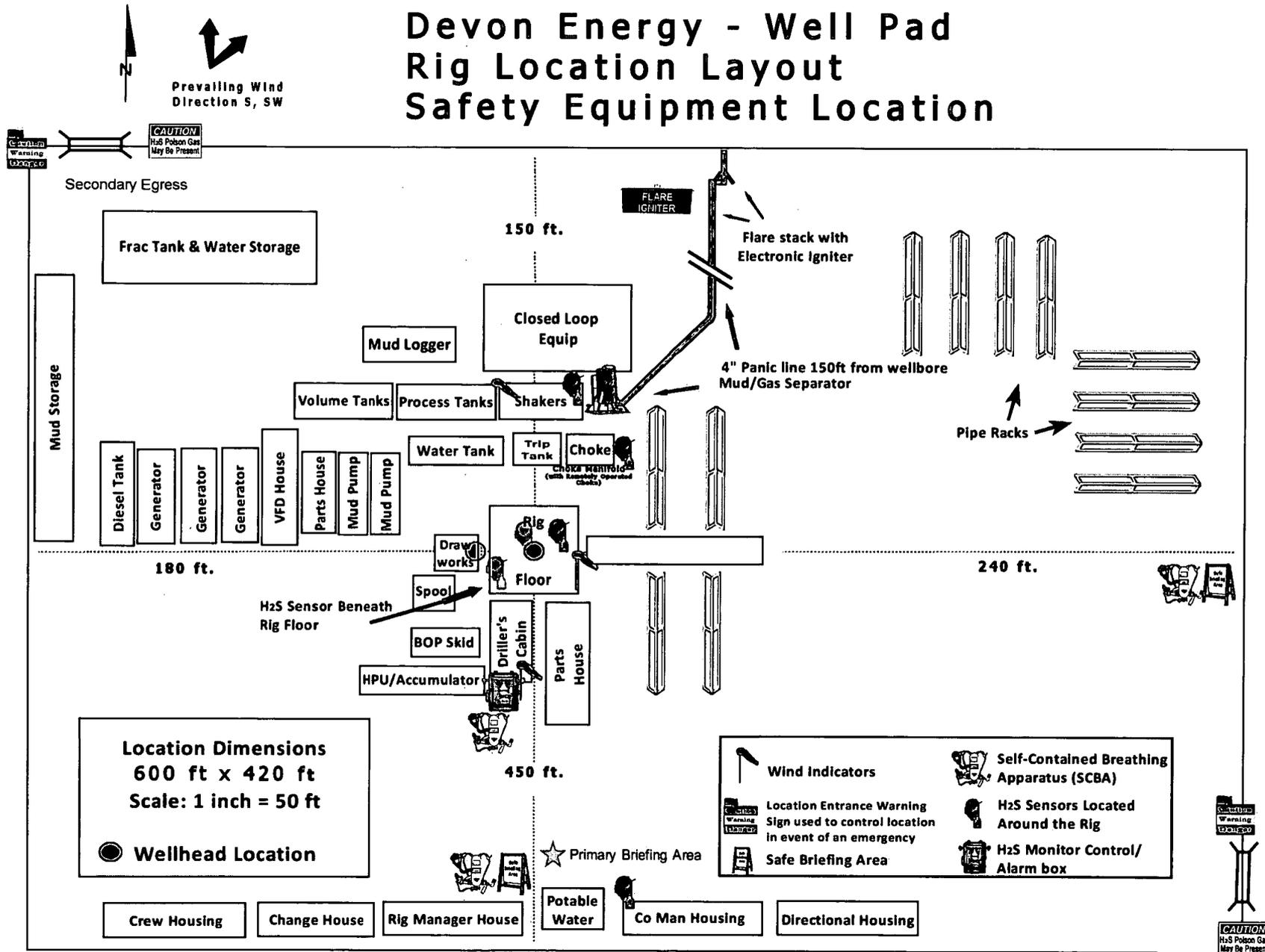
- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

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

Devon Energy Corp. Company Call List		
Drilling Supervisor – Basin – Mark Kramer		405-823-4796
EHS Professional – Laura Wright		405-439-8129
Agency Call List		
Lea County (575)	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
Eddy County (575)	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
	Give GPS position:	Native Air – Emergency Helicopter – Hobbs
Flight For Life - Lubbock, TX		(806) 743-9911
Aerocare - Lubbock, TX		(806) 747-8923
Med Flight Air Amb - Albuquerque, NM		(575) 842-4433
Lifeguard Air Med Svc. Albuquerque, NM		(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 11-T24S-R29E

