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DISTRICT II-ARTESIA O.C.D.

Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM105557

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.
PAPA FRITAS 27-22 FED COM 332H

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY LP

9. API Well No.

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory
333 West Sheridan Avenue Oklahoma City OK 73102	(800)583-3866	DIAMONDTAIL / BONE SPRIING

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface SESW / 152 FSL / 1822 FEL / LAT 32.269009 / LONG -103.969909

At proposed prod. zone NENW / 20 FNL / 2178 FWL / LAT 32.97778 / LONG -103.97415

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 27 / T23S / R29E / NMP

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State
	EDDY	NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
152 feet	640	320

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
3000 feet	9970 feet / 20415 feet	FED: NMB000801

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3043 feet	05/19/2020	45 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	Erin Workman / Ph: (405)552-7970	06/23/2019

Title
Regulatory Compliance Professional

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	12/23/2019

Title	Office
Assistant Field Manager Lands & Minerals	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

RWS 1-10-2020

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 12/23/2019

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 I: 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 wen, 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 directionany 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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

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Additional Operator Remarks

Location of Well

1. SHL: SESW /152 FSL /1822 FEL /TWSP: 23S /RANGE: 29E /SECTION: 27 /LAT: 32.269009 /LONG: -103.969909 (TVD: 0 feet, MD: 0 feet)
   PPP: SWSE /100 FSL /2178 FWL /TWSP: 23S /RANGE: 29E /SECTION: 27 /LAT: 32.268867 /LONG: -103.947147 (TVD: 9631 feet, MD: 9766 feet)
   BHL: NENW /20 FNL /2178 FWL /TWSP: 23S /RANGE: 29E /SECTION: 22 /LAT: 32.97778 /LONG: -103.97415 (TVD: 9970 feet, MD: 20415 feet)

BLM Point of Contact

Name: Candy Vigil

Title: LIE

Phone: 5752345982

Email: cvigil@blm.gov

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.

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 332H
SURFACE HOLE FOOTAGE:	152'/S & 1822'/E
BOTTOM HOLE FOOTAGE	20'/N & 2178'/W
LOCATION:	Section 27, T.23 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

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

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.

    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.

2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing shall be set at approximately **8542 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.

    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 **8542 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.

Operator is approved to drill 10.625" hole instead of 9.875" for intermediate 1 with a BTC connection.

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 **3000 (3M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000 (3M)** 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 **3000 (3M)** 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 intergrity 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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)
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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.

Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads

☐ **Road Section Diagram**

☒ **Production (Post Drilling)**

Well Structures & Facilities
Pipelines
Electric Lines

☐ **Interim Reclamation**

☐ **Final Abandonment & Reclamation**

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 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, situating values 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 values, 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.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

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.

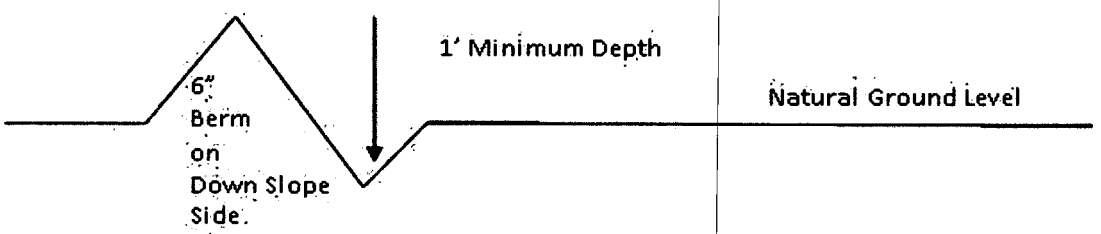
Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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.

Cross Section of a Typical 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 foot road with 4% road slope: $\frac{400'}{4\%} + 100' = 200'$ 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

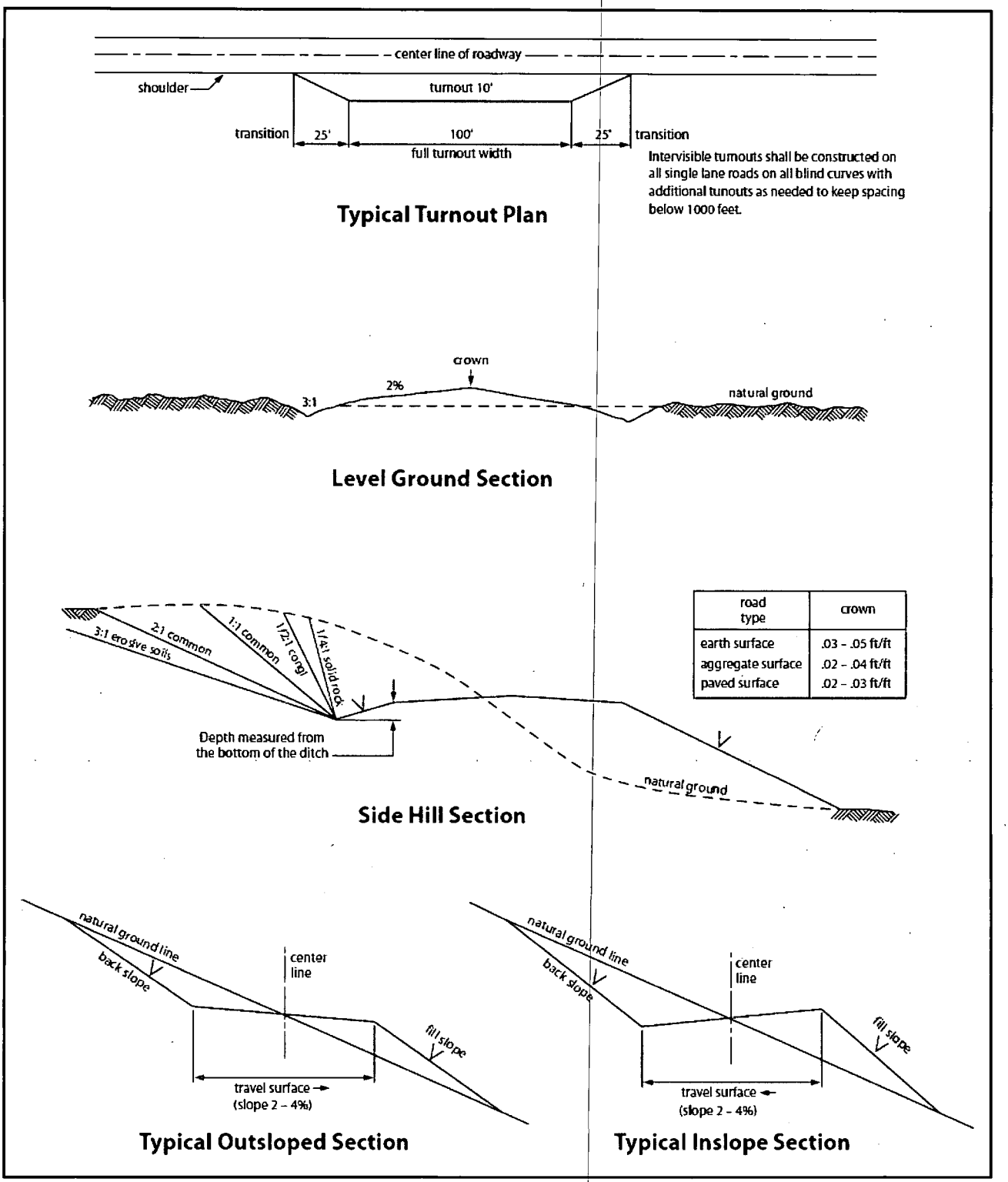


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

( ) seed mixture 1	( ) seed mixture 3
(X) seed mixture 2	( ) seed mixture 4
( ) seed mixture 2/LPC	( ) 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 deterrence 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.

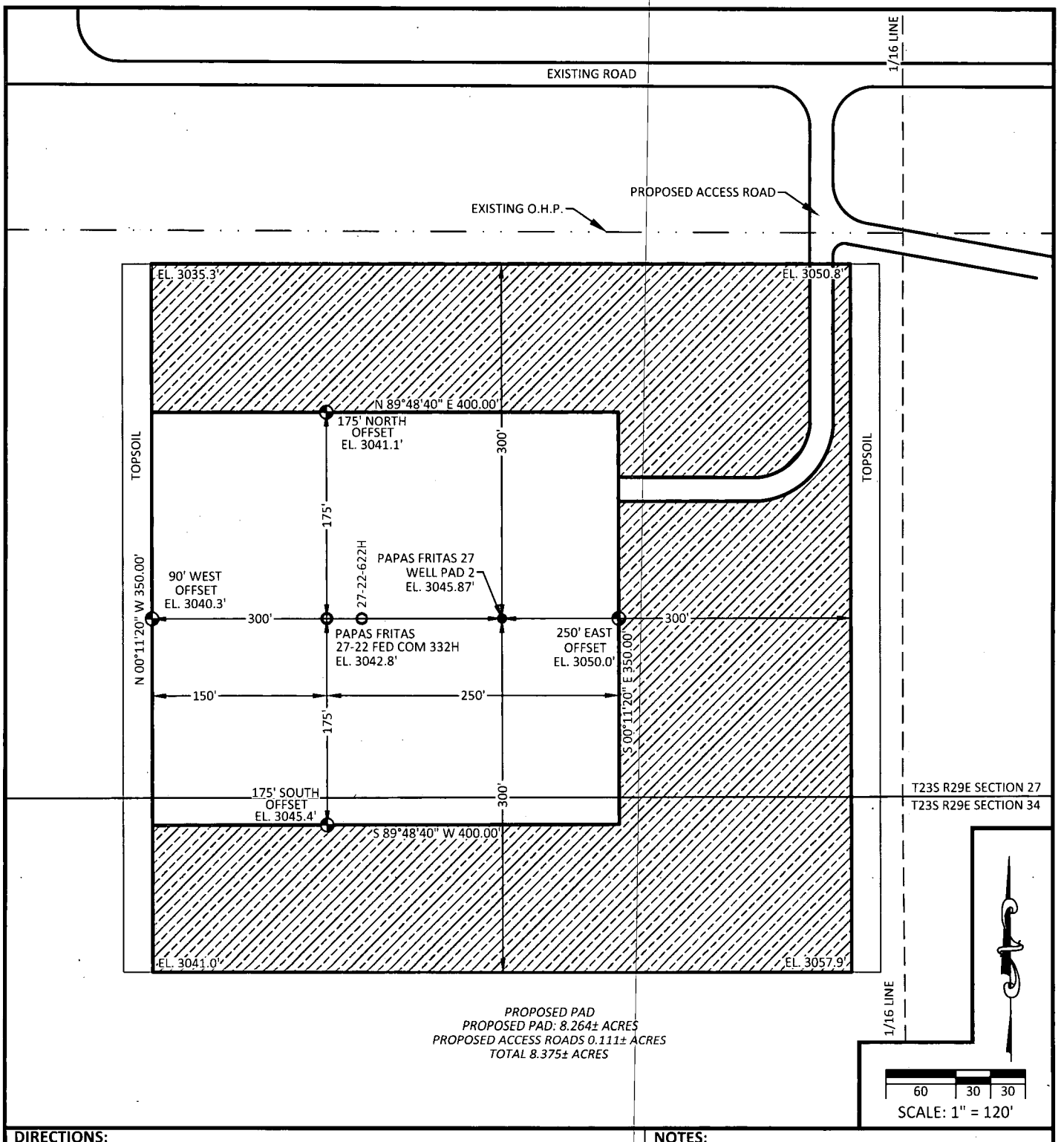
Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). 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:

Species	lb/acre
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



PROPOSED PAD
PROPOSED PAD: 8.264± ACRES
PROPOSED ACCESS ROADS 0.111± ACRES
TOTAL 8.375± ACRES

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 1.07 MILE TO THE PROPOSED ACCESS ROAD. TURN LEFT AND HEAD EAST ON THE PROPOSED ACCESS ROAD FOR 0.45 MILE TO THE TO THE WELL PAD 2 ACCESS ROAD. TURN RIGHT AND HEAD SOUTH FOR 161 FEET TO THE NORTHEAST POINT OF THE PROPOSED PAPAS FRITAS 27 WELL PAD 2.

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: 09/12/19 (CD) ADDED SUB PAD	

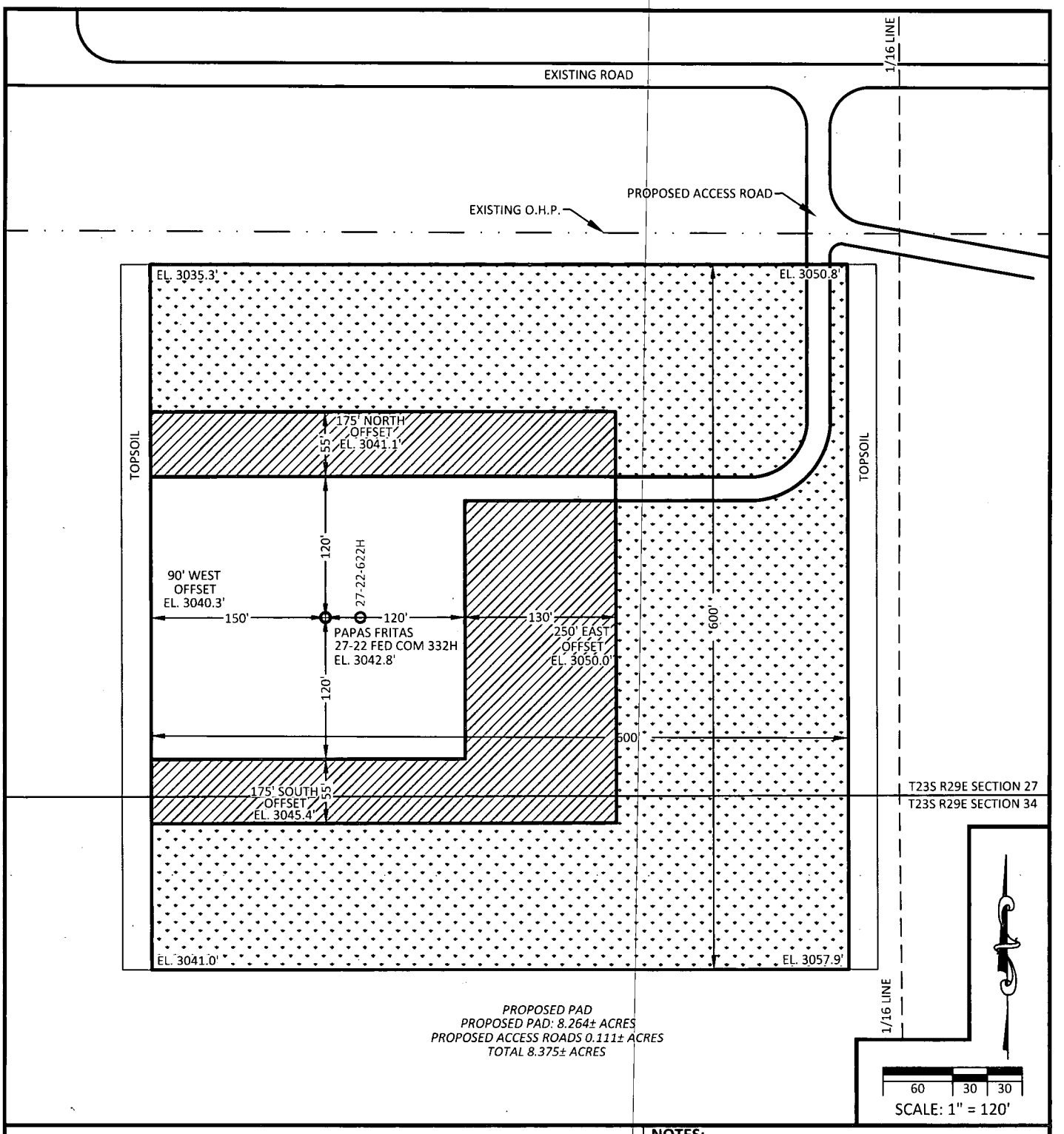
SITE MAP

DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27-22 FED COM 332H

LOCATED 152 FEET FROM THE SOUTH LINE,
AND 1822 FEET FROM THE EAST LINE,
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon



PROPOSED PAD
PROPOSED PAD: 8.264± ACRES
PROPOSED ACCESS ROADS 0.111± ACRES
TOTAL 8.375± ACRES

DENOTES INTERIM PAD RECLAMATION AREA

DENOTES GRADING SITE RECLAMATION AREA

1.665 ± ACRES INTERIM PAD RECLAMATION AREA
4.894 ± ACRES GRADING SITE RECLAMATION AREA
1.705 ± ACRES NON-RECLAIMED AREA
8.264 ± ACRES GRADING SITE RECLAMATION AREA

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REVISIONS: 09/12/19 (CD) ADDED SUB PAD	

INTERIM SITE BUILD PLAN
DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27-22 FED COM 332H
LOCATED 152 FEET FROM THE SOUTH LINE,
AND 1822 FEET FROM THE EAST LINE,
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

