

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

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| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. NMNM105557 |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input 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. PAPA FRITAS 27-22 FED COM 621H 326778 |
| 3a. Address 333 West Sheridan Avenue Oklahoma City OK 73102 | 3b. Phone No. (include area code) (800)583-3866 | 9. API Well No. 30-015-46573 |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW / 102 FNL / 993 FWL / LAT 32.268311 / LONG -103.977975 At proposed prod. zone NWNW / 20 FNL / 1254 FWL / LAT 32.297784 / LONG -103.97714 | | 10. Field and Pool, or Exploratory PURPLE SAGE / WOLFCAMP |
| 14. Distance in miles and direction from nearest town or post office* | | 11. Sec., T, R, M, or Blk. and Survey or Area SEC 34 / T23S / R29E / NMP |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 102 feet | 16. No of acres in lease 640 | 12. County or Parish EDDY |
| 17. Spacing Unit dedicated to this well 640 | 13. State NM | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 3000 feet | 19. Proposed Depth 10120 feet / 20452 feet | 17. BLM/BIA Bond No. in file FED: NMB000801 |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3022 feet | 22. Approximate date work will start* 06/01/2020 | 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)

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| 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 06/23/2019 |
| Title Regulatory Compliance Professional | | |
| Approved by (Signature) (Electronic Submission) | Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 | Date 12/20/2019 |
| 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: 12/20/2019

RW1-9-2120

NSL



Application for Permit to Drill

U.S. Department of the Interior
Bureau of Land Management

APD Package Report

Date Printed: 12/23/2019 08:33 AM

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| APD ID: 10400042950 | Well Status: AAPD |
| APD Received Date: 06/23/2019 07:55 AM | Well Name: PAPA FRITAS 27-22 FED CO |
| Operator: DEVON ENERGY PRODUCTION CC | Well Number: 621H |

APD Package Report Contents

- Form 3160-3
- Operator Certification Report : Error Generating Form
- Application Report : Error Generating Report
- Application Attachments
 - Well Plat: 1 file(s)
- Drilling Plan Report : Error Generating Report
- Drilling Plan Attachments
 - Blowout Prevention Choke Diagram Attachment: 2 file(s)
 - Blowout Prevention BOP Diagram Attachment: 2 file(s)
 - Casing Design Assumptions and Worksheet(s): 3 file(s)
 - Hydrogen sulfide drilling operations plan: 1 file(s)
 - Proposed horizontal/directional/multi-lateral plan submission: 3 file(s)
 - Other Facets: 12 file(s)
 - Other Variances: 1 file(s)
- SUPO Report : Error Generating Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - New Road Map: 3 file(s)
 - New road access plan attachment: 3 file(s)
 - Access road engineering design attachment: 3 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities map: 5 file(s)
 - Water source and transportation map: 1 file(s)
 - Construction Materials source location attachment: 1 file(s)
 - Well Site Layout Diagram: 1 file(s)
 - Recontouring attachment: 1 file(s)
- PWD Report : Error Generating Report
- PWD Attachments

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

- 1. SHL: NWNW /102 FNL /993 FWL /TWSP: 23S /RANGE: 29E /SECTION: 34 /LAT: 32.268311 /LONG: -103.977975 (TVD: 0 feet, MD: 0 feet)
PPP: SWSW /100 FSL /1254 FWL /TWSP: 23S /RANGE: 29E /SECTION: 27 /LAT: 32.268866 /LONG: -103.977135 (TVD: 9781 feet, MD: 9795 feet)
BHL: NWNW /20 FNL /1254 FWL /TWSP: 23S /RANGE: 29W /SECTION: 22 /LAT: 32.297784 /LONG: -103.97714 (TVD: 10420 feet, MD: 20452 feet)

BLM Point of Contact

Name: Candy Vigil
Title: LIE
Phone: 5752345982
Email: cvigil@blm.gov

CONFIDENTIAL

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| | |
|------------------------------|------------------------------------|
| OPERATOR'S NAME: | Devon Energy Production Company LP |
| LEASE NO.: | NMNM105557 |
| WELL NAME & NO.: | Papa Fritas 27-22 Fed Com 621H |
| SURFACE HOLE FOOTAGE: | 102'/N & 993'/W |
| BOTTOM HOLE FOOTAGE: | 20'/N & 1254'/W |
| LOCATION: | Section 34, T.23 S., R.29 E., NMPM |
| COUNTY: | Eddy County, New Mexico |

COA

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

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

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **500 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.

Not enough cement to reach surface for the intermediate casing, more sacks shall be required.

- 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 **24 hours in the Potash Area** 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 shall be set at approximately **9634 feet** 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.
Cement excess is less than 25%, more cement might be required.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement might be required.

- ❖ 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.
- ❖ In R111 Potash 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 to surface. If cement does not circulate, contact the appropriate BLM office.
Cement excess is less than 25%, more cement might be required.

Alternate Casing Design:

4. The 13-3/8 inch surface casing shall be set at approximately **500 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.

Not enough cement to reach surface for the intermediate casing, more sacks shall be required.

- 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 **24 hours in the Potash Area** 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 shall be set at approximately **9634 feet** 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.
Cement excess is less than 25%, more cement might be required.

Option 2:

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

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- d. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement might be required.
 - ❖ 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.
 - ❖ In R111 Potash 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.

- 6. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Cement excess is less than 25%, more cement might be required.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

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

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - 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)

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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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.

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

- Papa Fritas 27-22 Fed Com 331H (Well Pad 4)**
102 FNL, 943 FWL Section 34, T.23., R. 29E.
20 FNL, 330 FWL Section 22, T.23., R. 29E.
- Papa Fritas 27-22 Fed Com 333H (Well Pad 3)**
150 FSL, 822 FWL Section 27, T.23., R. 29E.
20 FNL, 1254 FEL Section 22, T.23., R. 29E.
- Papa Fritas 27-22 Fed Com 332H (Well Pad 2)**
152 FSL, 1822 FEL Section 27, T.23., R. 29E.
20 FNL, 2178 FEL Section 22, T.23., R. 29E.
- Papa Fritas 27-22 Fed Com 621H (Well Pad 4)**
102 FNL, 993 FWL Section 34, T.23., R. 29E.
20 FNL, 1254 FWL Section 22, T.23., R. 29E.
- Papa Fritas 27-22 Fed Com 332H (Well Pad 2)**
152 FSL, 1762 FEL Section 27, T.23., R. 29E.
20 FNL, 2178 FEL Section 22, T.23., R. 29E.
- Papa Fritas 27-22 Fed Com 333H (Well Pad 3)**
150 FSL, 762 FEL Section 27, T.23., R. 29E.
20 FNL, 330 FEL Section 22, T.23., R. 29E.
- Papa Fritas 27-22 Fed Com 621H (Well Pad 4)**
102 FNL, 968 FWL Section 34, T.23., R. 29E.
20 FNL, 990 FWL Section 22, T.23., R. 29E.
- Papa Fritas 27-22 Fed Com 333H (Well Pad 3)**
150 FSL, 792 FEL Section 27, T.23., R. 29E.
20 FNL, 990 FEL Section 22, T.23., R. 29E.

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- General Provisions**
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- Archaeology, Paleontology, and Historical Sites**
- Noxious Weeds**
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I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production:

Construction:

General Construction:

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

Pad Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche – no blasting.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).

- Following a rain event, all fluids will be vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

Tank Battery Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche – no blasting.
- All tank battery locations and facilities will be lined and bermed.
- The liner should be at least 20 mil in thickness and installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures.
- Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Road Construction:

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

Buried Pipeline/Cable Construction:

- Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

Powerline Construction:

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

Surface Flowlines Installation:

- Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

Leak Detection System:

- A method of detecting leaks is required. The method could incorporate gauges to measure loss, siting valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present.
- A leak detection plan will be submitted to BLM that incorporates an automatic shut off system (see below) to minimize the effects of an undesirable event that could negatively sensitive cave/karst resources.

- Well heads, pipelines (surface and buried), storage tanks, and all supporting equipment should be monitored regularly after installation to promptly identify and fix leaks.

Automatic Shut-off Systems:

- Automatic shut off, check valves, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and groundwater concerns:

Closed Loop System:

- A closed loop system using steel tanks will be utilized during drilling – no pits
- All fluids and cuttings will be hauled off-site and disposed of properly at an authorized site

Rotary Drilling with Fresh Water:

- Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

- The kick off point for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

- ALL lost circulation zones between surface and the base of the cave occurrence zone will be logged and reported in the drilling report.
- If a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, regardless of the type of drilling machinery used, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

- Additional plugging conditions of approval may be required upon well abandonment in high and medium karst potential occurrence zones.
- The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

- The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice.

- If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be

taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

The operator must contact the allotment holder prior to construction to identify the location of the pipeline. The operator must take measures to protect the pipeline from compression or other damages. If the pipeline is damaged or compromised in any way near the proposed project as a result of oil and gas activity, the operator is responsible for repairing the pipeline immediately. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

During construction, the proponent shall minimize disturbance to existing fences, water lines, troughs, windmills, and other improvements on public lands. The proponent is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the grazing permittee/allottee prior to disturbing any range improvement projects. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

In May 2008, the Pecos District Special Status Species Resource Management Plan Amendment (RMPA) was approved and is being implemented. In addition to the standard practices that minimize impacts, as listed above, the following COA will apply:

- Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all power line structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. The holder without liability or expense shall make such modifications and/or additions to the United States.**

Lessees must comply with the 2012 Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

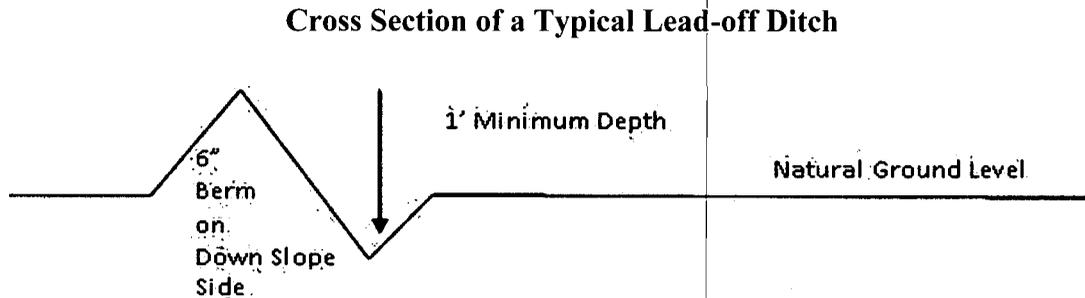
Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface

landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

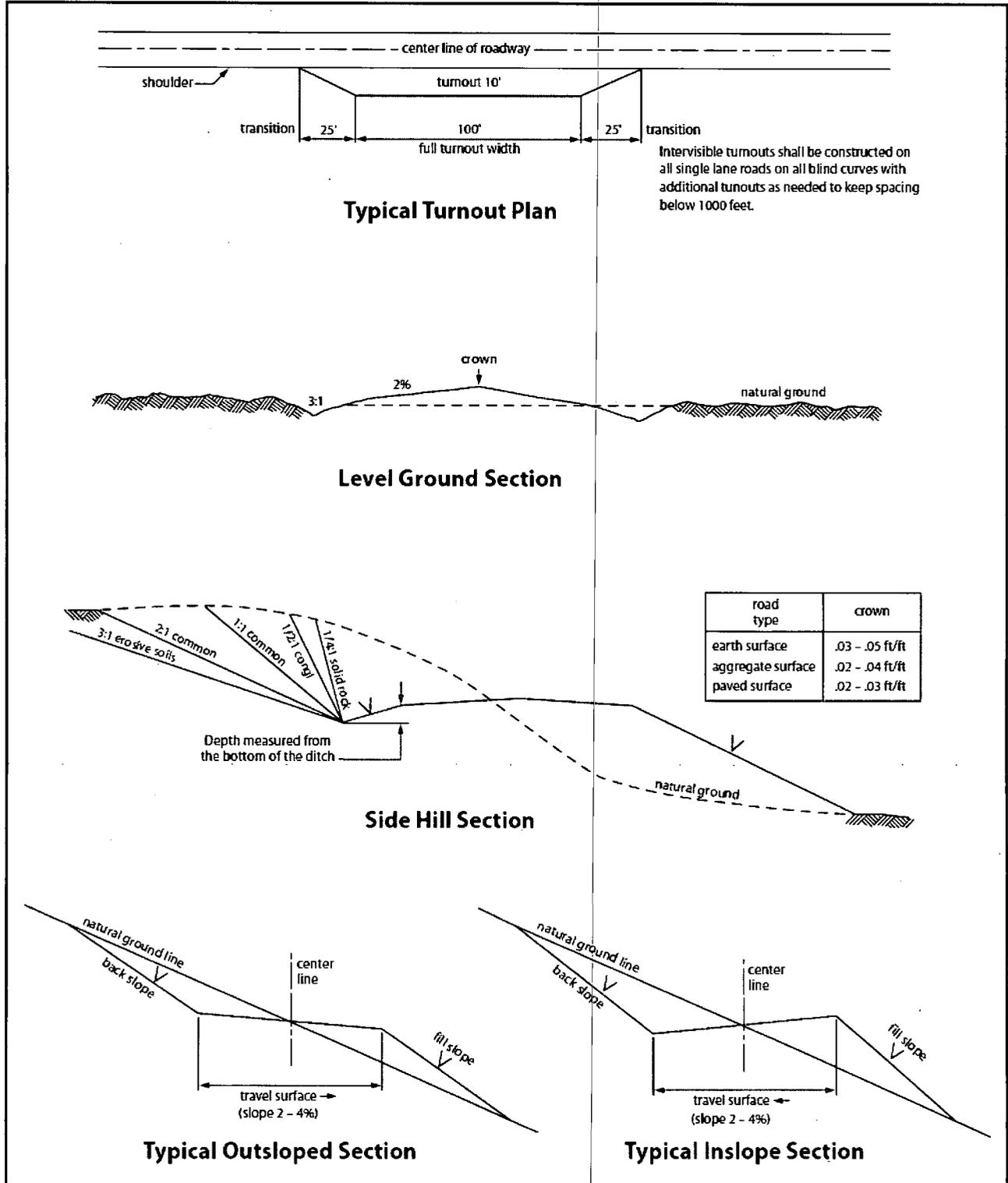


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input checked="" type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates “Standard Environmental Colors” – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder’s name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrent shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant

cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

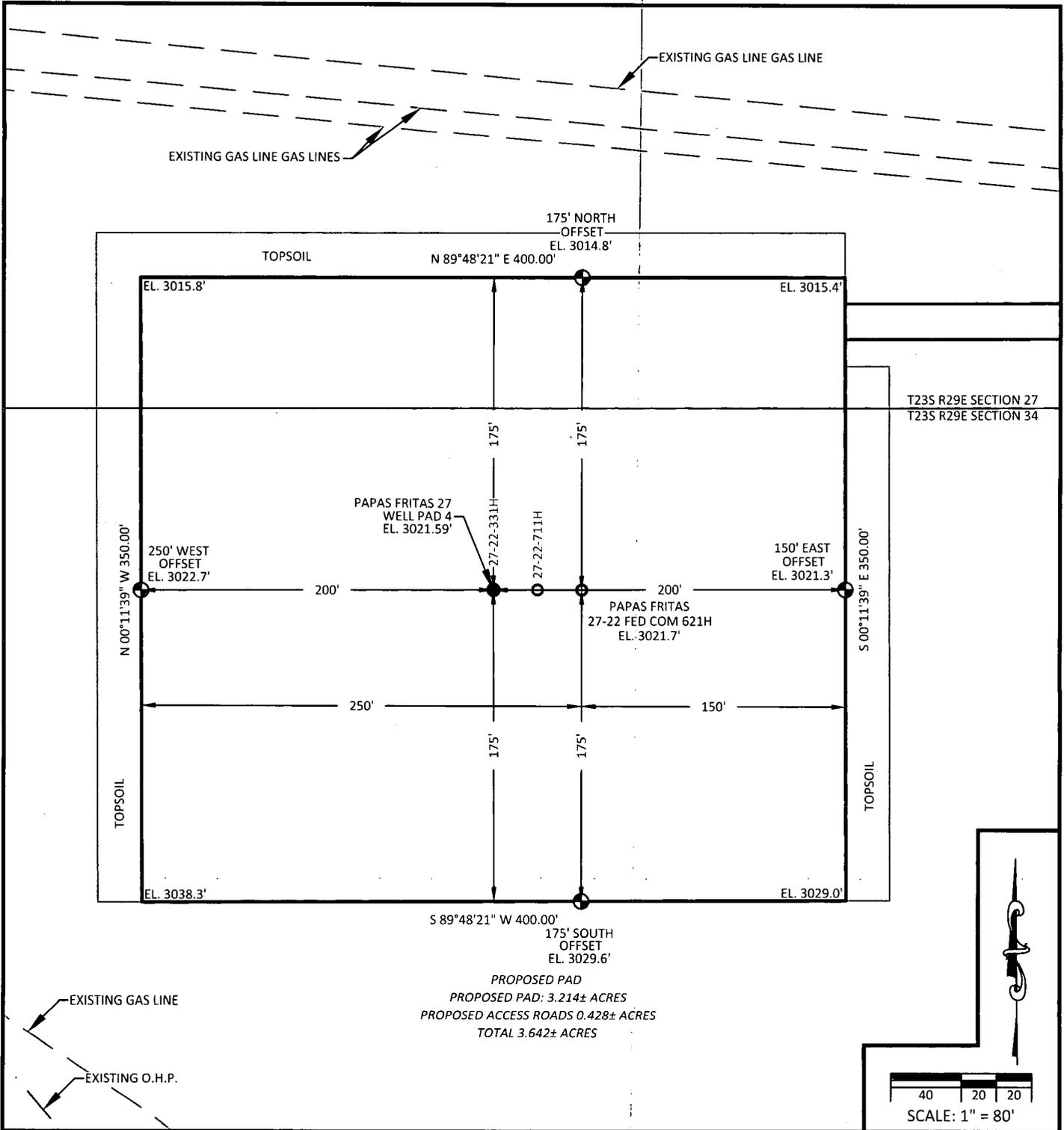
Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

| <u>Species</u> | <u>lb/acre</u> |
|--|----------------|
| Sand dropseed (Sporobolus cryptandrus) | 1.0 |
| Sand love grass (Eragrostis trichodes) | 1.0 |
| Plains bristlegrass (Setaria macrostachya) | 2.0 |

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



DIRECTIONS:

FROM THE INTERSECTION OF HIGHWAY 128 (JAL HWY) AND RAWHIDE ROAD, HEAD SOUTH ON RAWHIDE ROAD FOR 4.10 MILES. TURN RIGHT ON AN EXISTING LEASE ROAD AND HEAD WEST FOR 3.55 MILES. TURN LEFT AND HEAD SOUTH ON AN EXISTING LEASE ROAD FOR 1.18 MILE TO THE PROPOSED PAD ACCESS ROAD. TURN RIGHT AND HEAD WEST FOR 621 FEET TO THE NORTHEAST POINT OF THE PROPOSED PAPAS FRITAS 27 WELL PAD 4.

NOTES:

1. BASIS OF BEARINGS, COORDINATES AND DISTANCES ARE STATE PLANE GRID, NAD 83, NEW MEXICO EAST (3001) WITH A CONVERGENCE ANGLE OF 0.19373333° AND A COMBINED SCALE FACTOR OF 0.999779070 BASED ON CONTROL POINT HILLTOP AT N. 456034.443' E. 653560.641'.
2. UNITS REPRESENTED ON THIS PLAT ARE IN US SURVEY FEET.



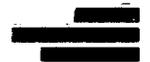
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| DRAWN BY: JSP | CHECKED BY: ARD |
| DATE: 04/29/2019 | JOB NO: 18080 |
| REVISIONS: | |

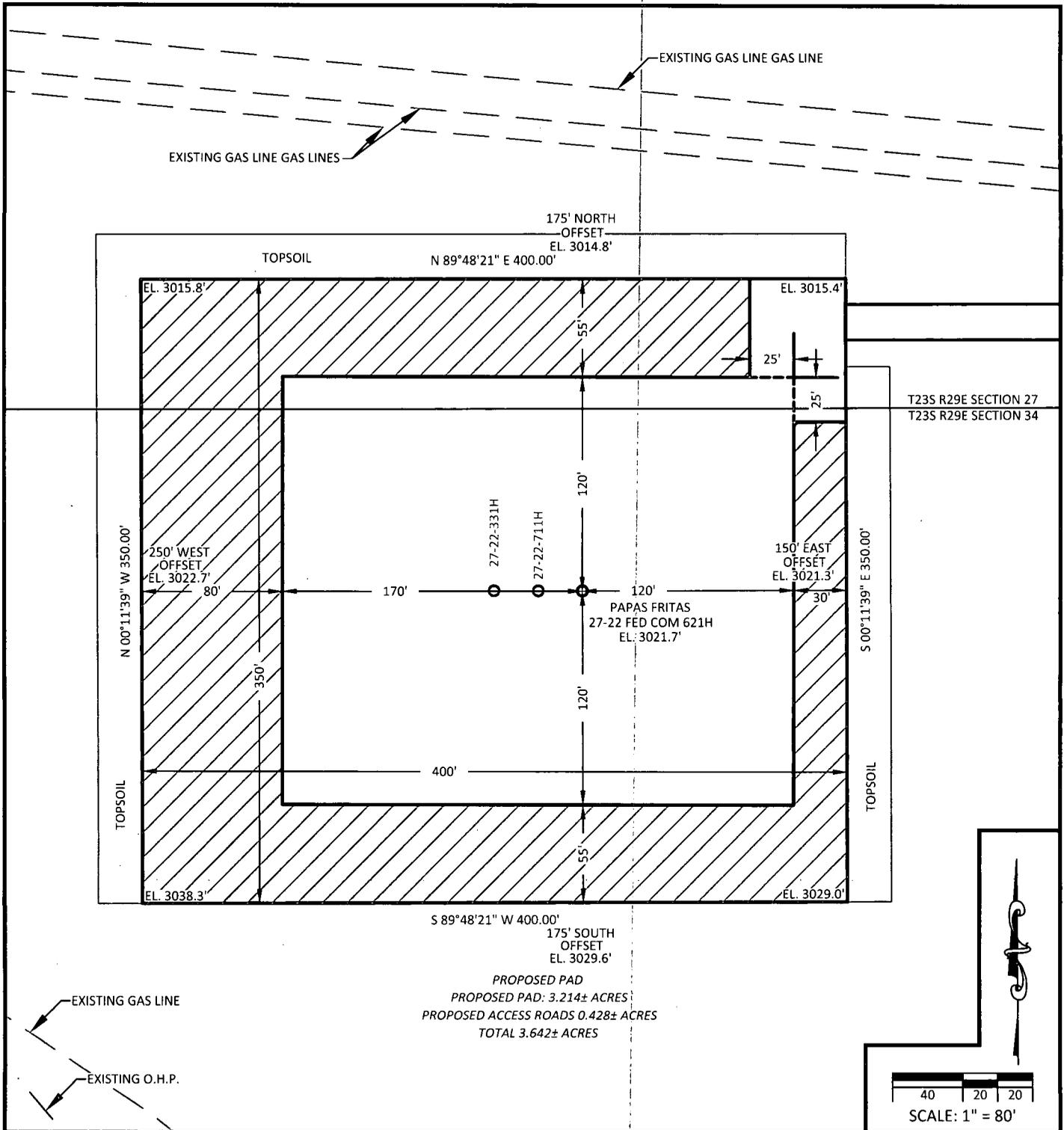
SITE MAP
DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27-22 FED COM 621H

LOCATED 102 FEET FROM THE NORTH LINE,
 AND 993 FEET FROM THE WEST LINE,
 SECTION 34, TOWNSHIP 23 SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



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DENOTES INTERIM PAD RECLAMATION AREA

1.530 ± ACRES INTERIM PAD RECLAMATION AREA
1.684 ± ACRES NON-RECLAIMED AREA
3.214 ± ACRES GRADING SITE RECLAMATION AREA

NOTES:

1. BASIS OF BEARINGS, COORDINATES AND DISTANCES ARE STATE PLANE GRID, NAD 83, NEW MEXICO EAST (3001) WITH A CONVERGENCE ANGLE OF 0.19373333° AND A COMBINED SCALE FACTOR OF 0.999779070 BASED ON CONTROL POINT HILLTOP AT N. 456034.443' E. 653560.641'.
2. UNITS REPRESENTED ON THIS PLAT ARE IN US SURVEY FEET.