Mr. Potato Head 11-14 Fed Com 732H

Wellbore #1

Plan: Permit Plan 2

Standard Planning Report - Geographic

04 June, 2019

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Mr. Potato Head 11-14 Fed Com 732H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3078.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3078.80ft
Site:	Sec 11-T24S-R29E	North Reference:	Grid
Well:	Mr. Potato Head 11-14 Fed Com 732H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Project	Eddy County (NAD 83 NM Eastern)		
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 11-T24S-R29E				
Site Position:		Northing:	451,030.14 usft	Latitude:	32.239417
From:	Map	Easting:	655,595.01 usft	Longitude:	-103.963784
Position Uncertainty:	5.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.20 °

Well	Mr. Potato Head 11-14 Fed Com 732H					
Well Position	+N/-S	0.00 ft	Northing:	450,835.07 usft	Latitude:	32.238871
	+E/-W	0.00 ft	Easting:	656,670.72 usft	Longitude:	-103.960307
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,053.80 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	4/3/2019	6.94	59.99	47,724.12990357

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	178.76

Plan Survey Tool Program	Date	6/4/2019		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,902.66 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	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,723.24	2.23	50.04	3,723.18	2.79	3.33	1.00	1.00	0.00	50.04	
9,532.68	2.23	50.04	9,528.21	148.14	176.78	0.00	0.00	0.00	0.00	
9,681.50	0.00	0.00	9,677.00	150.00	179.00	1.50	-1.50	0.00	180.00	
10,031.54	0.00	0.00	10,027.04	150.00	179.00	0.00	0.00	0.00	0.00	
10,931.55	90.00	179.75	10,600.00	-422.95	181.52	10.00	10.00	0.00	179.75	PBHL - Mr. Potato He
20,902.66	90.00	179.75	10,600.00	-10,393.97	225.39	0.00	0.00	0.00	0.00	PBHL - Mr. Potato He