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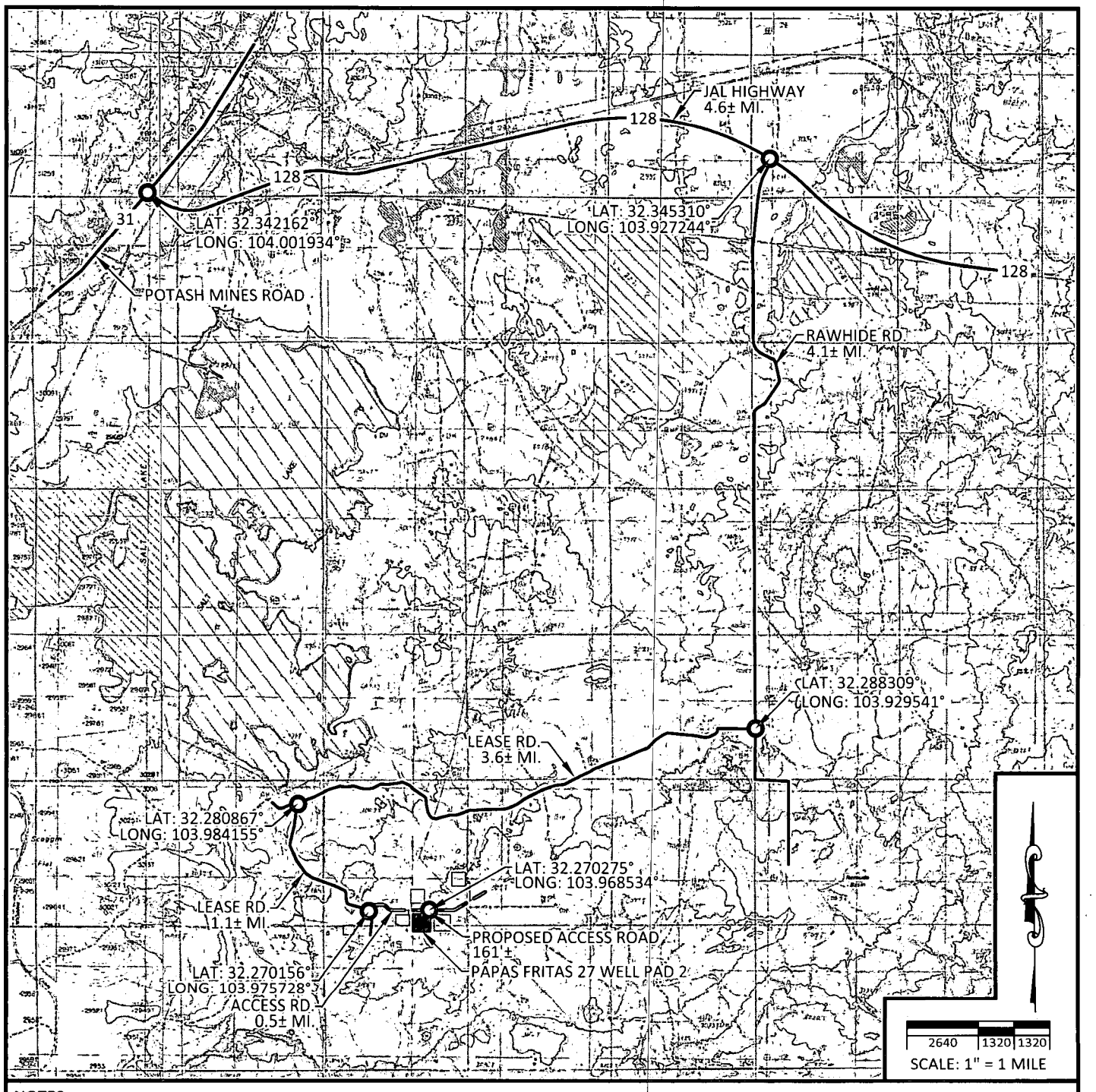

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REVISIONS:	

VICINITY MAP

DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27-22 FED COM 332H

LOCATED 152 FEET FROM THE SOUTH LINE,
AND 1882 FEET FROM THE EAST LINE,
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

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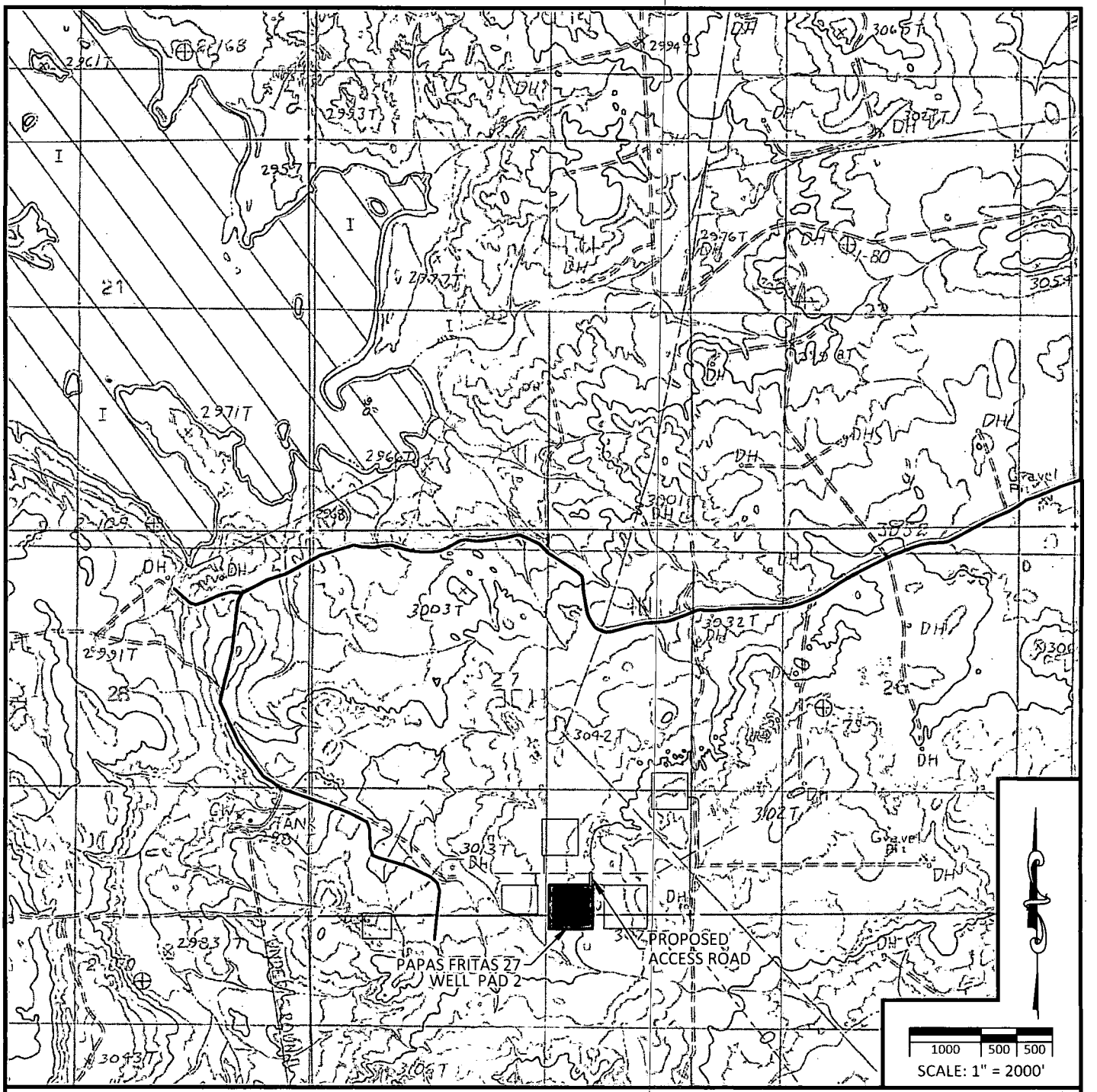

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LOCATION VERIFICATION MAP

DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27-22 FED COM 332H

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AND 1882 FEET FROM THE EAST LINE,
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

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AERIAL PHOTO

DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27-22 FED COM 332H

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EDDY COUNTY, STATE OF NEW MEXICO

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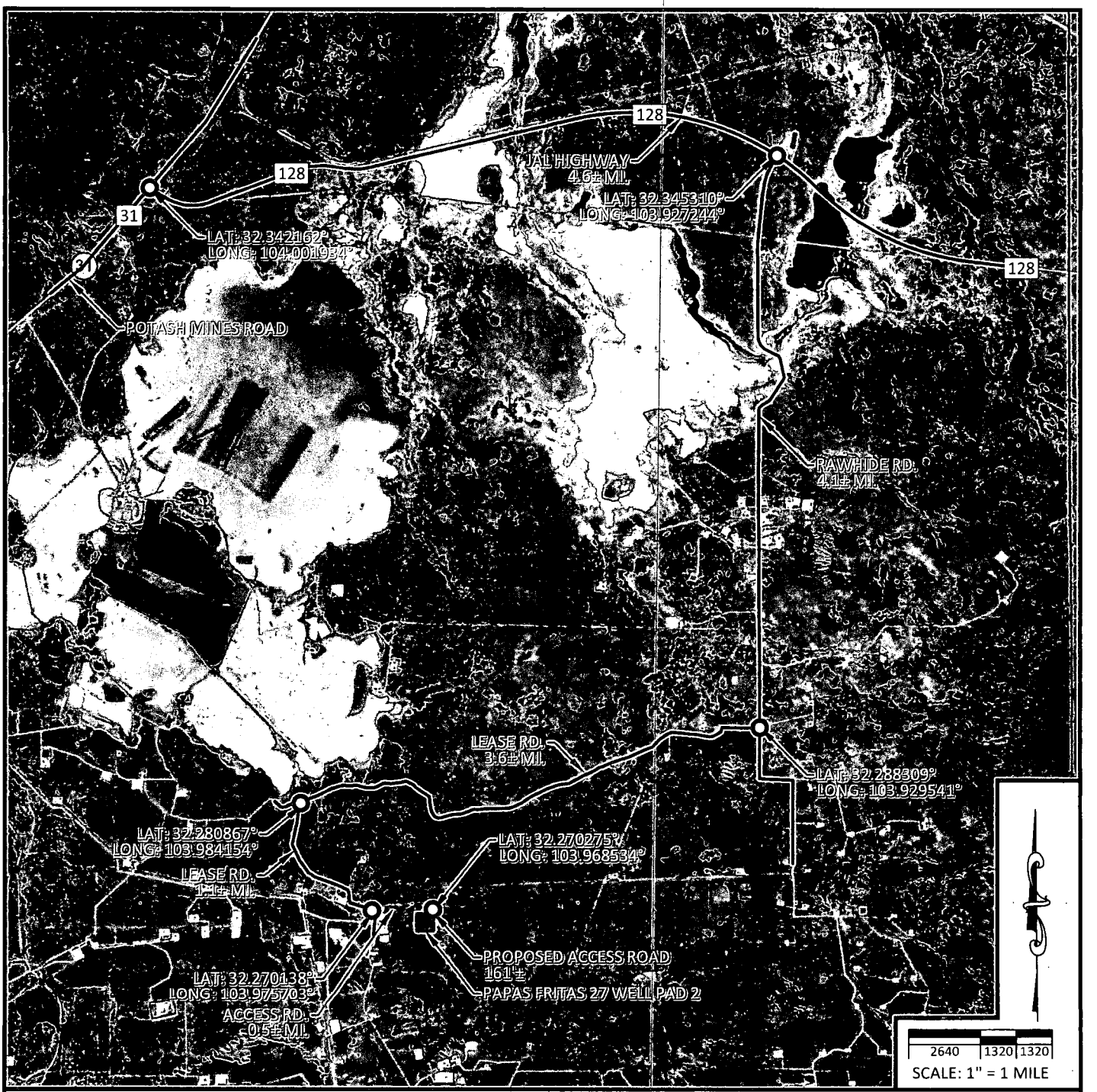

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AERIAL ACCESS ROUTE MAP

DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27-22 FED COM 332H

LOCATED 152 FEET FROM THE SOUTH LINE,
AND 1882 FEET FROM THE EAST LINE,
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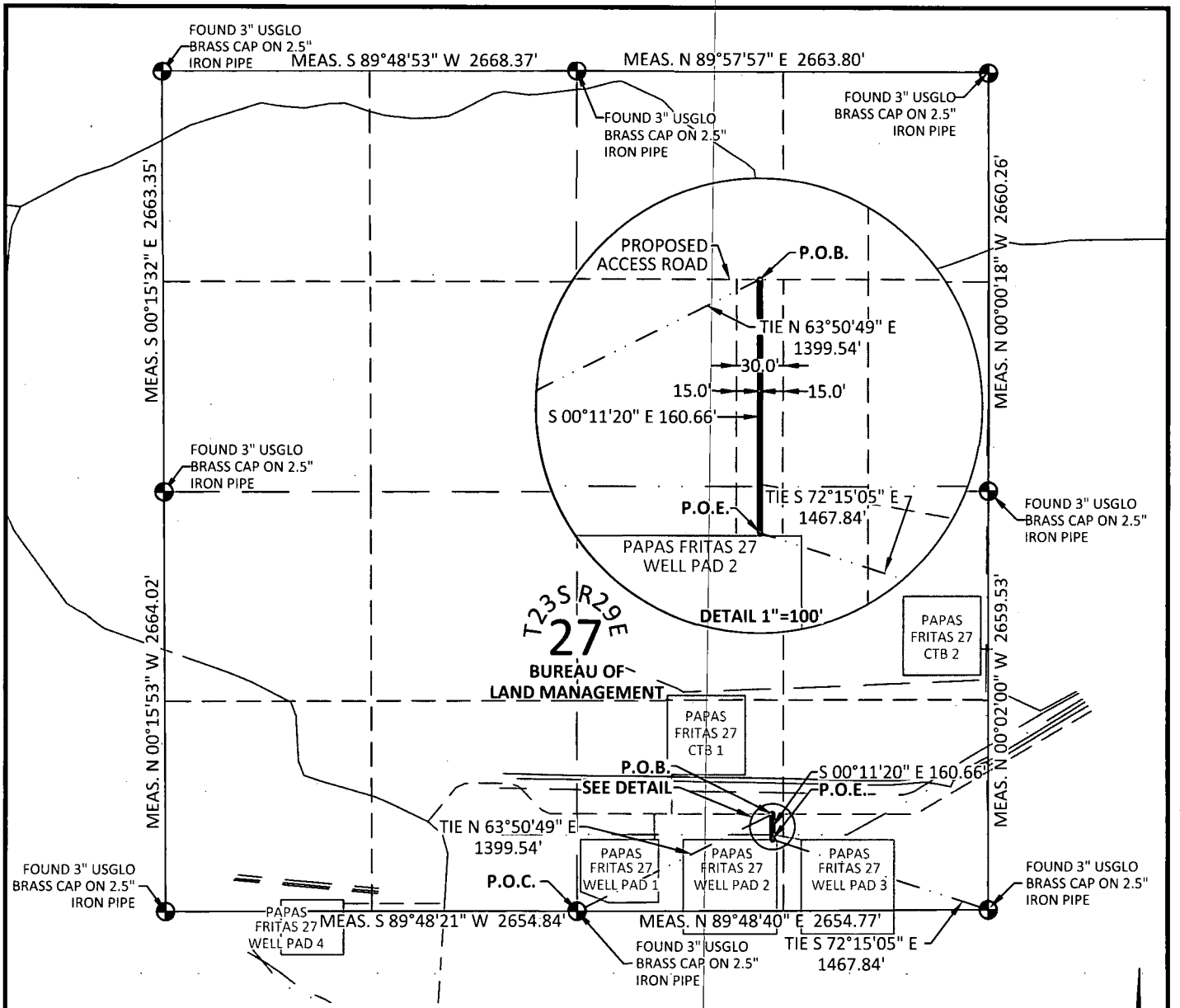

ALBERT R. DEHOYOS NEW MEXICO 23261 PROFESSIONAL SURVEYOR

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.

04/29/2019

ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE

30' EASEMENT AREA = 0.111 ACRES
160.66 FEET OR 9.74 RODS

0+00.00 P.O.B. - PROPOSED ACCESS ROAD
1+60.66 P.O.E. - PAPAS FRITAS 27 WELL PAD 2

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

500 | 250 | 250
SCALE: 1" = 1000'

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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DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27 WELL PAD 2
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

devon

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 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 Corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe); thence, North 63°50'49" East a distance of 1399.54' feet to the POINT OF BEGINNING;

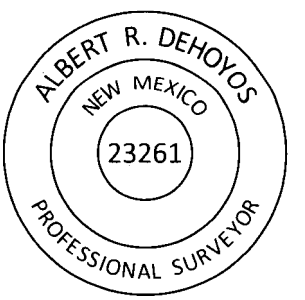
thence, South 00°11'20" East a distance of 160.66 feet to a point within the Southwest Quarter (SW1/4) of the Southeast Quarter (SE1/4) of said Section 27, also being the POINT OF ENDING, from which the Southeast Corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe) bears South 72°15'05" East a distance of 1467.84 feet.

Said centerline being 160.66 feet or 9.74 rods in length and containing 0.111 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.