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DRAWN BY: JSP CHECKED BY: ARD

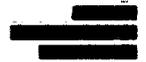
DATE: 04/29/2019 JOB NO: 18080

REVISIONS:

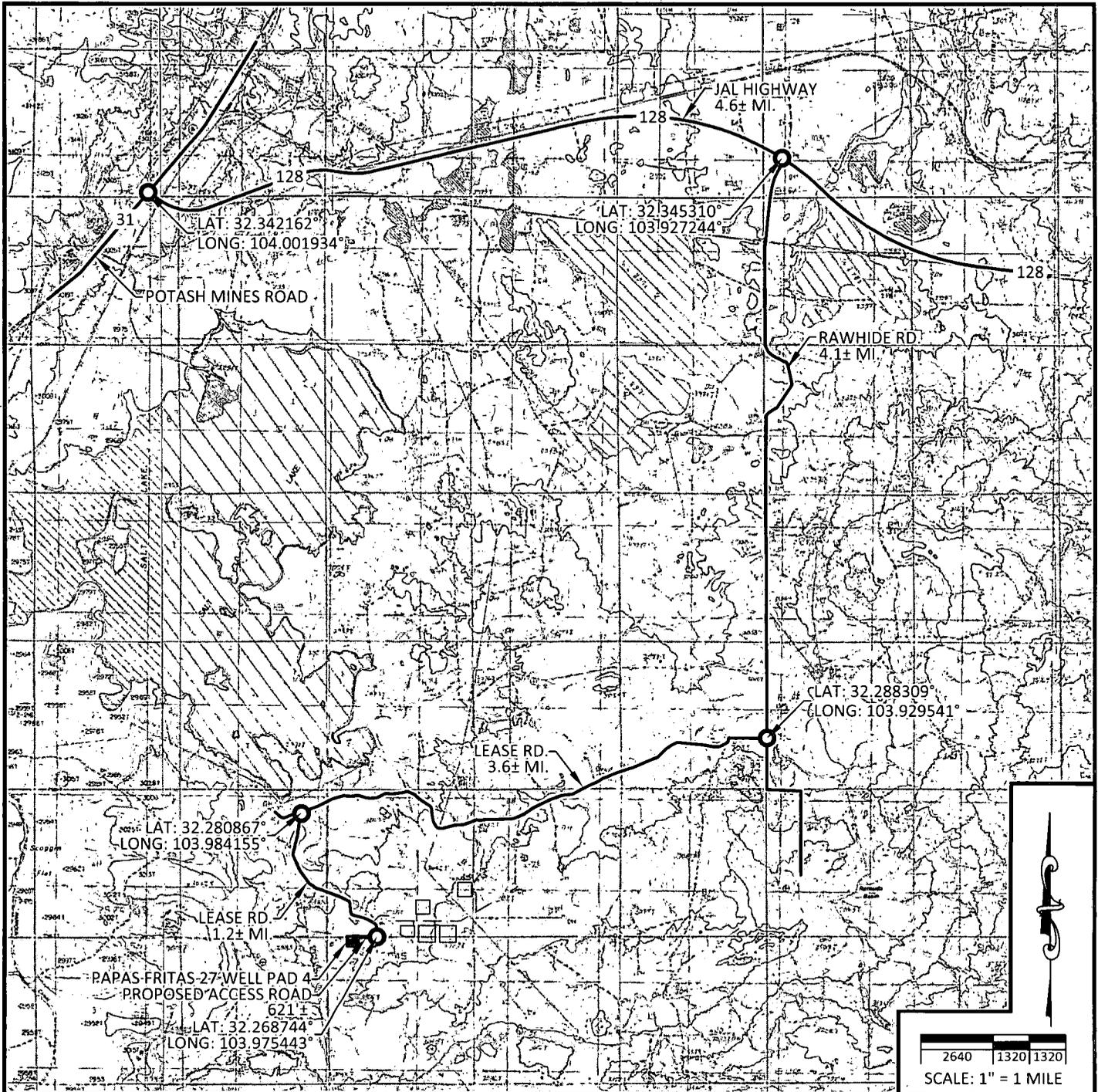
**INTERIM SITE BUILD PLAN
DEVON ENERGY PRODUCTION, L.P.**

PAPAS FRITAS 27-22 FED COM 621H

LOCATED 102 FEET FROM THE NORTH LINE,
AND 993 FEET FROM THE WEST LINE,
SECTION 34, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



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NOTES:

1. BASIS OF BEARINGS, COORDINATES AND DISTANCES ARE STATE PLANE GRID, NAD 83, NEW MEXICO EAST (3001) WITH A CONVERGENCE ANGLE OF 0.19373333° AND A COMBINED SCALE FACTOR OF 0.999779070 BASED ON CONTROL POINT HILLTOP AT N. 456034.443' E. 653560.641'.
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DIRECTIONS TO LOCATION

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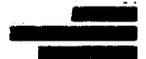


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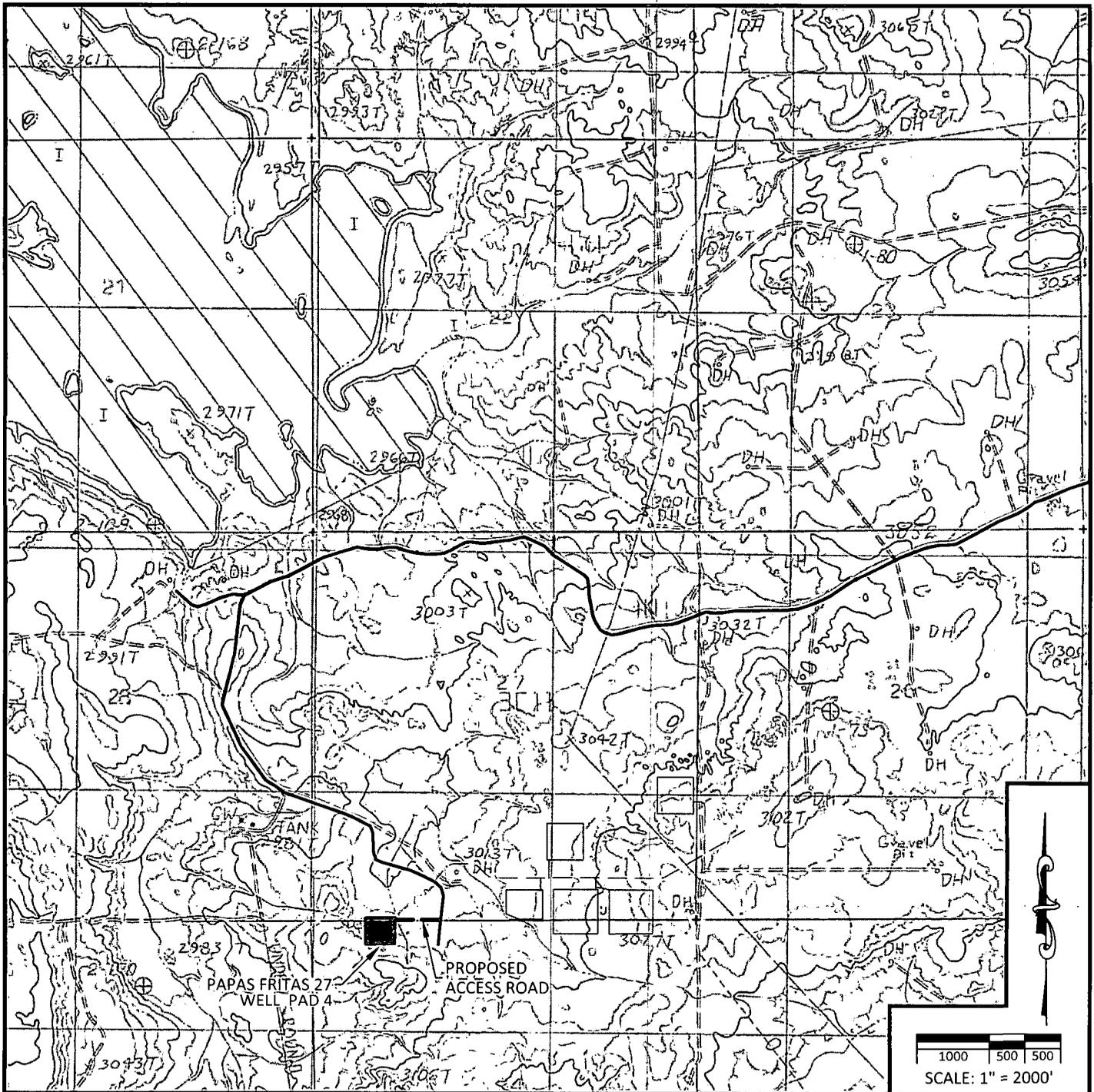
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| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 03/05/2019 | JOB NO: 18080 |
| REVISIONS: | |

VICINITY MAP
DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27-22 FED COM 621H
 LOCATED 102 FEET FROM THE NORTH LINE,
 AND 943 FEET FROM THE WEST LINE,
 SECTION 34, TOWNSHIP 23 SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



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NOTES:

1. BASIS OF BEARINGS, COORDINATES AND DISTANCES ARE STATE PLANE GRID, NAD 83, NEW MEXICO EAST (3001) WITH A CONVERGENCE ANGLE OF 0.19373333° AND A COMBINED SCALE FACTOR OF 0.999779070 BASED ON CONTROL POINT HILLTOP AT N. 456034.443' E. 653560.641'.
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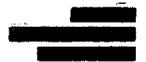


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| DATE: 03/05/2019 | JOB NO: 18080 |
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**LOCATION VERIFICATION MAP
 DEVON ENERGY PRODUCTION, L.P.**

PAPAS FRITAS 27-22 FED COM 621H
 LOCATED 102 FEET FROM THE NORTH LINE,
 AND 943 FEET FROM THE WEST LINE,
 SECTION 34, TOWNSHIP 23 SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



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NOTES:

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| DATE: 03/05/2019 | JOB NO: 18080 |
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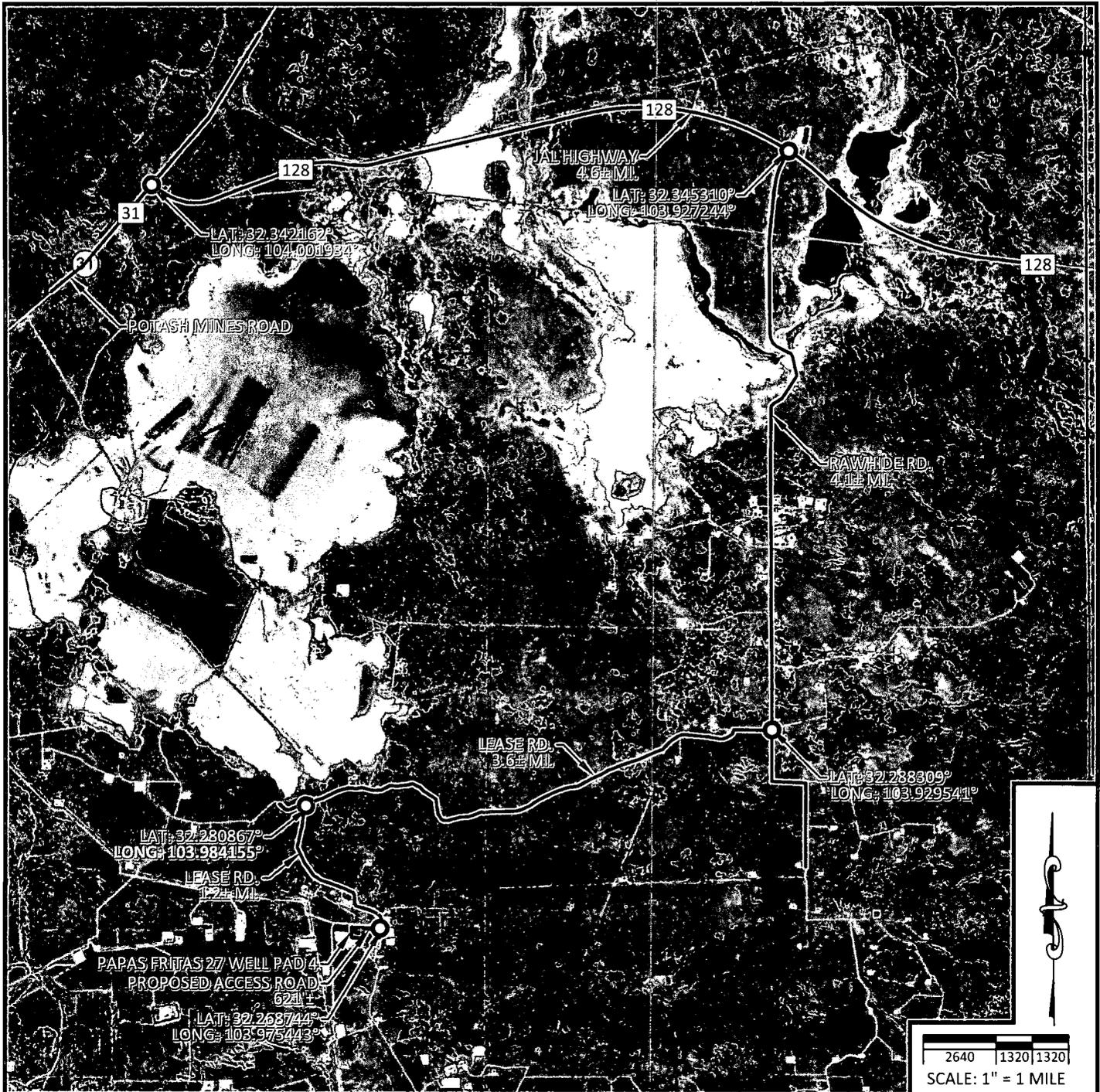
**AERIAL PHOTO
 DEVON ENERGY PRODUCTION, L.P.**

PAPAS FRITAS 27-22 FED COM 621H

LOCATED 102 FEET FROM THE NORTH LINE,
 AND 943 FEET FROM THE WEST LINE,
 SECTION 34, TOWNSHIP 23'SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



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NOTES:

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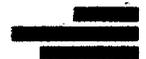


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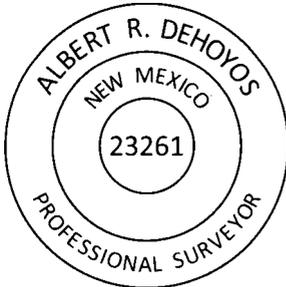
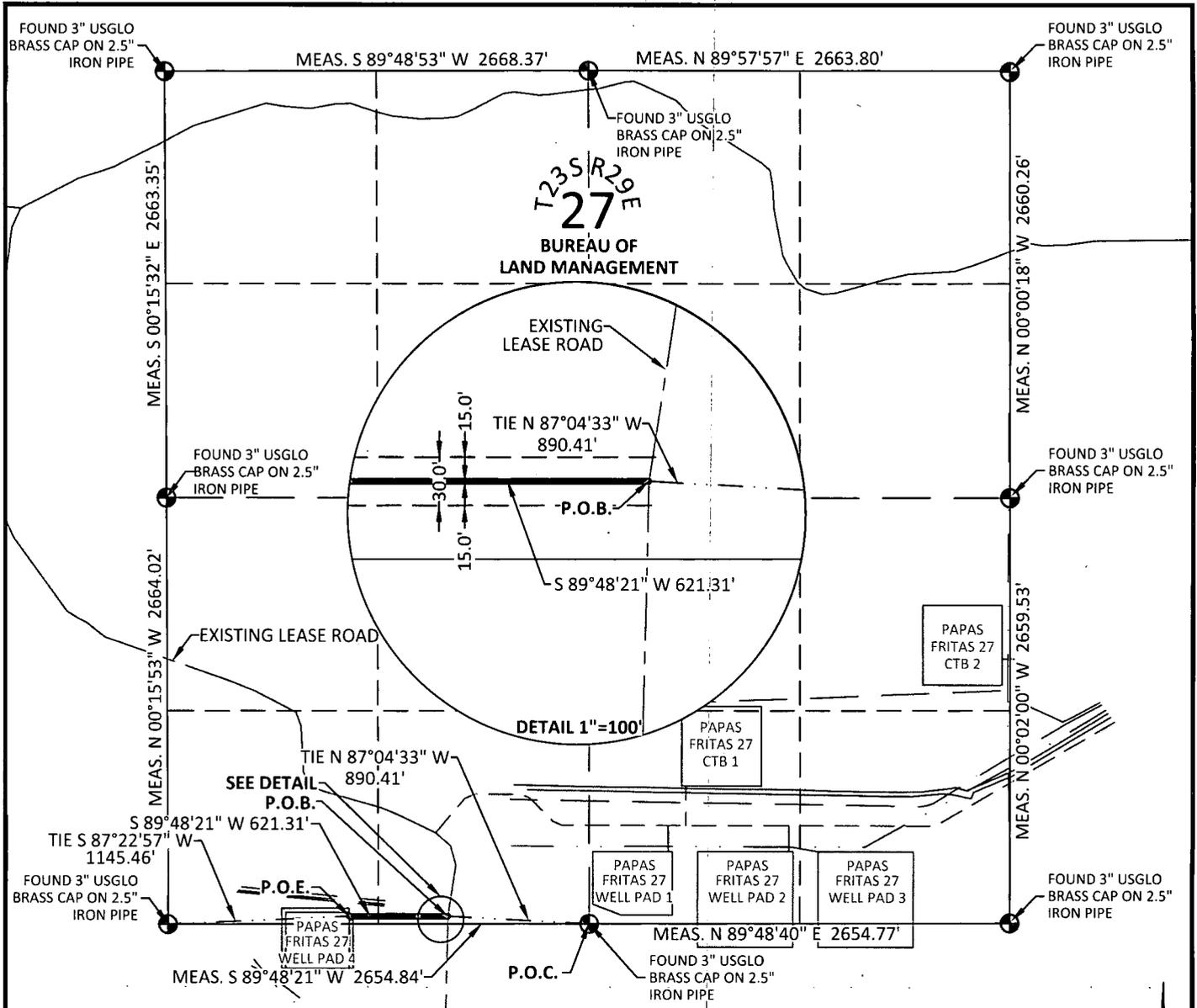
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| DATE: 03/05/2019 | JOB NO: 18080 |
| REVISIONS: | |

**AERIAL ACCESS ROUTE MAP
 DEVON ENERGY PRODUCTION, L.P.**

PAPAS FRITAS 27-22 FED COM 621H
 LOCATED 102 FEET FROM THE NORTH LINE,
 AND 943 FEET FROM THE WEST LINE,
 SECTION 34, TOWNSHIP 23'SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



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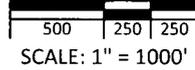
I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS EASEMENT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. IF ANY ALTERATIONS ARE MADE (HAND DRAWN, HANDWRITTEN OR DIGITAL ADDITIONS), THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

Albert R. Dehoyos
 04/29/2019
 ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE

**30' EASEMENT AREA = 0.428 ACRES
 621.31 FEET OR 37.66 RODS**

**0+00.00 P.O.B. - EXISTING LEASE ROAD
 6+21.31 P.O.E. - PAPAS FRITAS 27 WELL PAD 4**

P.O.C. = POINT OF COMMENCEMENT
 P.O.B. = POINT OF BEGINNING
 P.O.E. = POINT OF ENDING



NOTES:

1. BEARINGS SHOWN ARE GRID BASED ON THE NEW MEXICO STATE PLANE EAST ZONE COORDINATE SYSTEM (3001), NAD 83 (2011), BASED FROM GPS OBSERVATIONS, OCCUPYING A WHS CONTROL POINT (5/8" REBAR), LOCATED AT NORTH: 456034.443, EAST: 653560.641, ELEVATION: 3101.373, DETERMINED BY AN OPUS SOLUTION ON DECEMBER 3RD, 2018.
2. DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCE IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000220979

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| DATE: 04/29/2019 | JOB NO: 18080 |
| REVISIONS: | |

DEVON ENERGY PRODUCTION, L.P.
 PAPAS FRITAS 27 WELL PAD 4
 ACCESS ROAD

PROPOSED 30' EASEMENT ON THE PROPERTY OF
 BUREAU OF LAND MANAGEMENT
 S1/2 SW1/4 SECTION 27,
 TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

PROPOSED 30' ACCESS ROAD EASEMENT:

A strip of land located in the South Half (S1/2) of the Southwest Quarter (SW1/4) of Section 27, Township 23 South, Range 29 East, of the New Mexico Principal Meridian, Eddy county, State of New Mexico, being thirty feet (30') in width, lying fifteen feet (15') on each side of the following described centerline:

Commencing at the South Quarter Corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe); thence, North 87°04'33" West a distance of 890.41 feet to the POINT OF BEGINNING.

thence, South 89°48'21" West a distance of 621.31 feet to a point within the Southwest Quarter (SW1/4) of the Southwest Quarter (SW1/4) of said Section 27, also being the POINT OF ENDING, from which the Southwest Corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe) bears South 87°22'57" West a distance of 1145.46 feet.

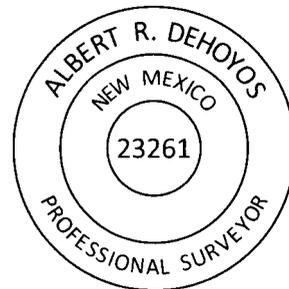
Said centerline being 621.31 feet or 37.66 rods in length and containing 0.428 Acres more or less.

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS EASEMENT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. IF ANY ALTERATIONS ARE MADE (HAND DRAWN, HANDWRITTEN OR DIGITAL ADDITIONS), THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

Albert R. Dehoyos

04/29/2019

ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE



NOTES:

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2. DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCE IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000220979

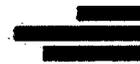


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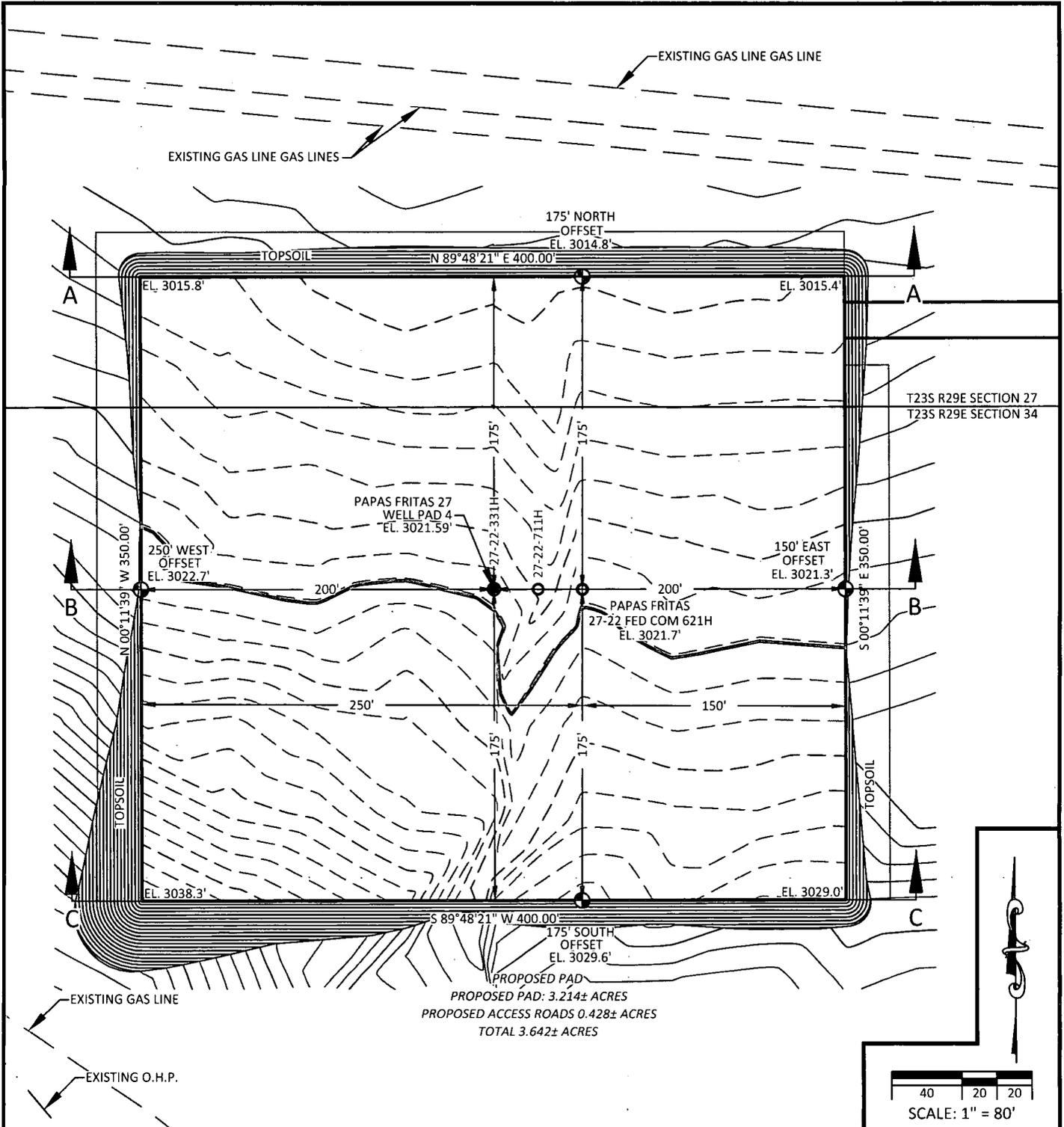
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| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 04/29/2019 | JOB NO: 18080 |
| REVISIONS: | |

DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 WELL PAD 4
ACCESS ROAD

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
S1/2 SW1/4, SECTION 27,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



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PROPOSED PAD: 3.214± ACRES
 PROPOSED ACCESS ROADS 0.428± ACRES
 TOTAL 3.642± ACRES

**EARTHWORK QUANTITIES FOR
 PAPAS FRITAS 27 WELL PAD 2**

| CUT | FILL | NET |
|-----------------|-----------------|------------|
| 12,260 CU. YDS. | 12,260 CU. YDS. | 0 CU. YDS. |

EARTHWORK QUANTITIES ARE ESTIMATED

NOTES:

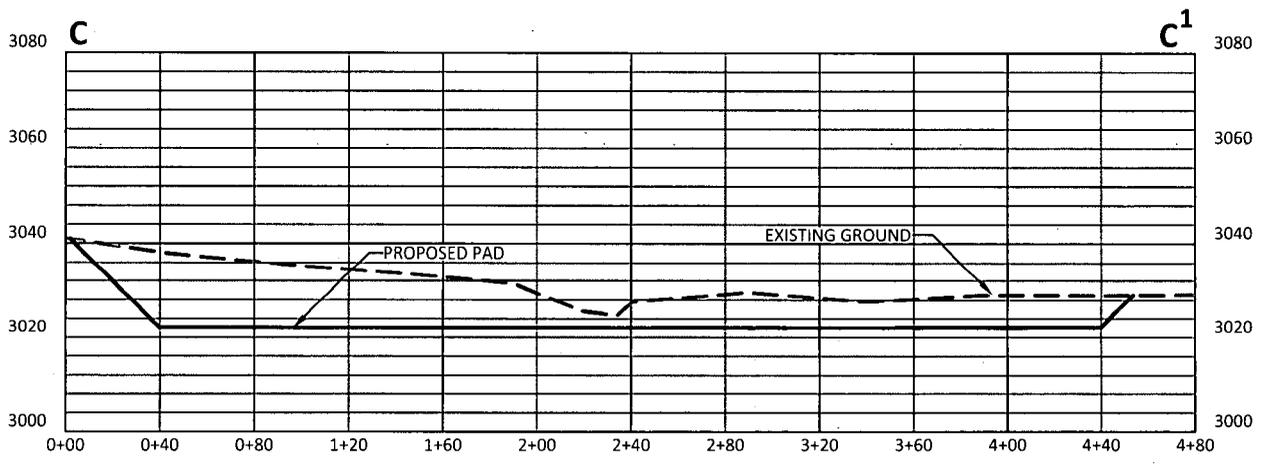
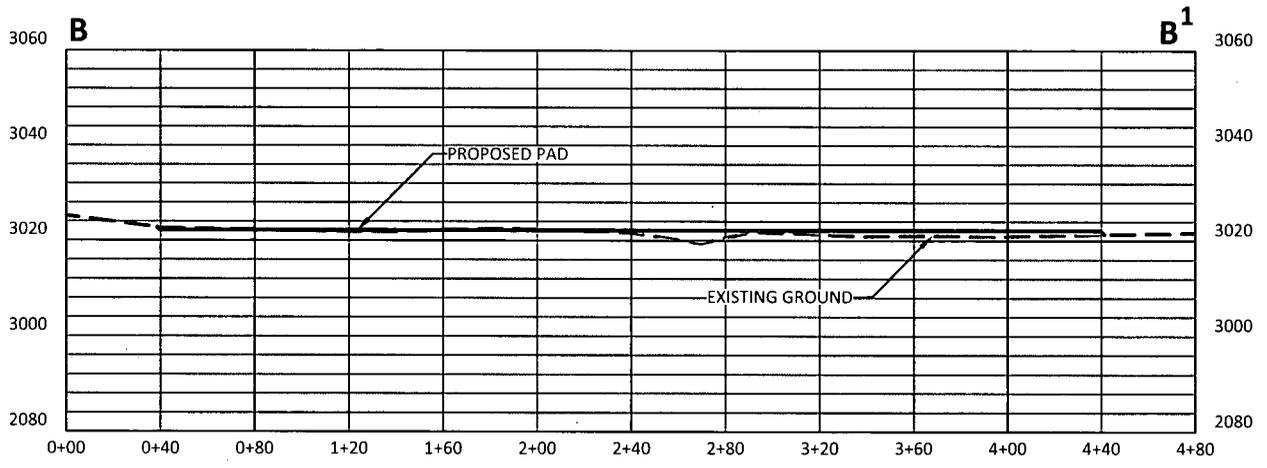
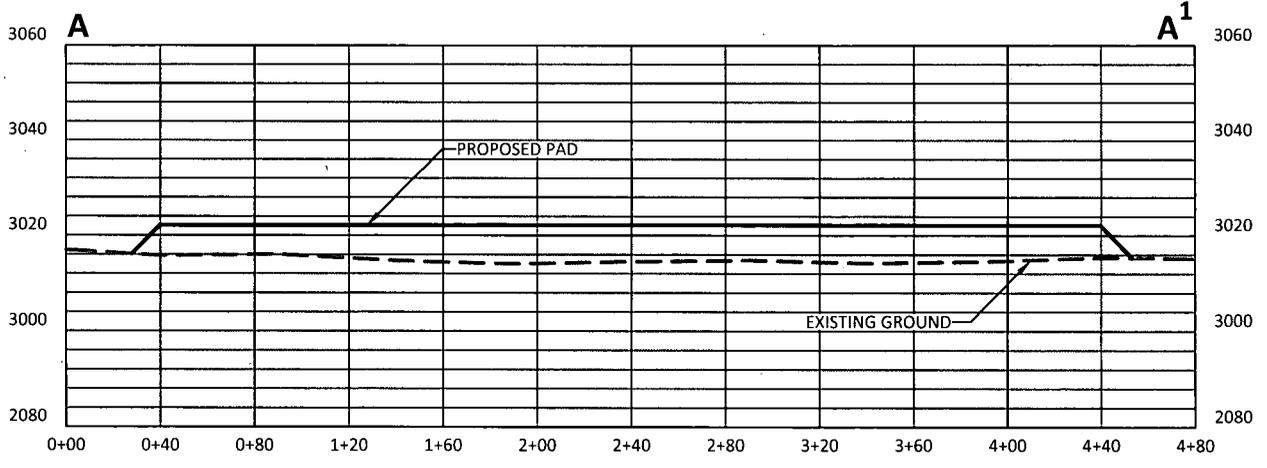
1. BASIS OF BEARINGS, COORDINATES AND DISTANCES ARE STATE PLANE GRID, NAD 83, NEW MEXICO EAST (3001) WITH A CONVERGENCE ANGLE OF 0.19373333° AND A COMBINED SCALE FACTOR OF 0.999779070 BASED ON CONTROL POINT HILLTOP AT N. 456034.443' E. 653560.641'.
2. UNITS REPRESENTED ON THIS PLAT ARE IN US SURVEY FEET.

WHS
 ENGINEERING > SURVEYING > PLANNING
 1515 9TH STREET, STE A, ROCK SPRINGS, WY 82901;
 307.362.6065 | 866.938.3088 | www.whsmithpc.com

| | |
|------------------|-----------------|
| DRAWN BY: JSP | CHECKED BY: ARD |
| DATE: 04/29/2019 | JOB NO: 18080 |
| REVISIONS: | |

PLAN VIEW
DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27-22 FED COM 621H
 LOCATED 102 FEET FROM THE NORTH LINE,
 AND 993 FEET FROM THE WEST LINE,
 SECTION 34, TOWNSHIP 23 SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

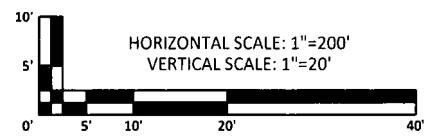




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PAPAS FRITAS 27 WELL PAD 2**

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EARTHWORK QUANTITIES ARE ESTIMATED



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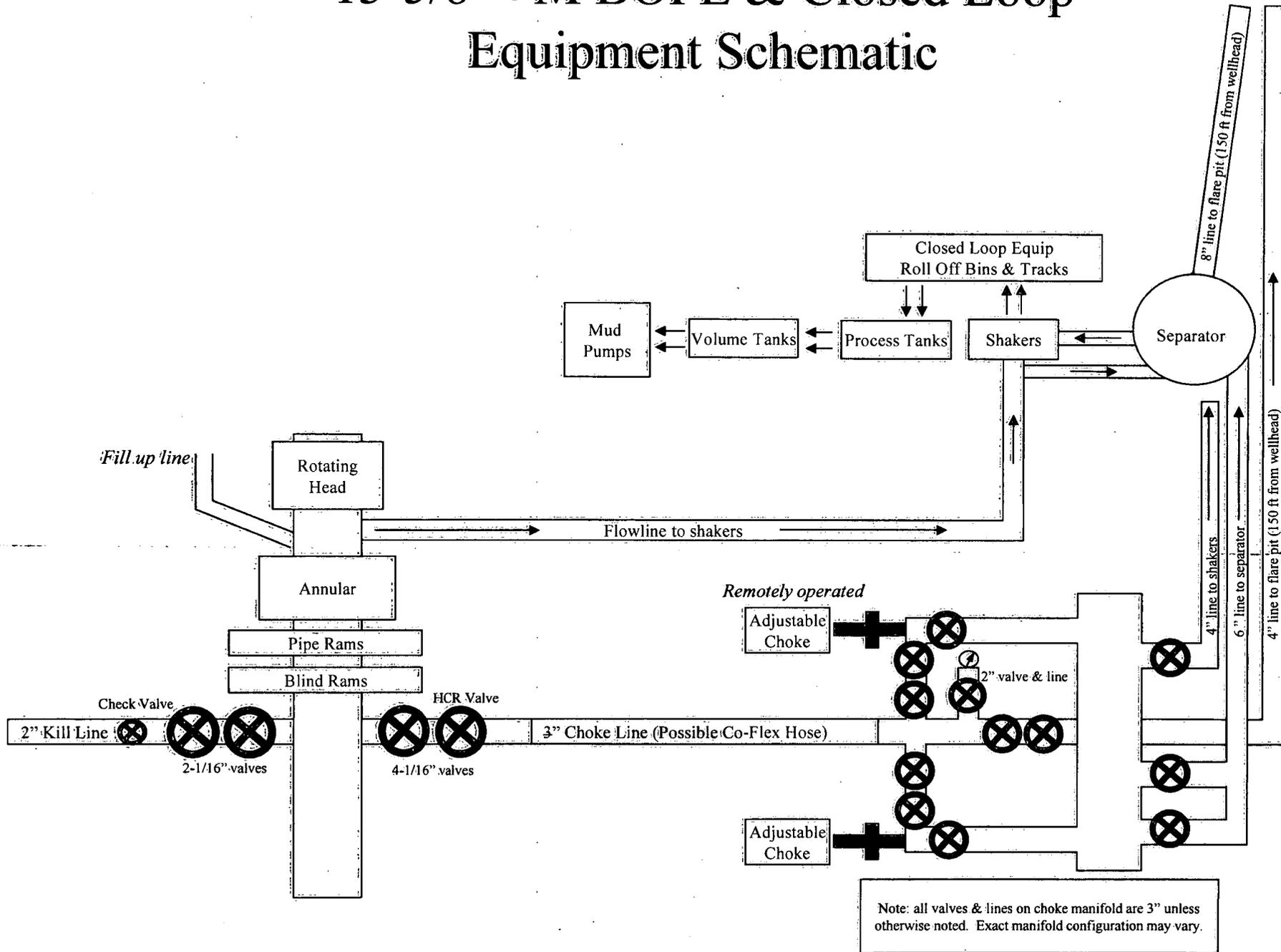
DRAWN BY: JSP CHECKED BY: ARD
DATE: 04/29/2019 JOB NO: 18080
REVISIONS:

**CROSS SECTIONS
DEVON ENERGY PRODUCTION, L.P.**

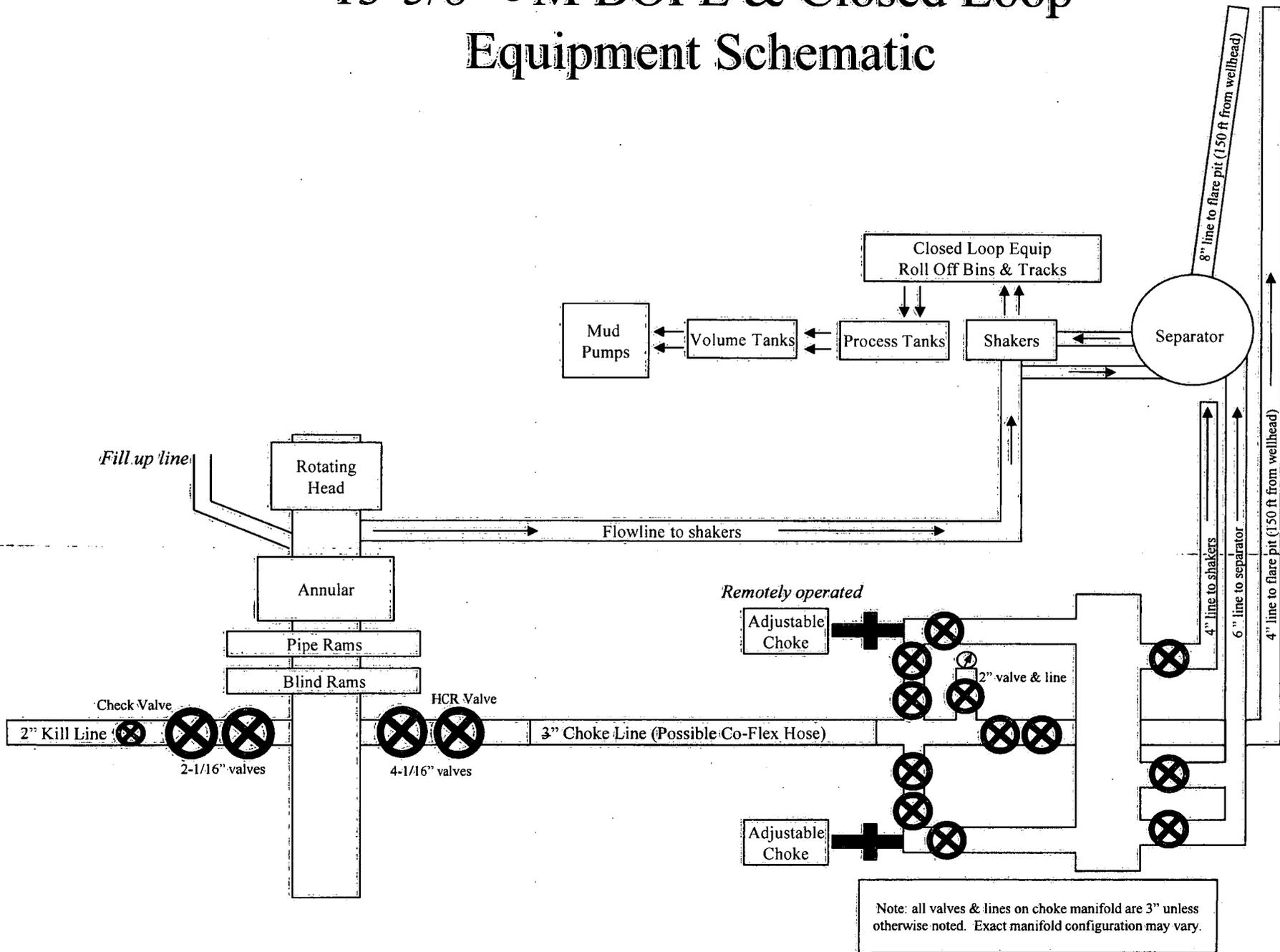
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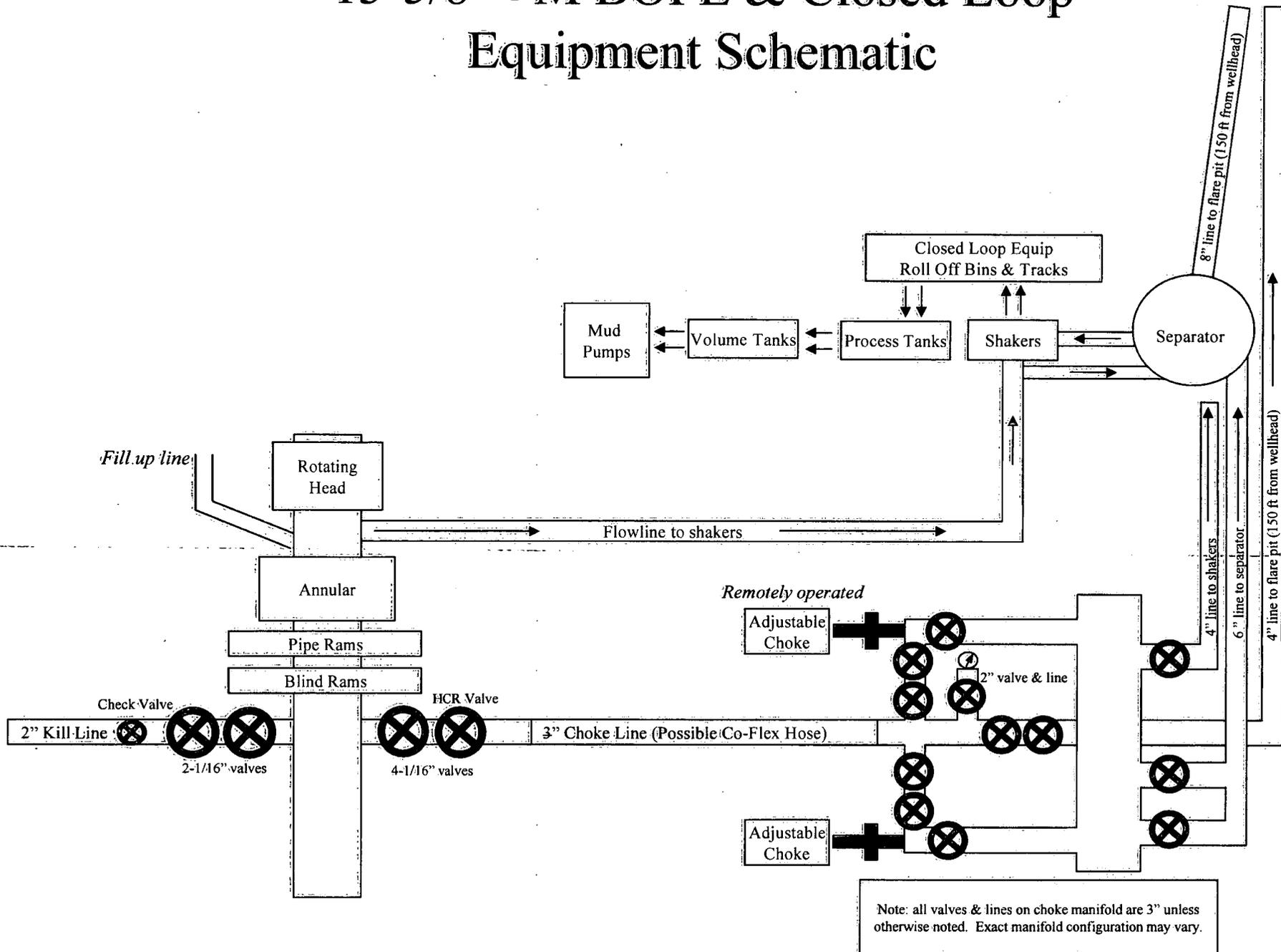
13-5/8" 5M BOPE & Closed Loop Equipment Schematic



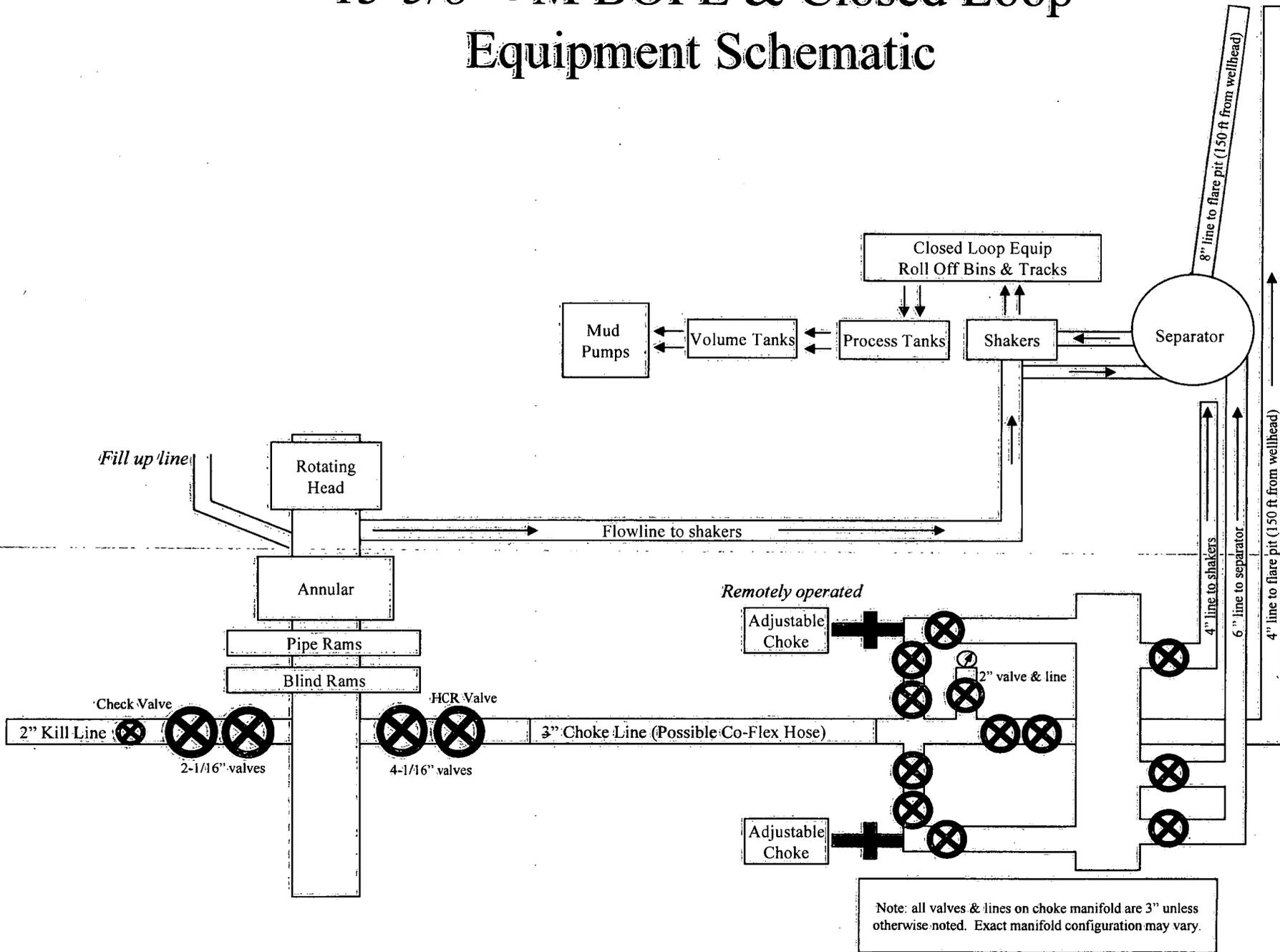
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13-5/8" 5M BOPE & Closed Loop Equipment Schematic



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



Casing Assumptions and Load Cases

Surface

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

| Surface Casing Burst Design | | |
|------------------------------------|--------------------------|---|
| Load Case | External Pressure | Internal Pressure |
| Pressure Test | Formation Pore Pressure | Max mud weight of next hole-section plus Test psi |
| Drill Ahead | Formation Pore Pressure | Max mud weight of next hole section |
| Displace to Gas | Formation Pore Pressure | Dry gas from next casing point |

| Surface Casing Collapse Design | | |
|---------------------------------------|---|--------------------------|
| Load Case | External Pressure | Internal Pressure |
| Full Evacuation | Water gradient in cement, mud above TOC | None |
| Cementing | Wet cement weight | Water (8.33ppg) |

| Surface Casing Tension Design | |
|--------------------------------------|--------------------|
| Load Case | Assumptions |
| Overpull | 100kips |
| Runing in hole | 3 ft/s |
| Service Loads | N/A |

Casing Assumptions and Load Cases

Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

| Intermediate Casing Burst Design | | |
|---|--------------------------|---|
| Load Case | External Pressure | Internal Pressure |
| Pressure Test | Formation Pore Pressure | Max mud weight of next hole-section plus Test psi |
| Drill Ahead | Formation Pore Pressure | Max mud weight of next hole section |
| Fracture @ Shoe | Formation Pore Pressure | Dry gas |

| Intermediate Casing Collapse Design | | |
|--|---|--------------------------|
| Load Case | External Pressure | Internal Pressure |
| Full Evacuation | Water gradient in cement, mud above TOC | None |
| Cementing | Wet cement weight | Water (8.33ppg) |

| Intermediate Casing Tension Design | |
|---|--------------------|
| Load Case | Assumptions |
| Overpull | 100kips |
| Runing in hole | 2 ft/s |
| Service Loads | N/A |