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Mr. Potato Head 11-14 Fed Com 732H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3078.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3078.80ft
Site:	Sec 11-T24S-R29E	North Reference:	Grid
Well:	Mr. Potato Head 11-14 Fed Com 732H	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	450,835.07	656,670.72	32.238871	-103.960307	
100.00	0.00	0.00	100.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
200.00	0.00	0.00	200.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
300.00	0.00	0.00	300.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
400.00	0.00	0.00	400.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
500.00	0.00	0.00	500.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
600.00	0.00	0.00	600.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
700.00	0.00	0.00	700.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
800.00	0.00	0.00	800.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
900.00	0.00	0.00	900.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	450,835.07	656,670.72	32.238871	-103.960307	
3,600.00	1.00	50.04	3,600.00	0.56	0.67	450,835.63	656,671.39	32.238873	-103.960305	
3,700.00	2.00	50.04	3,699.96	2.24	2.68	450,837.31	656,673.40	32.238877	-103.960299	
3,723.24	2.23	50.04	3,723.18	2.79	3.33	450,837.86	656,674.06	32.238879	-103.960297	
3,800.00	2.23	50.04	3,799.89	4.71	5.62	450,839.78	656,676.35	32.238884	-103.960289	
3,900.00	2.23	50.04	3,899.81	7.22	8.61	450,842.29	656,679.33	32.238891	-103.960280	
4,000.00	2.23	50.04	3,999.73	9.72	11.60	450,844.79	656,682.32	32.238898	-103.960270	
4,100.00	2.23	50.04	4,099.66	12.22	14.58	450,847.29	656,685.31	32.238904	-103.960260	
4,200.00	2.23	50.04	4,199.58	14.72	17.57	450,849.79	656,688.29	32.238911	-103.960250	
4,300.00	2.23	50.04	4,299.51	17.22	20.55	450,852.29	656,691.28	32.238918	-103.960241	
4,400.00	2.23	50.04	4,399.43	19.72	23.54	450,854.79	656,694.26	32.238925	-103.960231	
4,500.00	2.23	50.04	4,499.35	22.23	26.52	450,857.30	656,697.25	32.238932	-103.960221	
4,600.00	2.23	50.04	4,599.28	24.73	29.51	450,859.80	656,700.23	32.238939	-103.960212	
4,700.00	2.23	50.04	4,699.20	27.23	32.49	450,862.30	656,703.22	32.238946	-103.960202	
4,800.00	2.23	50.04	4,799.13	29.73	35.48	450,864.80	656,706.21	32.238952	-103.960192	
4,900.00	2.23	50.04	4,899.05	32.23	38.47	450,867.30	656,709.19	32.238959	-103.960183	
5,000.00	2.23	50.04	4,998.97	34.74	41.45	450,869.81	656,712.18	32.238966	-103.960173	
5,100.00	2.23	50.04	5,098.90	37.24	44.44	450,872.31	656,715.16	32.238973	-103.960163	
5,200.00	2.23	50.04	5,198.82	39.74	47.42	450,874.81	656,718.15	32.238980	-103.960154	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Mr. Potato Head 11-14 Fed Com 732H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3078.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3078.80ft
Site:	Sec 11-T24S-R29E	North Reference:	Grid
Well:	Mr. Potato Head 11-14 Fed Com 732H	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	2.23	50.04	5,298.75	42.24	50.41	450,877.31	656,721.13	32.238987	-103.960144	
5,400.00	2.23	50.04	5,398.67	44.74	53.39	450,879.81	656,724.12	32.238993	-103.960134	
5,500.00	2.23	50.04	5,498.60	47.25	56.38	450,882.32	656,727.10	32.239000	-103.960125	
5,600.00	2.23	50.04	5,598.52	49.75	59.37	450,884.82	656,730.09	32.239007	-103.960115	
5,700.00	2.23	50.04	5,698.44	52.25	62.35	450,887.32	656,733.08	32.239014	-103.960105	
5,800.00	2.23	50.04	5,798.37	54.75	65.34	450,889.82	656,736.06	32.239021	-103.960096	
5,900.00	2.23	50.04	5,898.29	57.25	68.32	450,892.32	656,739.05	32.239028	-103.960086	
6,000.00	2.23	50.04	5,998.22	59.75	71.31	450,894.82	656,742.03	32.239035	-103.960076	
6,100.00	2.23	50.04	6,098.14	62.26	74.29	450,897.33	656,745.02	32.239041	-103.960066	
6,200.00	2.23	50.04	6,198.06	64.76	77.28	450,899.83	656,748.00	32.239048	-103.960057	
6,300.00	2.23	50.04	6,297.99	67.26	80.26	450,902.33	656,750.99	32.239055	-103.960047	