04/29/2019

ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE



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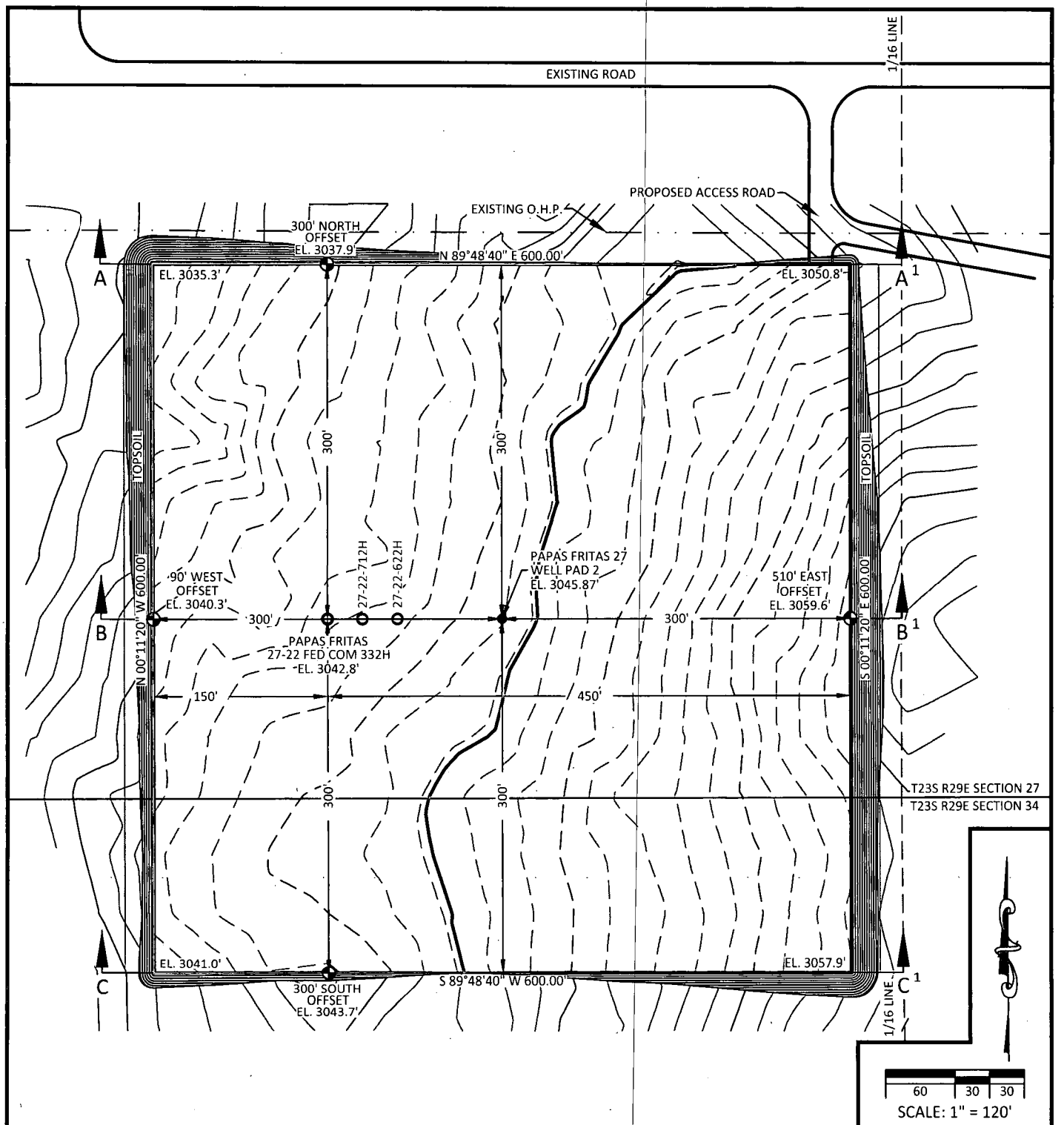
DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 WELL PAD 2
ACCESS ROAD

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

devon



EARTHWORK QUANTITIES FOR PAPAS FRITAS 27 WELL PAD 2

CUT	FILL	NET
33,069 CU. YDS.	33,069 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:	

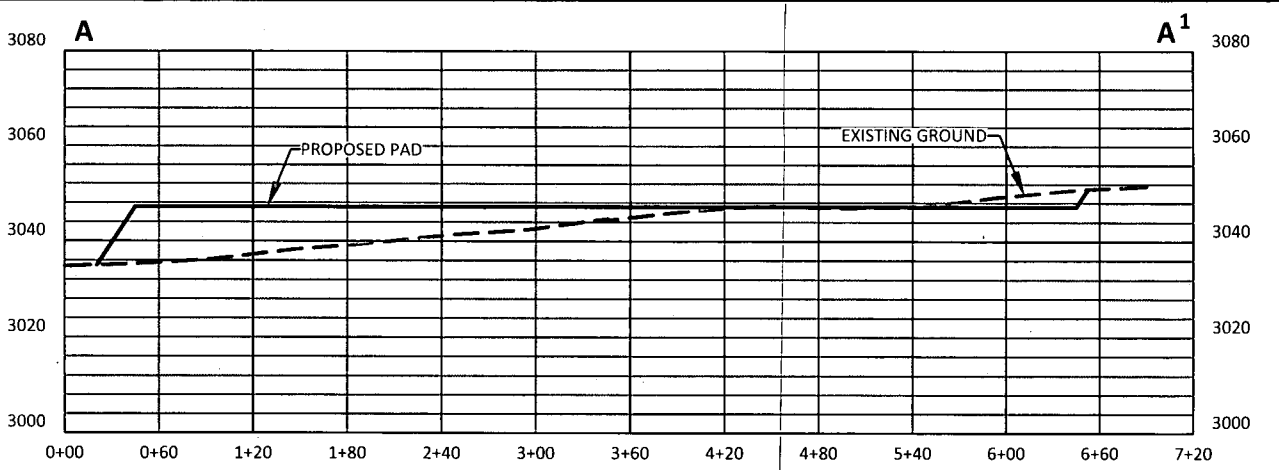
PLAN VIEW

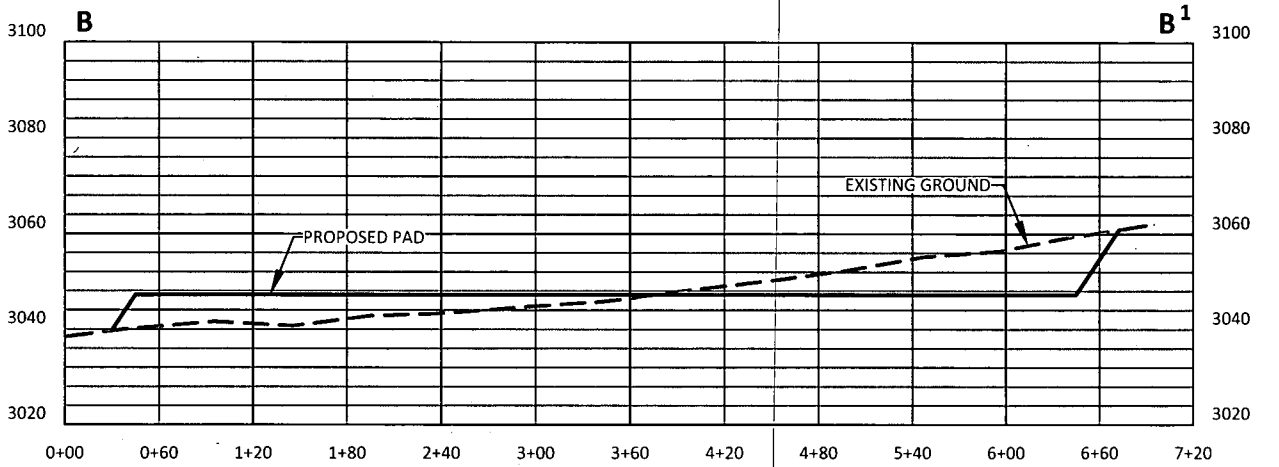
DEVON ENERGY PRODUCTION, L.P.

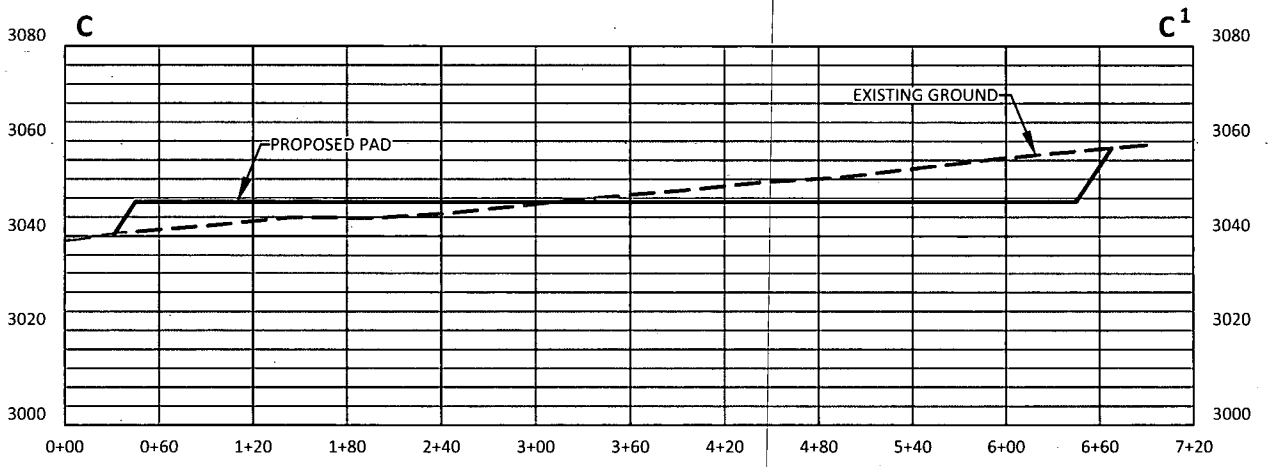
PAPAS FRITAS 27-22 FED COM 332H

LOCATED 152 FEET FROM THE SOUTH LINE,
AND 1822 FEET FROM THE EAST LINE,
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon



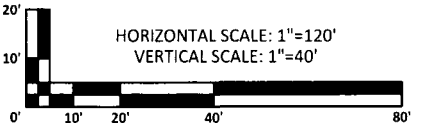




EARTHWORK QUANTITIES FOR
PAPAS FRITAS 27 WELL PAD 2

CUT	FILL	NET
33,069 CU. YDS.	33,069 CU. YDS.	0 CU. YDS.

EARTHWORK QUANTITIES ARE ESTIMATED



WHS
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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:	

CROSS SECTIONS

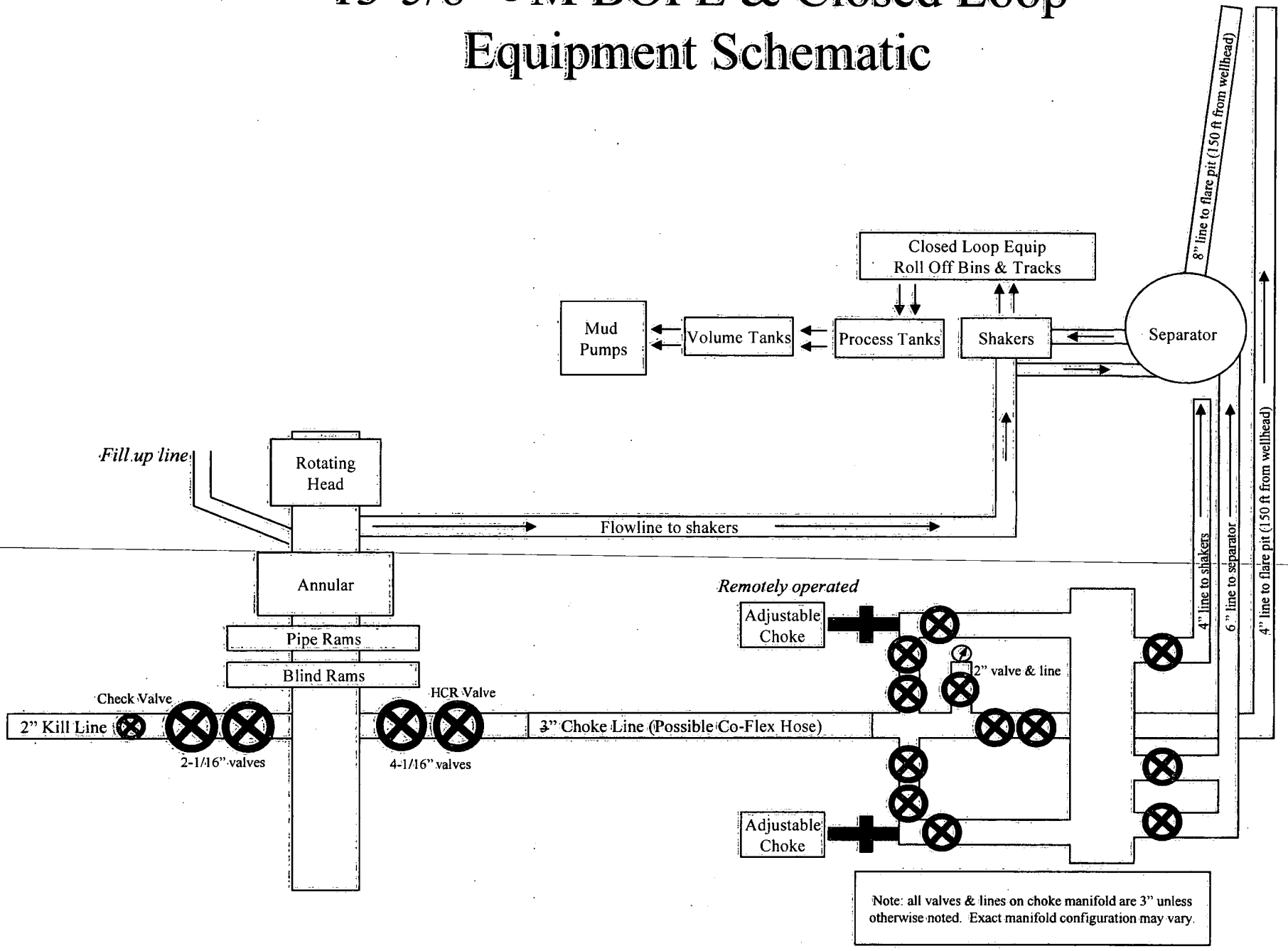
DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27-22 FED COM 332H

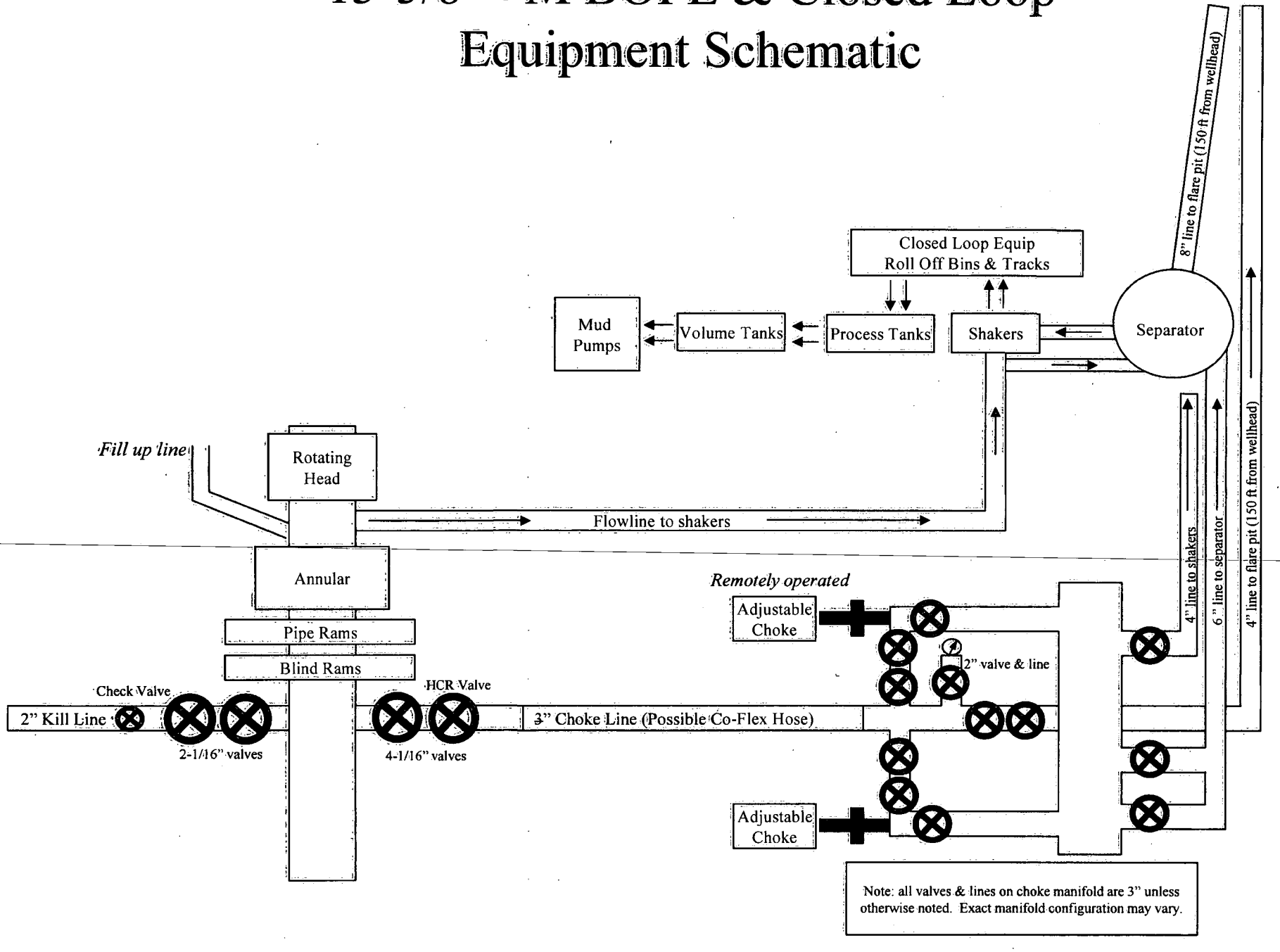
LOCATED 152 FEET FROM THE SOUTH LINE,
AND 1822 FEET FROM THE EAST LINE,
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon

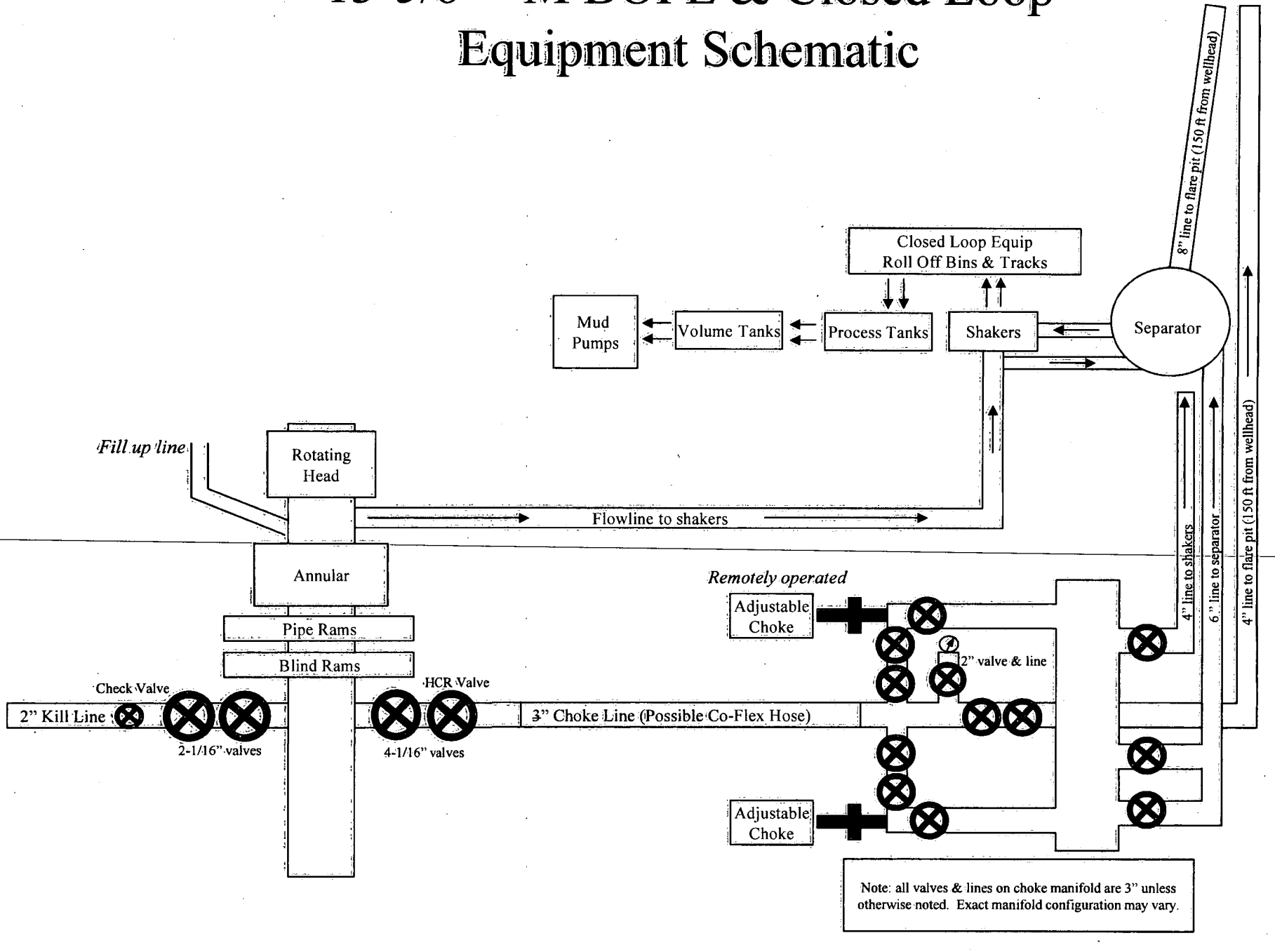
13-5/8" 5M BOPE & Closed Loop Equipment Schematic