Casing Assumptions and Load Cases

Production

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

| Production Casing Burst Design | | |
|--------------------------------|-------------------------|---|
| Load Case | External Pressure | Internal Pressure |
| Pressure Test | Formation Pore Pressure | Fluid in hole (water or produced water) + test psi |
| Tubing Leak | Formation Pore Pressure | Packer @ KOP, leak below surface 8.6 ppg packer fluid |
| Stimulation | Formation Pore Pressure | Max frac pressure with heaviest frac fluid |

| Production Casing Collapse Design | | |
|-----------------------------------|--|-------------------|
| Load Case | External Pressure | Internal Pressure |
| Full Evacuation | Water gradient in cement, mud above TOC. | None |
| Cementing | Wet cement weight | Water (8.33ppg) |

| Production Casing Tension Design | |
|----------------------------------|-------------|
| Load Case | Assumptions |
| Overpull | 100kips |
| Runing in hole | 2 ft/s |
| Service Loads | N/A |



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

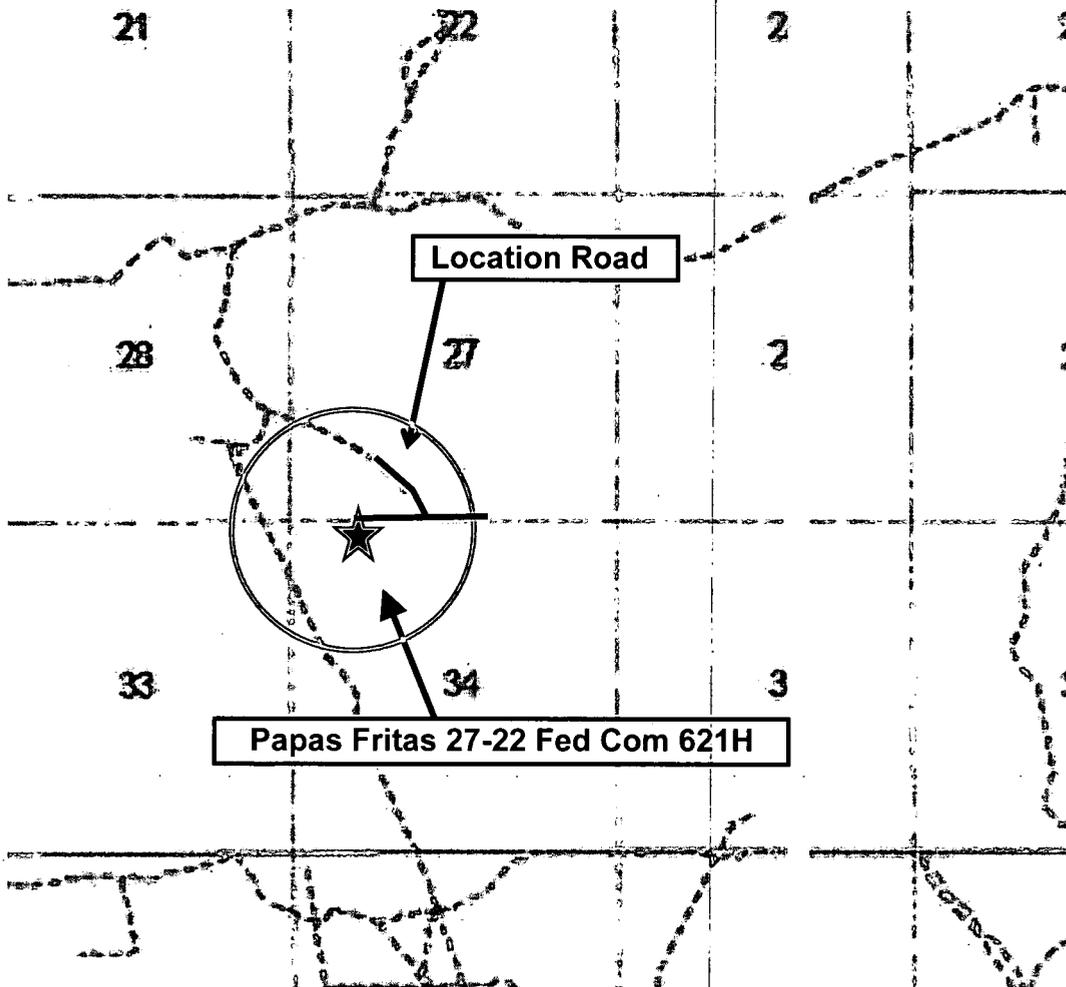
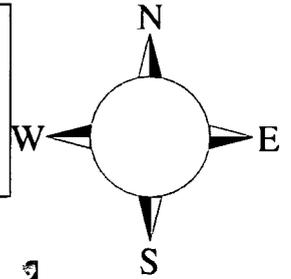
Papas Fritas 27-22 Fed Com 621H

**Sec-34 T-23S R-29E
102' FNL & 993' FWL
LAT. = 32.268311' N (NAD83)
LONG = 103.977975' W**

Eddy County NM

Papas Fritas 27-22 Fed Com 621H

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

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:

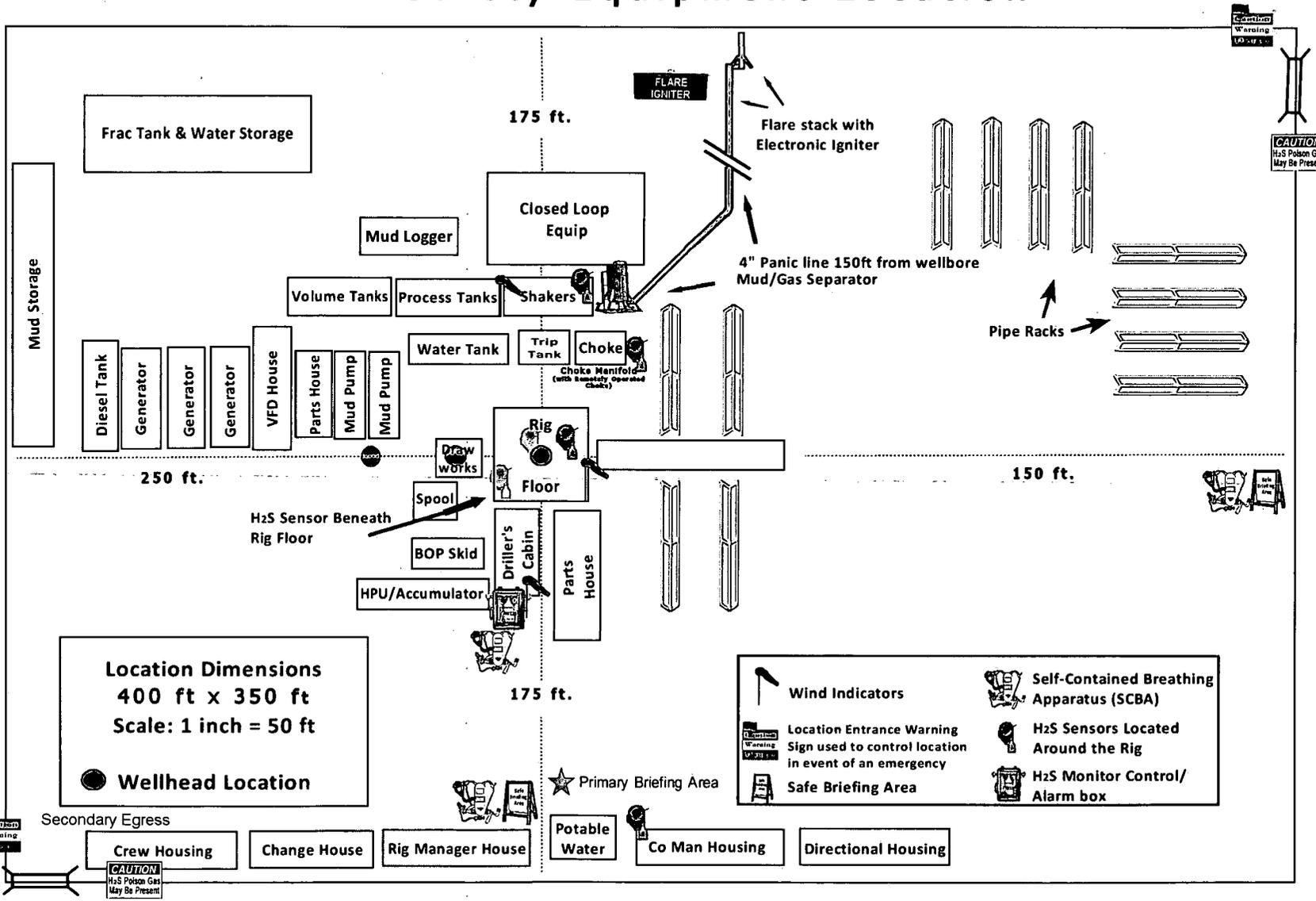
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing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

| <u>Devon Energy Corp. Company Call List</u> | | |
|--|---|-------------------------------|
| Drilling Supervisor – Basin – Mark Kramer | | 405-823-4796 |
| EHS Professional – Laura Wright | | 405-439-8129 |
| <u>Agency Call List</u> | | |
| <u>Lea County (575)</u> | 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 |
| <u>Eddy County (575)</u> | 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 |
| <u>Give GPS position:</u> | Native Air – Emergency Helicopter – Hobbs (TX & NM) | (800) 642-7828 |
| | Flight For Life - Lubbock, TX | (806) 743-9911 |
| | Aerocare - Lubbock, TX | (806) 747-8923 |
| | Med Flight Air Amb - Albuquerque, NM | (575) 842-4433 |
| | Lifeguard Air Med Svc. Albuquerque, NM | (800) 222-1222 |
| | Poison Control (24/7) | (575) 272-3115 |
| | Oil & Gas Pipeline 24 Hour Service | (800) 364-4366 |
| | NOAA – Website - www.nhc.noaa.gov | |

Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 27-T23S-R29E

Papas Fritas 27-22 Fed Com 621H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

03 June, 2019

Planning Report - Geographic

| | | | |
|------------------|---------------------------------|------------------------------------|--------------------------------------|
| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference | Well Papas Fritas 27-22 Fed Com 621H |
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3046.70ft |
| Project: | Eddy County (NAD 83 NM Eastern) | MD Reference: | RKB @ 3046.70ft |
| Site: | Sec 27-T23S-R29E | North Reference: | Grid |
| Well: | Papas Fritas 27-22 Fed Com 621H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| | | | |
|--------------------|---------------------------------|----------------------|----------------|
| 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 27-T23S-R29E | | |
| Site Position: | Northing: | 466,951.23 usft | Latitude: 32.283232 |
| From: Map | Easting: | 650,153.88 usft | Longitude: -103.981214 |
| Position Uncertainty: 0.00 ft | Slot Radius: 13-3/16 " | | Grid Convergence: 0.19 ° |

| | | | |
|-------------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Well | Papas Fritas 27-22 Fed Com 621H | | |
| Well Position | +N/-S 0.00 ft | Northing: 461,526.49 usft | Latitude: 32.268311 |
| | +E/-W 0.00 ft | Easting: 651,172.73 usft | Longitude: -103.977975 |
| Position Uncertainty 0.50 ft | Wellhead Elevation: | | Ground Level: 3,021.70 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 5/29/2019 | 6.94 | 60.01 | 47,724.15583977 |

| | | | |
|--------------------------|------------------------------|----------------------|--|
| Design | Permit Plan 1 | | |
| Audit Notes: | | | |
| Version: | Phase: PROTOTYPE | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) Direction (°) |
| | 0.00 | 0.00 | 0.00 1.19 |

| | | | | |
|---------------------------------|----------------------|--------------------------|--|----------------|
| Plan Survey Tool Program | Date 6/3/2019 | | | |
| Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.00 | 20,451.53 | Permit Plan 1 (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 | |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,454.90 | 2.55 | 59.78 | 2,454.82 | 2.85 | 4.90 | 1.00 | 1.00 | 0.00 | 59.78 | |
| 9,033.72 | 2.55 | 59.78 | 9,027.12 | 150.10 | 257.73 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 9,203.65 | 0.00 | 0.00 | 9,197.00 | 152.00 | 261.00 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 9,553.69 | 0.00 | 0.00 | 9,547.04 | 152.00 | 261.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,453.69 | 90.00 | 359.79 | 10,120.00 | 724.96 | 258.91 | 10.00 | 10.00 | 0.00 | 359.79 | PBHL - Papas Fritas ; |
| 20,451.53 | 90.00 | 359.79 | 10,120.00 | 10,722.73 | 222.51 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL - Papas Fritas ; |

Planning Report - Geographic

| | | | |
|------------------|---------------------------------|------------------------------------|--------------------------------------|
| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference | Well Papas Fritas 27-22 Fed Com 621H |
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3046.70ft. |
| Project: | Eddy County (NAD 83 NM Eastern) | MD Reference: | RKB @ 3046.70ft |
| Site: | Sec 27-T23S-R29E | North Reference: | Grid |
| Well: | Papas Fritas 27-22 Fed Com 621H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| 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 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 461,526.49 | 651,172.73 | 32.268311 | -103.977975 | |
| 2,300.00 | 1.00 | 59.78 | 2,299.99 | 0.44 | 0.75 | 461,526.93 | 651,173.49 | 32.268312 | -103.977973 | |
| 2,400.00 | 2.00 | 59.78 | 2,399.96 | 1.76 | 3.02 | 461,528.25 | 651,175.75 | 32.268316 | -103.977965 | |
| 2,454.90 | 2.55 | 59.78 | 2,454.82 | 2.85 | 4.90 | 461,529.34 | 651,177.63 | 32.268319 | -103.977959 | |
| 2,500.00 | 2.55 | 59.78 | 2,499.87 | 3.86 | 6.63 | 461,530.35 | 651,179.37 | 32.268322 | -103.977954 | |
| 2,600.00 | 2.55 | 59.78 | 2,599.77 | 6.10 | 10.48 | 461,532.59 | 651,183.21 | 32.268328 | -103.977941 | |
| 2,700.00 | 2.55 | 59.78 | 2,699.67 | 8.34 | 14.32 | 461,534.83 | 651,187.05 | 32.268334 | -103.977929 | |
| 2,800.00 | 2.55 | 59.78 | 2,799.57 | 10.58 | 18.16 | 461,537.07 | 651,190.90 | 32.268340 | -103.977916 | |
| 2,900.00 | 2.55 | 59.78 | 2,899.48 | 12.82 | 22.00 | 461,539.31 | 651,194.74 | 32.268346 | -103.977904 | |
| 3,000.00 | 2.55 | 59.78 | 2,999.38 | 15.05 | 25.85 | 461,541.54 | 651,198.58 | 32.268352 | -103.977891 | |
| 3,100.00 | 2.55 | 59.78 | 3,099.28 | 17.29 | 29.69 | 461,543.78 | 651,202.43 | 32.268359 | -103.977879 | |
| 3,200.00 | 2.55 | 59.78 | 3,199.18 | 19.53 | 33.53 | 461,546.02 | 651,206.27 | 32.268365 | -103.977866 | |
| 3,300.00 | 2.55 | 59.78 | 3,299.08 | 21.77 | 37.38 | 461,548.26 | 651,210.11 | 32.268371 | -103.977854 | |
| 3,400.00 | 2.55 | 59.78 | 3,398.98 | 24.01 | 41.22 | 461,550.50 | 651,213.96 | 32.268377 | -103.977841 | |
| 3,500.00 | 2.55 | 59.78 | 3,498.88 | 26.24 | 45.06 | 461,552.73 | 651,217.80 | 32.268383 | -103.977829 | |
| 3,600.00 | 2.55 | 59.78 | 3,598.78 | 28.48 | 48.91 | 461,554.97 | 651,221.64 | 32.268389 | -103.977816 | |
| 3,700.00 | 2.55 | 59.78 | 3,698.68 | 30.72 | 52.75 | 461,557.21 | 651,225.48 | 32.268395 | -103.977804 | |
| 3,800.00 | 2.55 | 59.78 | 3,798.59 | 32.96 | 56.59 | 461,559.45 | 651,229.33 | 32.268401 | -103.977792 | |
| 3,900.00 | 2.55 | 59.78 | 3,898.49 | 35.20 | 60.44 | 461,561.69 | 651,233.17 | 32.268407 | -103.977779 | |
| 4,000.00 | 2.55 | 59.78 | 3,998.39 | 37.43 | 64.28 | 461,563.93 | 651,237.01 | 32.268414 | -103.977767 | |
| 4,100.00 | 2.55 | 59.78 | 4,098.29 | 39.67 | 68.12 | 461,566.16 | 651,240.86 | 32.268420 | -103.977754 | |
| 4,200.00 | 2.55 | 59.78 | 4,198.19 | 41.91 | 71.97 | 461,568.40 | 651,244.70 | 32.268426 | -103.977742 | |
| 4,300.00 | 2.55 | 59.78 | 4,298.09 | 44.15 | 75.81 | 461,570.64 | 651,248.54 | 32.268432 | -103.977729 | |
| 4,400.00 | 2.55 | 59.78 | 4,397.99 | 46.39 | 79.65 | 461,572.88 | 651,252.39 | 32.268438 | -103.977717 | |
| 4,500.00 | 2.55 | 59.78 | 4,497.89 | 48.63 | 83.50 | 461,575.12 | 651,256.23 | 32.268444 | -103.977704 | |
| 4,600.00 | 2.55 | 59.78 | 4,597.79 | 50.86 | 87.34 | 461,577.35 | 651,260.07 | 32.268450 | -103.977692 | |
| 4,700.00 | 2.55 | 59.78 | 4,697.69 | 53.10 | 91.18 | 461,579.59 | 651,263.92 | 32.268456 | -103.977679 | |
| 4,800.00 | 2.55 | 59.78 | 4,797.60 | 55.34 | 95.03 | 461,581.83 | 651,267.76 | 32.268463 | -103.977667 | |
| 4,900.00 | 2.55 | 59.78 | 4,897.50 | 57.58 | 98.87 | 461,584.07 | 651,271.60 | 32.268469 | -103.977655 | |
| 5,000.00 | 2.55 | 59.78 | 4,997.40 | 59.82 | 102.71 | 461,586.31 | 651,275.45 | 32.268475 | -103.977642 | |
| 5,100.00 | 2.55 | 59.78 | 5,097.30 | 62.05 | 106.55 | 461,588.54 | 651,279.29 | 32.268481 | -103.977630 | |
| 5,200.00 | 2.55 | 59.78 | 5,197.20 | 64.29 | 110.40 | 461,590.78 | 651,283.13 | 32.268487 | -103.977617 | |

Planning Report - Geographic

| | | | |
|------------------|---------------------------------|------------------------------------|--------------------------------------|
| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference | Well Papas Fritas 27-22 Fed Com 621H |
| Company: | WCDCS Permian NM | TVD Reference: | RKB @ 3046.70ft |
| Project: | Eddy County (NAD 83 NM Eastern) | MD Reference: | RKB @ 3046.70ft |
| Site: | Sec 27-T23S-R29E | North Reference: | Grid |
| Well: | Papas Fritas 27-22 Fed Com 621H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| Planned Survey | | | | | | | | | | |
|--|-------------|---------|----------|--------|--------|------------|------------|-----------|-------------|--|
| Measured | | | Vertical | | | Map | Map | | | |
| Depth | Inclination | Azimuth | Depth | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | |
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (usft) | (usft) | | | |
| 5,300.00 | 2.55 | 59.78 | 5,297.10 | 66.53 | 114.24 | 461,593.02 | 651,286.98 | 32.268493 | -103.977605 | |
| 5,400.00 | 2.55 | 59.78 | 5,397.00 | 68.77 | 118.08 | 461,595.26 | 651,290.82 | 32.268499 | -103.977592 | |
| 5,500.00 | 2.55 | 59.78 | 5,496.90 | 71.01 | 121.93 | 461,597.50 | 651,294.66 | 32.268505 | -103.977580 | |
| 5,600.00 | 2.55 | 59.78 | 5,596.80 | 73.25 | 125.77 | 461,599.74 | 651,298.50 | 32.268511 | -103.977567 | |
| 5,700.00 | 2.55 | 59.78 | 5,696.71 | 75.48 | 129.61 | 461,601.97 | 651,302.35 | 32.268518 | -103.977555 | |
| 5,800.00 | 2.55 | 59.78 | 5,796.61 | 77.72 | 133.46 | 461,604.21 | 651,306.19 | 32.268524 | -103.977542 | |
| 5,900.00 | 2.55 | 59.78 | 5,896.51 | 79.96 | 137.30 | 461,606.45 | 651,310.03 | 32.268530 | -103.977530 | |
| 6,000.00 | 2.55 | 59.78 | 5,996.41 | 82.20 | 141.14 | 461,608.69 | 651,313.88 | 32.268536 | -103.977517 | |
| 6,100.00 | 2.55 | 59.78 | 6,096.31 | 84.44 | 144.99 | 461,610.93 | 651,317.72 | 32.268542 | -103.977505 | |
| 6,200.00 | 2.55 | 59.78 | 6,196.21 | 86.67 | 148.83 | 461,613.16 | 651,321.56 | 32.268548 | -103.977493 | |
| 6,300.00 | 2.55 | 59.78 | 6,296.11 | 88.91 | 152.67 | 461,615.40 | 651,325.41 | 32.268554 | -103.977480 | |
| 6,400.00 | 2.55 | 59.78 | 6,396.01 | 91.15 | 156.52 | 461,617.64 | 651,329.25 | 32.268560 | -103.977468 | |
| 6,500.00 | 2.55 | 59.78 | 6,495.91 | 93.39 | 160.36 | 461,619.88 | 651,333.09 | 32.268567 | -103.977455 | |
| 6,600.00 | 2.55 | 59.78 | 6,595.81 | 95.63 | 164.20 | 461,622.12 | 651,336.94 | 32.268573 | -103.977443 | |
| 6,700.00 | 2.55 | 59.78 | 6,695.72 | 97.87 | 168.05 | 461,624.36 | 651,340.78 | 32.268579 | -103.977430 | |
| 6,800.00 | 2.55 | 59.78 | 6,795.62 | 100.10 | 171.89 | 461,626.59 | 651,344.62 | 32.268585 | -103.977418 | |
| 6,885.00 | 2.55 | 59.78 | 6,880.53 | 102.01 | 175.16 | 461,628.50 | 651,347.89 | 32.268590 | -103.977407 | |
| Cross section @ 6885' MD, 0' FSL, 1168' FWL | | | | | | | | | | |
| 6,900.00 | 2.55 | 59.78 | 6,895.52 | 102.34 | 175.73 | 461,628.83 | 651,348.47 | 32.268591 | -103.977405 | |
| 7,000.00 | 2.55 | 59.78 | 6,995.42 | 104.58 | 179.57 | 461,631.07 | 651,352.31 | 32.268597 | -103.977393 | |
| 7,100.00 | 2.55 | 59.78 | 7,095.32 | 106.82 | 183.42 | 461,633.31 | 651,356.15 | 32.268603 | -103.977380 | |
| 7,200.00 | 2.55 | 59.78 | 7,195.22 | 109.06 | 187.26 | 461,635.55 | 651,360.00 | 32.268609 | -103.977368 | |
| 7,300.00 | 2.55 | 59.78 | 7,295.12 | 111.29 | 191.10 | 461,637.78 | 651,363.84 | 32.268615 | -103.977356 | |
| 7,400.00 | 2.55 | 59.78 | 7,395.02 | 113.53 | 194.95 | 461,640.02 | 651,367.68 | 32.268622 | -103.977343 | |
| 7,500.00 | 2.55 | 59.78 | 7,494.92 | 115.77 | 198.79 | 461,642.26 | 651,371.52 | 32.268628 | -103.977331 | |
| 7,600.00 | 2.55 | 59.78 | 7,594.83 | 118.01 | 202.63 | 461,644.50 | 651,375.37 | 32.268634 | -103.977318 | |
| 7,700.00 | 2.55 | 59.78 | 7,694.73 | 120.25 | 206.48 | 461,646.74 | 651,379.21 | 32.268640 | -103.977306 | |
| 7,800.00 | 2.55 | 59.78 | 7,794.63 | 122.49 | 210.32 | 461,648.98 | 651,383.05 | 32.268646 | -103.977293 | |
| 7,900.00 | 2.55 | 59.78 | 7,894.53 | 124.72 | 214.16 | 461,651.21 | 651,386.90 | 32.268652 | -103.977281 | |
| 8,000.00 | 2.55 | 59.78 | 7,994.43 | 126.96 | 218.01 | 461,653.45 | 651,390.74 | 32.268658 | -103.977268 | |
| 8,100.00 | 2.55 | 59.78 | 8,094.33 | 129.20 | 221.85 | 461,655.69 | 651,394.58 | 32.268664 | -103.977256 | |
| 8,200.00 | 2.55 | 59.78 | 8,194.23 | 131.44 | 225.69 | 461,657.93 | 651,398.43 | 32.268671 | -103.977243 | |
| 8,300.00 | 2.55 | 59.78 | 8,294.13 | 133.68 | 229.54 | 461,660.17 | 651,402.27 | 32.268677 | -103.977231 | |
| 8,400.00 | 2.55 | 59.78 | 8,394.03 | 135.91 | 233.38 | 461,662.40 | 651,406.11 | 32.268683 | -103.977218 | |
| 8,500.00 | 2.55 | 59.78 | 8,493.93 | 138.15 | 237.22 | 461,664.64 | 651,409.96 | 32.268689 | -103.977206 | |
| 8,600.00 | 2.55 | 59.78 | 8,593.84 | 140.39 | 241.07 | 461,666.88 | 651,413.80 | 32.268695 | -103.977194 | |
| 8,700.00 | 2.55 | 59.78 | 8,693.74 | 142.63 | 244.91 | 461,669.12 | 651,417.64 | 32.268701 | -103.977181 | |
| 8,800.00 | 2.55 | 59.78 | 8,793.64 | 144.87 | 248.75 | 461,671.36 | 651,421.49 | 32.268707 | -103.977169 | |
| 8,900.00 | 2.55 | 59.78 | 8,893.54 | 147.11 | 252.60 | 461,673.60 | 651,425.33 | 32.268713 | -103.977156 | |
| 9,000.00 | 2.55 | 59.78 | 8,993.44 | 149.34 | 256.44 | 461,675.83 | 651,429.17 | 32.268719 | -103.977144 | |
| 9,033.72 | 2.55 | 59.78 | 9,027.12 | 150.10 | 257.73 | 461,676.59 | 651,430.47 | 32.268722 | -103.977140 | |
| 9,100.00 | 1.55 | 59.78 | 9,093.36 | 151.29 | 259.78 | 461,677.78 | 651,432.52 | 32.268725 | -103.977133 | |
| 9,200.00 | 0.05 | 59.78 | 9,193.35 | 152.00 | 261.00 | 461,678.49 | 651,433.73 | 32.268727 | -103.977129 | |
| 9,203.65 | 0.00 | 0.00 | 9,197.00 | 152.00 | 261.00 | 461,678.49 | 651,433.73 | 32.268727 | -103.977129 | |
| 9,300.00 | 0.00 | 0.00 | 9,293.35 | 152.00 | 261.00 | 461,678.49 | 651,433.73 | 32.268727 | -103.977129 | |
| 9,400.00 | 0.00 | 0.00 | 9,393.35 | 152.00 | 261.00 | 461,678.49 | 651,433.73 | 32.268727 | -103.977129 | |
| 9,500.00 | 0.00 | 0.00 | 9,493.35 | 152.00 | 261.00 | 461,678.49 | 651,433.73 | 32.268727 | -103.977129 | |
| 9,553.68 | 0.00 | 0.00 | 9,547.03 | 152.00 | 261.00 | 461,678.49 | 651,433.73 | 32.268727 | -103.977129 | |
| KOP @ 9554' MD, 50' FSL, 1254' FWL | | | | | | | | | | |
| 9,553.69 | 0.00 | 0.00 | 9,547.04 | 152.00 | 261.00 | 461,678.49 | 651,433.73 | 32.268727 | -103.977129 | |
| 9,600.00 | 4.63 | 359.79 | 9,593.30 | 153.87 | 260.99 | 461,680.36 | 651,433.73 | 32.268732 | -103.977129 | |
| 9,700.00 | 14.63 | 359.79 | 9,691.77 | 170.58 | 260.93 | 461,697.07 | 651,433.67 | 32.268778 | -103.977129 | |

Planning Report - Geographic

| | | | |
|------------------|---------------------------------|------------------------------------|--------------------------------------|
| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference | Well Papas Fritas 27-22 Fed Com 621H |
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3046.70ft |
| Project: | Eddy County (NAD 83 NM Eastern) | MD Reference: | RKB @ 3046.70ft |
| Site: | Sec 27-T23S-R29E | North Reference: | Grid |
| Well: | Papas Fritas 27-22 Fed Com 621H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| Planned Survey | | | | | | | | | | |
|--|-----------------|-------------|---------------------|-----------|-----------|---------------------|--------------------|-----------|-------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N-S (ft) | +E-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 9,794.83 | 24.11 | 359.79 | 9,781.12 | 202.00 | 260.82 | 461,728.49 | 651,433.55 | 32.268864 | -103.977129 | |
| FTP @ 9795' MD, 100' FSL, 1254' FWL | | | | | | | | | | |
| 9,800.00 | 24.63 | 359.79 | 9,785.83 | 204.13 | 260.81 | 461,730.62 | 651,433.54 | 32.268870 | -103.977129 | |
| 9,900.00 | 34.63 | 359.79 | 9,872.65 | 253.51 | 260.63 | 461,780.00 | 651,433.36 | 32.269006 | -103.977129 | |
| 10,000.00 | 44.63 | 359.79 | 9,949.57 | 317.21 | 260.40 | 461,843.70 | 651,433.13 | 32.269181 | -103.977129 | |
| 10,100.00 | 54.63 | 359.79 | 10,014.25 | 393.31 | 260.12 | 461,919.79 | 651,432.86 | 32.269390 | -103.977129 | |
| 10,200.00 | 64.63 | 359.79 | 10,064.75 | 479.47 | 259.81 | 462,005.96 | 651,432.54 | 32.269627 | -103.977129 | |
| 10,300.00 | 74.63 | 359.79 | 10,099.51 | 573.10 | 259.47 | 462,099.59 | 651,432.20 | 32.269884 | -103.977129 | |
| 10,400.00 | 84.63 | 359.79 | 10,117.49 | 671.34 | 259.11 | 462,197.83 | 651,431.84 | 32.270154 | -103.977130 | |
| 10,453.69 | 90.00 | 359.79 | 10,120.00 | 724.96 | 258.91 | 462,251.44 | 651,431.65 | 32.270302 | -103.977130 | |
| 10,500.00 | 90.00 | 359.79 | 10,120.00 | 771.26 | 258.75 | 462,297.75 | 651,431.48 | 32.270429 | -103.977130 | |
| 10,600.00 | 90.00 | 359.79 | 10,120.00 | 871.26 | 258.38 | 462,397.75 | 651,431.12 | 32.270704 | -103.977130 | |
| 10,700.00 | 90.00 | 359.79 | 10,120.00 | 971.26 | 258.02 | 462,497.75 | 651,430.75 | 32.270979 | -103.977130 | |
| 10,800.00 | 90.00 | 359.79 | 10,120.00 | 1,071.26 | 257.65 | 462,597.75 | 651,430.39 | 32.271254 | -103.977130 | |
| 10,900.00 | 90.00 | 359.79 | 10,120.00 | 1,171.26 | 257.29 | 462,697.75 | 651,430.02 | 32.271529 | -103.977130 | |
| 11,000.00 | 90.00 | 359.79 | 10,120.00 | 1,271.26 | 256.92 | 462,797.75 | 651,429.66 | 32.271803 | -103.977130 | |
| 11,100.00 | 90.00 | 359.79 | 10,120.00 | 1,371.26 | 256.56 | 462,897.75 | 651,429.29 | 32.272078 | -103.977130 | |
| 11,200.00 | 90.00 | 359.79 | 10,120.00 | 1,471.26 | 256.20 | 462,997.75 | 651,428.93 | 32.272353 | -103.977130 | |
| 11,300.00 | 90.00 | 359.79 | 10,120.00 | 1,571.26 | 255.83 | 463,097.75 | 651,428.57 | 32.272628 | -103.977130 | |
| 11,400.00 | 90.00 | 359.79 | 10,120.00 | 1,671.26 | 255.47 | 463,197.74 | 651,428.20 | 32.272903 | -103.977131 | |
| 11,500.00 | 90.00 | 359.79 | 10,120.00 | 1,771.26 | 255.10 | 463,297.74 | 651,427.84 | 32.273178 | -103.977131 | |
| 11,600.00 | 90.00 | 359.79 | 10,120.00 | 1,871.26 | 254.74 | 463,397.74 | 651,427.47 | 32.273453 | -103.977131 | |
| 11,700.00 | 90.00 | 359.79 | 10,120.00 | 1,971.26 | 254.38 | 463,497.74 | 651,427.11 | 32.273728 | -103.977131 | |
| 11,800.00 | 90.00 | 359.79 | 10,120.00 | 2,071.25 | 254.01 | 463,597.74 | 651,426.75 | 32.274002 | -103.977131 | |
| 11,900.00 | 90.00 | 359.79 | 10,120.00 | 2,171.25 | 253.65 | 463,697.74 | 651,426.38 | 32.274277 | -103.977131 | |
| 12,000.00 | 90.00 | 359.79 | 10,120.00 | 2,271.25 | 253.28 | 463,797.74 | 651,426.02 | 32.274552 | -103.977131 | |
| 12,100.00 | 90.00 | 359.79 | 10,120.00 | 2,371.25 | 252.92 | 463,897.74 | 651,425.65 | 32.274827 | -103.977131 | |
| 12,200.00 | 90.00 | 359.79 | 10,120.00 | 2,471.25 | 252.56 | 463,997.74 | 651,425.29 | 32.275102 | -103.977131 | |
| 12,300.00 | 90.00 | 359.79 | 10,120.00 | 2,571.25 | 252.19 | 464,097.74 | 651,424.93 | 32.275377 | -103.977131 | |
| 12,400.00 | 90.00 | 359.79 | 10,120.00 | 2,671.25 | 251.83 | 464,197.74 | 651,424.56 | 32.275652 | -103.977132 | |
| 12,500.00 | 90.00 | 359.79 | 10,120.00 | 2,771.25 | 251.46 | 464,297.74 | 651,424.20 | 32.275927 | -103.977132 | |
| 12,600.00 | 90.00 | 359.79 | 10,120.00 | 2,871.25 | 251.10 | 464,397.73 | 651,423.83 | 32.276202 | -103.977132 | |
| 12,700.00 | 90.00 | 359.79 | 10,120.00 | 2,971.25 | 250.73 | 464,497.73 | 651,423.47 | 32.276476 | -103.977132 | |
| 12,800.00 | 90.00 | 359.79 | 10,120.00 | 3,071.25 | 250.37 | 464,597.73 | 651,423.10 | 32.276751 | -103.977132 | |
| 12,900.00 | 90.00 | 359.79 | 10,120.00 | 3,171.25 | 250.01 | 464,697.73 | 651,422.74 | 32.277026 | -103.977132 | |
| 13,000.00 | 90.00 | 359.79 | 10,120.00 | 3,271.25 | 249.64 | 464,797.73 | 651,422.38 | 32.277301 | -103.977132 | |
| 13,100.00 | 90.00 | 359.79 | 10,120.00 | 3,371.25 | 249.28 | 464,897.73 | 651,422.01 | 32.277576 | -103.977132 | |
| 13,200.00 | 90.00 | 359.79 | 10,120.00 | 3,471.25 | 248.91 | 464,997.73 | 651,421.65 | 32.277851 | -103.977132 | |
| 13,300.00 | 90.00 | 359.79 | 10,120.00 | 3,571.24 | 248.55 | 465,097.73 | 651,421.28 | 32.278126 | -103.977133 | |
| 13,400.00 | 90.00 | 359.79 | 10,120.00 | 3,671.24 | 248.19 | 465,197.73 | 651,420.92 | 32.278401 | -103.977133 | |
| 13,500.00 | 90.00 | 359.79 | 10,120.00 | 3,771.24 | 247.82 | 465,297.73 | 651,420.56 | 32.278676 | -103.977133 | |
| 13,600.00 | 90.00 | 359.79 | 10,120.00 | 3,871.24 | 247.46 | 465,397.73 | 651,420.19 | 32.278950 | -103.977133 | |
| 13,700.00 | 90.00 | 359.79 | 10,120.00 | 3,971.24 | 247.09 | 465,497.72 | 651,419.83 | 32.279225 | -103.977133 | |
| 13,800.00 | 90.00 | 359.79 | 10,120.00 | 4,071.24 | 246.73 | 465,597.72 | 651,419.46 | 32.279500 | -103.977133 | |
| 13,900.00 | 90.00 | 359.79 | 10,120.00 | 4,171.24 | 246.37 | 465,697.72 | 651,419.10 | 32.279775 | -103.977133 | |
| 14,000.00 | 90.00 | 359.79 | 10,120.00 | 4,271.24 | 246.00 | 465,797.72 | 651,418.74 | 32.280050 | -103.977133 | |
| 14,100.00 | 90.00 | 359.79 | 10,120.00 | 4,371.24 | 245.64 | 465,897.72 | 651,418.37 | 32.280325 | -103.977133 | |
| 14,200.00 | 90.00 | 359.79 | 10,120.00 | 4,471.24 | 245.27 | 465,997.72 | 651,418.01 | 32.280600 | -103.977133 | |
| 14,300.00 | 90.00 | 359.79 | 10,120.00 | 4,571.24 | 244.91 | 466,097.72 | 651,417.64 | 32.280875 | -103.977134 | |
| 14,400.00 | 90.00 | 359.79 | 10,120.00 | 4,671.24 | 244.54 | 466,197.72 | 651,417.28 | 32.281149 | -103.977134 | |
| 14,500.00 | 90.00 | 359.79 | 10,120.00 | 4,771.24 | 244.18 | 466,297.72 | 651,416.91 | 32.281424 | -103.977134 | |
| 14,600.00 | 90.00 | 359.79 | 10,120.00 | 4,871.24 | 243.82 | 466,397.72 | 651,416.55 | 32.281699 | -103.977134 | |
| 14,700.00 | 90.00 | 359.79 | 10,120.00 | 4,971.24 | 243.45 | 466,497.72 | 651,416.19 | 32.281974 | -103.977134 | |
| 14,800.00 | 90.00 | 359.79 | 10,120.00 | 5,071.24 | 243.09 | 466,597.72 | 651,415.82 | 32.282249 | -103.977134 | |

Planning Report - Geographic

| | | | |
|------------------|---------------------------------|------------------------------------|--------------------------------------|
| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference | Well Papas Fritas 27-22 Fed Com 621H |
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3046.70ft |
| Project: | Eddy County (NAD 83 NM Eastern) | MD Reference: | RKB @ 3046.70ft |
| Site: | Sec 27-T23S-R29E | North Reference: | Grid |
| Well: | Papas Fritas 27-22 Fed Com 621H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| Planned Survey | | | | | | | | | |
|---|-----------------|-------------|---------------------|-----------|-----------|---------------------|--------------------|-----------|-------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N-S (ft) | +E-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 14,900.00 | 90.00 | 359.79 | 10,120.00 | 5,171.23 | 242.72 | 466,697.71 | 651,415.46 | 32.282524 | -103.977134 |
| 15,000.00 | 90.00 | 359.79 | 10,120.00 | 5,271.23 | 242.36 | 466,797.71 | 651,415.09 | 32.282799 | -103.977134 |
| 15,100.00 | 90.00 | 359.79 | 10,120.00 | 5,371.23 | 242.00 | 466,897.71 | 651,414.73 | 32.283074 | -103.977134 |
| 15,111.00 | 90.00 | 359.79 | 10,120.00 | 5,382.23 | 241.96 | 466,908.71 | 651,414.69 | 32.283104 | -103.977134 |
| Cross section @ 15111' MD, 0' FSL, 1254' FWL | | | | | | | | | |
| 15,200.00 | 90.00 | 359.79 | 10,120.00 | 5,471.23 | 241.63 | 466,997.71 | 651,414.37 | 32.283349 | -103.977134 |
| 15,300.00 | 90.00 | 359.79 | 10,120.00 | 5,571.23 | 241.27 | 467,097.71 | 651,414.00 | 32.283623 | -103.977135 |
| 15,400.00 | 90.00 | 359.79 | 10,120.00 | 5,671.23 | 240.90 | 467,197.71 | 651,413.64 | 32.283898 | -103.977135 |
| 15,500.00 | 90.00 | 359.79 | 10,120.00 | 5,771.23 | 240.54 | 467,297.71 | 651,413.27 | 32.284173 | -103.977135 |
| 15,600.00 | 90.00 | 359.79 | 10,120.00 | 5,871.23 | 240.18 | 467,397.71 | 651,412.91 | 32.284448 | -103.977135 |
| 15,700.00 | 90.00 | 359.79 | 10,120.00 | 5,971.23 | 239.81 | 467,497.71 | 651,412.55 | 32.284723 | -103.977135 |
| 15,800.00 | 90.00 | 359.79 | 10,120.00 | 6,071.23 | 239.45 | 467,597.71 | 651,412.18 | 32.284998 | -103.977135 |
| 15,900.00 | 90.00 | 359.79 | 10,120.00 | 6,171.23 | 239.08 | 467,697.71 | 651,411.82 | 32.285273 | -103.977135 |
| 16,000.00 | 90.00 | 359.79 | 10,120.00 | 6,271.23 | 238.72 | 467,797.70 | 651,411.45 | 32.285548 | -103.977135 |
| 16,100.00 | 90.00 | 359.79 | 10,120.00 | 6,371.23 | 238.35 | 467,897.70 | 651,411.09 | 32.285822 | -103.977135 |
| 16,200.00 | 90.00 | 359.79 | 10,120.00 | 6,471.23 | 237.99 | 467,997.70 | 651,410.72 | 32.286097 | -103.977136 |
| 16,300.00 | 90.00 | 359.79 | 10,120.00 | 6,571.23 | 237.63 | 468,097.70 | 651,410.36 | 32.286372 | -103.977136 |
| 16,400.00 | 90.00 | 359.79 | 10,120.00 | 6,671.22 | 237.26 | 468,197.70 | 651,410.00 | 32.286647 | -103.977136 |
| 16,500.00 | 90.00 | 359.79 | 10,120.00 | 6,771.22 | 236.90 | 468,297.70 | 651,409.63 | 32.286922 | -103.977136 |
| 16,600.00 | 90.00 | 359.79 | 10,120.00 | 6,871.22 | 236.53 | 468,397.70 | 651,409.27 | 32.287197 | -103.977136 |
| 16,700.00 | 90.00 | 359.79 | 10,120.00 | 6,971.22 | 236.17 | 468,497.70 | 651,408.90 | 32.287472 | -103.977136 |
| 16,800.00 | 90.00 | 359.79 | 10,120.00 | 7,071.22 | 235.81 | 468,597.70 | 651,408.54 | 32.287747 | -103.977136 |
| 16,900.00 | 90.00 | 359.79 | 10,120.00 | 7,171.22 | 235.44 | 468,697.70 | 651,408.18 | 32.288022 | -103.977136 |
| 17,000.00 | 90.00 | 359.79 | 10,120.00 | 7,271.22 | 235.08 | 468,797.70 | 651,407.81 | 32.288296 | -103.977136 |
| 17,100.00 | 90.00 | 359.79 | 10,120.00 | 7,371.22 | 234.71 | 468,897.70 | 651,407.45 | 32.288571 | -103.977136 |
| 17,200.00 | 90.00 | 359.79 | 10,120.00 | 7,471.22 | 234.35 | 468,997.69 | 651,407.08 | 32.288846 | -103.977137 |
| 17,300.00 | 90.00 | 359.79 | 10,120.00 | 7,571.22 | 233.99 | 469,097.69 | 651,406.72 | 32.289121 | -103.977137 |
| 17,400.00 | 90.00 | 359.79 | 10,120.00 | 7,671.22 | 233.62 | 469,197.69 | 651,406.36 | 32.289396 | -103.977137 |
| 17,500.00 | 90.00 | 359.79 | 10,120.00 | 7,771.22 | 233.26 | 469,297.69 | 651,405.99 | 32.289671 | -103.977137 |
| 17,600.00 | 90.00 | 359.79 | 10,120.00 | 7,871.22 | 232.89 | 469,397.69 | 651,405.63 | 32.289946 | -103.977137 |
| 17,700.00 | 90.00 | 359.79 | 10,120.00 | 7,971.22 | 232.53 | 469,497.69 | 651,405.26 | 32.290221 | -103.977137 |
| 17,800.00 | 90.00 | 359.79 | 10,120.00 | 8,071.22 | 232.17 | 469,597.69 | 651,404.90 | 32.290496 | -103.977137 |
| 17,900.00 | 90.00 | 359.79 | 10,120.00 | 8,171.21 | 231.80 | 469,697.69 | 651,404.53 | 32.290770 | -103.977137 |
| 18,000.00 | 90.00 | 359.79 | 10,120.00 | 8,271.21 | 231.44 | 469,797.69 | 651,404.17 | 32.291045 | -103.977137 |
| 18,100.00 | 90.00 | 359.79 | 10,120.00 | 8,371.21 | 231.07 | 469,897.69 | 651,403.81 | 32.291320 | -103.977137 |
| 18,200.00 | 90.00 | 359.79 | 10,120.00 | 8,471.21 | 230.71 | 469,997.69 | 651,403.44 | 32.291595 | -103.977138 |
| 18,300.00 | 90.00 | 359.79 | 10,120.00 | 8,571.21 | 230.34 | 470,097.69 | 651,403.08 | 32.291870 | -103.977138 |
| 18,400.00 | 90.00 | 359.79 | 10,120.00 | 8,671.21 | 229.98 | 470,197.68 | 651,402.71 | 32.292145 | -103.977138 |
| 18,500.00 | 90.00 | 359.79 | 10,120.00 | 8,771.21 | 229.62 | 470,297.68 | 651,402.35 | 32.292420 | -103.977138 |
| 18,600.00 | 90.00 | 359.79 | 10,120.00 | 8,871.21 | 229.25 | 470,397.68 | 651,401.99 | 32.292695 | -103.977138 |
| 18,700.00 | 90.00 | 359.79 | 10,120.00 | 8,971.21 | 228.89 | 470,497.68 | 651,401.62 | 32.292969 | -103.977138 |
| 18,800.00 | 90.00 | 359.79 | 10,120.00 | 9,071.21 | 228.52 | 470,597.68 | 651,401.26 | 32.293244 | -103.977138 |
| 18,900.00 | 90.00 | 359.79 | 10,120.00 | 9,171.21 | 228.16 | 470,697.68 | 651,400.89 | 32.293519 | -103.977138 |
| 19,000.00 | 90.00 | 359.79 | 10,120.00 | 9,271.21 | 227.80 | 470,797.68 | 651,400.53 | 32.293794 | -103.977138 |
| 19,100.00 | 90.00 | 359.79 | 10,120.00 | 9,371.21 | 227.43 | 470,897.68 | 651,400.17 | 32.294069 | -103.977139 |
| 19,200.00 | 90.00 | 359.79 | 10,120.00 | 9,471.21 | 227.07 | 470,997.68 | 651,399.80 | 32.294344 | -103.977139 |
| 19,300.00 | 90.00 | 359.79 | 10,120.00 | 9,571.21 | 226.70 | 471,097.68 | 651,399.44 | 32.294619 | -103.977139 |
| 19,400.00 | 90.00 | 359.79 | 10,120.00 | 9,671.20 | 226.34 | 471,197.68 | 651,399.07 | 32.294894 | -103.977139 |
| 19,500.00 | 90.00 | 359.79 | 10,120.00 | 9,771.20 | 225.98 | 471,297.67 | 651,398.71 | 32.295169 | -103.977139 |
| 19,600.00 | 90.00 | 359.79 | 10,120.00 | 9,871.20 | 225.61 | 471,397.67 | 651,398.35 | 32.295443 | -103.977139 |
| 19,700.00 | 90.00 | 359.79 | 10,120.00 | 9,971.20 | 225.25 | 471,497.67 | 651,397.98 | 32.295718 | -103.977139 |
| 19,800.00 | 90.00 | 359.79 | 10,120.00 | 10,071.20 | 224.88 | 471,597.67 | 651,397.62 | 32.295993 | -103.977139 |
| 19,900.00 | 90.00 | 359.79 | 10,120.00 | 10,171.20 | 224.52 | 471,697.67 | 651,397.25 | 32.296268 | -103.977139 |
| 20,000.00 | 90.00 | 359.79 | 10,120.00 | 10,271.20 | 224.15 | 471,797.67 | 651,396.89 | 32.296543 | -103.977139 |

Planning Report - Geographic

| | | | |
|------------------|---------------------------------|------------------------------------|--------------------------------------|
| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference | Well Papas Fritas 27-22 Fed Com 621H |
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3046.70ft |
| Project: | Eddy County (NAD 83 NM Eastern) | MD Reference: | RKB @ 3046.70ft |
| Site: | Sec 27-T23S-R29E | North Reference: | Grid |
| Well: | Papas Fritas 27-22 Fed Com 621H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| Planned Survey | | | | | | | | | |
|---|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 20,100.00 | 90.00 | 359.79 | 10,120.00 | 10,371.20 | 223.79 | 471,897.67 | 651,396.52 | 32.296818 | -103.977140 |
| 20,200.00 | 90.00 | 359.79 | 10,120.00 | 10,471.20 | 223.43 | 471,997.67 | 651,396.16 | 32.297093 | -103.977140 |
| 20,300.00 | 90.00 | 359.79 | 10,120.00 | 10,571.20 | 223.06 | 472,097.67 | 651,395.80 | 32.297368 | -103.977140 |
| 20,371.52 | 90.00 | 359.79 | 10,120.00 | 10,642.72 | 222.80 | 472,169.19 | 651,395.54 | 32.297564 | -103.977140 |
| LTP @ 20372' MD, 100' FNL, 1254' FWL | | | | | | | | | |
| 20,400.00 | 90.00 | 359.79 | 10,120.00 | 10,671.20 | 222.70 | 472,197.67 | 651,395.43 | 32.297642 | -103.977140 |
| 20,451.52 | 90.00 | 359.79 | 10,120.00 | 10,722.72 | 222.51 | 472,249.19 | 651,395.24 | 32.297784 | -103.977140 |
| PBHL; 20' FNL, 1254' FWL | | | | | | | | | |
| 20,451.53 | 90.00 | 359.79 | 10,120.00 | 10,722.73 | 222.51 | 472,249.20 | 651,395.24 | 32.297784 | -103.977140 |

| Design Targets | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PBHL - Papas Fritas 27- | 0.00 | 0.00 | 0.00 | 10,722.73 | 222.51 | 472,249.20 | 651,395.24 | 32.297784 | -103.977140 |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| - Point | | | | | | | | | |
| - plan misses target center by 10120.00ft at 20451.53ft MD (10120.00 TVD, 10722.73 N, 222.51 E) | | | | | | | | | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|--|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment | |
| | | +N/-S (ft) | +E/-W (ft) | | |
| 6,885.00 | 6,880.53 | 102.01 | 175.16 | Cross section @ 6885' MD, 0' FSL, 1168' FWL | |
| 9,553.68 | 9,547.03 | 152.00 | 261.00 | KOP @ 9554' MD, 50' FSL, 1254' FWL | |
| 9,794.83 | 9,781.12 | 202.00 | 260.82 | FTP @ 9795' MD, 100' FSL, 1254' FWL | |
| 15,111.00 | 10,120.00 | 5,382.23 | 241.96 | Cross section @ 15111' MD, 0' FSL, 1254' FWL | |
| 20,371.52 | 10,120.00 | 10,642.72 | 222.80 | LTP @ 20372' MD, 100' FNL, 1254' FWL | |
| 20,451.52 | 10,120.00 | 10,722.72 | 222.51 | PBHL; 20' FNL, 1254' FWL | |

Devon Energy

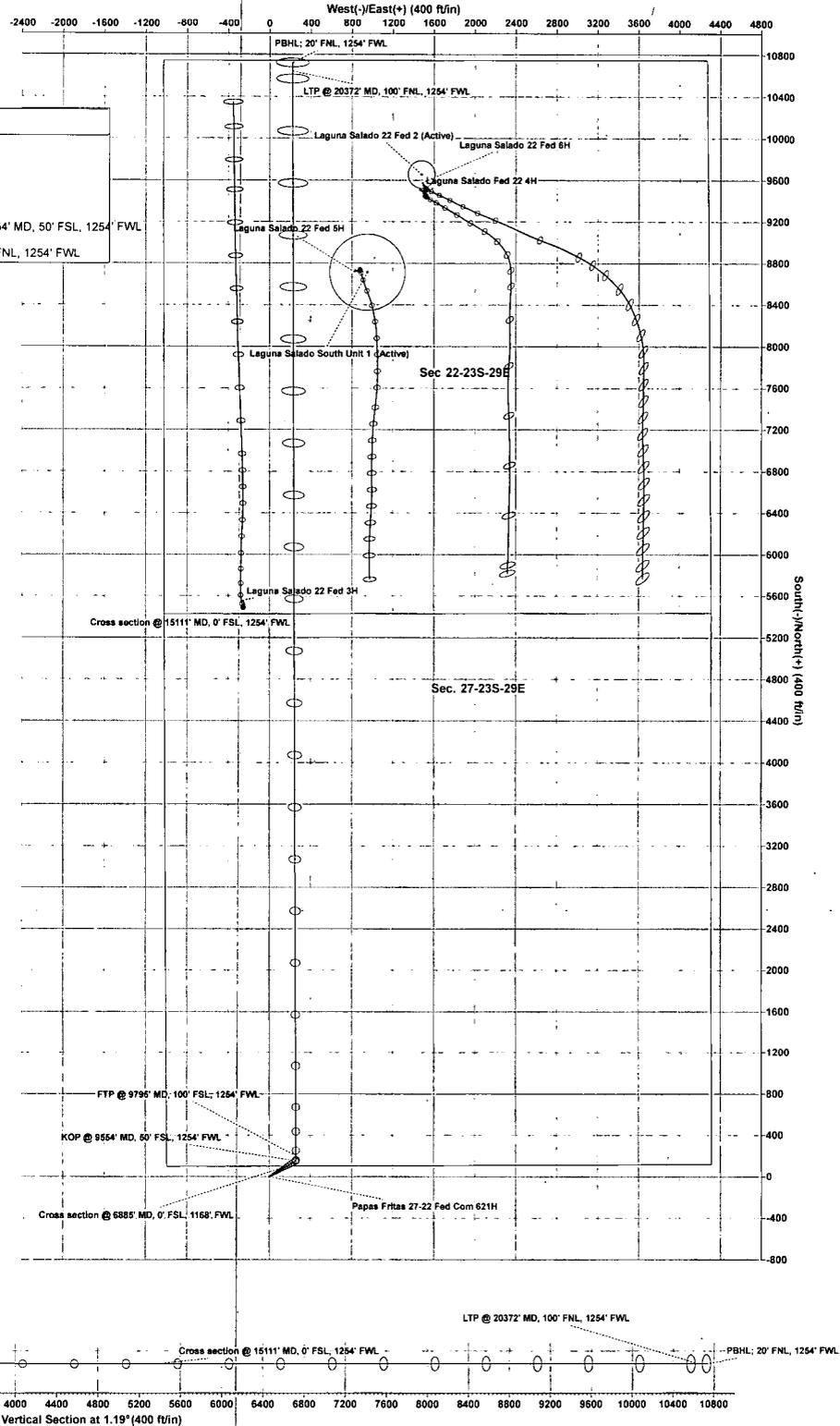
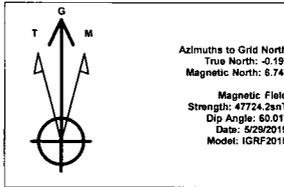
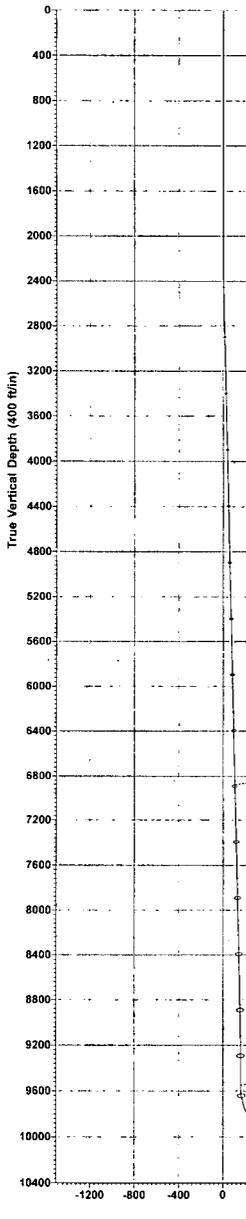
WELL DETAILS: Papas Fritas 27-22 Fed Com 621H

RKB @ 3046.70R
3021.70

Northing 461526.49 Easting 651172.73 Latitude 32.268311 Longitude -103.977975

SECTION DETAILS Permit Plan 1

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | VSect | Annotation |
|----------|-------|--------|----------|----------|--------|-------|----------|------------------------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2200.00 | 0.00 | 0.00 | 2200.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2454.90 | 2.55 | 59.78 | 2454.82 | 2.85 | 4.90 | 1.00 | 2.95 | |
| 9033.72 | 2.55 | 59.78 | 9027.12 | 150.10 | 257.73 | 0.00 | 155.41 | |
| 9203.65 | 0.00 | 0.00 | 9197.00 | 152.00 | 261.00 | 1.50 | 157.38 | |
| 9553.69 | 0.00 | 0.00 | 9547.04 | 152.00 | 261.00 | 0.00 | 157.38 | KOP @ 9554' MD, 50' FSL, 1254' FWL |
| 10453.69 | 90.00 | 359.79 | 10120.00 | 724.96 | 258.91 | 10.00 | 730.17 | |
| 20451.53 | 90.00 | 359.79 | 10120.00 | 10722.73 | 222.51 | 0.00 | 10725.04 | PBHL: 20' FNL, 1254' FWL |



devor

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

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

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

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

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

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

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

Devon Energy
APD VARIANCE DATA

OPERATOR NAME: Devon Energy

1. SUMMARY OF Variance:

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

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

2. Description of Operations

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



U. S. Steel Tubular Products

13.375" 48.00lbs/ft (0.330" Wall) H40

1/8/2019 12:38:52 PM

| MECHANICAL PROPERTIES | Pipe | BTC | LTC | STC | |
|--------------------------|--------|-----|-----|-----|-----|
| Minimum Yield Strength | 40,000 | -- | -- | -- | psi |
| Maximum Yield Strength | 80,000 | -- | -- | -- | psi |
| Minimum Tensile Strength | 60,000 | -- | -- | -- | psi |

| DIMENSIONS | Pipe | BTC | LTC | STC | |
|----------------------------|--------|--------|-----|--------|--------|
| Outside Diameter | 13.375 | -- | -- | 14.375 | in. |
| Wall Thickness | 0.330 | -- | -- | -- | in. |
| Inside Diameter | 12.715 | -- | -- | 12.715 | in. |
| Standard Drift | 12.559 | 12.559 | -- | 12.559 | in. |
| Alternate Drift | -- | -- | -- | -- | in. |
| Nominal Linear Weight, T&C | 48.00 | -- | -- | -- | lbs/ft |
| Plain End Weight | 46.02 | -- | -- | -- | lbs/ft |

| PERFORMANCE | Pipe | BTC | LTC | STC | |
|----------------------------------|-------|-------|-----|-------|-----------|
| Minimum Collapse Pressure | 740 | 740 | -- | 740 | psi |
| Minimum Internal Yield Pressure | 1,730 | 1,730 | -- | 1,730 | psi |
| Minimum Pipe Body Yield Strength | 541 | -- | -- | -- | 1,000 lbs |
| Joint Strength | -- | -- | -- | 322 | 1,000 lbs |
| Reference Length | -- | -- | -- | 4,473 | ft |

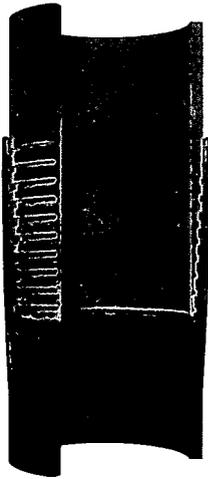
| MAKE-UP DATA | Pipe | BTC | LTC | STC | |
|------------------------|------|-----|-----|-------|--------|
| Make-Up Loss | -- | -- | -- | 3.50 | in. |
| Minimum Make-Up Torque | -- | -- | -- | 2,420 | ft-lbs |
| Maximum Make-Up Torque | -- | -- | -- | 4,030 | ft-lbs |

Legal Notice

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U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com



TEC-LOCK WEDGE

8.625" 32.00 LB/FT (.352" Wall)
BORUSAN MANNESMANNP110 HSCY

Pipe Body Data

| | | |
|-------------------------|--------------------|-------|
| Nominal OD: | 8.625 | in |
| Nominal Wall: | .352 | in |
| Nominal Weight: | 32.00 | lb/ft |
| Plain End Weight: | 31.13 | lb/ft |
| Material Grade: | P110 HSCY | |
| Mill/Specification: | BORUSAN MANNESMANN | |
| Yield Strength: | 125,000 | psi |
| Tensile Strength: | 125,000 | psi |
| Nominal ID: | 7.921 | in |
| API Drift Diameter: | 7.796 | in |
| Special Drift Diameter: | 7.875 | in |
| RBW: | 87.5 % | |
| Body Yield: | 1,144,000 | lbf |
| Burst: | 8,930 | psi |
| Collapse: | 4,230 | psi |

Connection Data

| | | |
|------------------------------|-----------|-----------------|
| Standard OD: | 9.000 | in |
| Pin Bored ID: | 7.921 | in |
| Critical Section Area: | 8.61433 | in ² |
| Tensile Efficiency: | 94.2 % | |
| Compressive Efficiency: | 100.0 % | |
| Longitudinal Yield Strength: | 1,077,000 | lbf |
| Compressive Limit: | 1,144,000 | lbf |
| Internal Pressure Rating: | 8,930 | psi |
| External Pressure Rating: | 4,230 | psi |
| Maximum Bend: | 62.6 | °/100 |

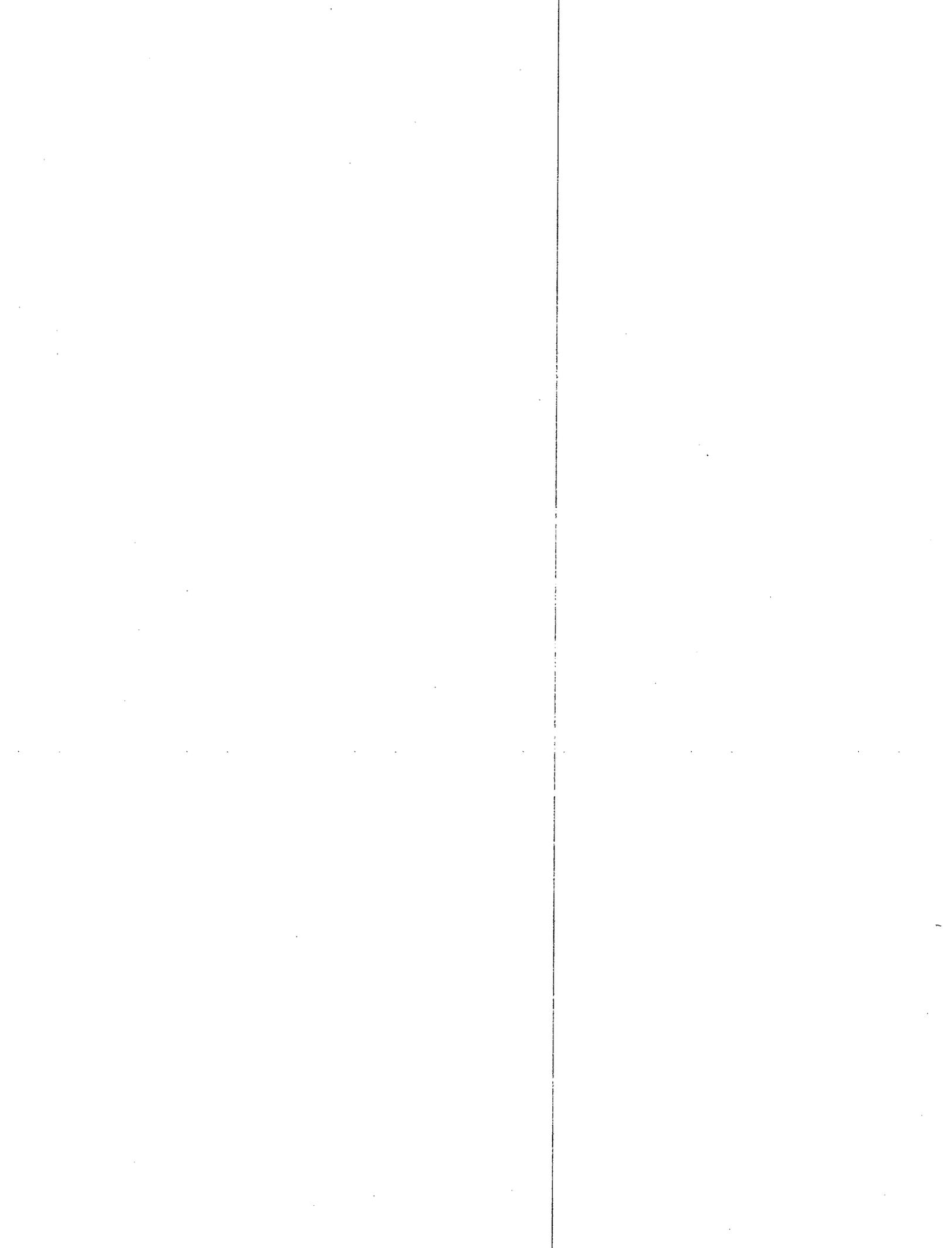
Operational Data

| | | |
|------------------------|--------|--------|
| Minimum Makeup Torque: | 29,900 | ft*lbf |
| Optimum Makeup Torque: | 37,375 | ft*lbf |
| Maximum Makeup Torque: | 80,900 | ft*lbf |
| Minimum Yield: | 89,900 | ft*lbf |
| Makeup Loss: | 5.97 | in |

Notes

Operational Torque is equivalent to the Maximum Make-Up Torque.







U. S. Steel Tubular Products
5.500" 17.00lbs/ft (0.304" Wall) P110

2/21/2019 8:12:22 AM

| MECHANICAL PROPERTIES | Pipe | BTC | LTC | STC | |
|------------------------------|-------------|------------|------------|------------|--|
|------------------------------|-------------|------------|------------|------------|--|

| | | | | | |
|--------------------------|---------|----|----|----|-----|
| Minimum Yield Strength | 110,000 | -- | -- | -- | psi |
| Maximum Yield Strength | 140,000 | -- | -- | -- | psi |
| Minimum Tensile Strength | 125,000 | -- | -- | -- | psi |

| DIMENSIONS | Pipe | BTC | LTC | STC | |
|-------------------|-------------|------------|------------|------------|--|
|-------------------|-------------|------------|------------|------------|--|

| | | | | | |
|----------------------------|-------|-------|-------|----|--------|
| Outside Diameter | 5.500 | 6.050 | 6.050 | -- | in. |
| Wall Thickness | 0.304 | -- | -- | -- | in. |
| Inside Diameter | 4.892 | 4.892 | 4.892 | -- | in. |
| Standard Drift | 4.767 | 4.767 | 4.767 | -- | in. |
| Alternate Drift | -- | -- | -- | -- | in. |
| Nominal Linear Weight, T&C | 17.00 | -- | -- | -- | lbs/ft |
| Plain End Weight | 16.89 | -- | -- | -- | lbs/ft |

| PERFORMANCE | Pipe | BTC | LTC | STC | |
|--------------------|-------------|------------|------------|------------|--|
|--------------------|-------------|------------|------------|------------|--|

| | | | | | |
|----------------------------------|--------|--------|--------|----|-----------|
| Minimum Collapse Pressure | 7,480 | 7,480 | 7,480 | -- | psi |
| Minimum Internal Yield Pressure | 10,640 | 10,640 | 10,640 | -- | psi |
| Minimum Pipe Body Yield Strength | 546 | -- | -- | -- | 1,000 lbs |
| Joint Strength | -- | 568 | 445 | -- | 1,000 lbs |
| Reference Length | -- | 22,271 | 17,449 | -- | ft |

| MAKE-UP DATA | Pipe | BTC | LTC | STC | |
|---------------------|-------------|------------|------------|------------|--|
|---------------------|-------------|------------|------------|------------|--|

| | | | | | |
|------------------------|----|------|-------|----|--------|
| Make-Up Loss | -- | 4.13 | 3.50 | -- | in. |
| Minimum Make-Up Torque | -- | -- | 3,470 | -- | ft-lbs |
| Maximum Make-Up Torque | -- | -- | 5,780 | -- | ft-lbs |

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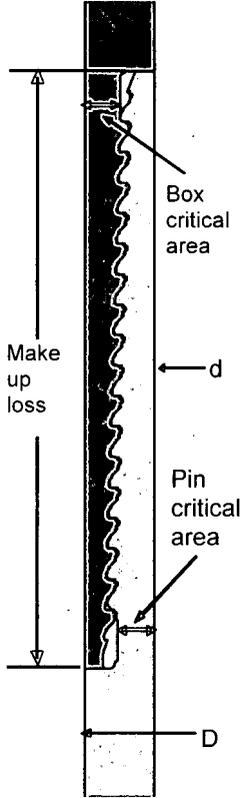
1-877-893-9461
 connections@uss.com
 www.usstubular.com

Geometry Imperial S.I.

FLUSHMAX-III

| Pipe Body | | | | |
|-------------------------|-------|-----------------|--------|-----------------|
| Grade | P110 | | P110 | |
| Pipe OD (D) | 7 5/8 | in | 193.68 | mm |
| Weight | 29.70 | lb/ft | 44.20 | kg/m |
| Actual weight | 29.04 | | 43.21 | kg/m |
| Wall Thickness (t) | 0.375 | in | 9.53 | mm |
| Pipe ID (d) | 6.875 | in | 174.63 | mm |
| Pipe body cross section | 8.537 | in ² | 5,508 | mm ² |
| Drift Dia. | 6.750 | in | 171.45 | mm |

| Connection | | | | |
|-----------------------|------------------------|-----------------|--------|-----------------|
| Box OD (W) | 7.625 | in | 193.68 | mm |
| PIN ID | 6.875 | in | 174.63 | mm |
| Make up Loss | 3.040 | in | 77.22 | mm |
| Box Critical Area | 4.424 | in ² | 2854 | mm ² |
| Joint load efficiency | 60 | % | 60 | % |
| Thread Taper | 1 / 16 (3/4" per ft) | | | |
| Number of Threads | 5 TPI | | | |



Performance

| Performance Properties for Pipe Body | | | | |
|---|-------|------|-------|-----|
| S.M.Y.S. | 939 | kips | 4,177 | kN |
| M.I.Y.P. | 9,470 | psi | 65.31 | MPa |
| Collapse Strength | 5,350 | psi | 36.90 | MPa |

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

| Performance Properties for Connection | |
|--|-------------------------------|
| Tensile Yield load | 563 kips (60% of S.M.Y.S.) |
| Min. Compression Yield | 563 kips (60% of S.M.Y.S.) |
| Internal Pressure | 7,580 psi (80% of M.I.Y.P.) |
| External Pressure | 100% of Collapse Strength |
| Max. DLS (deg. /100ft) | 25 |

| Recommended Torque | | | | |
|---------------------------|--------|-------|--------|-----|
| Min. | 15,500 | ft-lb | 21,000 | N-m |
| Opti. | 17,200 | ft-lb | 23,300 | N-m |
| Max. | 18,900 | ft-lb | 25,600 | N-m |
| Operational Max. | 23,600 | ft-lb | 32,000 | N-m |

Note : Operational Max. torque can be applied for high torque application

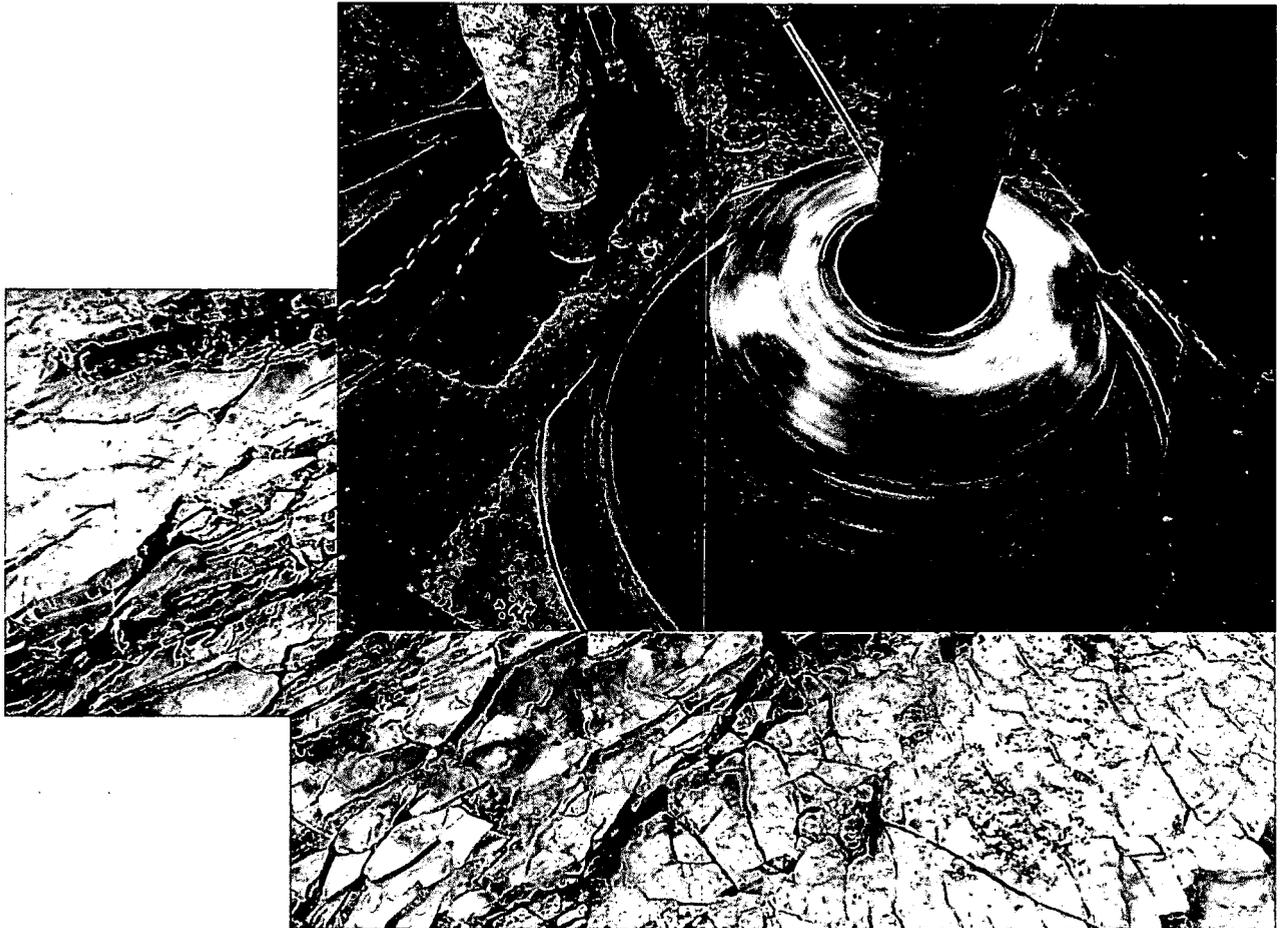
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Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

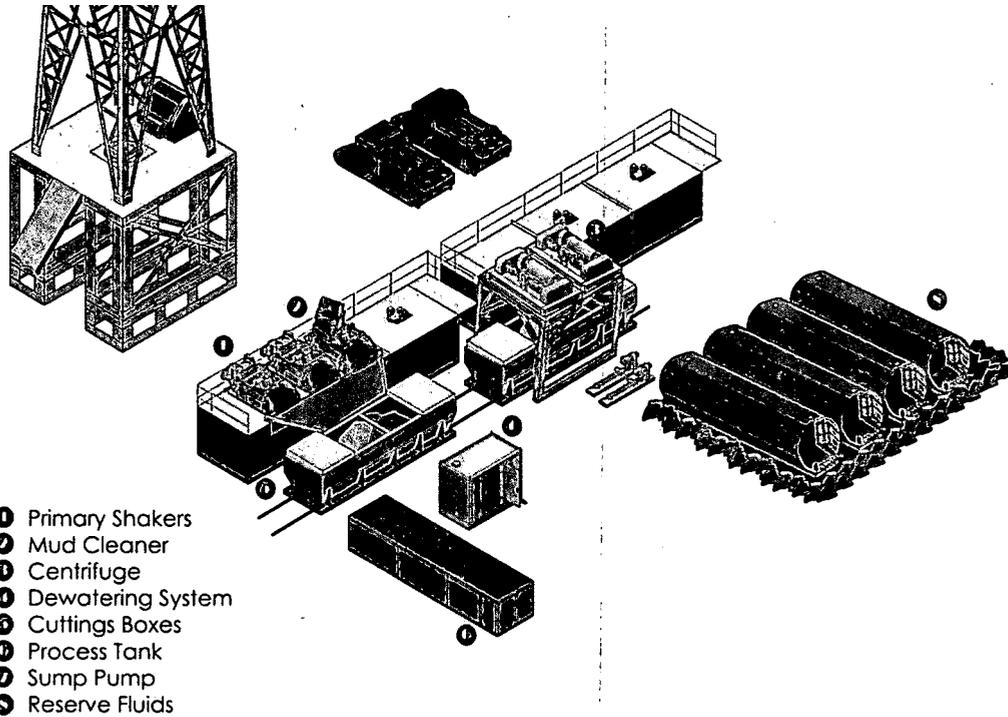
II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Closed Loop Schematic



- ① Primary Shakers
- ② Mud Cleaner
- ③ Centrifuge
- ④ Dewatering System
- ⑤ Cuttings Boxes
- ⑥ Process Tank
- ⑦ Sump Pump
- ⑧ Reserve Fluids



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

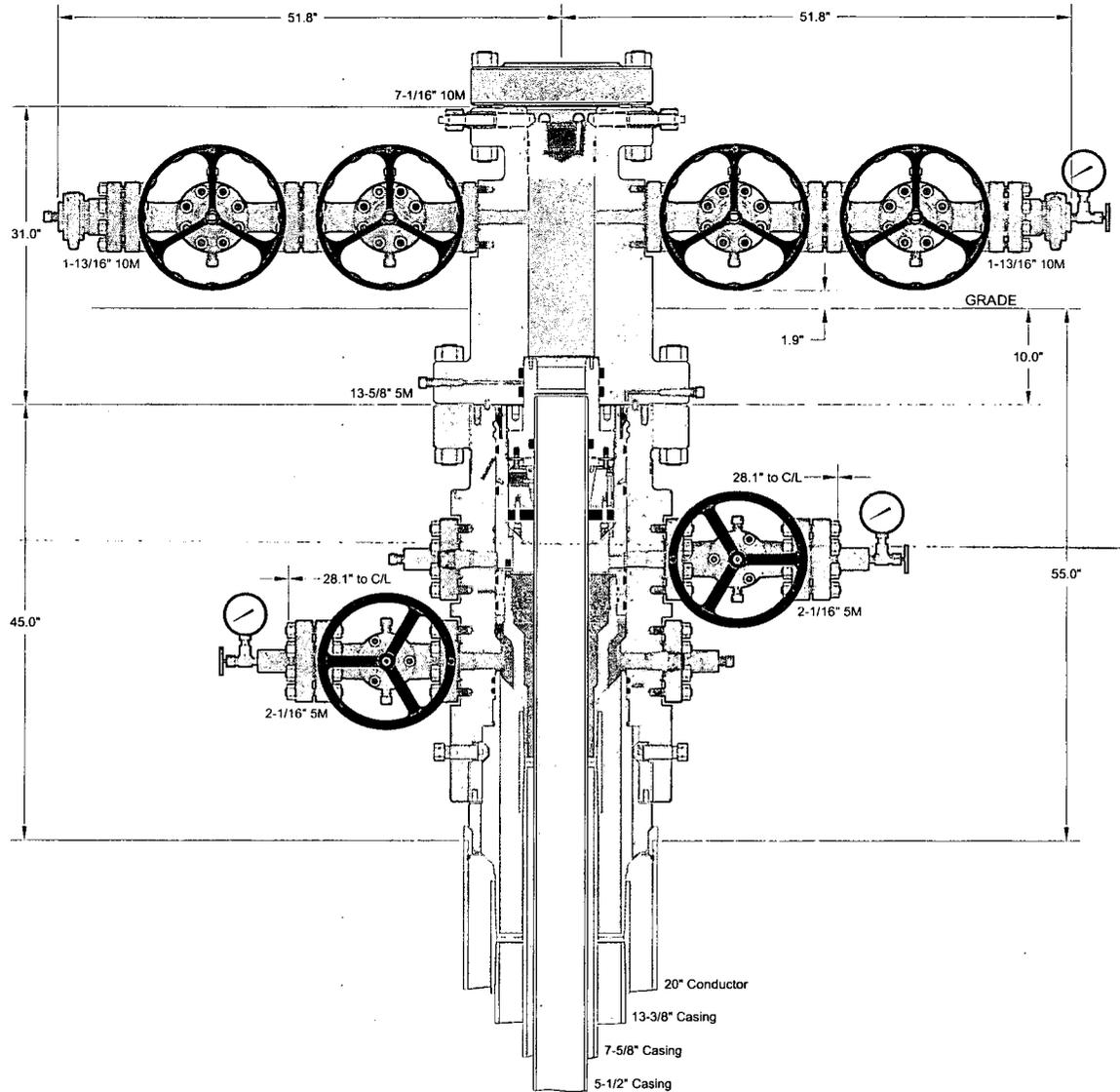
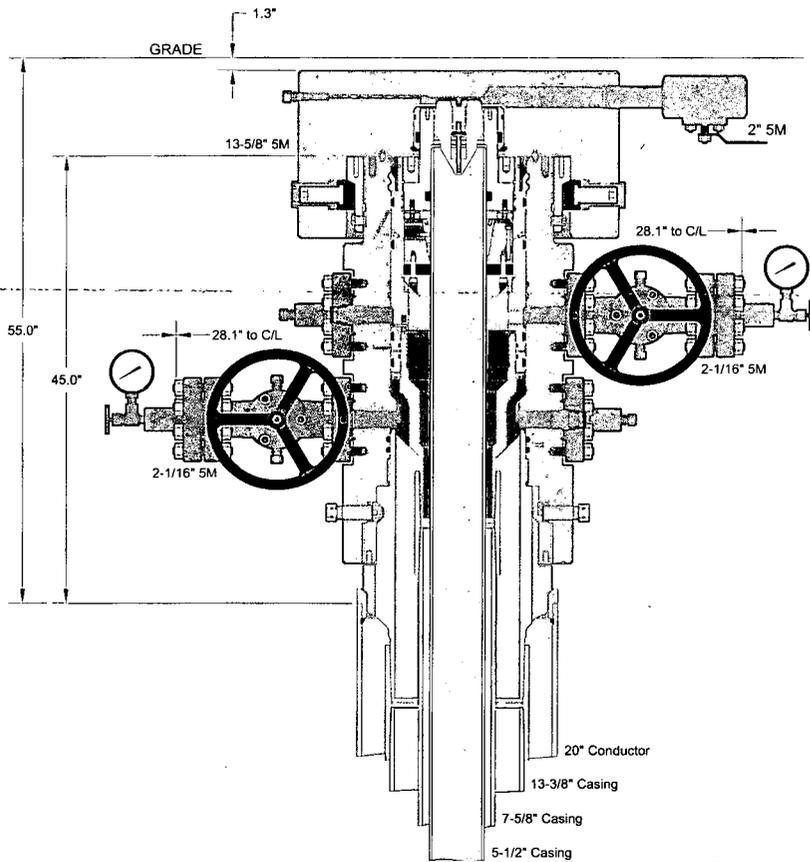
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

DEVON ENERGY CORPORATION
DELAWARE BASIN

20" x 13-3/8" x 7-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO Wellhead Sys.
With Quick Connect Top TA Cap, 5-1/2" Emergency Slip Hanger
And 13-5/8" 5M x 7-1/16" 10M CTH-DBLHPS Tubing Head

DRAWN
APPRV

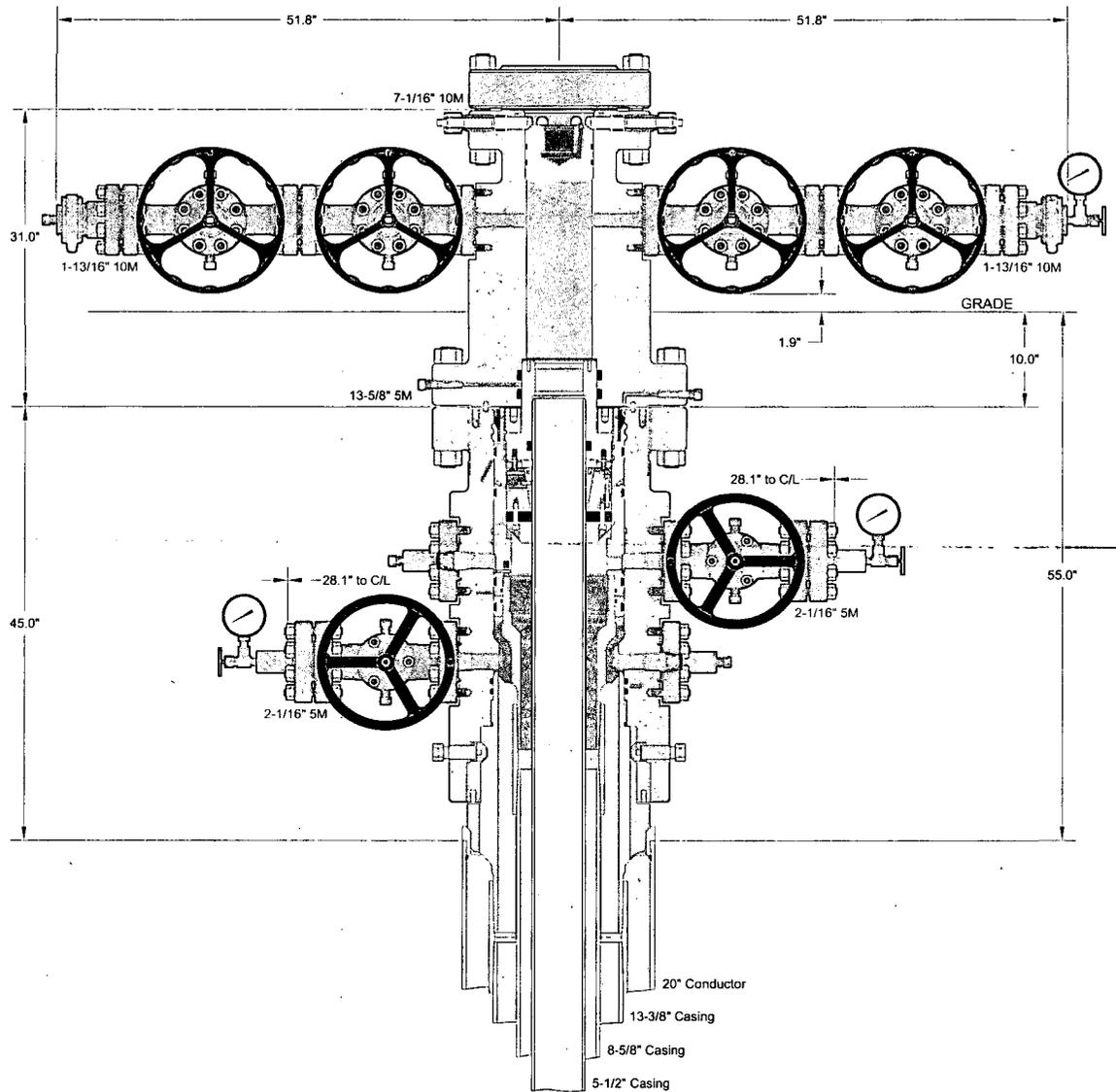
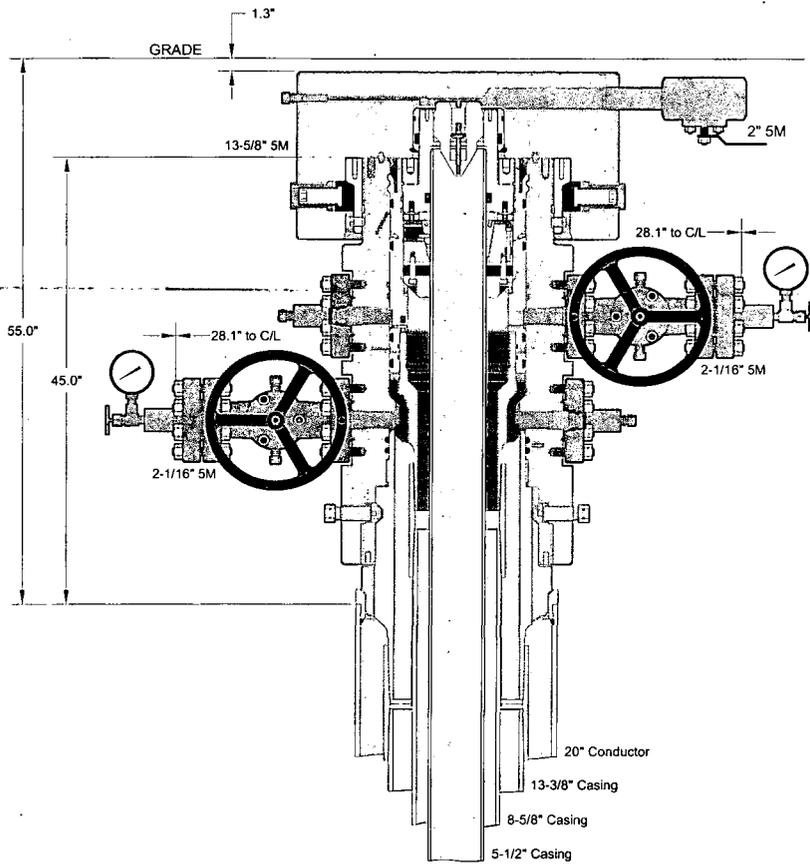
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2. Casing Program (Primary Design)

| 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 | 204 TVD | 13 3/8 | 48.0 | H40 | STC | 1.125 | 1.25 | 1.6 |
| 9 7/8 | 0 | 9634 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 | 204 TVD | 13 3/8 | 48.0 | H40 | STC | 1.125 | 1.25 | 1.6 |
| 9 7/8 | 0 | 9634 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.

| | Y or N |
|--|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1. | Y |
| Does casing meet API specifications? If no, attach casing specification sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | N |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? | Y |
| Is well located within Capitan Reef? | |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | N |
| Is well within the designated 4 string boundary. | |
| Is well located in SOPA but not in R-111-P? | |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? | N |
| Is well located in R-111-P and SOPA? | |
| If yes, are the first three strings cemented to surface? | N |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | |
| If yes, are there two strings cemented to surface? | N |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | |
| Is well located in critical Cave/Karst? | |
| If yes, are there three strings cemented to surface? | N |

3. Cementing Program (Primary Design)

| Casing | # Skis | TOC | Wt. (lb/gal) | Yld (ft ³ /sack) | Slurry Description |
|--|-----------|------------------|--------------|-----------------------------|--|
| Surface | 186 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 499 | 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 | 750 | 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 |
| | 225 | 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 |
| | 499 | Surf | 9 | 3.27 | Lead: Class C Cement + additives |
| | 783 | 4000' above shoe | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 299 | 0 | 9.0 | 3.3 | Lead: Class H / C + additives |
| | 695 | 9554 | 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 | 186 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 302 | 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 | 440 | 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 |
| | 141 | 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 |
| | 302 | 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) | 483 | Surf | 9 | 3.27 | Lead: Class C Cement + additives |
| | 768 | 4000' above shoe | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 557 | 0 | 9.0 | 3.3 | Lead: Class H / C + additives |
| | 1442 | 9554 | 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 | 13-5/8" | 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 |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Coring and Testing | |
|-----------------------------|---|
| X | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain. |
| | Coring? If yes, explain. |

| Additional logs planned | Interval |
|-------------------------|-------------------------|
| Resistivity | Int. shoe to KOP |
| Density | Int. shoe to KOP |
| X CBL | Production casing |
| X Mud log | Intermediate shoe to TD |
| PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 5526 |
| Abnormal temperature | No |

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

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

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

- Directional Plan
 Other, describe



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

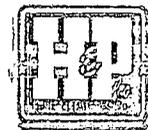
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittmoores Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



RIG 212



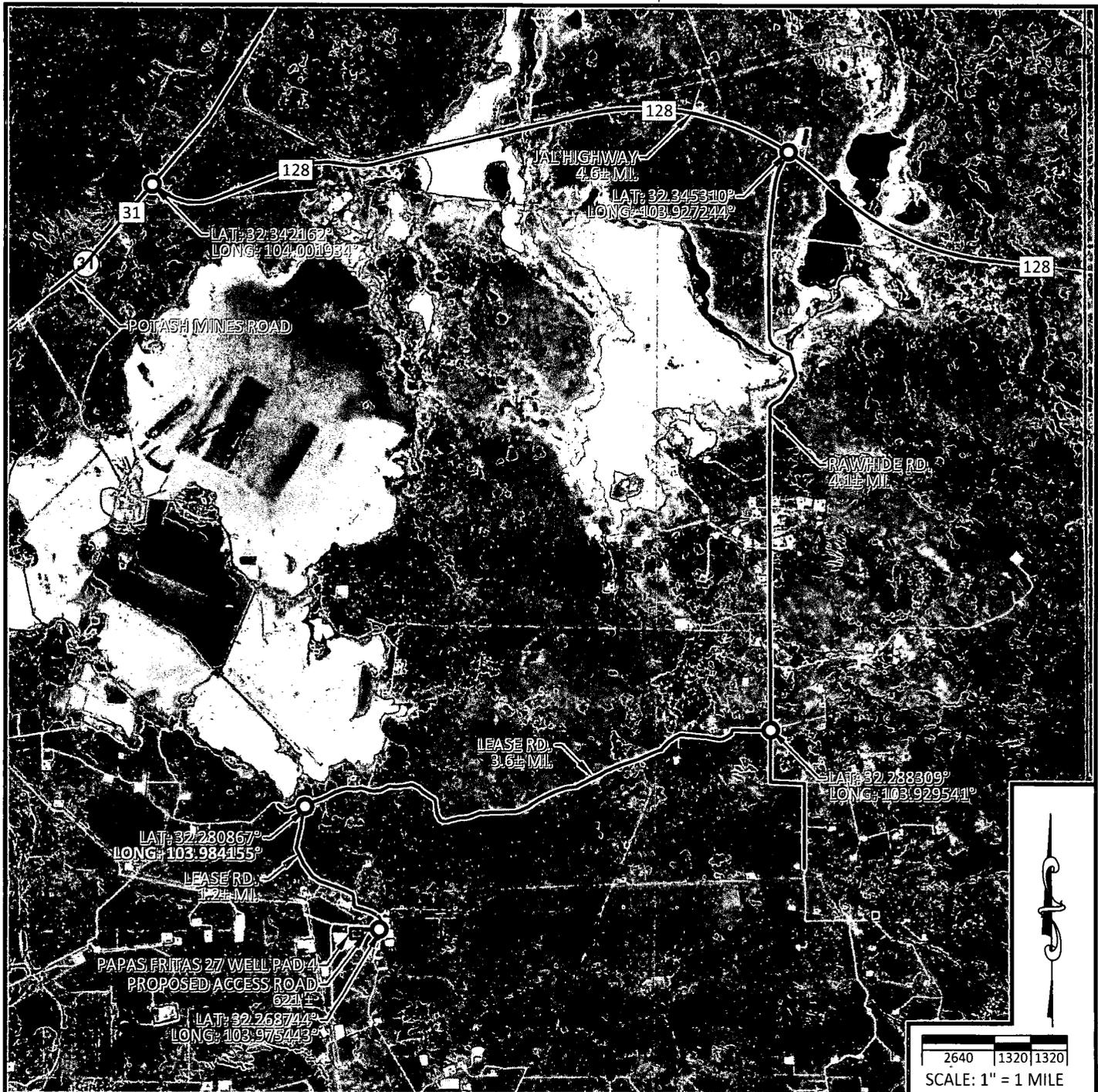
QUALITY DOCUMENT

PHOENIX RUBBER INDUSTRIAL LTD.

6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152
Phone: (3662) 566-737 • Fax: (3662) 566-738

SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44. Hungary • H-1440 Budapest, P. O. Box 26
Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerge.hu

| QUALITY CONTROL INSPECTION AND TEST CERTIFICATE | | | | CERT. N°: 552 | |
|---|-----------|----------------------------------|---|---------------------|--|
| PURCHASER: Phoenix Beattie Co. | | | P.O. N°: 1519FA-871 | | |
| PHOENIX RUBBER order N°: 170466 | | HOSE TYPE: 3" ID | | Choke and Kill Hose | |
| HOSE SERIAL N°: 34128 | | NOMINAL / ACTUAL LENGTH: 11,43 m | | | |
| W.P. 68,96 MPa 10000 pst | | T.P. 103,4 MPa 15000 pst | | Duration: 60 min. | |
| Pressure test with water at ambient temperature See attachment. (1 page) | | | | | |
| ↑ 10 mm = 10 Min. → 10 mm = 25 MPa | | | | | |
| COUPLINGS | | | | | |
| Type | Serial N° | | Quality | Heat N° | |
| 3" coupling with 4 1/16" Flange end | 720 719 | | AISI 4130 | C7626 | |
| | | | AISI 4130 | 47357 | |
| API Spec 16 C Temperature rate: "B" | | | | | |
| All metal parts are flawless | | | | | |
| WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT. | | | | | |
| Date: | Inspector | | Quality Control | | |
| 29. April. 2002. | | | PHOENIX RUBBER Industrial Ltd. Hose Inspection and Pressure Test Dept. PHOENIX RUBBER S.C. | | |



NOTES:

1. BASIS OF BEARINGS, COORDINATES AND DISTANCES ARE STATE PLANE GRID, NAD 83, NEW MEXICO EAST (3001) WITH A CONVERGENCE ANGLE OF 0.19373333° AND A COMBINED SCALE FACTOR OF 0.999779070 BASED ON CONTROL POINT HILLTOP AT N. 456034.443' E. 653560.641'.
2. UNITS REPRESENTED ON THIS PLAT ARE IN US SURVEY FEET.

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 128 (JAL HWY) AND RAWHIDE ROAD, HEAD SOUTH ON RAWHIDE ROAD FOR 4.10 MILES. TURN RIGHT ON AN EXISTING LEASE ROAD AND HEAD WEST FOR 3.55 MILES. TURN LEFT AND HEAD SOUTH ON AN EXISTING LEASE ROAD FOR 1.18 MILE TO THE PROPOSED PAD ACCESS ROAD. TURN RIGHT AND HEAD WEST FOR 621 FEET TO THE NORTHEAST POINT OF THE PROPOSED PAPAS FRITAS 27 WELL PAD 4.

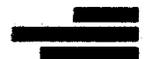


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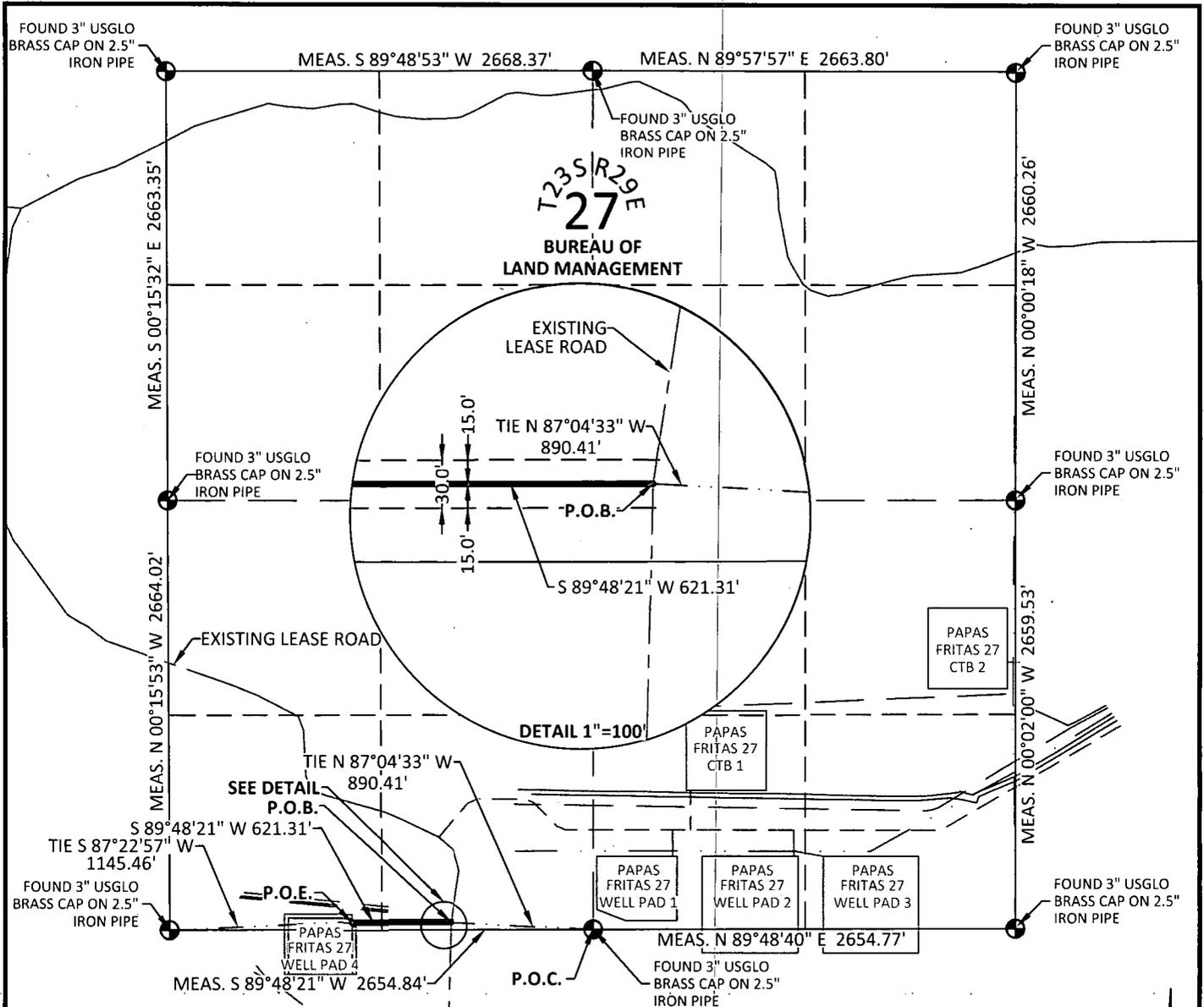
| | |
|------------------|-----------------|
| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 03/05/2019 | JOB NO: 18080 |
| REVISIONS: | |

**AERIAL ACCESS ROUTE MAP
 DEVON ENERGY PRODUCTION, L.P.**

PAPAS FRITAS 27-22 FED COM 621H
 LOCATED 102 FEET FROM THE NORTH LINE,
 AND 943 FEET FROM THE WEST LINE,
 SECTION 34, TOWNSHIP 23 SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



devon



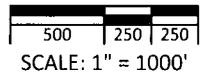
I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS EASEMENT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. IF ANY ALTERATIONS ARE MADE (HAND DRAWN, HANDWRITTEN OR DIGITAL ADDITIONS), THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

Albert R. Dehoyos
 05/22/2019
 ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE

**30' EASEMENT AREA = 0.428 ACRES
 621.31 FEET OR 37.66 RODS**

**0+00.00 P.O.B. - EXISTING LEASE ROAD
 6+21.31 P.O.E. - PAPAS FRITAS 27 WELL PAD 4**

P.O.C. = POINT OF COMMENCEMENT
 P.O.B. = POINT OF BEGINNING
 P.O.E. = POINT OF ENDING



NOTES:

- BEARINGS SHOWN ARE GRID BASED ON THE NEW MEXICO STATE PLANE EAST ZONE COORDINATE SYSTEM (3001), NAD 83 (2011), BASED FROM GPS OBSERVATIONS, OCCUPYING A WHS CONTROL POINT (5/8" REBAR), LOCATED AT NORTH: 456034.443, EAST: 653560.641, ELEVATION: 3101.373, DETERMINED BY AN OPUS SOLUTION ON DECEMBER 3RD, 2018.
- DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCE IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000220979

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| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 05/07/2019 | JOB NO: 18080 |
| REVISIONS: | |

DEVON ENERGY PRODUCTION, L.P.
 PAPAS FRITAS 27 WELL PAD 4
 ACCESS ROAD

PROPOSED 30' EASEMENT ON THE PROPERTY OF
 BUREAU OF LAND MANAGEMENT
 S1/2 SW1/4 SECTION 27,
 TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

PROPOSED 30' ACCESS ROAD EASEMENT:

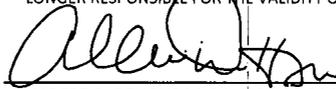
A strip of land located in the South Half (S1/2) of the Southwest Quarter (SW1/4) of Section 27, Township 23 South, Range 29 East, of the New Mexico Principal Meridian, Eddy county, State of New Mexico, being thirty feet (30') in width, lying fifteen feet (15') on each side of the following described centerline:

Commencing at the South Quarter Corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe); thence, North 87°04'33" West a distance of 890.41 feet to the POINT OF BEGINNING.

thence, South 89°48'21" West a distance of 621.31 feet to a point within the Southwest Quarter (SW1/4) of the Southwest Quarter (SW1/4) of said Section 27, also being the POINT OF ENDING, from which the Southwest Corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe) bears South 87°22'57" West a distance of 1145.46 feet.

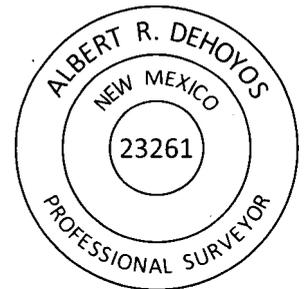
Said centerline being 621.31 feet or 37.66 rods in length and containing 0.428 Acres more or less.

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS EASEMENT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. IF ANY ALTERATIONS ARE MADE (HAND DRAWN, HANDWRITTEN OR DIGITAL ADDITIONS), THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.



05/22/2019

ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE



NOTES:

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2. DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCE IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000220979



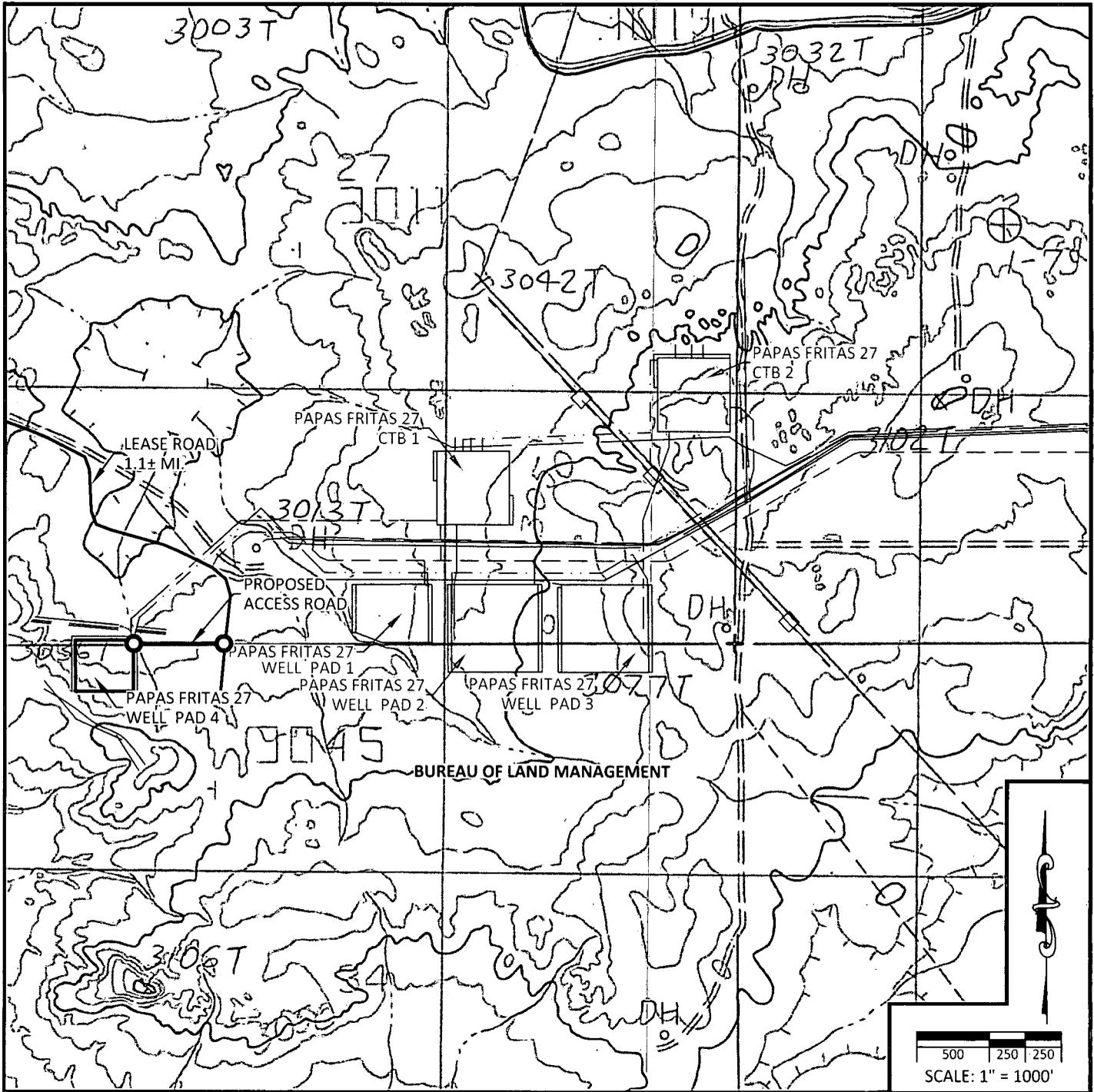
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| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 05/07/2019 | JOB NO: 18080 |
| REVISIONS: | |

DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 WELL PAD 4
ACCESS ROAD

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
S1/2 SW1/4, SECTION 27,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO





NOTES:

1. BASIS OF BEARINGS, COORDINATES AND DISTANCES ARE STATE PLANE GRID, NAD 83, NEW MEXICO EAST (3001) WITH A CONVERGENCE ANGLE OF 0.19373333° AND A COMBINED SCALE FACTOR OF 0.999779070 BASED ON CONTROL POINT HILLTOP AT N. 456034.443' E. 653560.641'.
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DIRECTIONS TO LOCATION

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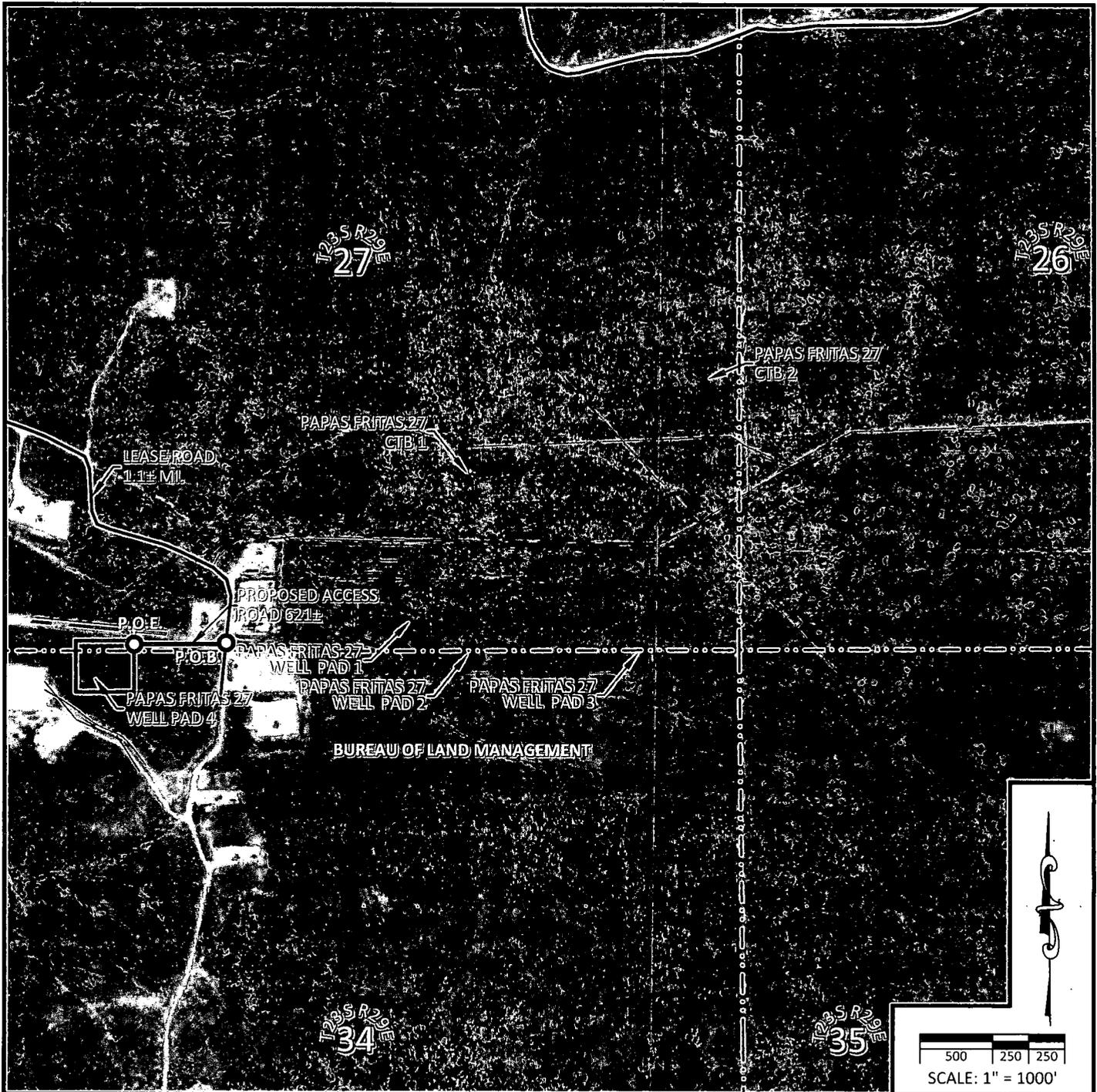
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|------------------|-----------------|
| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 05/07/2019 | JOB NO: 18080 |
| REVISIONS: | |

QUAD MAP
DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 WELL PAD 4
ACCESS ROAD

SECTION 34, TOWNSHIP 23 SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



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NOTES:

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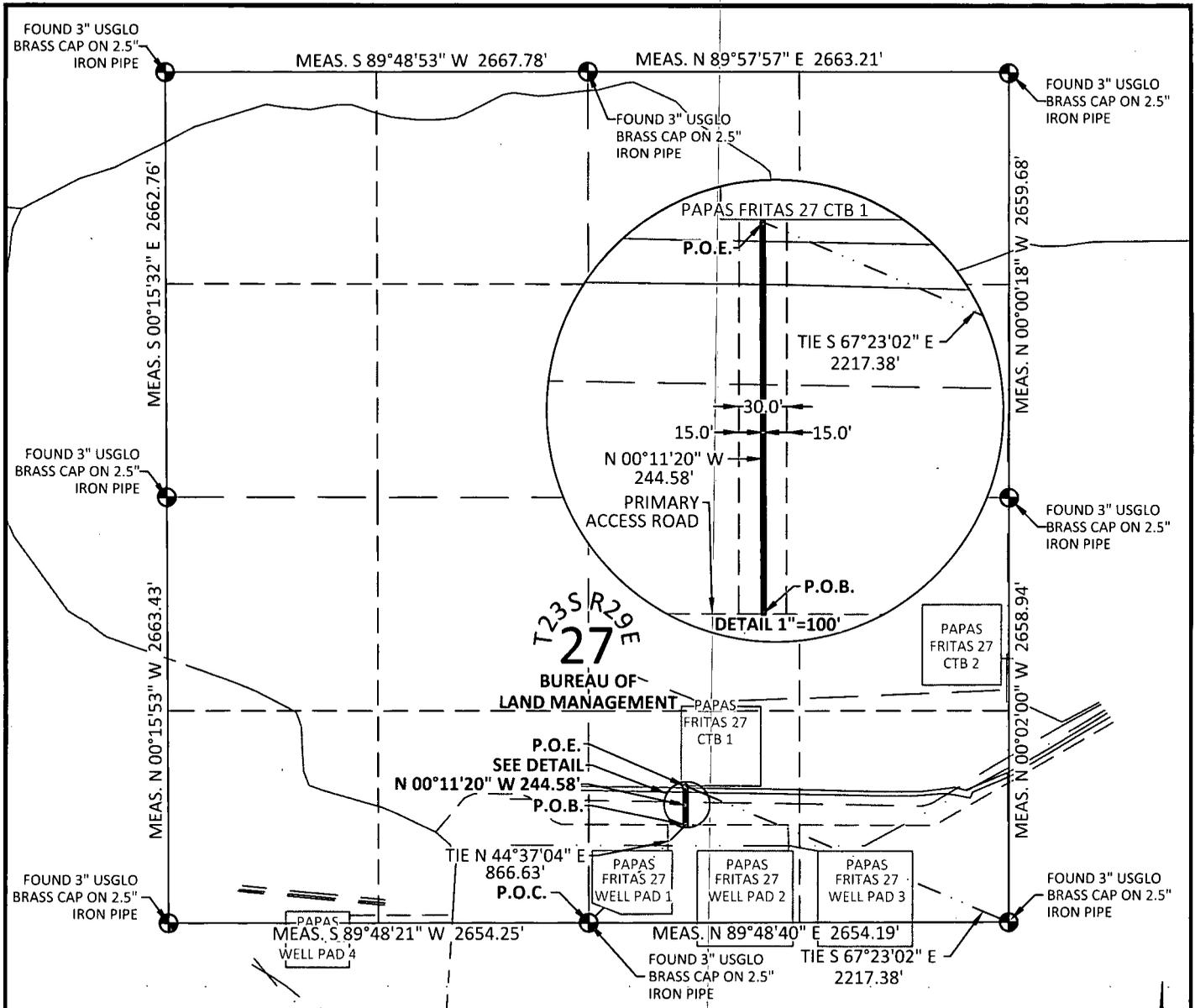
| | |
|------------------|-----------------|
| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 05/07/2019 | JOB NO: 18080 |
| REVISIONS: | |

AERIAL MAP
DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 WELL PAD 4
ACCESS ROAD

SECTION 34, TOWNSHIP 23 SOUTH
 RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO



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T23S R29E
27

BUREAU OF
LAND MANAGEMENT

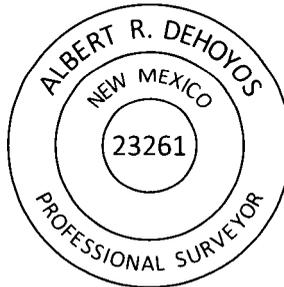
PAPAS
FRITAS 27
CTB 2

PAPAS
FRITAS 27
WELL PAD 1

PAPAS
FRITAS 27
WELL PAD 2

PAPAS
FRITAS 27
WELL PAD 3

PAPAS
WELL PAD 4



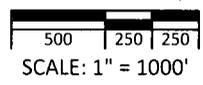
I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS EASEMENT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. IF ANY ALTERATIONS ARE MADE (HAND DRAWN, HANDWRITTEN OR DIGITAL ADDITIONS), THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

Albert R. Dehoyos
05/22/2019
ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE

30' EASEMENT AREA = 0.111 ACRES
244.53 FEET OR 14.82 RODS

0+00.00 P.O.B. - PROPOSED PRIMARY ACCESS ROAD
2+44.53 P.O.E. - PAPAS FRITAS 27 CTB 1

P.O.C. = POINT OF COMMENCEMENT
P.O.B. = POINT OF BEGINNING
P.O.E. = POINT OF ENDING



NOTES:

1. BEARINGS SHOWN ARE GRID BASED ON THE NEW MEXICO STATE PLANE EAST ZONE COORDINATE SYSTEM (3001), NAD 83 (2011), BASED FROM GPS OBSERVATIONS, OCCUPYING A WHS CONTROL POINT (5/8" REBAR), LOCATED AT NORTH: 457834.965, EAST: 670241.029, ELEVATION: 2306.69, DETERMINED BY AN OPUS SOLUTION ON DECEMBER 3RD, 2018.
2. DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCE IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000221019

| | |
|------------------|-----------------|
| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 05/06/2019 | JOB NO: 18080 |
| REVISIONS: | |

DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 CTB 1
ACCESS ROAD

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SW1/4 SE1/4, SECTION 27,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

PROPOSED 30' ACCESS ROAD EASEMENT:

A strip of land locate in the Southwest Quarter (SW1/4) of the Southeast Quarter (SE1/4) of Section 27, Township 23 South, Range 29 East, of the New Mexico Principal Meridian, Eddy county, State of New Mexico, being thirty feet (30') in width, lying fifteen feet (15') on each side of the following described centerline:

Commencing at the South Quarter (S1/4) corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe); thence, North 44°37'04" East a distance of 866.63" feet to the Point Of Beginning;

thence, North 00°11'20" East a distance of 244.58 feet to a point within the Southwest Quarter (SW1/4) of the Southeast Quarter (SE1/4) of said Section 27, also being the Point of Ending, from which the Southeast corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe) bears South 67°23'02" East a distance of 2217.38 feet.

Said centerline being 244.53 feet or 14.82 rods in length and containing 0.168 Acres more or less.

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS EASEMENT PLAT WAS DERIVED FROM FIELD NOTES OR ELECTRONIC DATA OF AN ON-THE-GROUND SURVEY MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. IF ANY ALTERATIONS ARE MADE (HAND DRAWN, HANDWRITTEN OR DIGITAL ADDITIONS), THIS SURVEYOR IS NO LONGER RESPONSIBLE FOR THE VALIDITY OF THIS PLAT.

05/22/2019

ALBERT R. DEHOYS NEW MEXICO PS No. 23261 DATE



NOTES:

1. BEARINGS SHOWN ARE GRID BASED ON THE NEW MEXICO STATE PLANE EAST ZONE COORDINATE SYSTEM (3001), NAD 83 (2011), BASED FROM GPS OBSERVATIONS, OCCUPYING A WHS CONTROL POINT (5/8" REBAR), LOCATED AT NORTH: 457834.965, EAST: 670241.029, ELEVATION: 2306.69, DETERMINED BY AN OPUS SOLUTION ON DECEMBER 3RD, 2018.
2. DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCE IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000221019



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| DRAWN BY: KGH | CHECKED BY: ARD |
| DATE: 05/06/2019 | JOB NO: 18080 |
| REVISIONS: | |

DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 CTB 1
ACCESS ROAD

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SW1/4 SE1/4, SECTION 27,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



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