6,400.00	2.23	50.04	6,397.91	69.76	83.25	450,904.83	656,753.97	32.239062	-103.960037	
6,500.00	2.23	50.04	6,497.84	72.26	86.24	450,907.33	656,756.96	32.239069	-103.960028	
6,600.00	2.23	50.04	6,597.76	74.77	89.22	450,909.84	656,759.95	32.239076	-103.960018	
6,700.00	2.23	50.04	6,697.68	77.27	92.21	450,912.34	656,762.93	32.239083	-103.960008	
6,800.00	2.23	50.04	6,797.61	79.77	95.19	450,914.84	656,765.92	32.239089	-103.959999	
6,900.00	2.23	50.04	6,897.53	82.27	98.18	450,917.34	656,768.90	32.239096	-103.959989	
7,000.00	2.23	50.04	6,997.46	84.77	101.16	450,919.84	656,771.89	32.239103	-103.959979	
7,100.00	2.23	50.04	7,097.38	87.28	104.15	450,922.35	656,774.87	32.239110	-103.959970	
7,200.00	2.23	50.04	7,197.31	89.78	107.13	450,924.85	656,777.86	32.239117	-103.959960	
7,300.00	2.23	50.04	7,297.23	92.28	110.12	450,927.35	656,780.84	32.239124	-103.959950	
7,400.00	2.23	50.04	7,397.15	94.78	113.11	450,929.85	656,783.83	32.239130	-103.959941	
7,500.00	2.23	50.04	7,497.08	97.28	116.09	450,932.35	656,786.82	32.239137	-103.959931	
7,600.00	2.23	50.04	7,597.00	99.78	119.08	450,934.85	656,789.80	32.239144	-103.959921	
7,700.00	2.23	50.04	7,696.93	102.29	122.06	450,937.36	656,792.79	32.239151	-103.959912	
7,800.00	2.23	50.04	7,796.85	104.79	125.05	450,939.86	656,795.77	32.239158	-103.959902	
7,900.00	2.23	50.04	7,896.77	107.29	128.03	450,942.36	656,798.76	32.239165	-103.959892	
8,000.00	2.23	50.04	7,996.70	109.79	131.02	450,944.86	656,801.74	32.239172	-103.959882	
8,100.00	2.23	50.04	8,096.62	112.29	134.00	450,947.36	656,804.73	32.239178	-103.959873	
8,200.00	2.23	50.04	8,196.55	114.80	136.99	450,949.87	656,807.71	32.239185	-103.959863	
8,300.00	2.23	50.04	8,296.47	117.30	139.98	450,952.37	656,810.70	32.239192	-103.959853	
8,400.00	2.23	50.04	8,396.39	119.80	142.96	450,954.87	656,813.69	32.239199	-103.959844	
8,500.00	2.23	50.04	8,496.32	122.30	145.95	450,957.37	656,816.67	32.239206	-103.959834	
8,600.00	2.23	50.04	8,596.24	124.80	148.93	450,959.87	656,819.66	32.239213	-103.959824	
8,700.00	2.23	50.04	8,696.17	127.31	151.92	450,962.38	656,822.64	32.239220	-103.959815	
8,800.00	2.23	50.04	8,796.09	129.81	154.90	450,964.88	656,825.63	32.239226	-103.959805	
8,900.00	2.23	50.04	8,896.01	132.31	157.89	450,967.38	656,828.61	32.239233	-103.959795	
9,000.00	2.23	50.04	8,995.94	134.81	160.87	450,969.88	656,831.60	32.239240	-103.959786	
9,100.00	2.23	50.04	9,095.86	137.31	163.86	450,972.38	656,834.58	32.239247	-103.959776	
9,200.00	2.23	50.04	9,195.79	139.81	166.85	450,974.88	656,837.57	32.239254	-103.959766	
9,300.00	2.23	50.04	9,295.71	142.32	169.83	450,977.39	656,840.56	32.239261	-103.959757	
9,400.00	2.23	50.04	9,395.64	144.82	172.82	450,979.89	656,843.54	32.239267	-103.959747	
9,500.00	2.23	50.04	9,495.56	147.32	175.80	450,982.39	656,846.53	32.239274	-103.959737	
9,532.68	2.23	50.04	9,528.21	148.14	176.78	450,983.21	656,847.50	32.239277	-103.959734	
9,600.00	1.22	50.04	9,595.50	149.44	178.33	450,984.51	656,849.06	32.239280	-103.959729	
9,681.50	0.00	0.00	9,677.00	150.00	179.00	450,985.07	656,849.72	32.239282	-103.959727	
9,700.00	0.00	0.00	9,695.50	150.00	179.00	450,985.07	656,849.72	32.239282	-103.959727	
9,800.00	0.00	0.00	9,795.50	150.00	179.00	450,985.07	656,849.72	32.239282	-103.959727	
9,900.00	0.00	0.00	9,895.50	150.00	179.00	450,985.07	656,849.72	32.239282	-103.959727	
10,000.00	0.00	0.00	9,995.50	150.00	179.00	450,985.07	656,849.72	32.239282	-103.959727	
10,031.54	0.00	0.00	10,027.04	150.00	179.00	450,985.07	656,849.72	32.239282	-103.959727	
KOP @ 10032' MD, 50' FNL, 1254' FWL										
10,100.00	6.85	179.75	10,095.33	145.92	179.02	450,980.99	656,849.74	32.239270	-103.959727	
10,200.00	16.85	179.75	10,193.08	125.41	179.11	450,960.48	656,849.83	32.239214	-103.959727	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Mr. Potato Head 11-14 Fed Com 732H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3078.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3078.80ft
Site:	Sec 11-T24S-R29E	North Reference:	Grid