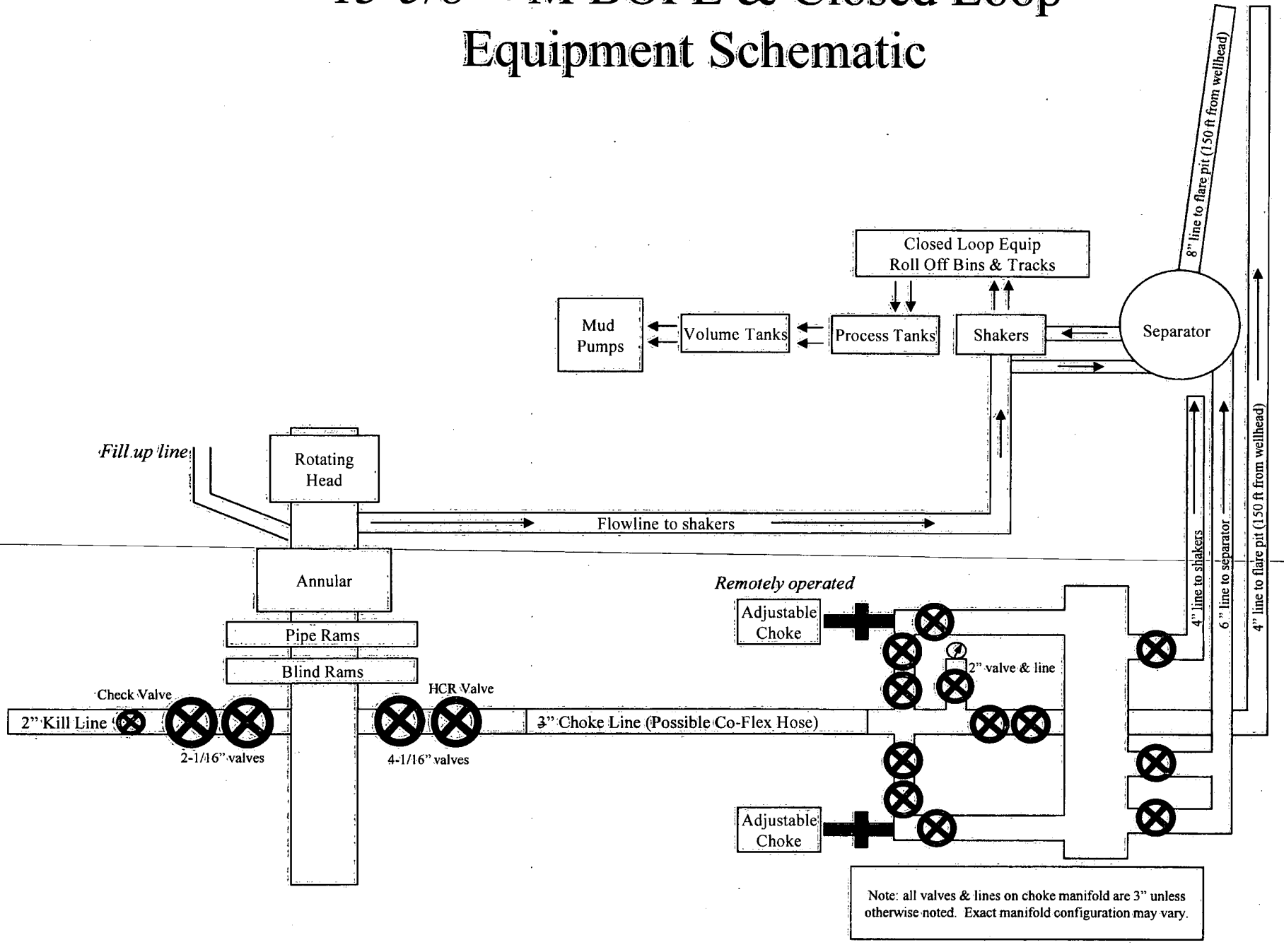
13-5/8" 5M BOPE & Closed Loop Equipment Schematic



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

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

Hydrogen Sulfide (H_2S) Contingency Plan

For

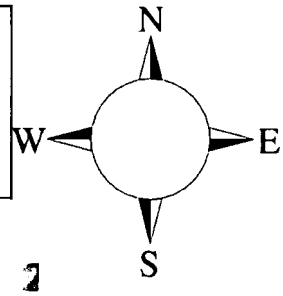
Papas Fritas 27-22 Fed Com 332H

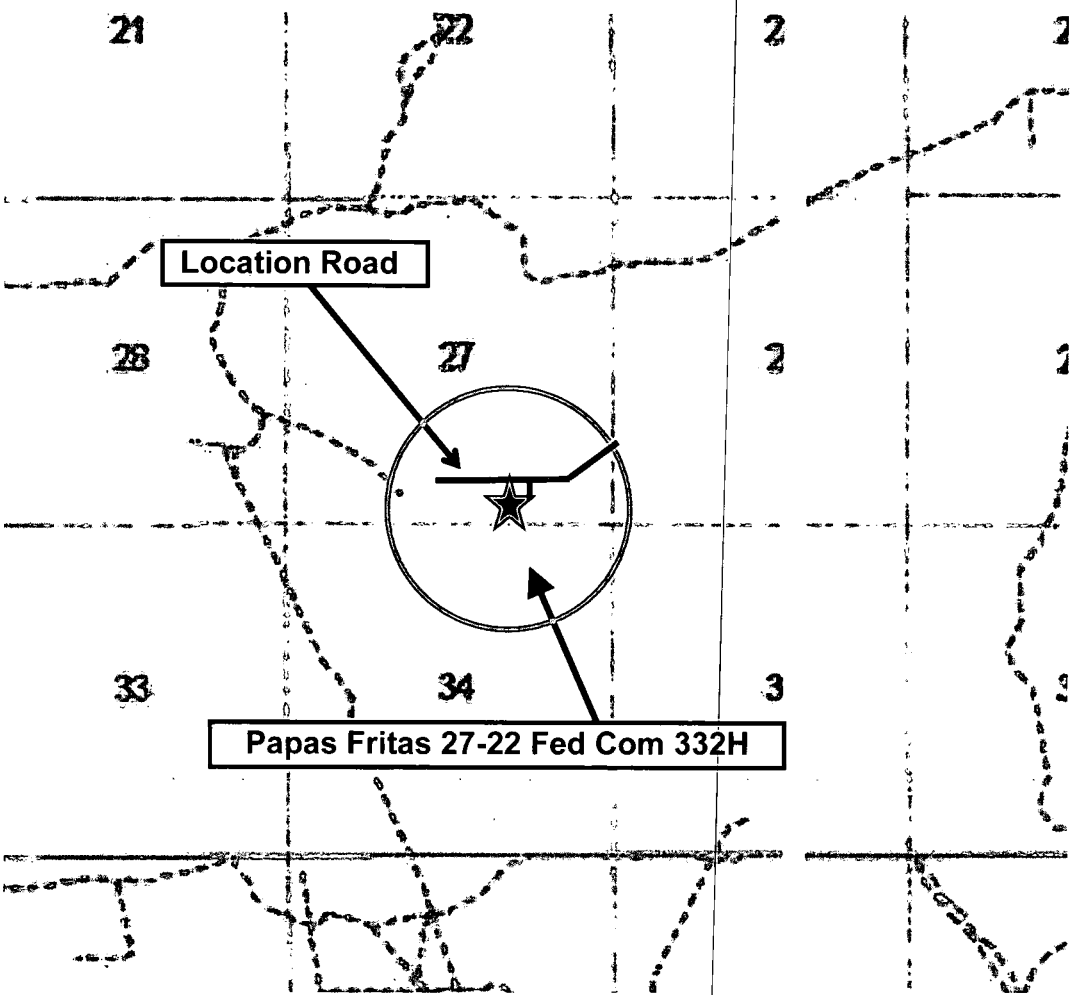
Sec-27 T-23S R-29E
152' FSL & 1822' FEL
LAT. = 32.269009' N (NAD83)
LONG = 103.969909' W

Eddy County NM

Papas Fritas 27-22 Fed Com 332H

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S, including warning signs, wind indicators and H_2S 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.

the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H_2S) 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 (H_2S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H_2S 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 H_2S 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 H_2S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S 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 H_2S.

4. **Mud program:**

   The mud program has been designed to minimize the volume of H_2S circulated to surface. Proper mud weight, safe drilling practices and the use of H_2S scavengers will minimize hazards when penetrating H_2S bearing zones.

5. **Metallurgy:**

   A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H_2S trim.

   B. All elastomers used for packing and seals shall be H_2S 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 H_2S environment will use the closed chamber method of testing.

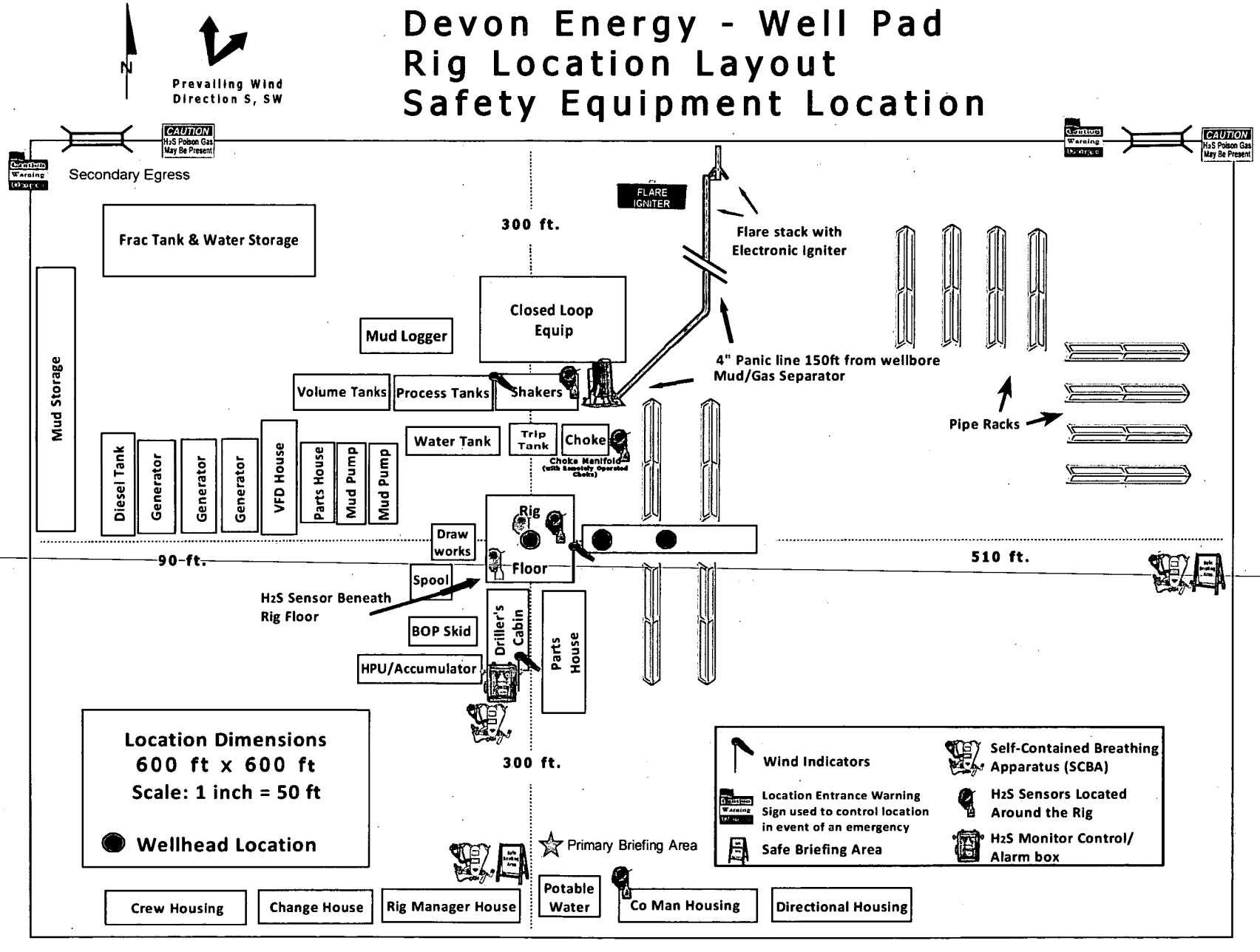
   B. There will be no drill stem testing.

Devon Energy Corp. Company Call List			
Drilling Supervisor – Basin – Mark Kramer			405-823-4796
EHS Professional – Laura Wright			405-439-8129
Agency Call List			
Lea County (575)	**Hobbs**		
	Lea County Communication Authority		393-3981
	State Police		392-5588
	City Police		397-9265
	Sheriff's Office		393-2515
	Ambulance		**911**
	Fire Department		397-9308
	LEPC (Local Emergency Planning Committee)		393-2870
	NMOCD		393-6161
	US Bureau of Land Management		393-3612
Eddy County (575)	**Carlsbad**		
	State Police		885-3137
	City Police		885-2111
	Sheriff's Office		887-7551
	Ambulance		**911**
	Fire Department		885-3125
	LEPC (Local Emergency Planning Committee)		887-3798
	US Bureau of Land Management		887-6544
	NM Emergency Response Commission (Santa Fe)		(505) 476-9600
	24 HR		(505) 827-9126
	National Emergency Response Center		(800) 424-8802
	National Pollution Control Center: Direct		(703) 872-6000
	For Oil Spills		(800) 280-7118
	Emergency Services		
	Wild Well Control		(281) 784-4700
	Cudd Pressure Control	(915) 699-0139	(915) 563-3356
	Halliburton		(575) 746-2757
	B. J. Services		(575) 746-3569
Give GPS position:	Native Air – Emergency Helicopter – Hobbs (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

SHARP
communications and consulting

Devon Energy - Well Pad
Rig Location Layout
Safety Equipment Location



Devon Energy

WELL DETAILS: Papas Fritas 27-22 Fed Com 332H

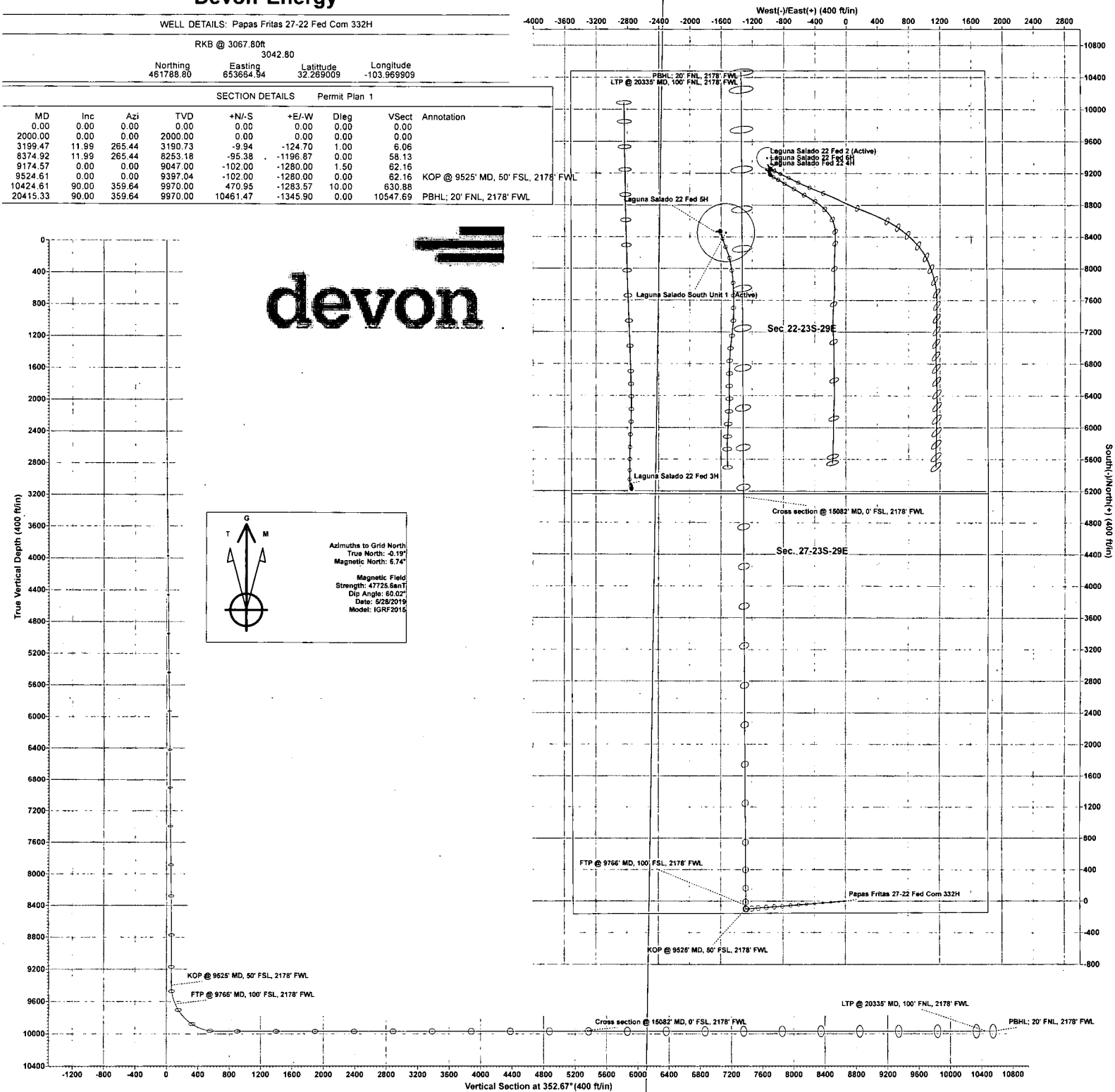
RKB @ 3067.80ft
3042.80

Northing	Easting	Latitude	Longitude
461788.80	653664.94	32.269009	-103.969909

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	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	
3199.47	11.99	265.44	3190.73	-9.94	-124.70	1.00	6.06	
8374.92	11.99	265.44	8253.18	-95.38	-1196.87	0.00	58.13	
9174.57	0.00	0.00	9047.00	-102.00	-1280.00	1.50	62.16	
9524.61	0.00	0.00	9397.04	-102.00	-1280.00	0.00	62.16	KOP @ 9525' MD, 50' FSL, 2178' FWL
10424.61	90.00	359.64	9970.00	470.95	-1283.57	10.00	630.88	
20415.33	90.00	359.64	9970.00	10461.47	-1345.90	0.00	10547.69	PBHL; 20' FNL, 2178' FWL

devon



WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)
Sec 27-T23S-R29E
Papas Fritas 27-22 Fed Com 332H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

03 June, 2019

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference**	Well Papas Fritas 27-22 Fed Com 332H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3067.80ft
Project:	Eddy County (NAD 83 NM Eastern)	**MD Reference:**	RKB @ 3067.80ft
Site:	Sec 27-T23S-R29E	**North Reference:**	Grid
Well:	Papas Fritas 27-22 Fed Com 332H	**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 332H

Well Position	**+N/-S**	0.00 ft	**Northing:**	461,788.80 usft	**Latitude:**	32.269009
	+E/-W	0.00 ft	**Easting:**	653,664.94 usft	**Longitude:**	-103.969909
Position Uncertainty		0.50 ft	**Wellhead Elevation:**		**Ground Level:**	3,042.80 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/28/2019	6.93	60.02	47,725.55480431

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	352.67

Plan Survey Tool Program **Date** 6/3/2019

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,415.33	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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,199.47	11.99	265.44	3,190.73	-9.94	-124.70	1.00	1.00	0.00	265.44	
8,374.92	11.99	265.44	8,253.18	-95.38	-1,196.87	0.00	0.00	0.00	0.00	
9,174.57	0.00	0.00	9,047.00	-102.00	-1,280.00	1.50	-1.50	0.00	180.00	
9,524.61	0.00	0.00	9,397.04	-102.00	-1,280.00	0.00	0.00	0.00	0.00	
10,424.61	90.00	359.64	9,970.00	470.95	-1,283.57	10.00	10.00	0.00	359.64	PBHL - Papas Fritas 2
20,415.33	90.00	359.64	9,970.00	10,461.47	-1,345.90	0.00	0.00	0.00	0.00	PBHL - Papas Fritas 2

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference**	Well Papas Fritas 27-22 Fed Com 332H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3067.80ft
Project:	Eddy County (NAD 83 NM Eastern)	**MD Reference:**	RKB @ 3067.80ft
Site:	Sec 27-T23S-R29E	**North Reference:**	Grid
Well:	Papas Fritas 27-22 Fed Com 332H	**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	461,788.80	653,664.94	32.269009	-103.969909
100.00	0.00	0.00	100.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
200.00	0.00	0.00	200.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
300.00	0.00	0.00	300.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
400.00	0.00	0.00	400.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
500.00	0.00	0.00	500.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
600.00	0.00	0.00	600.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
700.00	0.00	0.00	700.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
800.00	0.00	0.00	800.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
900.00	0.00	0.00	900.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,000.00	0.00	0.00	1,000.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,100.00	0.00	0.00	1,100.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,200.00	0.00	0.00	1,200.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,300.00	0.00	0.00	1,300.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,400.00	0.00	0.00	1,400.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,500.00	0.00	0.00	1,500.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,600.00	0.00	0.00	1,600.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,700.00	0.00	0.00	1,700.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,800.00	0.00	0.00	1,800.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
1,900.00	0.00	0.00	1,900.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
2,000.00	0.00	0.00	2,000.00	0.00	0.00	461,788.80	653,664.94	32.269009	-103.969909
2,100.00	1.00	265.44	2,099.99	-0.07	-0.87	461,788.73	653,664.07	32.269009	-103.969912
2,200.00	2.00	265.44	2,199.96	-0.28	-3.48	461,788.52	653,661.47	32.269009	-103.969920
2,300.00	3.00	265.44	2,299.86	-0.62	-7.83	461,788.18	653,657.12	32.269008	-103.969934
2,400.00	4.00	265.44	2,399.68	-1.11	-13.91	461,787.69	653,651.03	32.269006	-103.969954
2,500.00	5.00	265.44	2,499.37	-1.73	-21.73	461,787.07	653,643.21	32.269005	-103.969979
2,600.00	6.00	265.44	2,598.90	-2.49	-31.29	461,786.31	653,633.66	32.269003	-103.970010
2,700.00	7.00	265.44	2,698.26	-3.39	-42.57	461,785.41	653,622.37	32.269000	-103.970047
2,800.00	8.00	265.44	2,797.40	-4.43	-55.58	461,784.37	653,609.36	32.268998	-103.970089
2,900.00	9.00	265.44	2,896.30	-5.60	-70.32	461,783.20	653,594.63	32.268995	-103.970137
3,000.00	10.00	265.44	2,994.93	-6.91	-86.77	461,781.89	653,578.17	32.268991	-103.970190
3,100.00	11.00	265.44	3,093.26	-8.36	-104.94	461,780.44	653,560.01	32.268987	-103.970249
3,199.47	11.99	265.44	3,190.73	-9.94	-124.70	461,778.86	653,540.25	32.268983	-103.970313
3,200.00	11.99	265.44	3,191.25	-9.95	-124.81	461,778.85	653,540.14	32.268983	-103.970313
3,300.00	11.99	265.44	3,289.06	-11.60	-145.53	461,777.20	653,519.42	32.268979	-103.970380
3,400.00	11.99	265.44	3,386.88	-13.25	-166.24	461,775.55	653,498.70	32.268975	-103.970447
3,500.00	11.99	265.44	3,484.70	-14.90	-186.96	461,773.90	653,477.99	32.268970	-103.970514
3,600.00	11.99	265.44	3,582.51	-16.55	-207.67	461,772.25	653,457.27	32.268966	-103.970581
3,700.00	11.99	265.44	3,680.33	-18.20	-228.39	461,770.60	653,436.55	32.268961	-103.970648
3,800.00	11.99	265.44	3,778.15	-19.85	-249.11	461,768.95	653,415.84	32.268957	-103.970715
3,900.00	11.99	265.44	3,875.96	-21.50	-269.82	461,767.30	653,395.12	32.268953	-103.970782
4,000.00	11.99	265.44	3,973.78	-23.15	-290.54	461,765.65	653,374.40	32.268948	-103.970849
4,100.00	11.99	265.44	4,071.60	-24.80	-311.26	461,764.00	653,353.69	32.268944	-103.970916
4,200.00	11.99	265.44	4,169.41	-26.45	-331.97	461,762.35	653,332.97	32.268940	-103.970983
4,300.00	11.99	265.44	4,267.23	-28.10	-352.69	461,760.70	653,312.26	32.268935	-103.971050
4,400.00	11.99	265.44	4,365.05	-29.76	-373.41	461,759.04	653,291.54	32.268931	-103.971117
4,500.00	11.99	265.44	4,462.86	-31.41	-394.12	461,757.39	653,270.82	32.268927	-103.971184
4,600.00	11.99	265.44	4,560.68	-33.06	-414.84	461,755.74	653,250.11	32.268922	-103.971252
4,700.00	11.99	265.44	4,658.50	-34.71	-435.56	461,754.09	653,229.39	32.268918	-103.971319
4,800.00	11.99	265.44	4,756.31	-36.36	-456.27	461,752.44	653,208.67	32.268914	-103.971386
4,900.00	11.99	265.44	4,854.13	-38.01	-476.99	461,750.79	653,187.96	32.268909	-103.971453
5,000.00	11.99	265.44	4,951.95	-39.66	-497.70	461,749.14	653,167.24	32.268905	-103.971520
5,100.00	11.99	265.44	5,049.76	-41.31	-518.42	461,747.49	653,146.52	32.268901	-103.971587
5,200.00	11.99	265.44	5,147.58	-42.96	-539.14	461,745.84	653,125.81	32.268896	-103.971654

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference**	Well Papas Fritas 27-22 Fed Com 332H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3067.80ft
Project:	Eddy County (NAD 83 NM Eastern)	**MD Reference:**	RKB @ 3067.80ft
Site:	Sec 27-T23S-R29E	**North Reference:**	Grid
Well:	Papas Fritas 27-22 Fed Com 332H	**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
5,300.00	11.99	265.44	5,245.40	-44.61	-559.85	461,744.19	653,105.09	32.268892	-103.971721
5,400.00	11.99	265.44	5,343.21	-46.26	-580.57	461,742.54	653,084.38	32.268888	-103.971788
5,500.00	11.99	265.44	5,441.03	-47.92	-601.29	461,740.89	653,063.66	32.268883	-103.971855
5,600.00	11.99	265.44	5,538.85	-49.57	-622.00	461,739.23	653,042.94	32.268879	-103.971922
5,700.00	11.99	265.44	5,636.66	-51.22	-642.72	461,737.58	653,022.23	32.268875	-103.971989
5,800.00	11.99	265.44	5,734.48	-52.87	-663.44	461,735.93	653,001.51	32.268870	-103.972056
5,900.00	11.99	265.44	5,832.30	-54.52	-684.15	461,734.28	652,980.79	32.268866	-103.972123
6,000.00	11.99	265.44	5,930.11	-56.17	-704.87	461,732.63	652,960.08	32.268862	-103.972190
6,100.00	11.99	265.44	6,027.93	-57.82	-725.59	461,730.98	652,939.36	32.268857	-103.972257
6,200.00	11.99	265.44	6,125.75	-59.47	-746.30	461,729.33	652,918.64	32.268853	-103.972324
6,300.00	11.99	265.44	6,223.56	-61.12	-767.02	461,727.68	652,897.93	32.268848	-103.972391
6,400.00	11.99	265.44	6,321.38	-62.77	-787.73	461,726.03	652,877.21	32.268844	-103.972458
6,500.00	11.99	265.44	6,419.20	-64.42	-808.45	461,724.38	652,856.50	32.268840	-103.972525
6,600.00	11.99	265.44	6,517.01	-66.07	-829.17	461,722.73	652,835.78	32.268835	-103.972592
6,700.00	11.99	265.44	6,614.83	-67.73	-849.88	461,721.08	652,815.06	32.268831	-103.972659
6,800.00	11.99	265.44	6,712.65	-69.38	-870.60	461,719.42	652,794.35	32.268827	-103.972726
6,900.00	11.99	265.44	6,810.46	-71.03	-891.32	461,717.77	652,773.63	32.268822	-103.972794
7,000.00	11.99	265.44	6,908.28	-72.68	-912.03	461,716.12	652,752.91	32.268818	-103.972861
7,100.00	11.99	265.44	7,006.10	-74.33	-932.75	461,714.47	652,732.20	32.268814	-103.972928
7,200.00	11.99	265.44	7,103.91	-75.98	-953.47	461,712.82	652,711.48	32.268809	-103.972995
7,300.00	11.99	265.44	7,201.73	-77.63	-974.18	461,711.17	652,690.76	32.268805	-103.973062
7,400.00	11.99	265.44	7,299.55	-79.28	-994.90	461,709.52	652,670.05	32.268801	-103.973129
7,500.00	11.99	265.44	7,397.36	-80.93	-1,015.62	461,707.87	652,649.33	32.268796	-103.973196
7,600.00	11.99	265.44	7,495.18	-82.58	-1,036.33	461,706.22	652,628.62	32.268792	-103.973263
7,700.00	11.99	265.44	7,593.00	-84.23	-1,057.05	461,704.57	652,607.90	32.268788	-103.973330
7,800.00	11.99	265.44	7,690.81	-85.88	-1,077.76	461,702.92	652,587.18	32.268783	-103.973397
7,900.00	11.99	265.44	7,788.63	-87.54	-1,098.48	461,701.27	652,566.47	32.268779	-103.973464
8,000.00	11.99	265.44	7,886.45	-89.19	-1,119.20	461,699.61	652,545.75	32.268775	-103.973531
8,100.00	11.99	265.44	7,984.26	-90.84	-1,139.91	461,697.96	652,525.03	32.268770	-103.973598
8,200.00	11.99	265.44	8,082.08	-92.49	-1,160.63	461,696.31	652,504.32	32.268766	-103.973665
8,300.00	11.99	265.44	8,179.90	-94.14	-1,181.35	461,694.66	652,483.60	32.268762	-103.973732
8,374.92	11.99	265.44	8,253.18	-95.38	-1,196.87	461,693.43	652,468.08	32.268758	-103.973782
8,400.00	11.62	265.44	8,277.73	-95.78	-1,201.98	461,693.02	652,462.96	32.268757	-103.973799
8,500.00	10.12	265.44	8,375.93	-97.28	-1,220.78	461,691.52	652,444.17	32.268753	-103.973860
8,600.00	8.62	265.44	8,474.60	-98.57	-1,237.00	461,690.23	652,427.94	32.268750	-103.973912
8,700.00	7.12	265.44	8,573.65	-99.66	-1,250.65	461,689.14	652,414.30	32.268747	-103.973956
8,800.00	5.62	265.44	8,673.03	-100.54	-1,261.71	461,688.26	652,403.24	32.268745	-103.973992
8,900.00	4.12	265.44	8,772.67	-101.22	-1,270.17	461,687.58	652,394.78	32.268743	-103.974020
9,000.00	2.62	265.44	8,872.49	-101.68	-1,276.02	461,687.12	652,388.92	32.268742	-103.974039
9,100.00	1.12	265.44	8,972.44	-101.94	-1,279.27	461,686.86	652,385.67	32.268741	-103.974049
9,174.57	0.00	0.00	9,047.00	-102.00	-1,280.00	461,686.80	652,384.95	32.268741	-103.974051
9,200.00	0.00	0.00	9,072.43	-102.00	-1,280.00	461,686.80	652,384.95	32.268741	-103.974051
9,300.00	0.00	0.00	9,172.43	-102.00	-1,280.00	461,686.80	652,384.95	32.268741	-103.974051
9,400.00	0.00	0.00	9,272.43	-102.00	-1,280.00	461,686.80	652,384.95	32.268741	-103.974051
9,500.00	0.00	0.00	9,372.43	-102.00	-1,280.00	461,686.80	652,384.95	32.268741	-103.974051
9,524.61	0.00	0.00	9,397.04	-102.00	-1,280.00	461,686.80	652,384.95	32.268741	-103.974051
KOP @ 9525' MD, 50' FSL, 2178' FWL									
9,600.00	7.54	359.64	9,472.22	-97.05	-1,280.03	461,691.75	652,384.92	32.268754	-103.974051
9,700.00	17.54	359.64	9,569.71	-75.36	-1,280.17	461,713.44	652,384.78	32.268814	-103.974052
9,765.75	24.11	359.64	9,631.13	-52.00	-1,280.31	461,736.80	652,384.64	32.268878	-103.974052
FTP @ 9766' MD, 100' FSL, 2178' FWL									
9,800.00	27.54	359.64	9,661.95	-37.08	-1,280.41	461,751.72	652,384.54	32.268919	-103.974052
9,900.00	37.54	359.64	9,746.15	16.64	-1,280.74	461,805.44	652,384.21	32.269067	-103.974052