Well:	Mr. Potato Head 11-14 Fed Com 732H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey										
Measured				Vertical			Map	Map		
Depth	Inclination	Azimuth	Depth	+N-S	+E-W	Northing	Easting	Latitude	Longitude	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)			
10,272.69	24.11	179.75	10,261.13	100.00	179.22	450,935.07	656,849.94	32.239144	-103.959727	
FTP @ 10273' MD, 100' FNL, 1254' FWL										
10,300.00	26.85	179.75	10,285.78	88.25	179.27	450,923.32	656,850.00	32.239112	-103.959727	
10,400.00	36.85	179.75	10,370.62	35.56	179.50	450,870.63	656,850.23	32.238967	-103.959726	
10,500.00	46.85	179.75	10,445.02	-31.07	179.80	450,804.00	656,850.52	32.238784	-103.959726	
10,600.00	56.85	179.75	10,506.72	-109.61	180.14	450,725.46	656,850.87	32.238568	-103.959726	
10,700.00	66.85	179.75	10,553.85	-197.66	180.53	450,637.41	656,851.25	32.238326	-103.959726	
10,800.00	76.85	179.75	10,584.96	-292.56	180.95	450,542.51	656,851.67	32.238065	-103.959725	
10,900.00	86.85	179.75	10,599.13	-391.42	181.38	450,443.65	656,852.11	32.237793	-103.959725	
10,931.55	90.00	179.75	10,600.00	-422.95	181.52	450,412.12	656,852.25	32.237707	-103.959725	
11,000.00	90.00	179.75	10,600.00	-491.41	181.82	450,343.66	656,852.55	32.237518	-103.959725	
11,100.00	90.00	179.75	10,600.00	-591.41	182.26	450,243.66	656,852.99	32.237244	-103.959725	
11,200.00	90.00	179.75	10,600.00	-691.41	182.70	450,143.67	656,853.43	32.236969	-103.959724	
11,300.00	90.00	179.75	10,600.00	-791.40	183.14	450,043.67	656,853.87	32.236694	-103.959724	
11,400.00	90.00	179.75	10,600.00	-891.40	183.58	449,943.67	656,854.31	32.236419	-103.959724	
11,500.00	90.00	179.75	10,600.00	-991.40	184.02	449,843.67	656,854.75	32.236144	-103.959723	
11,600.00	90.00	179.75	10,600.00	-1,091.40	184.46	449,743.67	656,855.19	32.235869	-103.959723	
11,700.00	90.00	179.75	10,600.00	-1,191.40	184.90	449,643.67	656,855.63	32.235594	-103.959723	
11,800.00	90.00	179.75	10,600.00	-1,291.40	185.34	449,543.67	656,856.07	32.235319	-103.959723	
11,900.00	90.00	179.75	10,600.00	-1,391.40	185.78	449,443.67	656,856.51	32.235045	-103.959722	
12,000.00	90.00	179.75	10,600.00	-1,491.40	186.22	449,343.67	656,856.95	32.234770	-103.959722	
12,100.00	90.00	179.75	10,600.00	-1,591.40	186.66	449,243.68	656,857.39	32.234495	-103.959722	
12,200.00	90.00	179.75	10,600.00	-1,691.40	187.10	449,143.68	656,857.83	32.234220	-103.959721	
12,300.00	90.00	179.75	10,600.00	-1,791.40	187.54	449,043.68	656,858.27	32.233945	-103.959721	
12,400.00	90.00	179.75	10,600.00	-1,891.39	187.98	448,943.68	656,858.71	32.233670	-103.959721	
12,500.00	90.00	179.75	10,600.00	-1,991.39	188.42	448,843.68	656,859.15	32.233395	-103.959720	
12,600.00	90.00	179.75	10,600.00	-2,091.39	188.86	448,743.68	656,859.59	32.233120	-103.959720	
12,700.00	90.00	179.75	10,600.00	-2,191.39	189.30	448,643.68	656,860.03	32.232845	-103.959720	
12,800.00	90.00	179.75	10,600.00	-2,291.39	189.74	448,543.68	656,860.47	32.232571	-103.959720	
12,900.00	90.00	179.75	10,600.00	-2,391.39	190.18	448,443.69	656,860.91	32.232296	-103.959719	
13,000.00	90.00	179.75	10,600.00	-2,491.39	190.62	448,343.69	656,861.35	32.232021	-103.959719	
13,100.00	90.00	179.75	10,600.00	-2,591.39	191.06	448,243.69	656,861.79	32.231746	-103.959719	
13,200.00	90.00	179.75	10,600.00	-2,691.39	191.50	448,143.69	656,862.23	32.231471	-103.959718	
13,300.00	90.00	179.75	10,600.00	-2,791.39	191.94	448,043.69	656,862.67	32.231196	-103.959718	
13,400.00	90.00	179.75	10,600.00	-2,891.38	192.38	447,943.69	656,863.11	32.230921	-103.959718	
13,500.00	90.00	179.75	10,600.00	-2,991.38	192.82	447,843.69	656,863.55	32.230646	-103.959717	
13,600.00	90.00	179.75	10,600.00	-3,091.38	193.26	447,743.69	656,863.99	32.230371	-103.959717	
13,700.00	90.00	179.75	10,600.00	-3,191.38	193.70	447,643.69	656,864.43	32.230097	-103.959717	
13,800.00	90.00	179.75	10,600.00	-3,291.38	194.14	447,543.70	656,864.87	32.229822	-103.959717	
13,900.00	90.00	179.75	10,600.00	-3,391.38	194.58	447,443.70	656,865.31	32.229547	-103.959716	
14,000.00	90.00	179.75	10,600.00	-3,491.38	195.02	447,343.70	656,865.75	32.229272	-103.959716	
14,100.00	90.00	179.75	10,600.00	-3,591.38	195.46	447,243.70	656,866.19	32.228997	-103.959716	
14,200.00	90.00	179.75	10,600.00	-3,691.38	195.90	447,143.70	656,866.63	32.228722	-103.959715	
14,300.00	90.00	179.75	10,600.00	-3,791.38	196.34	447,043.70	656,867.07	32.228447	-103.959715	
14,400.00	90.00	179.75	10,600.00	-3,891.37	196.78	446,943.70	656,867.51	32.228172	-103.959715	
14,500.00	90.00	179.75	10,600.00	-3,991.37	197.22	446,843.70	656,867.95	32.227897	-103.959714	
14,600.00	90.00	179.75	10,600.00	-4,091.37	197.66	446,743.71	656,868.39	32.227623	-103.959714	
14,700.00	90.00	179.75	10,600.00	-4,191.37	198.10	446,643.71	656,868.83	32.227348	-103.959714	
14,800.00	90.00	179.75	10,600.00	-4,291.37	198.54	446,543.71	656,869.27	32.227073	-103.959714	
14,900.00	90.00	179.75	10,600.00	-4,391.37	198.98	446,443.71	656,869.71	32.226798	-103.959713	
15,000.00	90.00	179.75	10,600.00	-4,491.37	199.42	446,343.71	656,870.14	32.226523	-103.959713	
15,100.00	90.00	179.75	10,600.00	-4,591.37	199.86	446,243.71	656,870.58	32.226248	-103.959713	
15,200.00	90.00	179.75	10,600.00	-4,691.37	200.30	446,143.71	656,871.02	32.225973	-103.959712	
15,300.00	90.00	179.75	10,600.00	-4,791.37	200.74	446,043.71	656,871.46	32.225698	-103.959712	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Mr. Potato Head 11-14 Fed Com 732H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3078.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3078.80ft
Site:	Sec 11-T24S-R29E	North Reference:	Grid
Well:	Mr. Potato Head 11-14 Fed Com 732H	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	179.75	10,600.00	-4,891.37	201.18	445,943.71	656,871.90	32.225424	-103.959712	
15,500.00	90.00	179.75	10,600.00	-4,991.36	201.62	445,843.72	656,872.34	32.225149	-103.959711	
15,589.00	90.00	179.75	10,600.00	-5,080.36	202.01	445,754.72	656,872.74	32.224904	-103.959711	
Cross section @ 15589' MD, 0' FNL, 1254' FWL										
15,600.00	90.00	179.75	10,600.00	-5,091.36	202.06	445,743.72	656,872.78	32.224874	-103.959711	
15,700.00	90.00	179.75	10,600.00	-5,191.36	202.50	445,643.72	656,873.22	32.224599	-103.959711	
15,800.00	90.00	179.75	10,600.00	-5,291.36	202.94	445,543.72	656,873.66	32.224324	-103.959711	
15,900.00	90.00	179.75	10,600.00	-5,391.36	203.38	445,443.72	656,874.10	32.224049	-103.959710	
16,000.00	90.00	179.75	10,600.00	-5,491.36	203.82	445,343.72	656,874.54	32.223774	-103.959710	
16,100.00	90.00	179.75	10,600.00	-5,591.36	204.26	445,243.72	656,874.98	32.223499	-103.959710	
16,200.00	90.00	179.75	10,600.00	-5,691.36	204.70	445,143.72	656,875.42	32.223224	-103.959709	
16,300.00	90.00	179.75	10,600.00	-5,791.36	205.14	445,043.73	656,875.86	32.222950	-103.959709	
16,400.00	90.00	179.75	10,600.00	-5,891.36	205.58	444,943.73	656,876.30	32.222675	-103.959709	
16,500.00	90.00	179.75	10,600.00	-5,991.35	206.02	444,843.73	656,876.74	32.222400	-103.959709	
16,600.00	90.00	179.75	10,600.00	-6,091.35	206.46	444,743.73	656,877.18	32.222125	-103.959708	
16,700.00	90.00	179.75	10,600.00	-6,191.35	206.90	444,643.73	656,877.62	32.221850	-103.959708	
16,800.00	90.00	179.75	10,600.00	-6,291.35	207.34	444,543.73	656,878.06	32.221575	-103.959708	
16,900.00	90.00	179.75	10,600.00	-6,391.35	207.78	444,443.73	656,878.50	32.221300	-103.959707	
17,000.00	90.00	179.75	10,600.00	-6,491.35	208.22	444,343.73	656,878.94	32.221025	-103.959707	
17,100.00	90.00	179.75	10,600.00	-6,591.35	208.66	444,243.73	656,879.38	32.220750	-103.959707	
17,200.00	90.00	179.75	10,600.00	-6,691.35	209.10	444,143.74	656,879.82	32.220476	-103.959706	
17,300.00	90.00	179.75	10,600.00	-6,791.35	209.54	444,043.74	656,880.26	32.220201	-103.959706	
17,400.00	90.00	179.75	10,600.00	-6,891.35	209.98	443,943.74	656,880.70	32.219926	-103.959706	
17,500.00	90.00	179.75	10,600.00	-6,991.35	210.42	443,843.74	656,881.14	32.219651	-103.959706	