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference**	Well Papas Fritas 27-22 Fed Com 332H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3067.80ft
Project:	Eddy County (NAD 83 NM Eastern)	**MD Reference:**	RKB @ 3067.80ft
Site:	Sec 27-T23S-R29E	**North Reference:**	Grid
Well:	Papas Fritas 27-22 Fed Com 332H	**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
10,000.00	47.54	359.64	9,819.74	84.16	-1,281.16	461,872.96	652,383.79	32.269253	-103.974053
10,100.00	57.54	359.64	9,880.48	163.43	-1,281.66	461,952.23	652,383.29	32.269470	-103.974054
10,200.00	67.54	359.64	9,926.54	252.05	-1,282.21	462,040.85	652,382.74	32.269714	-103.974055
10,300.00	77.54	359.64	9,956.50	347.32	-1,282.80	462,136.12	652,382.14	32.269976	-103.974056
10,400.00	87.54	359.64	9,969.47	446.35	-1,283.42	462,235.15	652,381.53	32.270248	-103.974057
10,424.61	90.00	359.64	9,970.00	470.95	-1,283.57	462,259.75	652,381.37	32.270316	-103.974057
10,500.00	90.00	359.64	9,970.00	546.34	-1,284.04	462,335.14	652,380.90	32.270523	-103.974057
10,600.00	90.00	359.64	9,970.00	646.34	-1,284.67	462,435.14	652,380.28	32.270798	-103.974058
10,700.00	90.00	359.64	9,970.00	746.33	-1,285.29	462,535.13	652,379.65	32.271073	-103.974059
10,800.00	90.00	359.64	9,970.00	846.33	-1,285.92	462,635.13	652,379.03	32.271348	-103.974060
10,900.00	90.00	359.64	9,970.00	946.33	-1,286.54	462,735.13	652,378.41	32.271623	-103.974061
11,000.00	90.00	359.64	9,970.00	1,046.33	-1,287.16	462,835.13	652,377.78	32.271897	-103.974062
11,100.00	90.00	359.64	9,970.00	1,146.33	-1,287.79	462,935.12	652,377.16	32.272172	-103.974063
11,200.00	90.00	359.64	9,970.00	1,246.32	-1,288.41	463,035.12	652,376.54	32.272447	-103.974064
11,300.00	90.00	359.64	9,970.00	1,346.32	-1,289.04	463,135.12	652,375.91	32.272722	-103.974065
11,400.00	90.00	359.64	9,970.00	1,446.32	-1,289.66	463,235.12	652,375.29	32.272997	-103.974066
11,500.00	90.00	359.64	9,970.00	1,546.32	-1,290.28	463,335.12	652,374.66	32.273272	-103.974067
11,600.00	90.00	359.64	9,970.00	1,646.32	-1,290.91	463,435.11	652,374.04	32.273547	-103.974068
11,700.00	90.00	359.64	9,970.00	1,746.31	-1,291.53	463,535.11	652,373.42	32.273822	-103.974069
11,800.00	90.00	359.64	9,970.00	1,846.31	-1,292.16	463,635.11	652,372.79	32.274097	-103.974070
11,900.00	90.00	359.64	9,970.00	1,946.31	-1,292.78	463,735.11	652,372.17	32.274371	-103.974071
12,000.00	90.00	359.64	9,970.00	2,046.31	-1,293.40	463,835.11	652,371.54	32.274646	-103.974071
12,100.00	90.00	359.64	9,970.00	2,146.31	-1,294.03	463,935.10	652,370.92	32.274921	-103.974072
12,200.00	90.00	359.64	9,970.00	2,246.31	-1,294.65	464,035.10	652,370.30	32.275196	-103.974073
12,300.00	90.00	359.64	9,970.00	2,346.30	-1,295.27	464,135.10	652,369.67	32.275471	-103.974074
12,400.00	90.00	359.64	9,970.00	2,446.30	-1,295.90	464,235.10	652,369.05	32.275746	-103.974075
12,500.00	90.00	359.64	9,970.00	2,546.30	-1,296.52	464,335.09	652,368.43	32.276021	-103.974076
12,600.00	90.00	359.64	9,970.00	2,646.30	-1,297.15	464,435.09	652,367.80	32.276296	-103.974077
12,700.00	90.00	359.64	9,970.00	2,746.30	-1,297.77	464,535.09	652,367.18	32.276570	-103.974078
12,800.00	90.00	359.64	9,970.00	2,846.29	-1,298.39	464,635.09	652,366.55	32.276845	-103.974079
12,900.00	90.00	359.64	9,970.00	2,946.29	-1,299.02	464,735.09	652,365.93	32.277120	-103.974080
13,000.00	90.00	359.64	9,970.00	3,046.29	-1,299.64	464,835.08	652,365.31	32.277395	-103.974081
13,100.00	90.00	359.64	9,970.00	3,146.29	-1,300.27	464,935.08	652,364.68	32.277670	-103.974082
13,200.00	90.00	359.64	9,970.00	3,246.29	-1,300.89	465,035.08	652,364.06	32.277945	-103.974083
13,300.00	90.00	359.64	9,970.00	3,346.28	-1,301.51	465,135.08	652,363.43	32.278220	-103.974084
13,400.00	90.00	359.64	9,970.00	3,446.28	-1,302.14	465,235.08	652,362.81	32.278495	-103.974085
13,500.00	90.00	359.64	9,970.00	3,546.28	-1,302.76	465,335.07	652,362.19	32.278770	-103.974085
13,600.00	90.00	359.64	9,970.00	3,646.28	-1,303.38	465,435.07	652,361.56	32.279044	-103.974086
13,700.00	90.00	359.64	9,970.00	3,746.28	-1,304.01	465,535.07	652,360.94	32.279319	-103.974087
13,800.00	90.00	359.64	9,970.00	3,846.27	-1,304.63	465,635.07	652,360.31	32.279594	-103.974088
13,900.00	90.00	359.64	9,970.00	3,946.27	-1,305.26	465,735.06	652,359.69	32.279869	-103.974089
14,000.00	90.00	359.64	9,970.00	4,046.27	-1,305.88	465,835.06	652,359.07	32.280144	-103.974090
14,100.00	90.00	359.64	9,970.00	4,146.27	-1,306.50	465,935.06	652,358.44	32.280419	-103.974091
14,200.00	90.00	359.64	9,970.00	4,246.27	-1,307.13	466,035.06	652,357.82	32.280694	-103.974092
14,300.00	90.00	359.64	9,970.00	4,346.26	-1,307.75	466,135.06	652,357.20	32.280969	-103.974093
14,400.00	90.00	359.64	9,970.00	4,446.26	-1,308.38	466,235.05	652,356.57	32.281243	-103.974094
14,500.00	90.00	359.64	9,970.00	4,546.26	-1,309.00	466,335.05	652,355.95	32.281518	-103.974095
14,600.00	90.00	359.64	9,970.00	4,646.26	-1,309.62	466,435.05	652,355.32	32.281793	-103.974096
14,700.00	90.00	359.64	9,970.00	4,746.26	-1,310.25	466,535.05	652,354.70	32.282068	-103.974097
14,800.00	90.00	359.64	9,970.00	4,846.25	-1,310.87	466,635.05	652,354.08	32.282343	-103.974098
14,900.00	90.00	359.64	9,970.00	4,946.25	-1,311.49	466,735.04	652,353.45	32.282618	-103.974099
15,000.00	90.00	359.64	9,970.00	5,046.25	-1,312.12	466,835.04	652,352.83	32.282893	-103.974100
15,082.00	90.00	359.64	9,970.00	5,128.25	-1,312.63	466,917.04	652,352.32	32.283118	-103.974100

Cross section @ 15082' MD, 0' FSL, 2178' FWL

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference**	Well Papas Fritas 27-22 Fed Com 332H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3067.80ft
Project:	Eddy County (NAD 83 NM Eastern)	**MD Reference:**	RKB @ 3067.80ft
Site:	Sec 27-T23S-R29E	**North Reference:**	Grid
Well:	Papas Fritas 27-22 Fed Com 332H	**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
15,100.00	90.00	359.64	9,970.00	5,146.25	-1,312.74	466,935.04	652,352.20	32.283168	-103.974100
15,200.00	90.00	359.64	9,970.00	5,246.25	-1,313.37	467,035.04	652,351.58	32.283443	-103.974101
15,300.00	90.00	359.64	9,970.00	5,346.24	-1,313.99	467,135.03	652,350.96	32.283717	-103.974102
15,400.00	90.00	359.64	9,970.00	5,446.24	-1,314.61	467,235.03	652,350.33	32.283992	-103.974103
15,500.00	90.00	359.64	9,970.00	5,546.24	-1,315.24	467,335.03	652,349.71	32.284267	-103.974104
15,600.00	90.00	359.64	9,970.00	5,646.24	-1,315.86	467,435.03	652,349.09	32.284542	-103.974105
15,700.00	90.00	359.64	9,970.00	5,746.24	-1,316.49	467,535.03	652,348.46	32.284817	-103.974106
15,800.00	90.00	359.64	9,970.00	5,846.24	-1,317.11	467,635.02	652,347.84	32.285092	-103.974107
15,900.00	90.00	359.64	9,970.00	5,946.23	-1,317.73	467,735.02	652,347.21	32.285367	-103.974108
16,000.00	90.00	359.64	9,970.00	6,046.23	-1,318.36	467,835.02	652,346.59	32.285642	-103.974109
16,100.00	90.00	359.64	9,970.00	6,146.23	-1,318.98	467,935.02	652,345.97	32.285916	-103.974110
16,200.00	90.00	359.64	9,970.00	6,246.23	-1,319.60	468,035.02	652,345.34	32.286191	-103.974111
16,300.00	90.00	359.64	9,970.00	6,346.23	-1,320.23	468,135.01	652,344.72	32.286466	-103.974112
16,400.00	90.00	359.64	9,970.00	6,446.22	-1,320.85	468,235.01	652,344.09	32.286741	-103.974113
16,500.00	90.00	359.64	9,970.00	6,546.22	-1,321.48	468,335.01	652,343.47	32.287016	-103.974114
16,600.00	90.00	359.64	9,970.00	6,646.22	-1,322.10	468,435.01	652,342.85	32.287291	-103.974114
16,700.00	90.00	359.64	9,970.00	6,746.22	-1,322.72	468,535.00	652,342.22	32.287566	-103.974115
16,800.00	90.00	359.64	9,970.00	6,846.22	-1,323.35	468,635.00	652,341.60	32.287841	-103.974116
16,900.00	90.00	359.64	9,970.00	6,946.21	-1,323.97	468,735.00	652,340.98	32.288116	-103.974117
17,000.00	90.00	359.64	9,970.00	7,046.21	-1,324.60	468,835.00	652,340.35	32.288390	-103.974118
17,100.00	90.00	359.64	9,970.00	7,146.21	-1,325.22	468,935.00	652,339.73	32.288665	-103.974119
17,200.00	90.00	359.64	9,970.00	7,246.21	-1,325.84	469,034.99	652,339.10	32.288940	-103.974120
17,300.00	90.00	359.64	9,970.00	7,346.21	-1,326.47	469,134.99	652,338.48	32.289215	-103.974121
17,400.00	90.00	359.64	9,970.00	7,446.20	-1,327.09	469,234.99	652,337.86	32.289490	-103.974122
17,500.00	90.00	359.64	9,970.00	7,546.20	-1,327.72	469,334.99	652,337.23	32.289765	-103.974123
17,600.00	90.00	359.64	9,970.00	7,646.20	-1,328.34	469,434.99	652,336.61	32.290040	-103.974124
17,700.00	90.00	359.64	9,970.00	7,746.20	-1,328.96	469,534.98	652,335.98	32.290315	-103.974125
17,800.00	90.00	359.64	9,970.00	7,846.20	-1,329.59	469,634.98	652,335.36	32.290589	-103.974126
17,900.00	90.00	359.64	9,970.00	7,946.19	-1,330.21	469,734.98	652,334.74	32.290864	-103.974127
18,000.00	90.00	359.64	9,970.00	8,046.19	-1,330.83	469,834.98	652,334.11	32.291139	-103.974128
18,100.00	90.00	359.64	9,970.00	8,146.19	-1,331.46	469,934.97	652,333.49	32.291414	-103.974129
18,200.00	90.00	359.64	9,970.00	8,246.19	-1,332.08	470,034.97	652,332.87	32.291689	-103.974129
18,300.00	90.00	359.64	9,970.00	8,346.19	-1,332.71	470,134.97	652,332.24	32.291964	-103.974130
18,400.00	90.00	359.64	9,970.00	8,446.18	-1,333.33	470,234.97	652,331.62	32.292239	-103.974131
18,500.00	90.00	359.64	9,970.00	8,546.18	-1,333.95	470,334.97	652,330.99	32.292514	-103.974132
18,600.00	90.00	359.64	9,970.00	8,646.18	-1,334.58	470,434.96	652,330.37	32.292789	-103.974133
18,700.00	90.00	359.64	9,970.00	8,746.18	-1,335.20	470,534.96	652,329.75	32.293063	-103.974134
18,800.00	90.00	359.64	9,970.00	8,846.18	-1,335.83	470,634.96	652,329.12	32.293338	-103.974135
18,900.00	90.00	359.64	9,970.00	8,946.17	-1,336.45	470,734.96	652,328.50	32.293613	-103.974136
19,000.00	90.00	359.64	9,970.00	9,046.17	-1,337.07	470,834.96	652,327.87	32.293888	-103.974137
19,100.00	90.00	359.64	9,970.00	9,146.17	-1,337.70	470,934.95	652,327.25	32.294163	-103.974138
19,200.00	90.00	359.64	9,970.00	9,246.17	-1,338.32	471,034.95	652,326.63	32.294438	-103.974139
19,300.00	90.00	359.64	9,970.00	9,346.17	-1,338.94	471,134.95	652,326.00	32.294713	-103.974140
19,400.00	90.00	359.64	9,970.00	9,446.17	-1,339.57	471,234.95	652,325.38	32.294988	-103.974141
19,500.00	90.00	359.64	9,970.00	9,546.16	-1,340.19	471,334.94	652,324.75	32.295262	-103.974142
19,600.00	90.00	359.64	9,970.00	9,646.16	-1,340.82	471,434.94	652,324.13	32.295537	-103.974143
19,700.00	90.00	359.64	9,970.00	9,746.16	-1,341.44	471,534.94	652,323.51	32.295812	-103.974143
19,800.00	90.00	359.64	9,970.00	9,846.16	-1,342.06	471,634.94	652,322.88	32.296087	-103.974144
19,900.00	90.00	359.64	9,970.00	9,946.16	-1,342.69	471,734.94	652,322.26	32.296362	-103.974145
20,000.00	90.00	359.64	9,970.00	10,046.15	-1,343.31	471,834.93	652,321.64	32.296637	-103.974146
20,100.00	90.00	359.64	9,970.00	10,146.15	-1,343.94	471,934.93	652,321.01	32.296912	-103.974147
20,200.00	90.00	359.64	9,970.00	10,246.15	-1,344.56	472,034.93	652,320.39	32.297187	-103.974148
20,300.00	90.00	359.64	9,970.00	10,346.15	-1,345.18	472,134.93	652,319.76	32.297462	-103.974149

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference**	Well Papas Fritas 27-22 Fed Com 332H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3067.80ft
Project:	Eddy County (NAD 83 NM Eastern)	**MD Reference:**	RKB @ 3067.80ft
Site:	Sec 27-T23S-R29E	**North Reference:**	Grid
Well:	Papas Fritas 27-22 Fed Com 332H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey

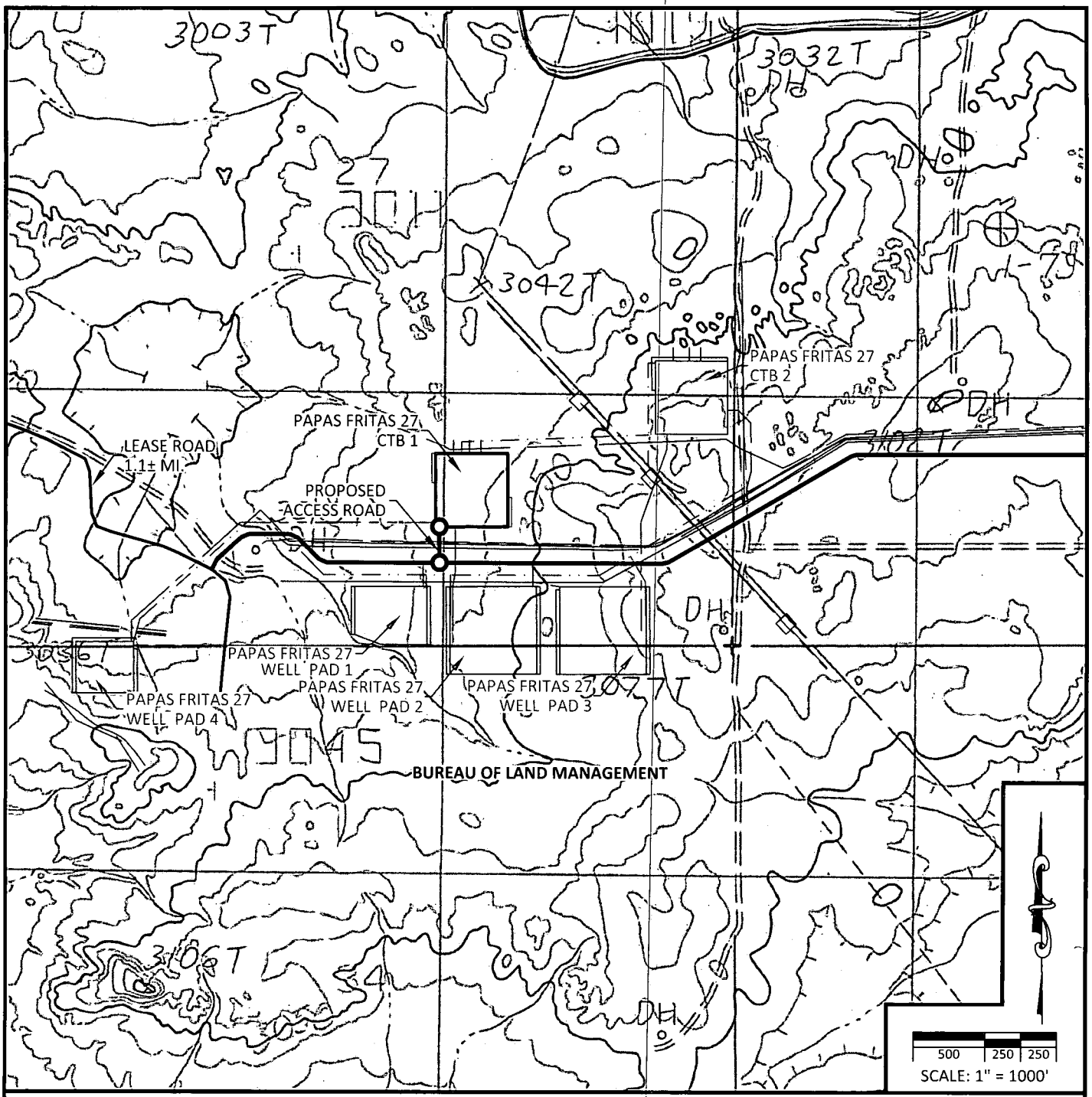
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,335.33	90.00	359.64	9,970.00	10,381.48	-1,345.40	472,170.26	652,319.54	32.297559	-103.974149
LTP @ 20335' MD, 100' FNL, 2178' FWL									
20,400.00	90.00	359.64	9,970.00	10,446.15	-1,345.81	472,234.93	652,319.14	32.297736	-103.974150
20,415.32	90.00	359.64	9,970.00	10,461.47	-1,345.90	472,250.24	652,319.04	32.297779	-103.974150
PBHL; 20' FNL, 2178' FWL									
20,415.33	90.00	359.64	9,970.00	10,461.47	-1,345.90	472,250.25	652,319.04	32.297779	-103.974150

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Papas Fritas 33	0.00	0.00	0.00	10,461.47	-1,345.90	472,250.25	652,319.04	32.297779	-103.974150
- plan misses target center by 9970.00ft at 20415.33ft MD (9970.00 TVD, 10461.47 N, -1345.90 E)									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
9,524.61	9,397.04	-102.00	-1,280.00	KOP @ 9525' MD, 50' FSL, 2178' FWL
9,765.75	9,631.13	-52.00	-1,280.31	FTP @ 9766' MD, 100' FSL, 2178' FWL
15,082.00	9,970.00	5,128.25	-1,312.63	Cross section @ 15082' MD, 0' FSL, 2178' FWL
20,335.33	9,970.00	10,381.48	-1,345.40	LTP @ 20335' MD, 100' FNL, 2178' FWL
20,415.32	9,970.00	10,461.47	-1,345.90	PBHL; 20' FNL, 2178' FWL



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 1.07 MILE TO THE PROPOSED ACCESS ROAD. TURN LEFT AND HEAD EAST ON THE PROPOSED ACCESS ROAD FOR 0.33 MILE TO THE TO THE CTB 1 ACCESS ROAD. TURN LEFT AND HEAD NORTH FOR 245 FEET TO THE SOUTHWEST POINT OF THE PROPOSED PAPAS FRITAS 27 CTB 1.

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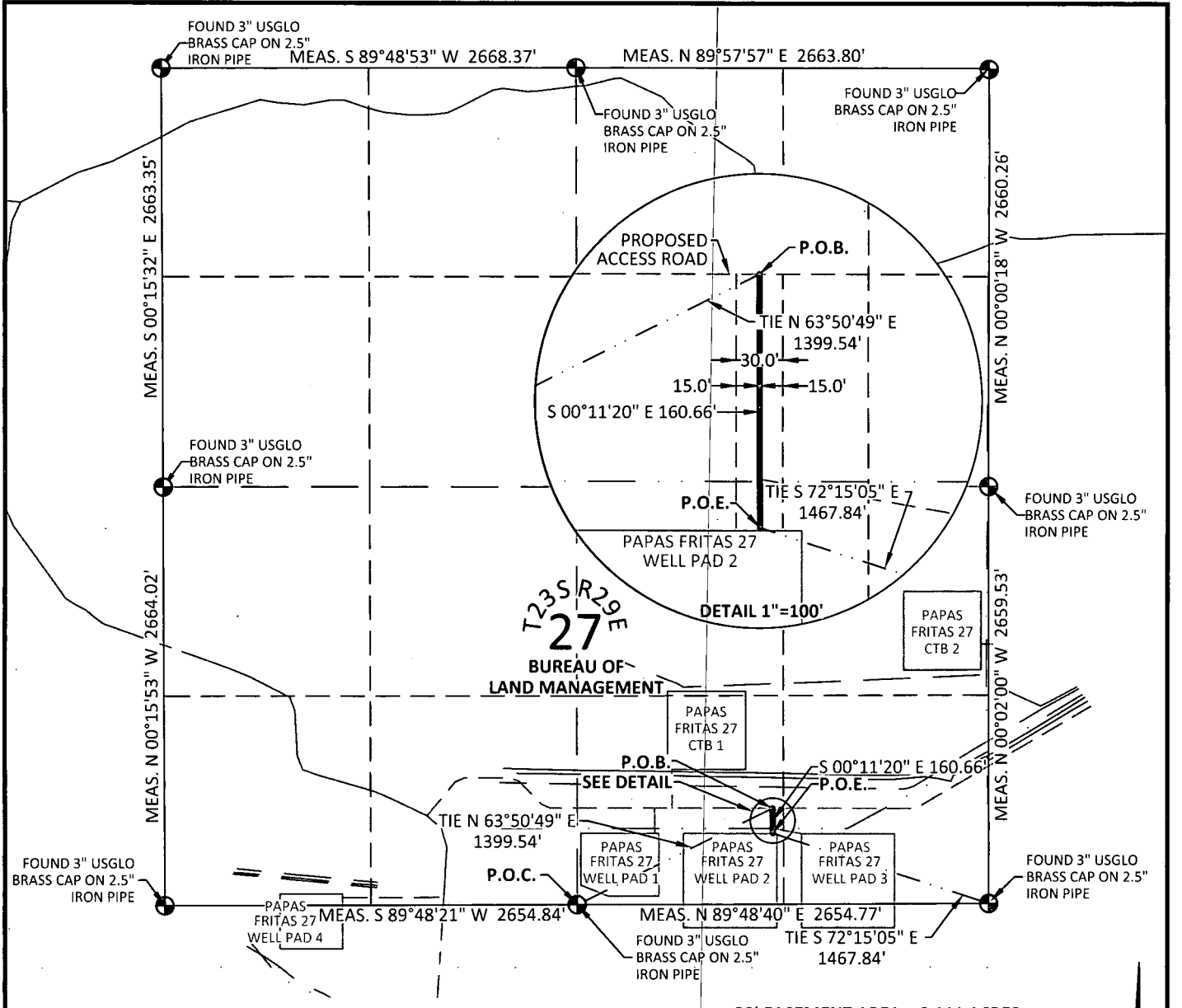
DRAWN BY: KGH	CHECKED BY: ARD
DATE: 05/07/2019	JOB NO: 18080
REVISIONS:	

QUAD MAP

DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27 CTB 1
ACCESS ROAD
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon



ALBERT R. DEHOYOS NEW MEXICO 23261 PROFESSIONAL SURVEYOR

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.

04/29/2019

ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE

30' EASEMENT AREA = 0.111 ACRES
160.66 FEET OR 9.74 RODS

0+00.00 P.O.B. - PROPOSED ACCESS ROAD
1+60.66 P.O.E. - PAPAS FRITAS 27 WELL PAD 2

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

500 250 250
SCALE: 1" = 1000'

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

DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 WELL PAD 2
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

devon

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 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 Corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe); thence, North 63°50'49" East a distance of 1399.54' feet to the POINT OF BEGINNING;

thence, South 00°11'20" East a distance of 160.66 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 72°15'05" East a distance of 1467.84 feet.

Said centerline being 160.66 feet or 9.74 rods in length and containing 0.111 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.

04/29/2019

ALBERT R. DEHOYOS 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: 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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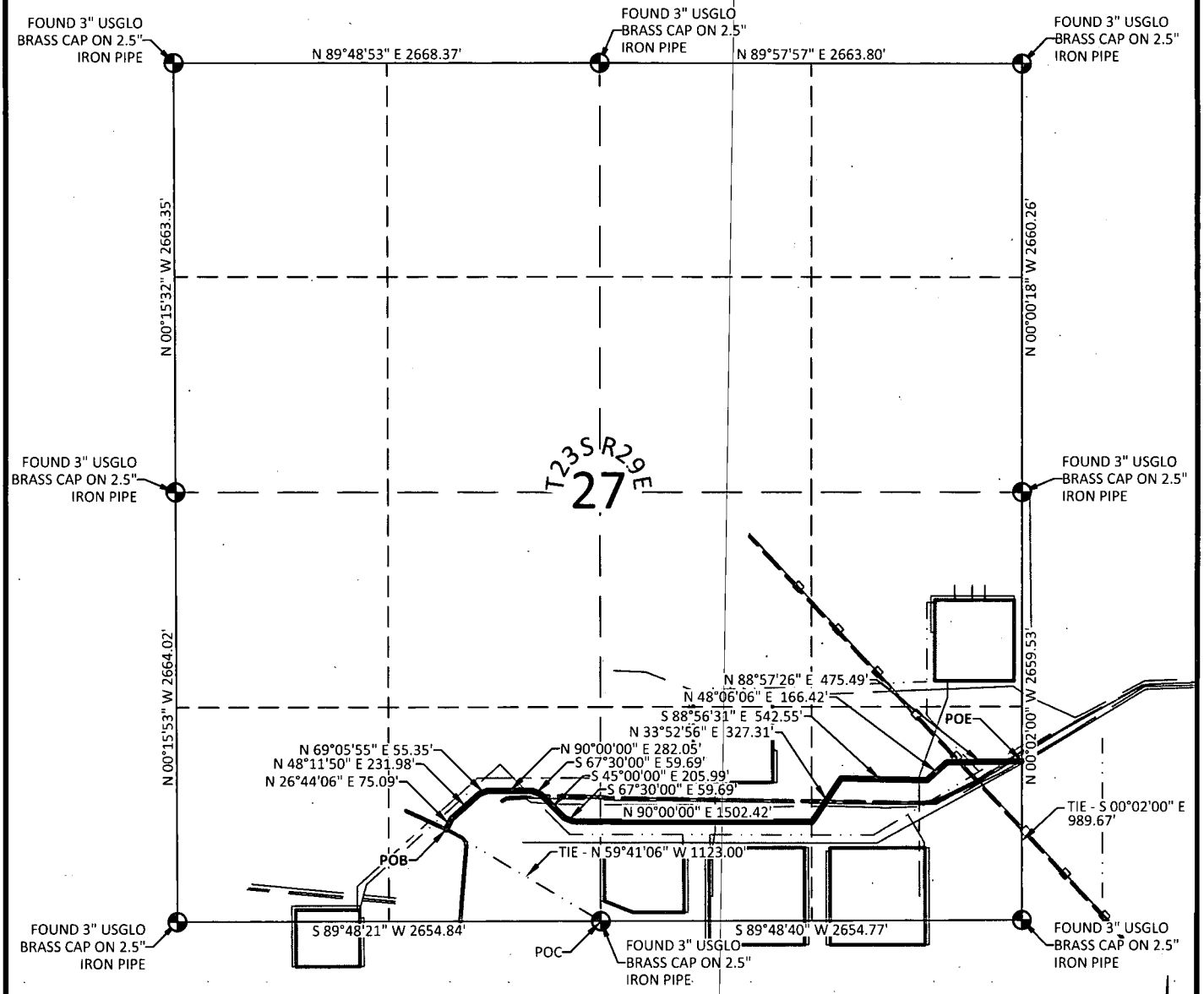
DRAWN BY: KGH	CHECKED BY: ARD
DATE: 04/29/2019	JOB NO: 18080
REVISIONS:	

DEVON ENERGY PRODUCTION, L.P.
PAPAS FRITAS 27 WELL PAD 2
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

devon



ALBERT R. DEHOYOS NEW MEXICO 23261 PROFESSIONAL SURVEYOR

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.

10/17/2019

ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE

30' EASEMENT AREA = 2.743 ACRES
3983.80 FEET OR 241.44 RODS

0+00.00 P.O.B. - AN EXISTING LEASE ROAD
39+83.80 P.O.E. - A POINT ON EAST LINE OF SECTION 27

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

500 250 250
SCALE: 1" = 1000'

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: 3198.327, 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: JSP/NJC	CHECKED BY: ARD
DATE: 10/17/2019	JOB NO: 18080
REVISIONS: 10/18/2019 NEW ALIGNMENT (JB)	

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

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SE1/4 SW1/4, S1/2 SE1/4 SECTION 27,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon

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 Southeast Quarter of the Southwest Quarter and the South Half of the SoutheastQuarter (SE1/4 SW1/4, S1/2 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:

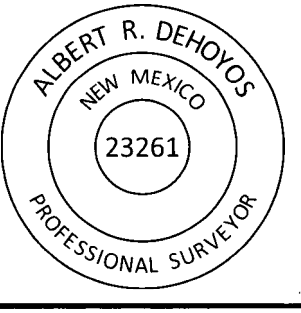
Commencing at the South Quarter corner of said Section 27 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe); thence, North 59°41'06" West a distance of 1123.00 feet to the Point Of Beginning;
thence, North 26°44'06" East a distance of 75.09 feet;
thence, North 48°11'50" East a distance of 231.98 feet;
thence, North 69°05'55" East a distance of 55.35 feet;
thence, North 90°00'00" East a distance of 282.05 feet;
thence, South 67°30'00" East a distance of 59.69 feet;
thence, South 45°00'00" East a distance of 205.99 feet;
thence, South 67°30'00" East a distance of 59.69 feet;
thence, North 90°00'00" East a distance of 1502.42 feet;
thence, North 33°52'56" East a distance of 327.31 feet;
thence, South 88°56'31" East a distance of 542.55 feet;
thence, North 48°06'06" East a distance of 166.42 feet;
thence, North 88°57'26" East a distance of 475.49 feet; to a point on the East line 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 00°02'00" Ease a distance of 989.67 feet.

Said centerline being 3983.80 feet or 241.44 rods in length and containing 2.743 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.

10/17/2019

ALBERT R. DEHOYOS 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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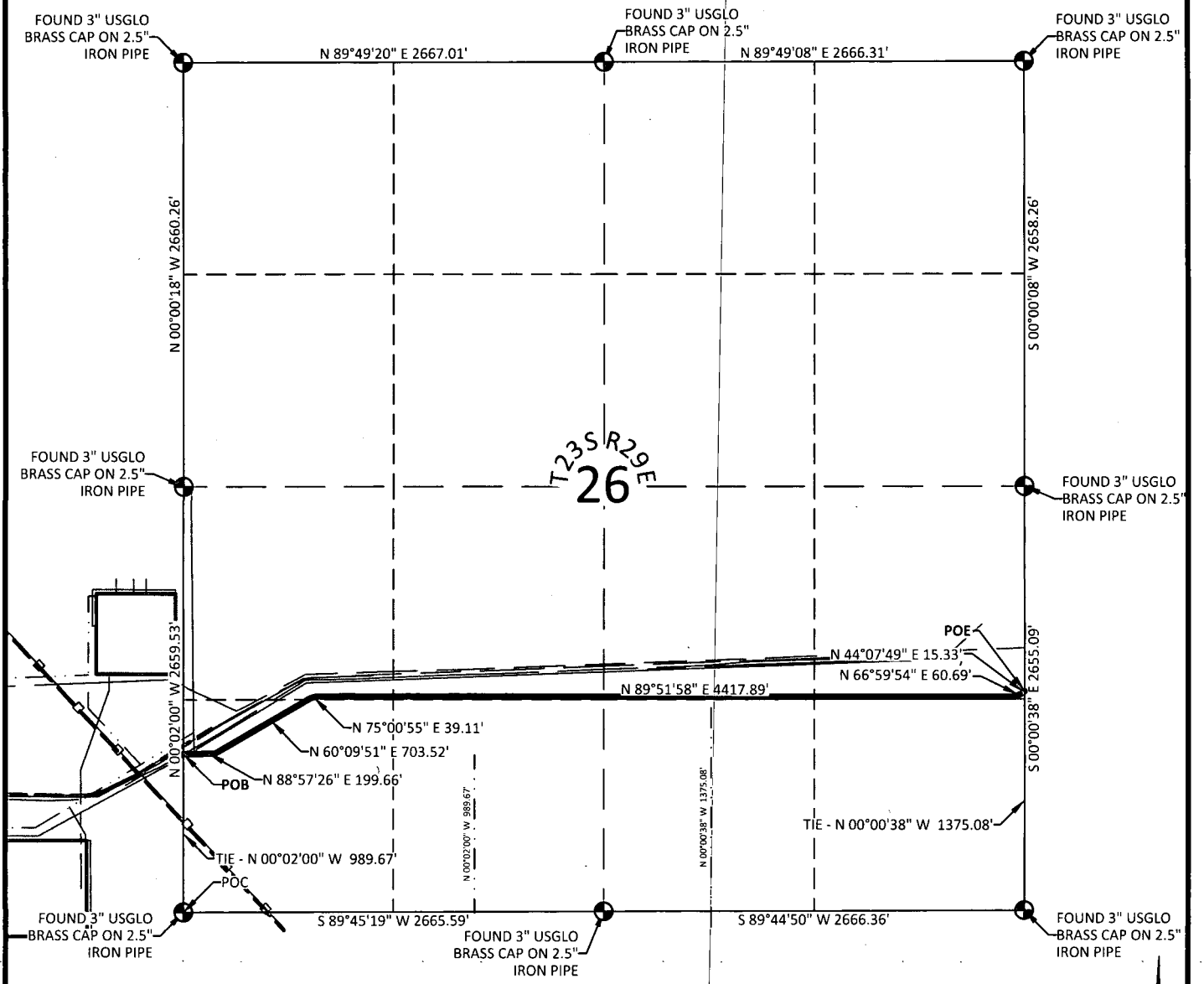
DRAWN BY: JSP/NJC	CHECKED BY: ARD
DATE: 10/17/2019	JOB NO: 18080
REVISIONS: 10/18/2019 NEW ALIGNMENT (JB)	

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

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SE1/4 SW1/4, S1/2 SE1/4 SECTION 27,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon



ALBERT R. DEHOYOS NEW MEXICO 23261 PROFESSIONAL SURVEYOR

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.

10/17/2019

ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE

30' EASEMENT AREA = 3.743 ACRES
5435.13 FEET OR 329.40 RODS

0+00.00 P.O.B. - A POINT ON THE WEST LINE OF SECTION 26
54+35.13 P.O.E. - A POINT ON EAST LINE OF SECTION 26

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

500 250 250
SCALE: 1" = 1000'

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: 3198.327, 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: JSP/NJC	CHECKED BY: ARD
DATE: 10/17/2019	JOB NO: 18080
REVISIONS: 10/18/2019 NEW ALIGNMENT (JB)	

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

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SW1/4 SW1/4 , N1/2 S1/2 SECTION 26,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon

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 Southwest One Half of the Southwest One Half and the North One Half of the South One Half (SW1/4 SW1/4 , N1/2 S1/2) of Section 26, 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:

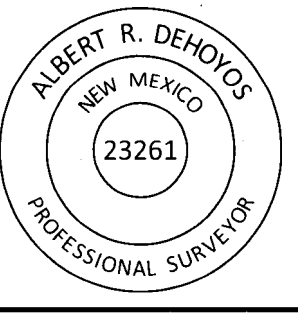
Commencing at the Southwest corner of said Section 26 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe); thence, North 00°02'00" West a distance of 989.67 feet to a point on the West Line of said Section 26, also being the Point Of Beginning;
thence, North 88°57'26" East a distance of 199.66 feet;
thence, North 60°09'51" East a distance of 703.52 feet;
thence, North 75°00'55" East a distance of 39.11 feet;
thence, North 89°51'58" East a distance of 4417.89 feet;
thence, North 66°59'54" East a distance of 60.69 feet;
thence, North 44°07'49" East a distance of 15.33 feet; to a point on the East line of said Section 26, also being the Point of Ending, from which the Southwest corner of said Section 26 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe) bears South 00°00'38" East a distance of 1375.08 feet.

Said centerline being 5435.13 feet or 329.40 rods in length and containing 3.743 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.

10/17/2019

ALBERT R. DEHOYOS 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.
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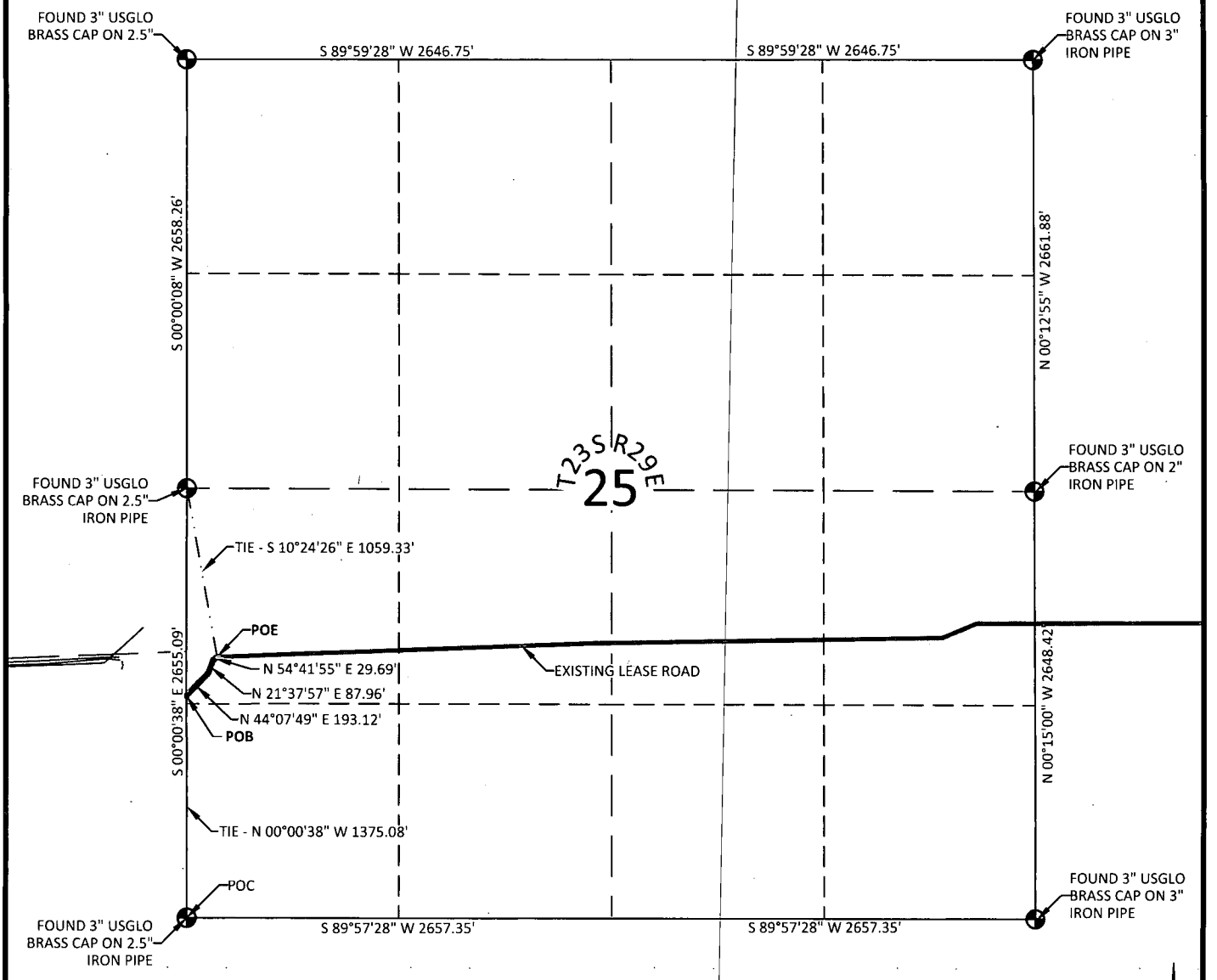
DATE: 10/17/2019	JOB NO: 18080
REVISIONS: 10/18/2019 NEW ALIGNMENT (JB)	

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

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SW1/4 SW1/4 , N1/2 S1/2 SECTION 26,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon



ALBERT R. DEHOYOS NEW MEXICO 23261 PROFESSIONAL SURVEYOR

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.

10/17/2019

ALBERT R. DEHOYOS NEW MEXICO PS No. 23261 DATE

30' EASEMENT AREA = 0.214 ACRES
310.77 FEET OR 18.83 RODS

0+00.00 P.O.B. - A POINT ON THE WEST LINE OF SECTION 25
3+10.77 P.O.E. - AN EXISTING LEASE ROAD

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

500 250 250
SCALE: 1" = 1000'

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: 3198.327, 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: JSP/NJC	CHECKED BY: ARD
DATE: 10/17/2019	JOB NO: 18080
REVISIONS: 10/18/2019 NEW ALIGNMENT (JB)	

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

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
NW1/4 SW1/4 SECTION 25,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon

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 Northwest Quarter of the Southwest Quarter (NW1/4 SW1/4) of Section 25 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:

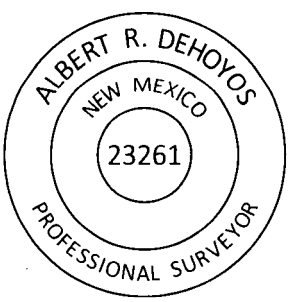
Commencing at the Southwest corner of said Section 25 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe); thence, North 00°00'38" West a distance of 1375.08 feet to a point on the West line of said Section 25, also being the Point Of Beginning;
thence, North 54°41'55" East a distance of 29.69 feet;
thence, North 21°37'57" East a distance of 87.96 feet;
thence, North 44°07'49" West a distance of 193.12 feet to the Point of Ending, from which the East Quarter corner of said Section 25 (Found 3" USGLO Brass Cap on a 2.5" Iron Pipe) bears North 10°24'26" West a distance of 1059.33 feet.

Said centerline being 310.77 feet or 18.83 rods in length and containing 0.214 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.

10/17/2019

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 1.000221019

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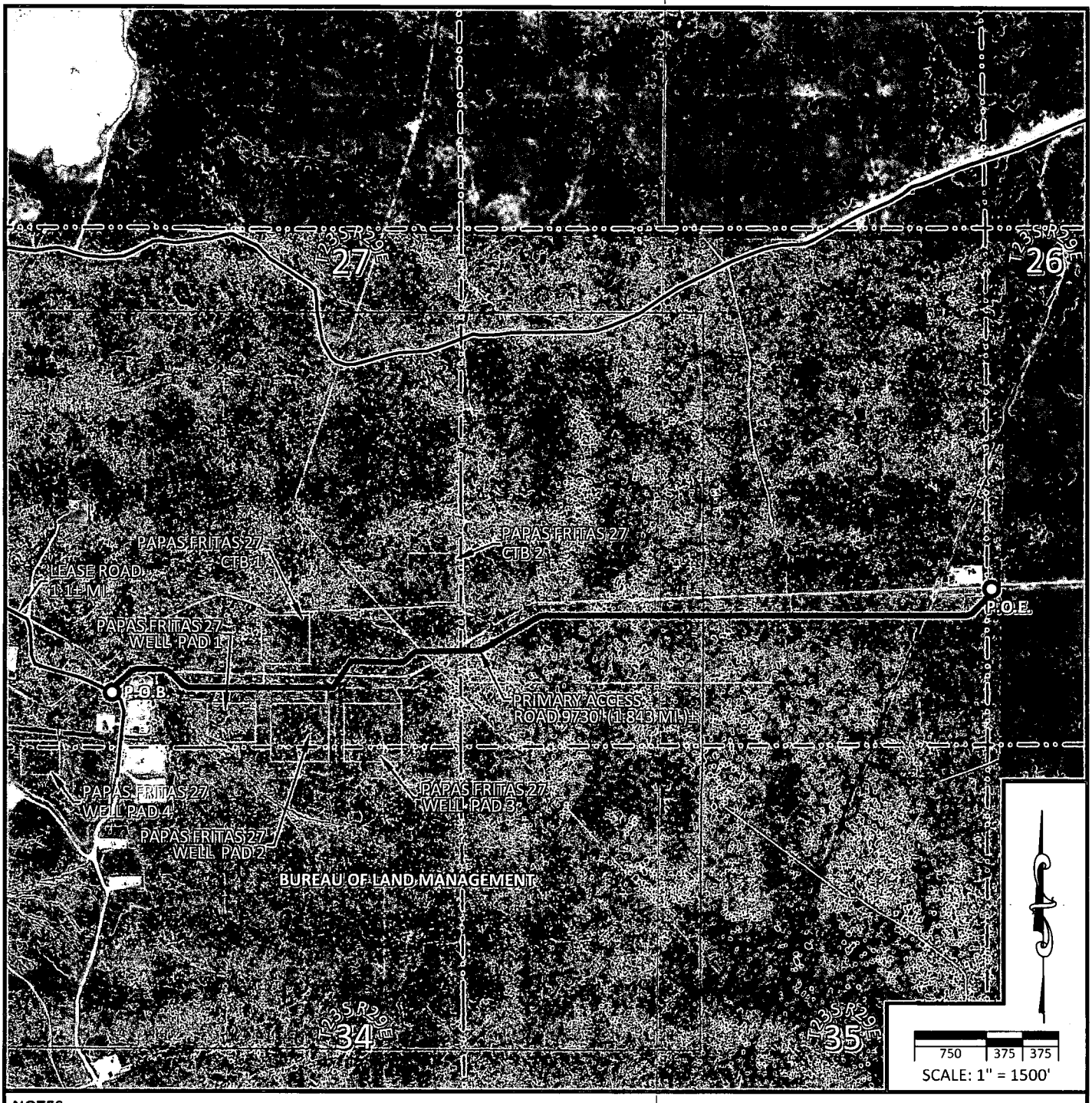
DRAWN BY: JSP/NJC	CHECKED BY: ARD
DATE: 10/17/2019	JOB NO: 18080
REVISIONS: 10/18/2019 NEW ALIGNMENT (JB)	

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

PROPOSED 30' EASEMENT ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
NW1/4 SW1/4 SECTION 25,
TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon



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 1.07 MILE TO THE PROPOSED ACCESS ROAD.

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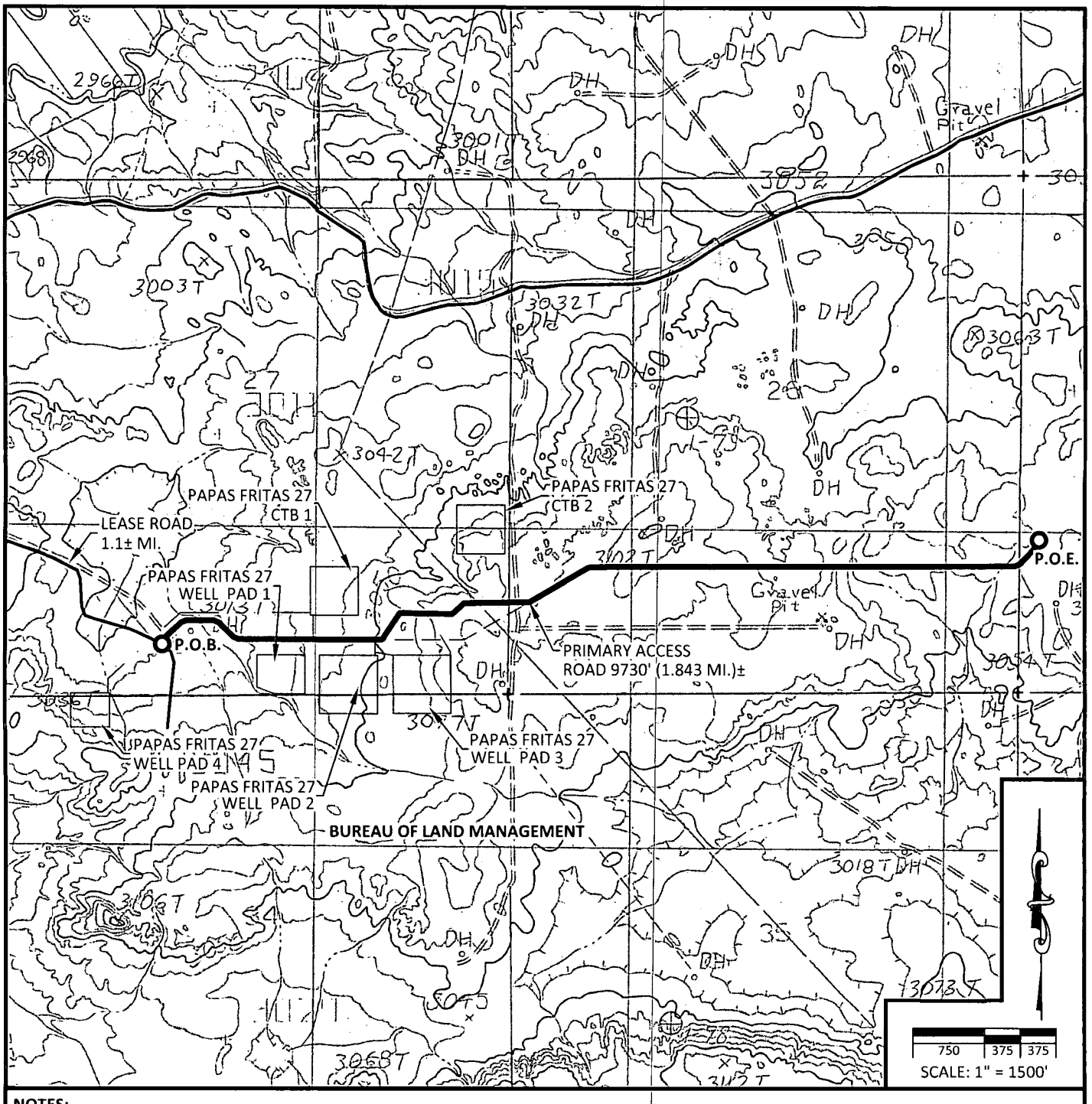
DATE: 10/21/2019	JOB NO: 18080
REVISIONS:	

AERIAL MAP

DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27
PRIMARY ACCESS ROAD
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon



NOTES:

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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 1.07 MILE TO THE PROPOSED ACCESS ROAD.

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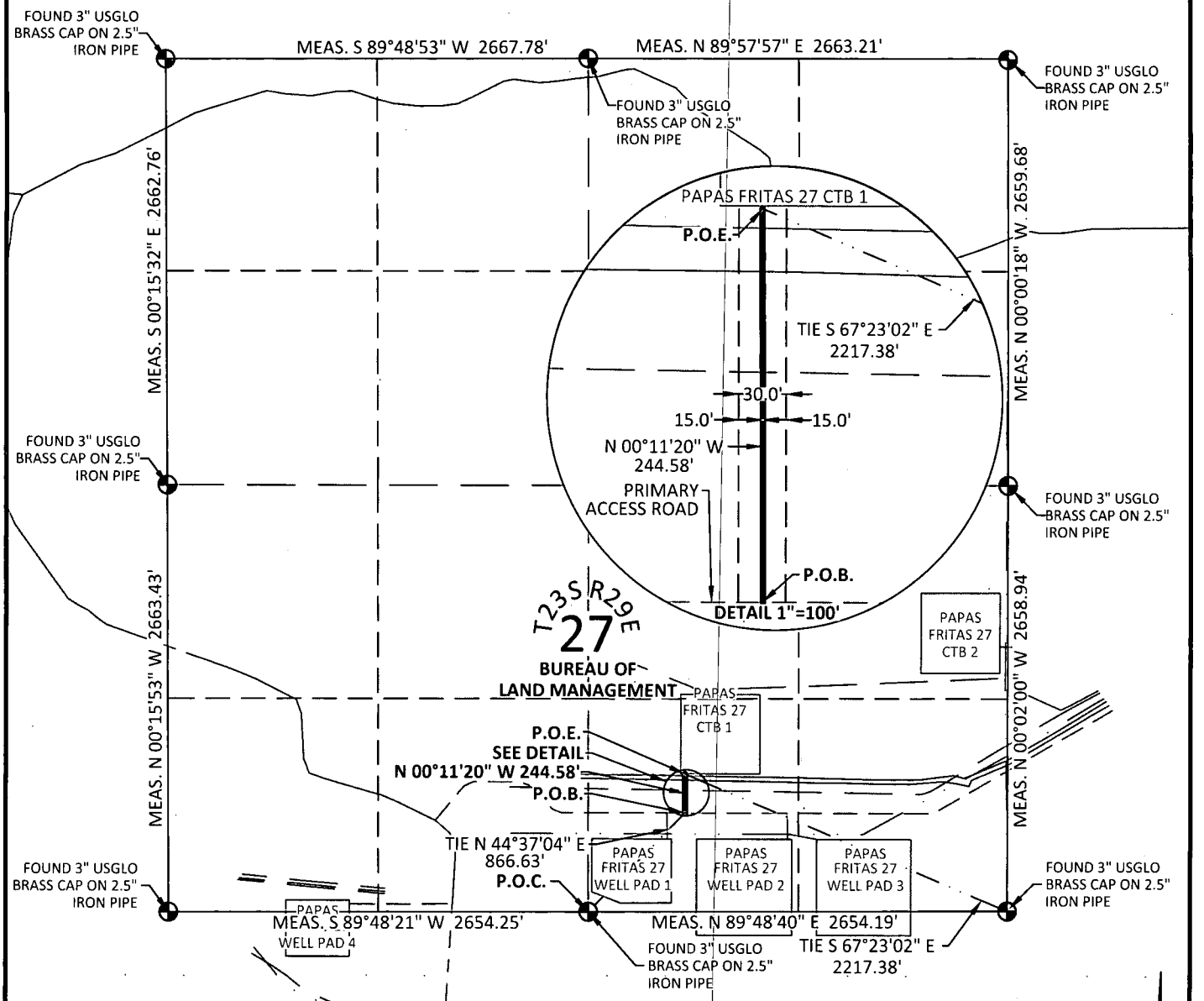
DRAWN BY: JEB	CHECKED BY: ARD
DATE: 10/21/2019	JOB NO: 18080
REVISIONS:	

QUAD MAP

DEVON ENERGY PRODUCTION, L.P.

PAPAS FRITAS 27
PRIMARY ACCESS ROAD
SECTION 27, TOWNSHIP 23 SOUTH
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

devon



ALBERT R. DEHOYOS NEW MEXICO 23261 PROFESSIONAL SURVEYOR

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**

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

500 | 250 | 250
SCALE: 1" = 1000'

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.
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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

devon

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. DEHOYOS 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.
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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

devon