17,600.00	90.00	179.75	10,600.00	-7,091.34	210.86	443,743.74	656,881.58	32.219376	-103.959705	
17,700.00	90.00	179.75	10,600.00	-7,191.34	211.30	443,643.74	656,882.02	32.219101	-103.959705	
17,800.00	90.00	179.75	10,600.00	-7,291.34	211.74	443,543.74	656,882.46	32.218826	-103.959705	
17,900.00	90.00	179.75	10,600.00	-7,391.34	212.18	443,443.74	656,882.90	32.218551	-103.959704	
18,000.00	90.00	179.75	10,600.00	-7,491.34	212.62	443,343.74	656,883.34	32.218276	-103.959704	
18,100.00	90.00	179.75	10,600.00	-7,591.34	213.06	443,243.75	656,883.78	32.218002	-103.959704	
18,200.00	90.00	179.75	10,600.00	-7,691.34	213.50	443,143.75	656,884.22	32.217727	-103.959703	
18,300.00	90.00	179.75	10,600.00	-7,791.34	213.94	443,043.75	656,884.66	32.217452	-103.959703	
18,400.00	90.00	179.75	10,600.00	-7,891.34	214.38	442,943.75	656,885.10	32.217177	-103.959703	
18,500.00	90.00	179.75	10,600.00	-7,991.34	214.82	442,843.75	656,885.54	32.216902	-103.959703	
18,600.00	90.00	179.75	10,600.00	-8,091.33	215.26	442,743.75	656,885.98	32.216627	-103.959702	
18,700.00	90.00	179.75	10,600.00	-8,191.33	215.70	442,643.75	656,886.42	32.216352	-103.959702	
18,800.00	90.00	179.75	10,600.00	-8,291.33	216.14	442,543.75	656,886.86	32.216077	-103.959702	
18,900.00	90.00	179.75	10,600.00	-8,391.33	216.58	442,443.76	656,887.30	32.215803	-103.959701	
19,000.00	90.00	179.75	10,600.00	-8,491.33	217.02	442,343.76	656,887.74	32.215528	-103.959701	
19,100.00	90.00	179.75	10,600.00	-8,591.33	217.46	442,243.76	656,888.18	32.215253	-103.959701	
19,200.00	90.00	179.75	10,600.00	-8,691.33	217.90	442,143.76	656,888.62	32.214978	-103.959700	
19,300.00	90.00	179.75	10,600.00	-8,791.33	218.34	442,043.76	656,889.06	32.214703	-103.959700	
19,400.00	90.00	179.75	10,600.00	-8,891.33	218.78	441,943.76	656,889.50	32.214428	-103.959700	
19,500.00	90.00	179.75	10,600.00	-8,991.33	219.22	441,843.76	656,889.94	32.214153	-103.959700	
19,600.00	90.00	179.75	10,600.00	-9,091.32	219.66	441,743.76	656,890.38	32.213878	-103.959699	
19,700.00	90.00	179.75	10,600.00	-9,191.32	220.10	441,643.76	656,890.82	32.213603	-103.959699	
19,800.00	90.00	179.75	10,600.00	-9,291.32	220.54	441,543.77	656,891.26	32.213329	-103.959699	
19,900.00	90.00	179.75	10,600.00	-9,391.32	220.98	441,443.77	656,891.70	32.213054	-103.959698	
20,000.00	90.00	179.75	10,600.00	-9,491.32	221.42	441,343.77	656,892.14	32.212779	-103.959698	
20,100.00	90.00	179.75	10,600.00	-9,591.32	221.86	441,243.77	656,892.58	32.212504	-103.959698	
20,200.00	90.00	179.75	10,600.00	-9,691.32	222.30	441,143.77	656,893.02	32.212229	-103.959697	
20,300.00	90.00	179.75	10,600.00	-9,791.32	222.74	441,043.77	656,893.46	32.211954	-103.959697	
20,400.00	90.00	179.75	10,600.00	-9,891.32	223.18	440,943.77	656,893.90	32.211679	-103.959697	
20,500.00	90.00	179.75	10,600.00	-9,991.32	223.62	440,843.77	656,894.34	32.211404	-103.959697	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Mr. Potato Head 11-14 Fed Com 732H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3078.80ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3078.80ft
Site:	Sec 11-T24S-R29E	North Reference:	Grid
Well:	Mr. Potato Head 11-14 Fed Com 732H	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
20,600.00	90.00	179.75	10,600.00	-10,091.32	224.06	440,743.78	656,894.78	32.211129	-103.959696
20,700.00	90.00	179.75	10,600.00	-10,191.31	224.50	440,643.78	656,895.22	32.210855	-103.959696
20,800.00	90.00	179.75	10,600.00	-10,291.31	224.94	440,543.78	656,895.66	32.210580	-103.959696
20,822.66	90.00	179.75	10,600.00	-10,313.97	225.04	440,521.12	656,895.76	32.210517	-103.959696
LTP @ 20823' MD, 100' FSL, 1254' FWL									
20,900.00	90.00	179.75	10,600.00	-10,391.31	225.38	440,443.78	656,896.10	32.210305	-103.959695
20,902.65	90.00	179.75	10,600.00	-10,393.96	225.39	440,441.13	656,896.11	32.210297	-103.959695
PBHL; 20' FSL, 1254' FWL									
20,902.66	90.00	179.75	10,600.00	-10,393.97	225.39	440,441.12	656,896.11	32.210297	-103.959695

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - Mr. Potato Head	0.00	0.00	0.00	-10,393.97	225.39	440,441.12	656,896.11	32.210297	-103.959695
- plan misses target center by 10396.41ft 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)		
10,031.54	10,027.04	150.00	179.00	KOP @ 10032' MD, 50' FNL, 1254' FWL	
10,272.69	10,261.13	100.00	179.22	FTP @ 10273' MD, 100' FNL, 1254' FWL	
15,589.00	10,600.00	-5,080.36	202.01	Cross section @ 15589' MD, 0' FNL, 1254' FWL	
20,822.66	10,600.00	-10,313.97	225.04	LTP @ 20823' MD, 100' FSL, 1254' FWL	
20,902.65	10,600.00	-10,393.96	225.39	PBHL; 20' FSL, 1254' FWL	

1. Geologic Formations

TVD of target	10600	Pilot hole depth	N/A
MD at TD:	20903	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	375		
Top Salt	500		
Base of Salt	2700		
Delaware	2600		
Lamar	3106		
Bell Canyon	3157		
Brushy Canyon	5230		
Bone Spring Lime	6812		
1st BSPG Sand	7872		
Bone Spring 2nd	8716		
Bone Spring 3rd	9791		
Wolfcamp	10133		
Wolfcamp XY	10164		
Wolfcamp 100	10268		

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

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	400 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	9791 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

- 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)

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	400 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	9791 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

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

Mr. Potato Head 11-14 Fed Com 732H

	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
Capitan Reef	
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.	
SOPA	
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?	
R-111-P and SOPA	
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?	
High Cave/Karst	
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?	
Critical Cave/Karst	
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	328	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	529	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	763	Surf	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
	209	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
	529	Surf	9	3.27	Lead: Class C Cement + additives
	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	62	8032	9.0	3.3	Lead: Class H / C + additives
	694	10032	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	#Sks	TOC	Wt. ppg	Yld (ft ³ /sack)	Slurry Description
Surface	328	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	329	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	448	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
	140	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
	329	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1 (10.625" Hole Size)	508	Surf	9	3.27	Lead: Class C Cement + additives
	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	117	8032	9.0	3.3	Lead: Class H / C + additives
	1439	10032	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
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	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*		
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	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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
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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
	Density
X	CBL
X	Mud log
	PEX

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5788
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	H ₂ S is present
Y	H ₂ S 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



APD ID: 10400033914

Submission Date: 09/17/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



APD ID: 10400033914

Submission Date: 09/17/2018

Highlighted data
reflects the most
recent changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: MR. POTATO HEAD 11-14 FED COM

Well Number: 732H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000807

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: