

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

F/A
(H)

HOBBS OCD

MAY 23 2019

RECEIVED

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM113898
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP (6137)		8. Lease Name and Well No. STRANGER 34 FED.COM 12H (325720)
3a. Address 333 West Sheridan Avenue Oklahoma City OK 73102	3b. Phone No. (include area code) (800)583-3866	9. API Well No. 90-025-46012
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 205 FSL / 520 FEL / LAT 32.0802855 / LONG -103.4509461 At proposed prod. zone NENE / 20 FNL / 330 FEL / LAT 32.0941765 / LONG -103.450341		10. Field and Pool, or Exploratory BOBCAT DRAW / UPPER WOLFCAMP (98094)
11. Sec., T. R. M. or Blk. and Survey or Area SEC 34 / T25S / R34E / NMP		12. County or Parish LEA
13. State NM		14. Distance in miles and direction from nearest town or post office*
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 205 feet	16. No of acres in lease 920	17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 931 feet	19. Proposed Depth 12780 feet / 17749 feet	20. BLM/BIA Bond No. in file FED: CO1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3305 feet	22. Approximate date work will start* 09/29/2020	23. Estimated duration 45 days
24. Attachments		

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) Rebecca Deal / Ph: (405)228-8429	Date 11/29/2018
Title Regulatory Compliance Professional		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 04/29/2019
Title Petroleum Engineer		

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.

GCP Rec 05/23/19

K2 05/22/19

APPROVED WITH CONDITIONS

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 well, and any other required information, should be furnished when required by Federal agency offices.

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

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

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

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

1. SHL: SESE / 205 FSL / 520 FEL / TWSP: 25S / RANGE: 34E / SECTION: 34 / LAT: 32.0802855 / LONG: -103.4509461 (TVD: 0 feet, MD: 0 feet)
PPP: SESE / 100 FSL / 340 FEL / TWSP: 25S / RANGE: 34E / SECTION: 34 / LAT: 32.079993 / LONG: -103.450373 (TVD: 12441 feet, MD: 12452 feet)
BHL: NENE / 20 FNL / 330 FEL / TWSP: 25S / RANGE: 34E / SECTION: 34 / LAT: 32.0941765 / LONG: -103.450341 (TVD: 12780 feet, MD: 17749 feet)

BLM Point of Contact

Name: Candy Vigil

Title: Admin Support Assistant

Phone: 5752345982

Email: cvigil@blm.gov

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM113898
WELL NAME & NO.:	Stranger 34 Fed Com 12H
SURFACE HOLE FOOTAGE:	205'/S & 520'/E
BOTTOM HOLE FOOTAGE:	20'/N & 330'/E
LOCATION:	Section 34, T.25 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The 10-3/4 inch surface casing shall be set at approximately **975 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Alternate Casing Design:

4. The 13-3/8 inch surface casing shall be set at approximately **975 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

- e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- h. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 5. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Cement excess is less than 25% more cement might be required.

Option 2:

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

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- d. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Cement excess is less than 25% more cement might be required.

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

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

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

C. PRESSURE CONTROL

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

Option 1:

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

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties

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

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Devon Energy Production Company LP
WELL NAME & NO.:	Stranger 34 Fed Com 12H
SURFACE HOLE FOOTAGE:	205'/S & 520'/E
BOTTOM HOLE FOOTAGE	20'/N & 330'/E
LOCATION:	Section 34, T.25 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

TABLE OF CONTENTS

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

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Lesser Prairie-Chicken Timing Stipulations
 - Ground-level Abandoned Well Marker
 - Hydrology
 - Range
- ☐ **Construction**
 - Notification
 - 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)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

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

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. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Hydrology:

The entire 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 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.

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method 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.

Electric Lines: 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.

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.

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

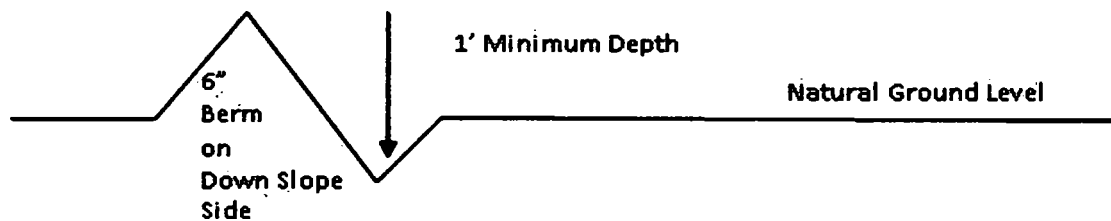
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing 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:

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

Cattle guards

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

Fence Requirement

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

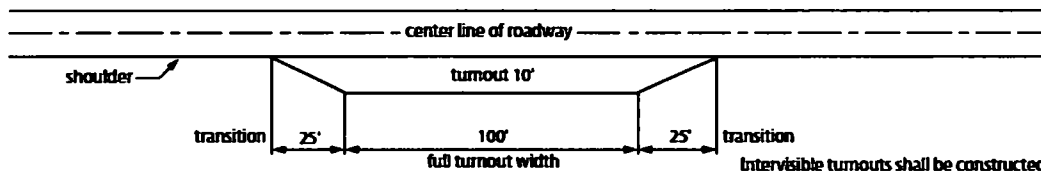
Public Access

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

Construction Steps

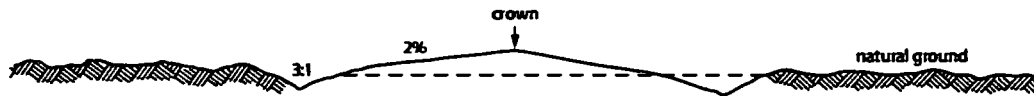
1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

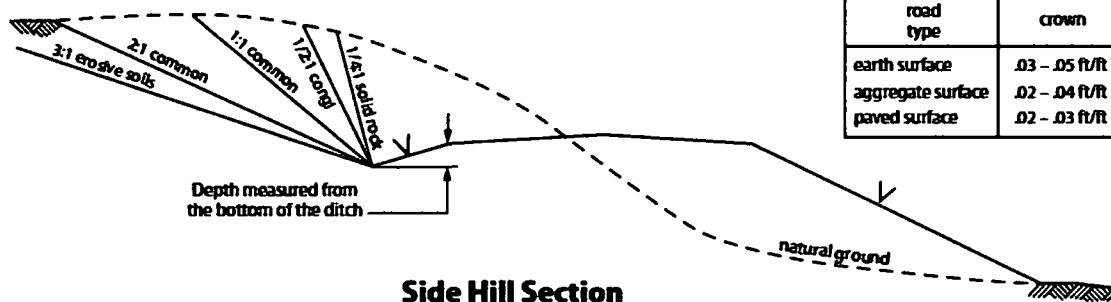


Typical Turnout Plan

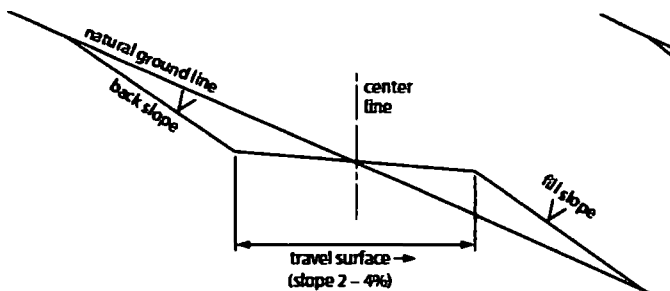
Intervisible turnouts shall be constructed on all single lane roads on all blind curves with additional turnouts as needed to keep spacing below 1000 feet.



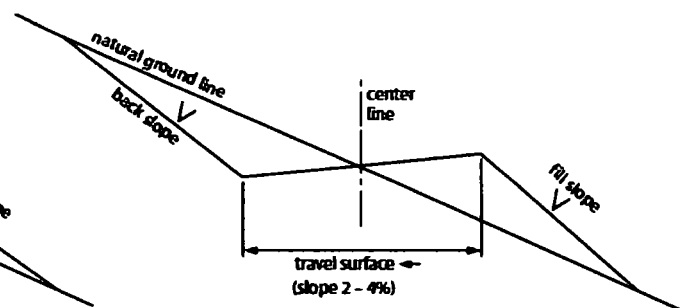
Level Ground Section



Side Hill Section



Typical Outslope Section



Typical Inslope Section

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

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

19. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the application (Grant, Sundry Notice, APD) 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 activity of 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. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, 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, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the 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 the holder

of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. 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.

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. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. 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. Signs will be maintained in a legible condition for the life of the pipeline.

14. 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. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. 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 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.

16. 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, powerline 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.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

- a. **Lesser Prairie-Chicken:** Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

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.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must

be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

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 for LPC Sand/Shinnery Sites

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 shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall 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). 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. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

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

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

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



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

Operator Certification Data Report

04/30/2019

Operator Certification

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

NAME: Rebecca Deal

Signed on: 11/29/2018

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City

State: OK

Zip: 73102

Phone: (405)228-8429

Email address: Rebecca.Deal@dvn.com

Field Representative

Representative Name: Travis Phibbs

Street Address: 333 W SHERIDAN AVE

City: OKC

State: OK

Zip: 73102

Phone: (575)748-9929

Email address: travis.phibbs@dvn.com



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

Application Data Report

04/30/2019

APD ID: 10400036813

Submission Date: 11/29/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - General

APD ID: 10400036813

Tie to previous NOS?

Submission Date: 11/29/2018

BLM Office: CARLSBAD

User: Rebecca Deal

Title: Regulatory Compliance
Professional

Federal/Indian APD: FED

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

Lease number: NMNM113898

Lease Acres: 920

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator letter of designation:

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Zip: 73102

Operator PO Box:

Operator City: Oklahoma City

State: OK

Operator Phone: (800)583-3866

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: STRANGER 34 FED COM

Well Number: 12H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BOBCAT DRAW

Pool Name: UPPER
WOLFCAMP

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

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

Describe other minerals:

Is the proposed well in a Helium production area? N

Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 5

STRANGER 34 WELLPAD

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town:

Distance to nearest well: 931 FT

Distance to lease line: 205 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Stranger_34_Fed_Com_12H_C_102_20181129095406.pdf

Well work start Date: 09/29/2020

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	205	FSL	520	FEL	25S	34E	34	Aliquot SESE			LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 113898	330 5	0	0
KOP Leg #1	50	FSL	345	FEL	25S	34E	34	Aliquot SESE			LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 113898	- 890 2	122 11	122 07
PPP Leg #1	100	FSL	340	FEL	25S	34E	34	Aliquot SESE			LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 113898	- 913 6	124 52	124 41

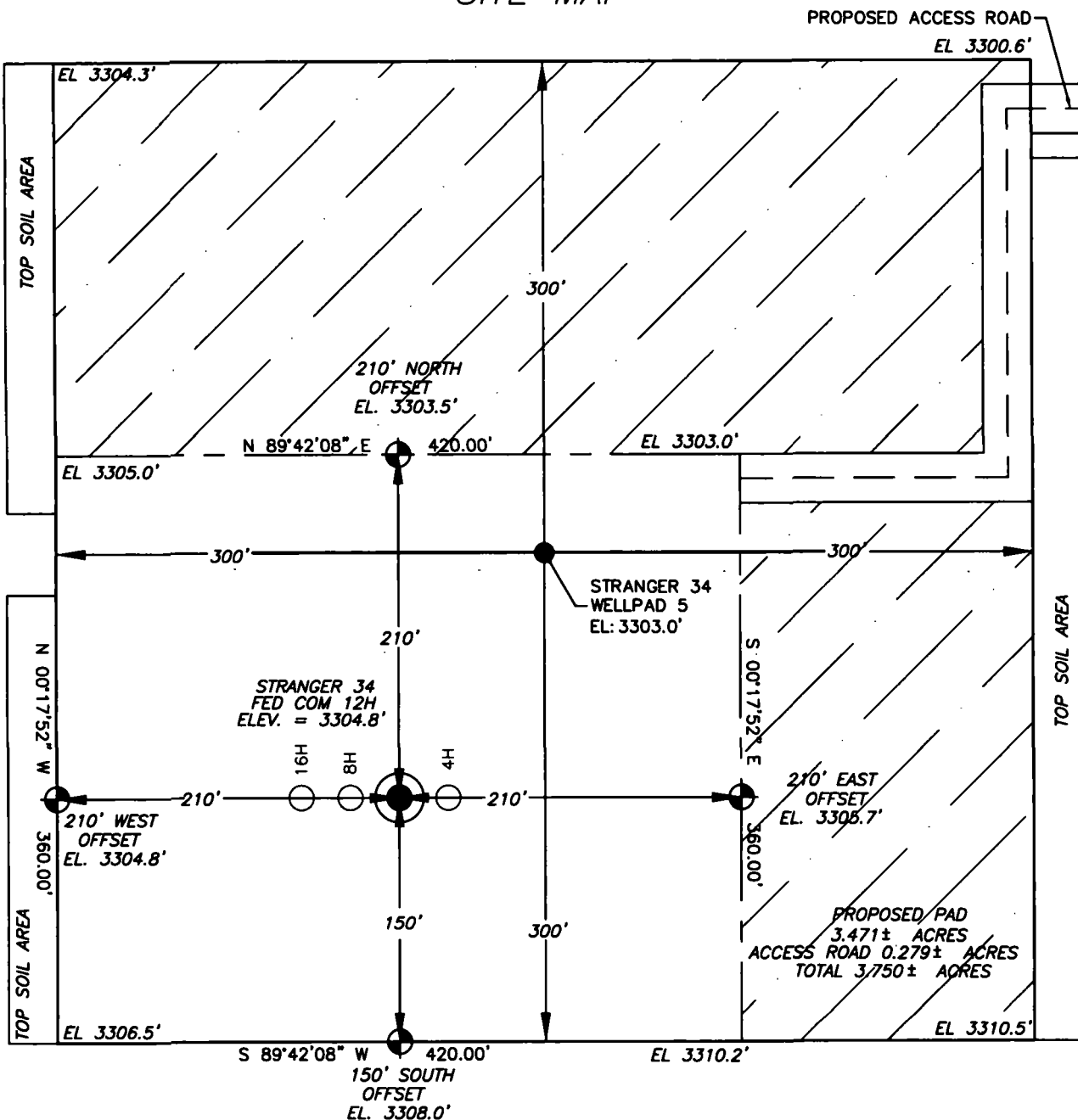
Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	100	FNL	330	FEL	25S	34E	34	Aliquot NENE			LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 094114	- 947 5	176 69	127 80
BHL Leg #1	20	FNL	330	FEL	25S	34E	34	Aliquot NENE			LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 094114	- 947 5	177 49	127 80

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP



Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 34 FED COM 12H
LOCATED 205 FT. FROM THE SOUTH LINE
AND 520 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF DINWIDDIE RD. AND J-2 BATTLE AXE ROAD, HEAD EAST ON BATTLE AXE ROAD FOR 0.27 MILES AND THEN CONTINUE NORTH ON BATTLE AXE ROAD FOR 3.53 MILES. TURN RIGHT ONTO AN ACCESS ROAD AND TRAVEL 0.60 MILES TO THE POINT OF BEGINNING OF THE STAKED STRANGER 33-34 PRIMARY ACCESS ROAD. FOLLOW THE STAKED ACCESS ROAD SOUTHEAST FOR 2.92 MILES TO THE POINT OF BEGINNING OF THE STRANGER 34 WELLPAD 5 ACCESS ROAD. TURN RIGHT AND HEAD SOUTH ON THE PROPOSED STRANGER 34 WELLPAD 5 ACCESS ROAD FOR 680 FEET AND THEN TURN RIGHT AND HEAD WEST FOR 45 FEET TO THE NORTHEAST CORNER OF THE STRANGER 34 WELLPAD 5.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

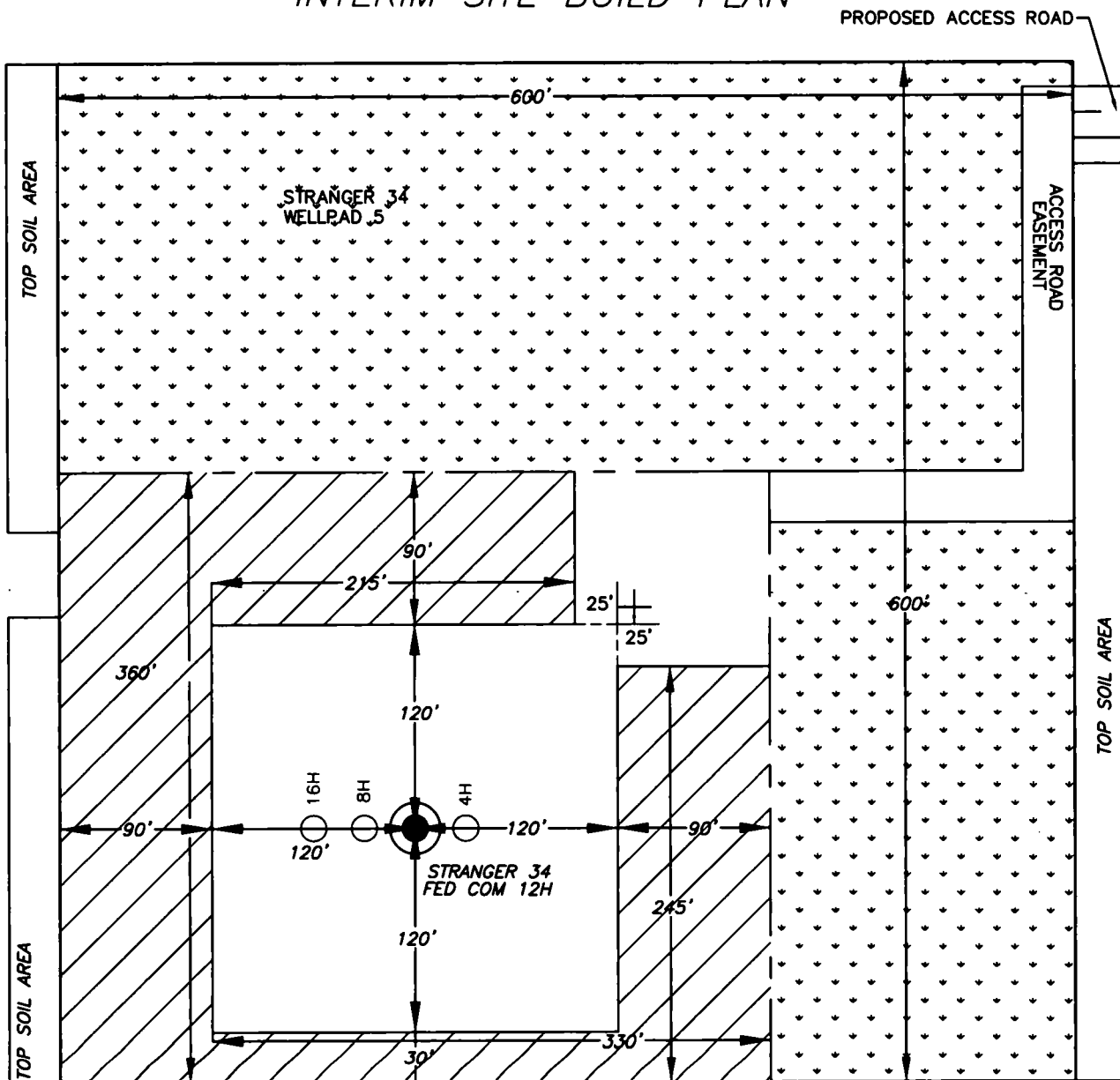
Drawn by:
CHRIS MAAS

Date: 09/11/2018

Drawn for:



SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE BUILD PLAN



- DENOTES INTERIM PAD RECLAMATION AREA
 DENOTES GRADING SITE RECLAMATION AREA

1.859± ACRES INTERIM PAD RECLAMATION AREA
 4.514± ACRES GRADING SITE RECLAMATION AREA
 1.891± ACRES NON-RECLAIMED AREA
 8.264± ACRES GRADING SITE RECLAMATION AREA



DEVON ENERGY PRODUCTION COMPANY, L.P.
 STRANGER 34 FED COM 12H
 LOCATED 205 FT. FROM THE SOUTH LINE
 AND 520 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 25 SOUTH,
 RANGE 34 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

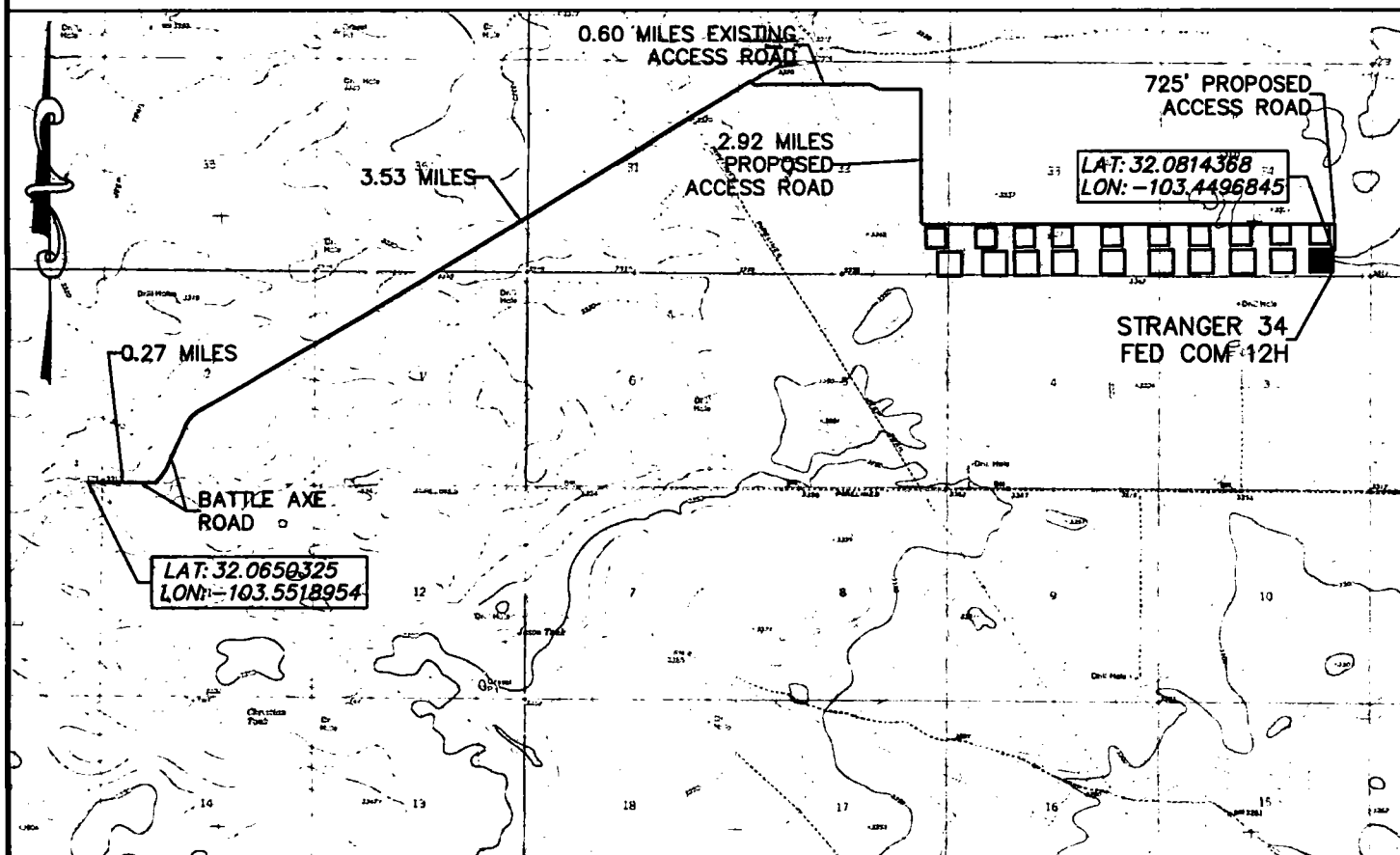
Drawn by:
 CHRIS MAAS

Date: 09/11/2018

Drawn for:

devon

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 34 FED COM 12H
LOCATED 205 FT. FROM THE SOUTH LINE
AND 520 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF DINWIDDIE RD. AND J-2 BATTLE AXE ROAD, HEAD EAST ON BATTLE AXE ROAD FOR 0.27 MILES AND THEN CONTINUE NORTH ON BATTLE AXE ROAD FOR 3.53 MILES. TURN RIGHT ONTO AN ACCESS ROAD AND TRAVEL 0.60 MILES TO THE POINT OF BEGINNING OF THE STAKED STRANGER 33-34 PRIMARY ACCESS ROAD. FOLLOW THE STAKED ACCESS ROAD SOUTHEAST FOR 2.92 MILES TO THE POINT OF BEGINNING OF THE STRANGER 34 WELLPAD 5 ACCESS ROAD. TURN RIGHT AND HEAD SOUTH ON THE PROPOSED STRANGER 34 WELLPAD 5 ACCESS ROAD FOR 680 FEET AND THEN TURN RIGHT AND HEAD WEST FOR 45 FEET TO THE NORTHEAST CORNER OF THE STRANGER 34 WELLPAD 5.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

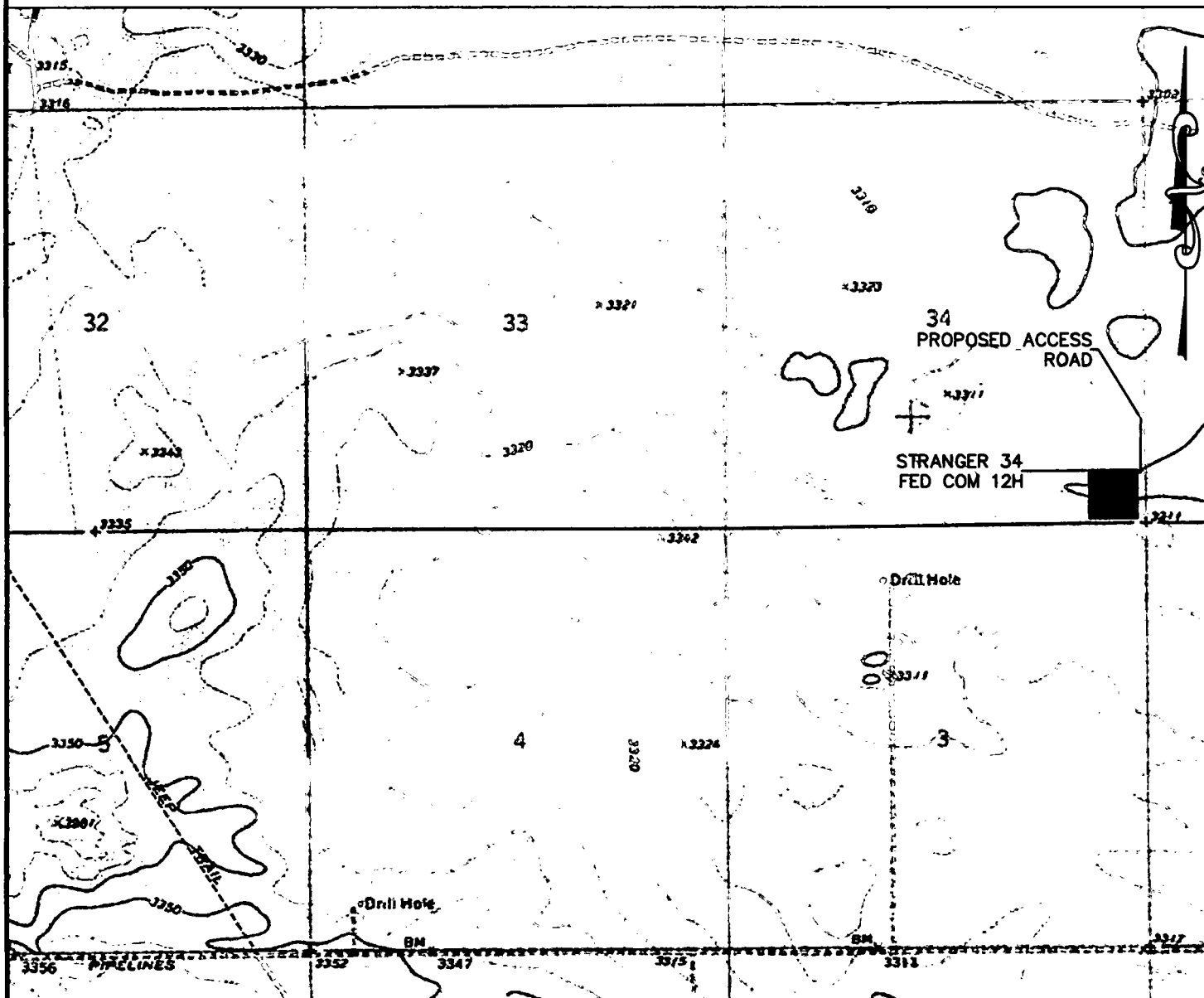
Drawn by:
CHRIS MAAS

Date: 09/11/2018

Drawn for:

devon

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 34 FED COM 12H
LOCATED 205 FT. FROM THE SOUTH LINE
AND 520 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

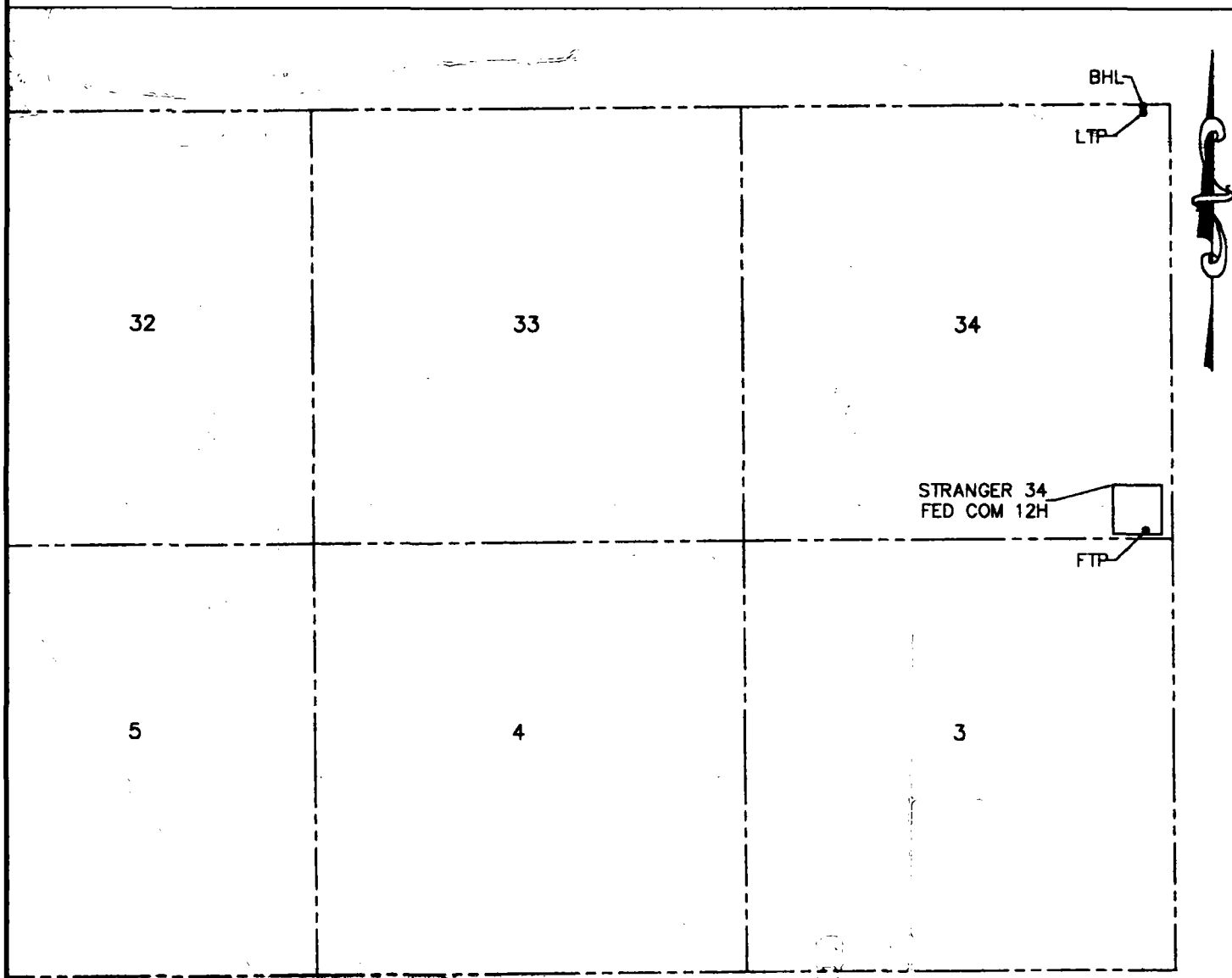
Drawn by:
CHRIS MAAS

Date: 09/11/2018

Drawn for:

devon

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 34 FED COM 12H
LOCATED 205 FT. FROM THE SOUTH LINE
AND 520 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

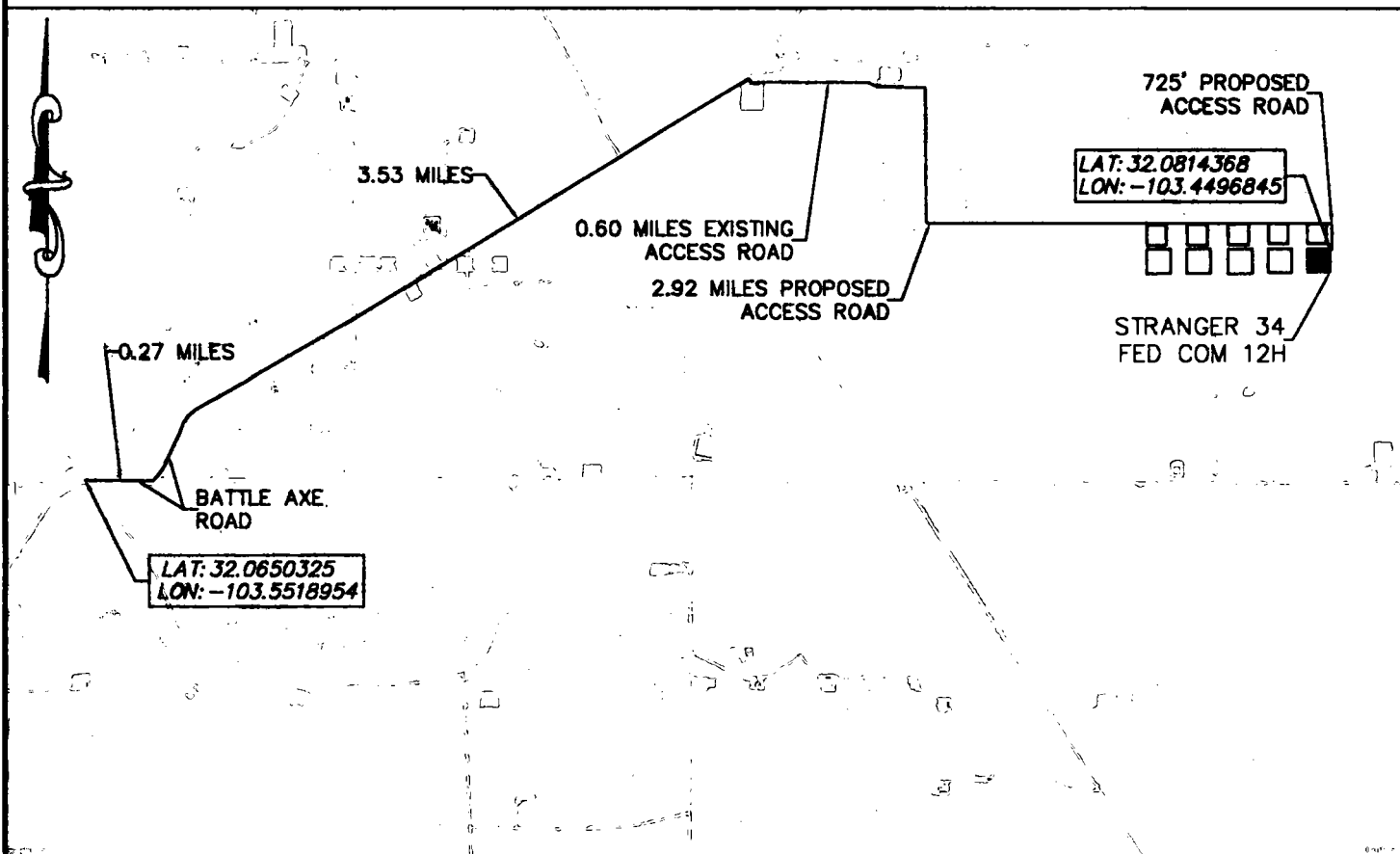
Drawn by:
CHRIS MAAS

Date: 09/11/2018

Drawn for:

devon

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 34 FED COM 12H
LOCATED 205 FT. FROM THE SOUTH LINE
AND 520 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

HORIZON ROW LLC

Drawn for:

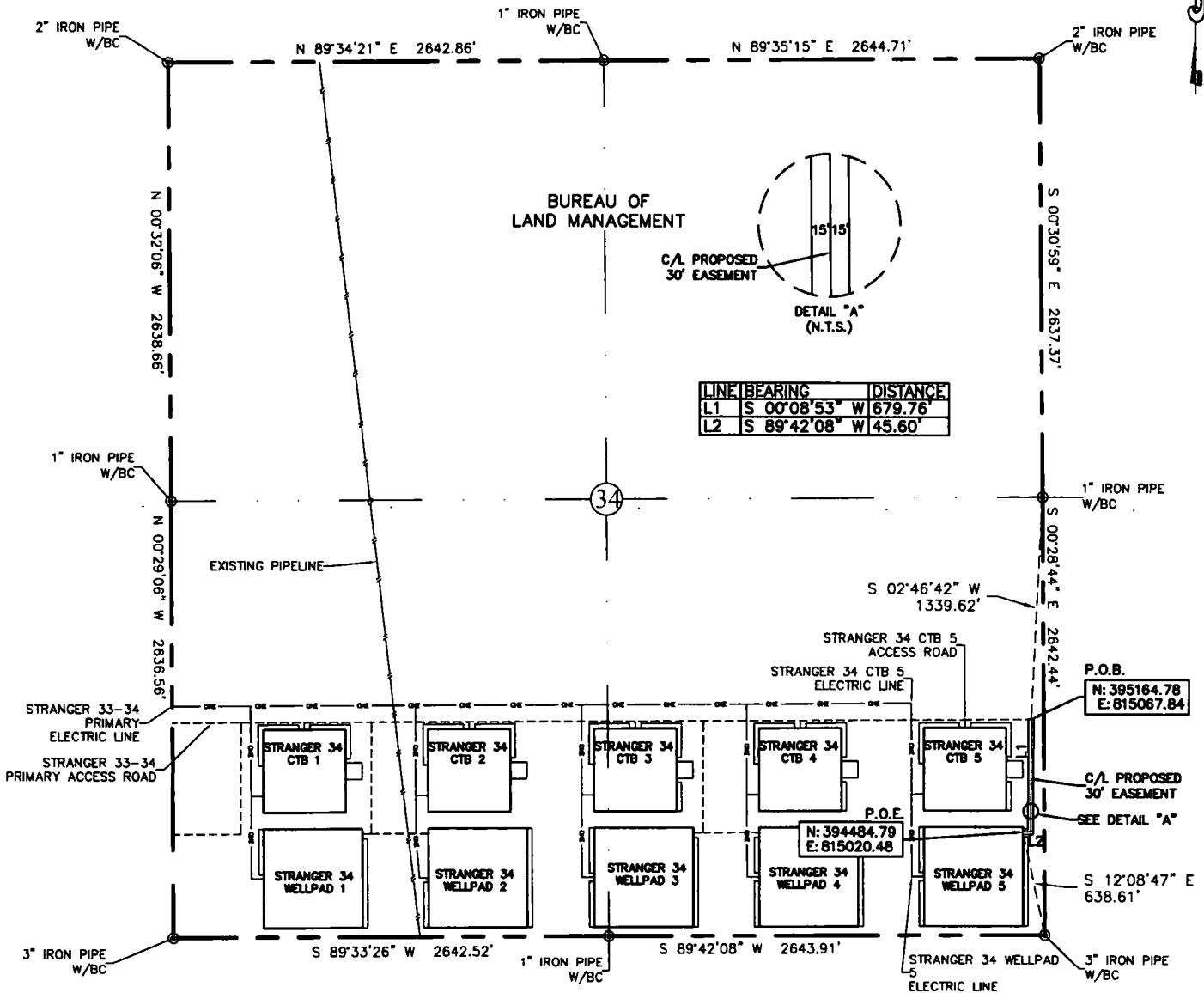
DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 09/11/2018

devon

EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.500 ACRE(S)
725.36 FEET OR 43.96 RODS

0+00.0 P.O.B./STRANGER 33-34 PRIMARY ACCESS ROAD
7+25.4 P.O.E./STRANGER 34 WELLPAD 5

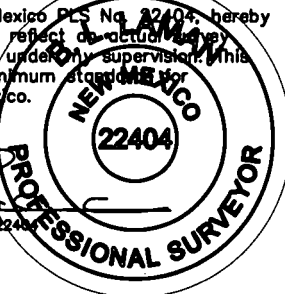
SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect as-actually-surveyed made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

0 1000 2000

B.L. Laman
Date Signed: 09-17-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JEANNIE PERRY

Date: 06/11/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 34
WELLPAD 5 ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
7840157R

WBS NUMBER:

SCALE:
1" = 1000'

REVISIONS:

DATE OF SURVEY:
5/19/18

**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the east quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 02°46'42" W a distance of 1339.62' to the **Point of Beginning** of this easement having coordinates of Northing=395164.78, Easting=815067.84 feet and continuing the following course;

Thence S 00°08'53" W a distance of 679.76' to an angle point;

Thence S 89°42'08" W a distance of 45.60' to the **Point of Ending** having coordinates of Northing=394484.79, Easting=815020.48 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E bears S 12°08'47" E a distance of 638.61', covering **725.36' or 43.96 rods** and having an area of **0.500 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404

Date Signed: 09/17/2018

Horizon Row, LLC

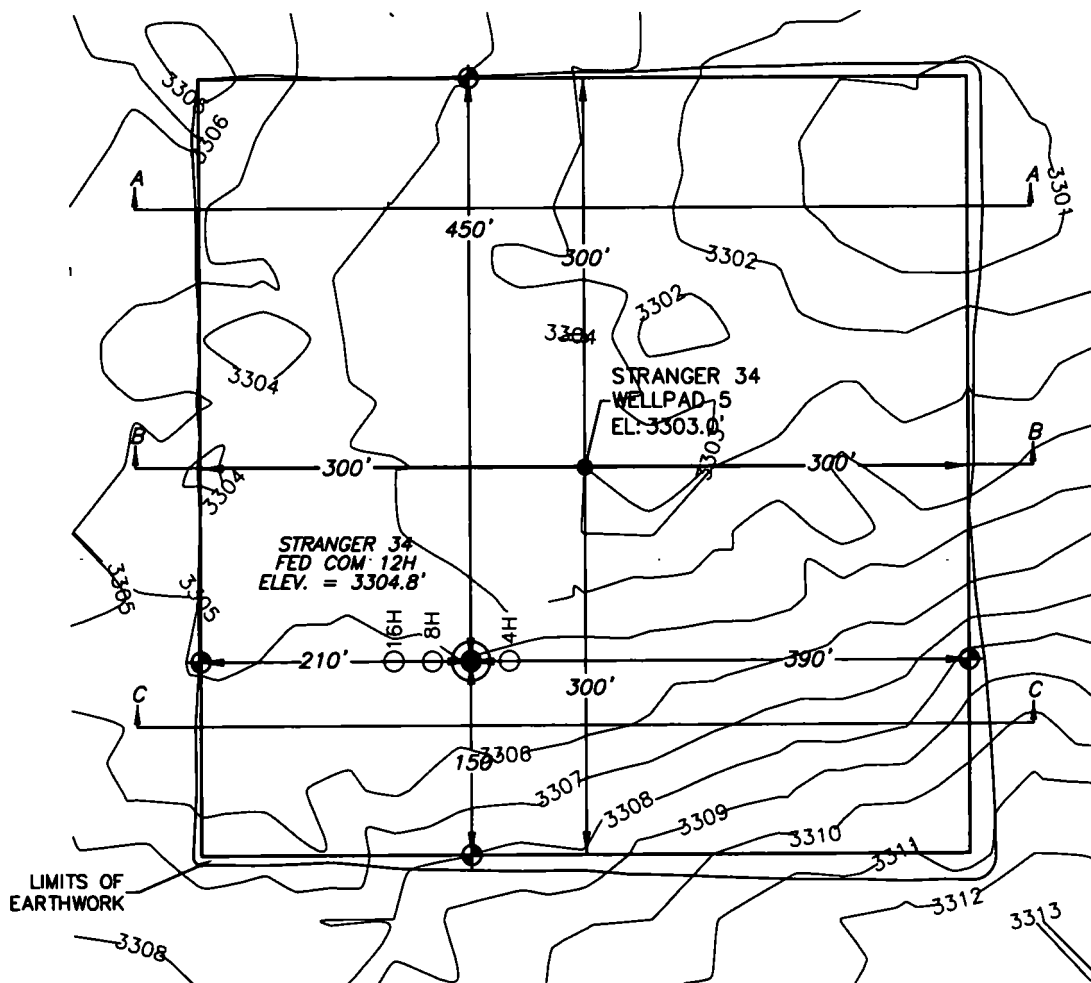
P.O. Box 548, Dry Creek, La.

(903) 388-3045 70637

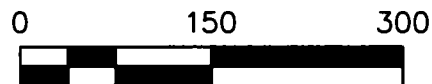
Employee of Horizon Row, LLC



SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
PLAN VIEW



DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 34 FED COM 12H
LOCATED 205 FT. FROM THE SOUTH LINE
AND 520 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



EARTHWORK QUANTITIES FOR
STRANGER 34 WELLPAD 5

CUT	FILL	NET
11,284 CY	11,284 CY	0 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 08/11/2018

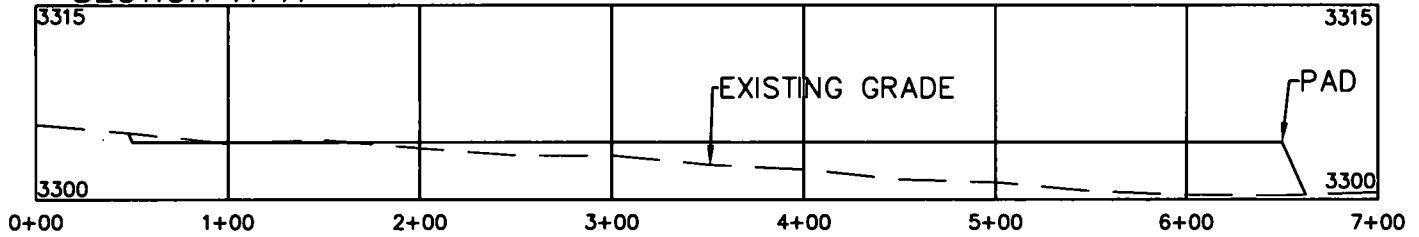
Drawn for:


devon

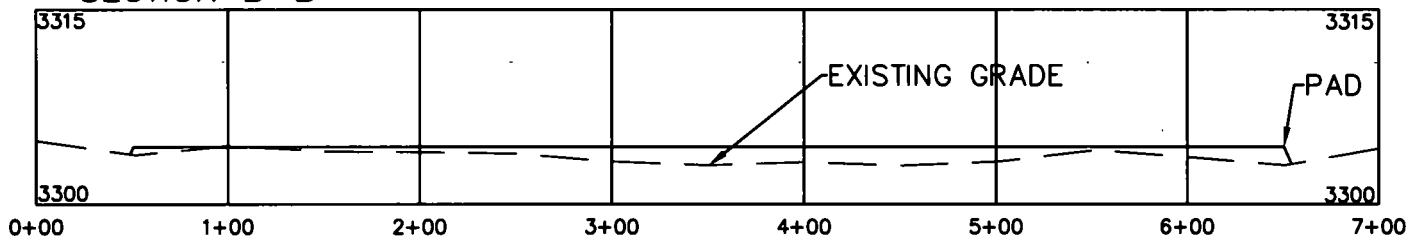
SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
CROSS SECTIONS



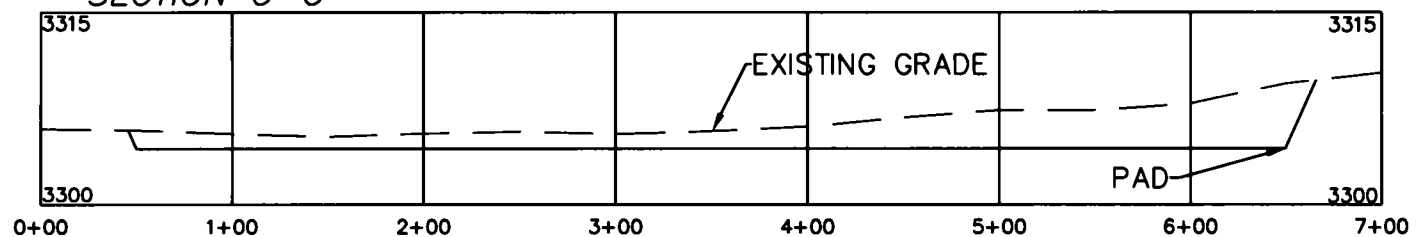
SECTION A-A



SECTION B-B



SECTION C-C



DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 34 FED COM 12H
LOCATED 205 FT. FROM THE SOUTH LINE
AND 520 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

SCALE 1" = 100' HORIZONTAL
SCALE 1" = 15' VERTICAL

EARTHWORK QUANTITIES FOR
STRANGER 34 WELLPAD 5

CUT	FILL	NET
11,284 CY	11,284 CY	0 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 09/11/2018

Drawn for:





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

Drilling Plan Data Report

04/30/2019

APD ID: 10400036813

Submission Date: 11/29/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	---	3308	0	0	SANDSTONE, OTHER SURFACE	NONE	No
2	RUSTLER	2428	880	880	SANDSTONE	NONE	No
3	TOP SALT	2036	1272	1272	SALT	NONE	No
4	BASE OF SALT	-1755	5063	5063	LIMESTONE	NONE	No
5	BELL CANYON	-2078	5386	5386	SANDSTONE	NATURAL GAS, OIL	No
6	CHERRY CANYON	-3058	6366	6366	SANDSTONE	NATURAL GAS, OIL	No
7	BRUSHY CANYON	-4773	8081	8081	SANDSTONE	NATURAL GAS, OIL	No
8	BONE SPRINGS	-6147	9455	9455	SHALE	NATURAL GAS, OIL	No
9	BONE SPRING 1ST	-7175	10483	10483	SANDSTONE	NATURAL GAS, OIL	No
10	BONE SPRING 2ND	-7725	11033	11033	SANDSTONE	NATURAL GAS, OIL	No
11	BONE SPRING 3RD	-8812	12120	12120	SANDSTONE	NATURAL GAS, OIL	No
12	WOLFCAMP	-9268	12576	12576	SHALE	NATURAL GAS, OIL	Yes
13	STRAWN	-11680	14988	14988	LIMESTONE	NATURAL GAS, OIL	No

Section 2 - Blowout Prevention

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

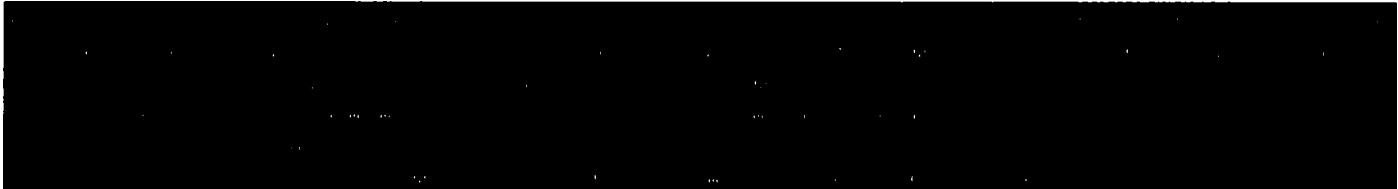
Well Number: 12H

Pressure Rating (PSI): 10M

Rating Depth: 12780



Requesting Variance? YES



Choke Diagram Attachment:

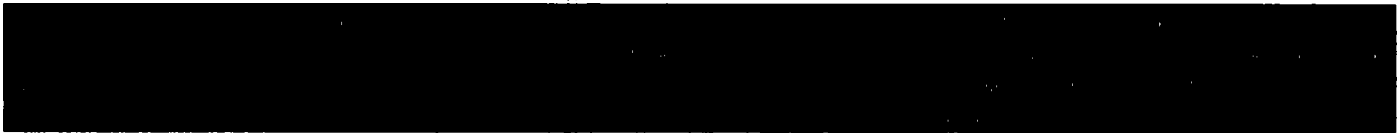
10M_BOPE_CHK_DR_CLS_RKL_20190325071515.pdf

BOP Diagram Attachment:

10M_BOPE_CHK_DR_CLS_RKL_20190325071524.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12741



Requesting Variance? YES



Choke Diagram Attachment:

5M_BOPE_CK_20181009072557.pdf

BOP Diagram Attachment:

5M_BOPE_CK_20181009072606.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.75	10.75	NEW	API	N	0	820	0	820			820	J-55	40.5	STC	1.125	1.25	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	12211	0	12207			12211	P-110	29.7	OTHER - BTC	1.125	1.25	BUOY	1.6	BUOY	1.6
3	INTERMEDIATE	8.75	7.625	NEW	API	N	12211	12925	12207	12741			714	P-110	29.7	OTHER - FLUSHMAX	1.125	1.25	BUOY	1.6	BUOY	1.6
4	PRODUCTION	6.75	5.5	NEW	API	N	0	17748	0	12780			17748	P-110	20	OTHER - VAM SG	1.125	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Surf_Csg_Ass_20181009072657.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Int_Csg_Ass_20181009072743.pdf

Casing ID: 3 **String Type:**INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Int_Csg_Ass_20181009073352.pdf

Casing ID: 4 **String Type:**PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Prod_Csg_Ass_20181106101143.pdf

Section 4 - Cement

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		0	0	0	0	0	0			0

SURFACE	Lead		0	820	510	1.34	14.8	684	50		1% Calcium Chloride
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INTERMEDIATE	Lead		0	8925	732	3.27	9	2394	30		TUNED LIGHT
INTERMEDIATE	Tail		8925	12925	607	1.6	13.2	971	30	H	Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
PRODUCTION	Lead		12725	17748	393.95	1.33	13.2	524	25		0.125 lbs/sack Poly-E-Flake

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1292 5	1774 8	OIL-BASED MUD	10	12				12			
0	820	SPUD MUD	8.33	9				2			
820	1292 5	SALT SATURATED	9	10				2			
820	1292 5	SALT SATURATED	9	10				2			

Section 6 - Test, Logging, Coring

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

Will run GRMWD from TD to from KOP. Cement bond logs will be run in vertical to determine top of cement. Stated logs run will be in the Completion Report and submitted to the BLM.

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

CALIPER,CBL,DS,GR,MUDLOG

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7000

Anticipated Surface Pressure: 4188.39

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Stranger_34_Fed_Com_12H_H2S_Plan_20181129100807.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Stranger_34_Fed_12H_Dir_Svy_20181129100837.pdf

Stranger_34_Fed_12H_Plot_Permit_Plan_1_20181129100838.pdf

Other proposed operations facets description:



Other proposed operations facets attachment:

MB_Wellhd_10M_20180823120206.pdf

Spudder_Rig_Info_20180823120206.pdf

MB_Wellhd_10M_2_20180823120321.PDF

Clsd_Loop_20180823120203.pdf

Stranger_34_Fed_Com_WP_5_GCP_Form_20181128115215.pdf

5.5_20_P110_EC_VAMSG_20190325075643.pdf

8.625_32.00_P110HSCY_TLW_20190325075644.PDF

7.625_29.70_P110_Flushmax_20190325075643.pdf

10.750_40.50_J55_USS_20190325075645.PDF

13.375_48_H40_20190325075646.pdf

MB_Verb_10M_20190325075716.pdf

Stranger_34_Fed_12H_Drilling_Document_R1_20190325080551.pdf

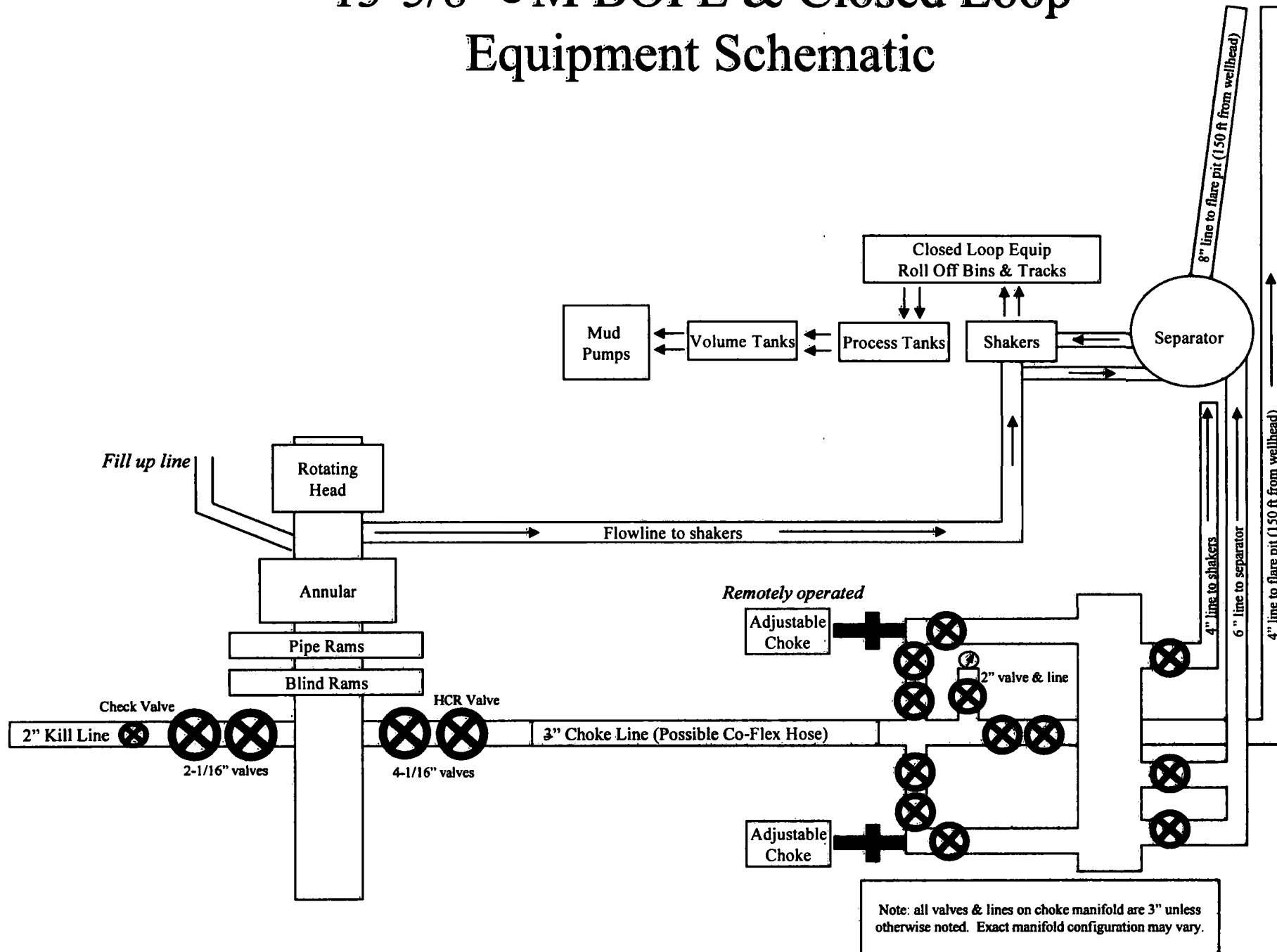
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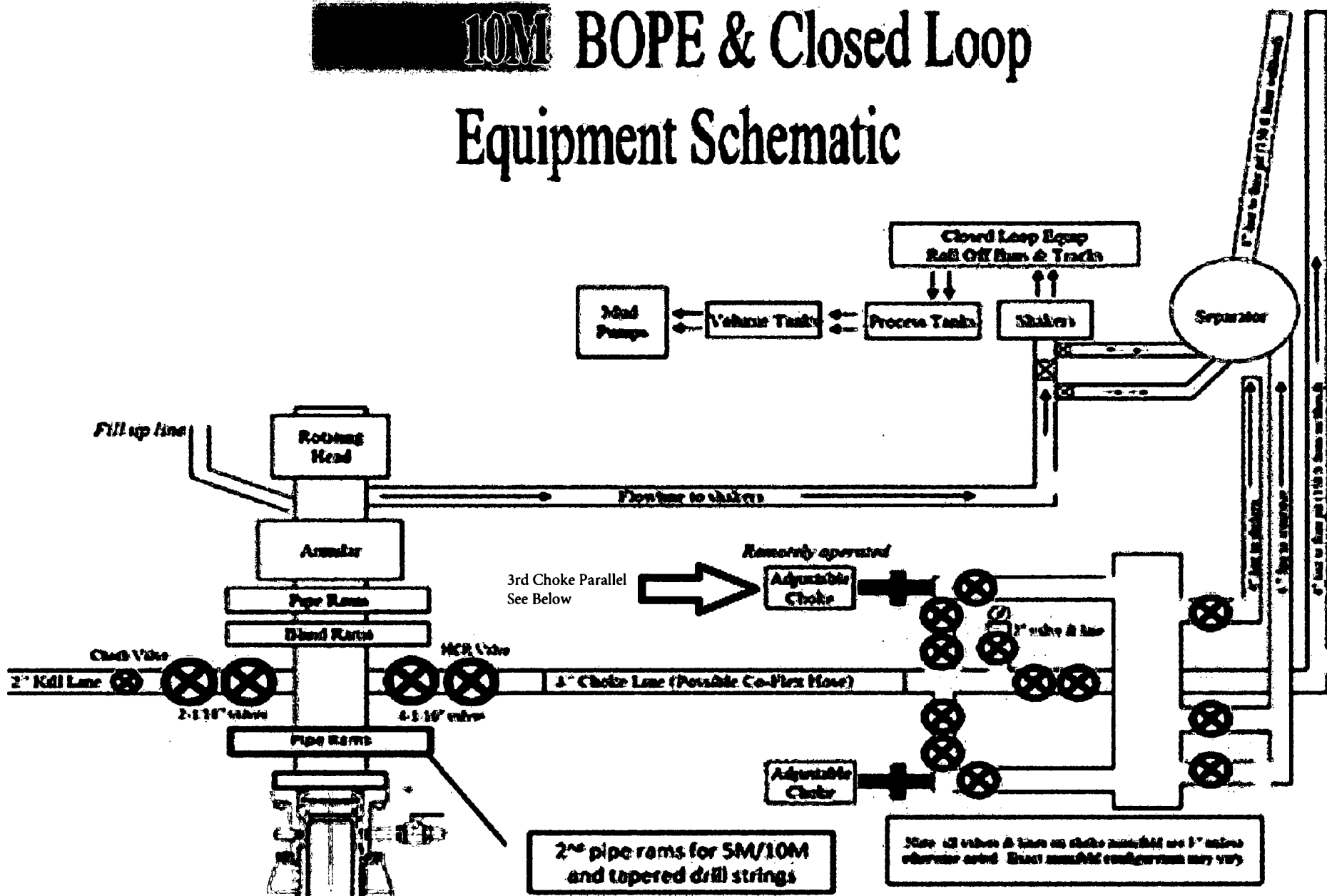
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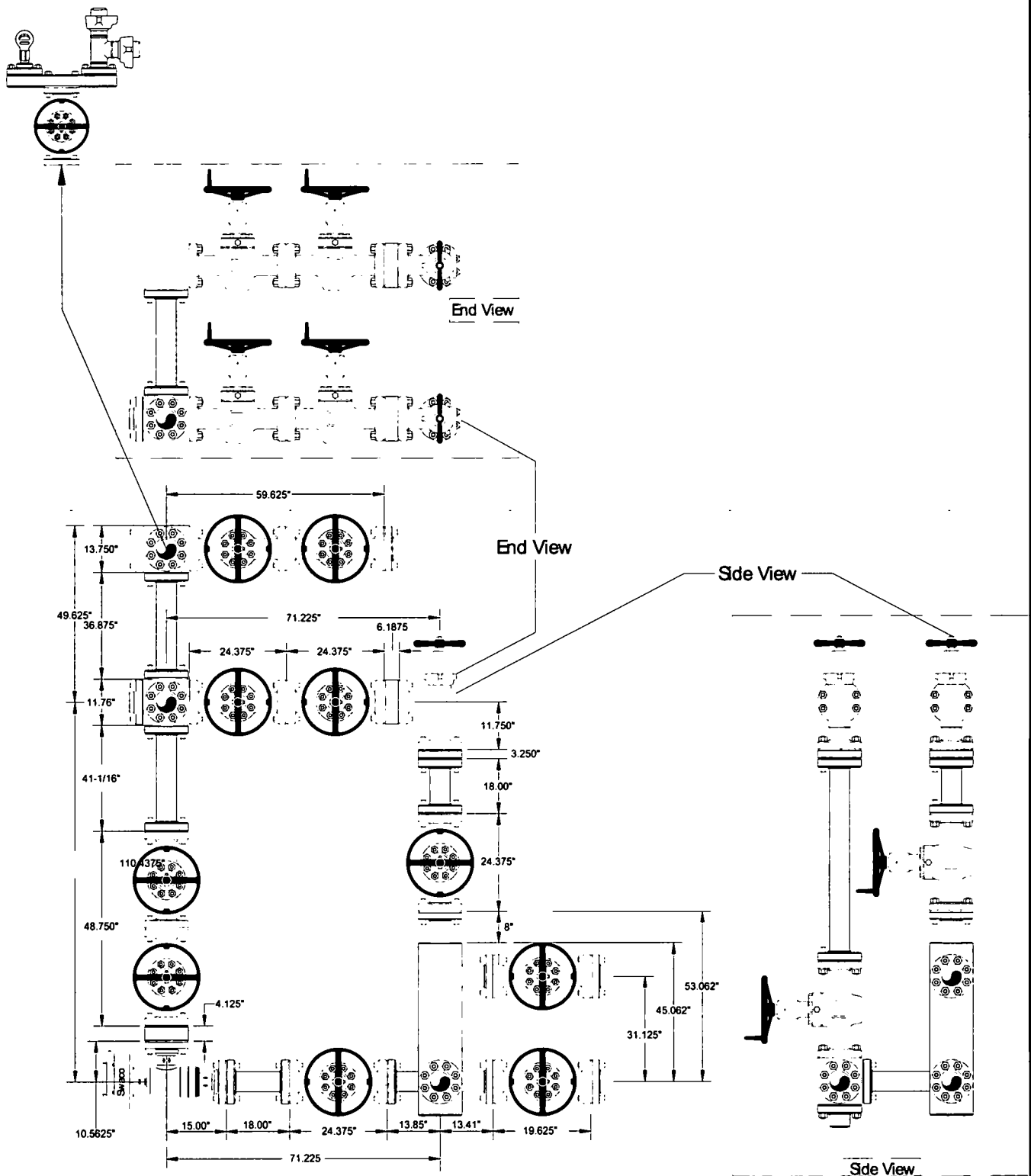
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13-5/8" 5M BOPE & Closed Loop Equipment Schematic



10M BOPE & Closed Loop Equipment Schematic



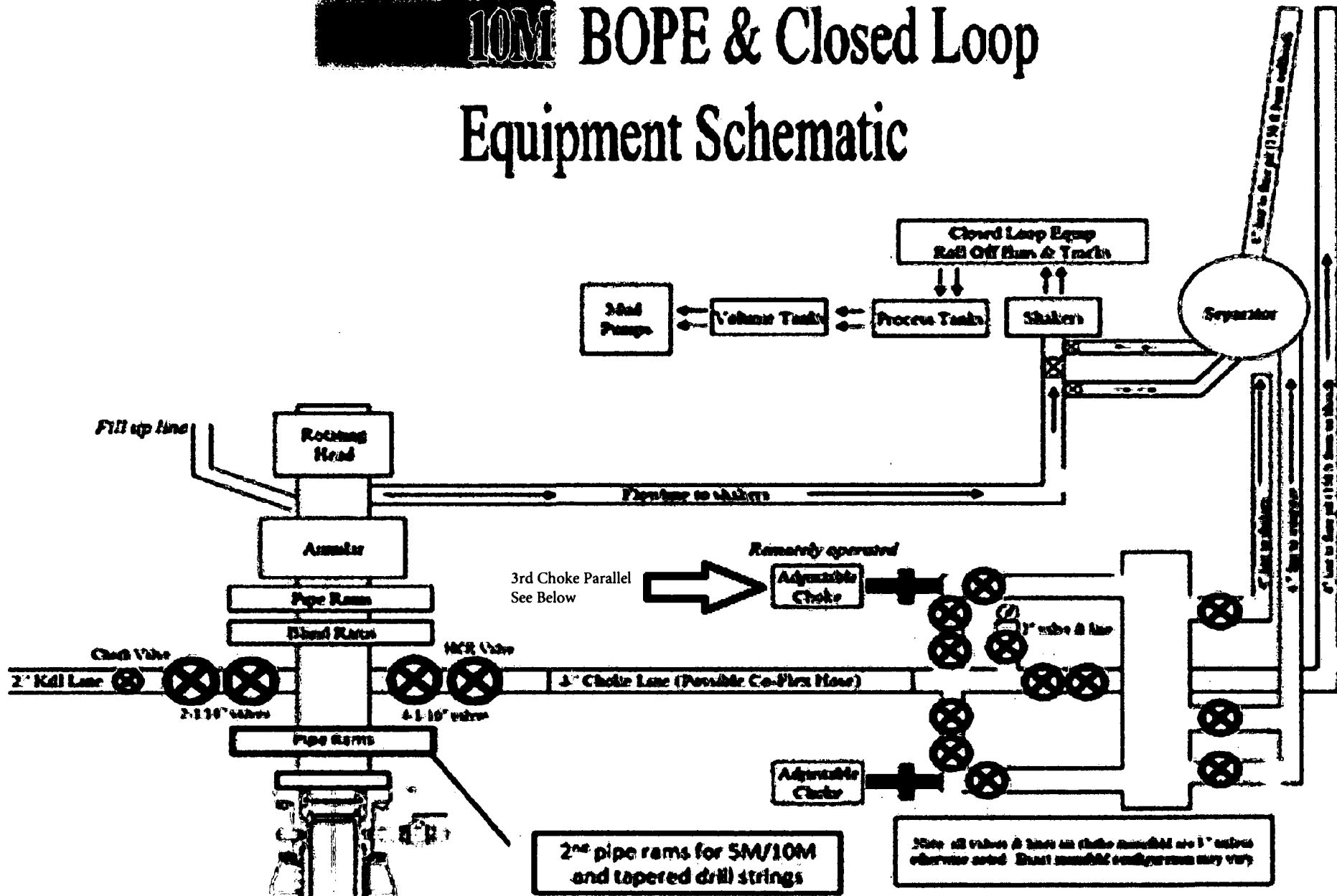


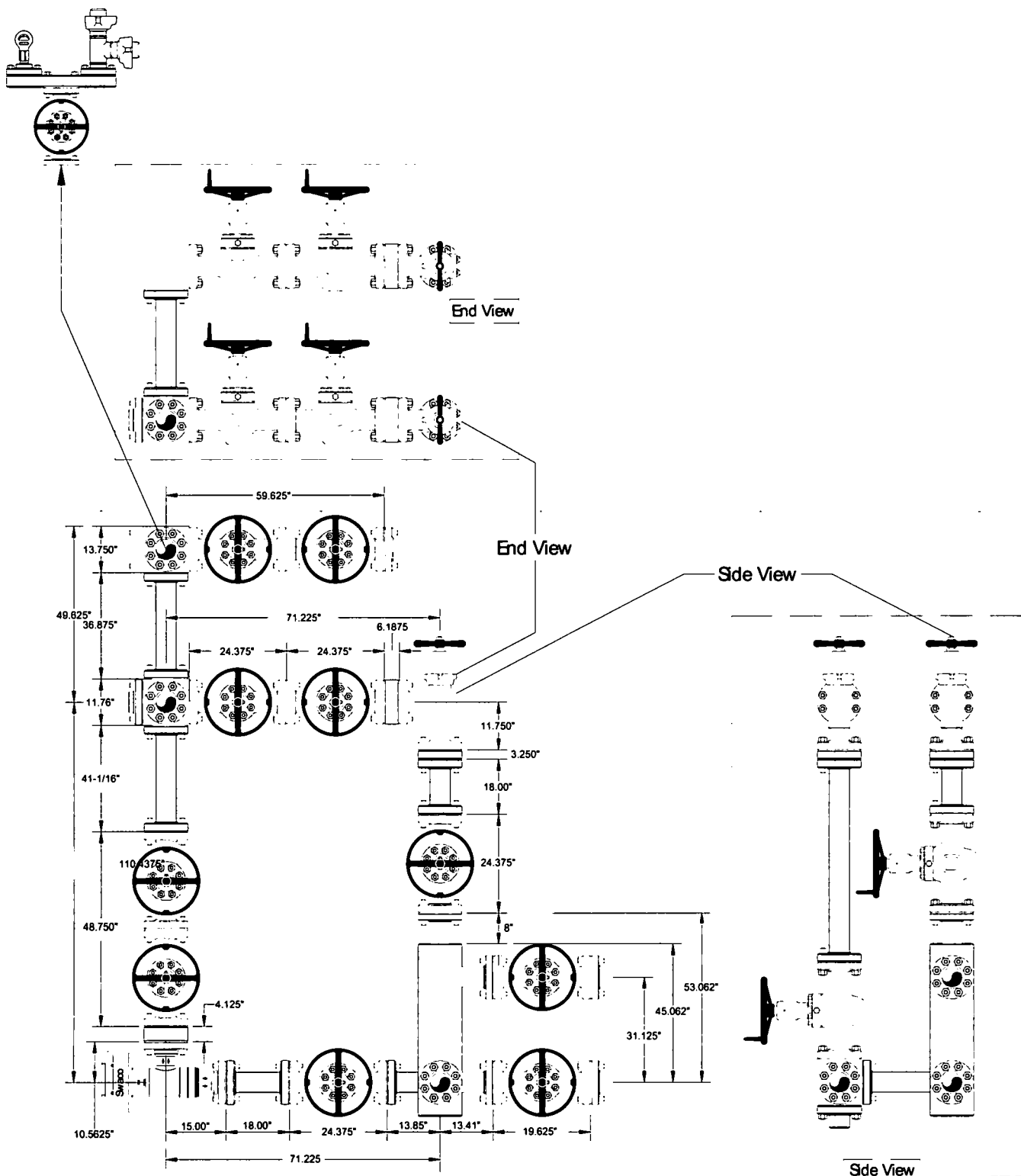
Helmerich & Payne
Fig 282

CAMERON

Name: Jeanette	Date: 7-19-06	Working Pressure:	#	J-5132-E
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10M BOPE & Closed Loop Equipment Schematic



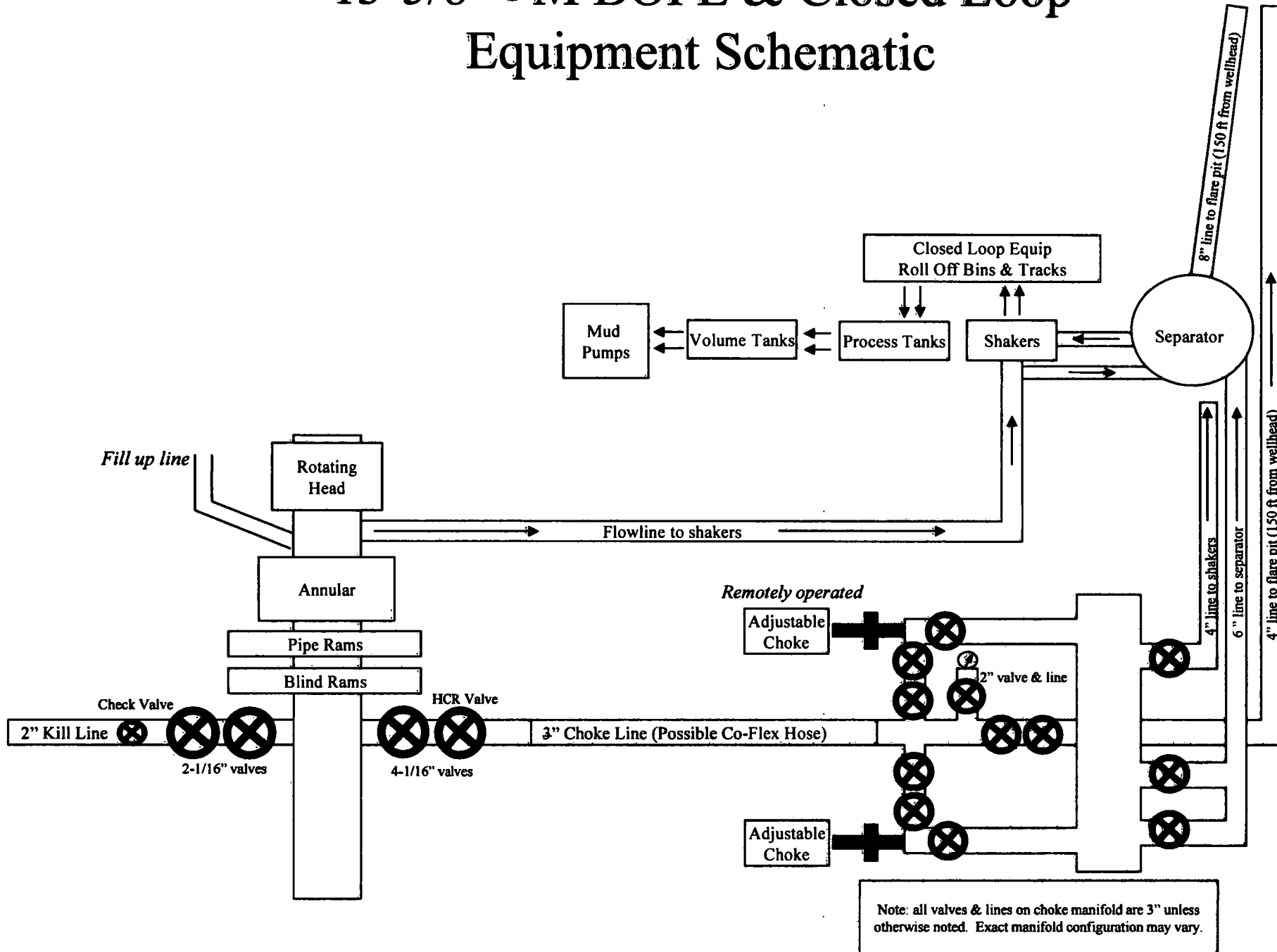


Helmerich & Payne
Fig 282

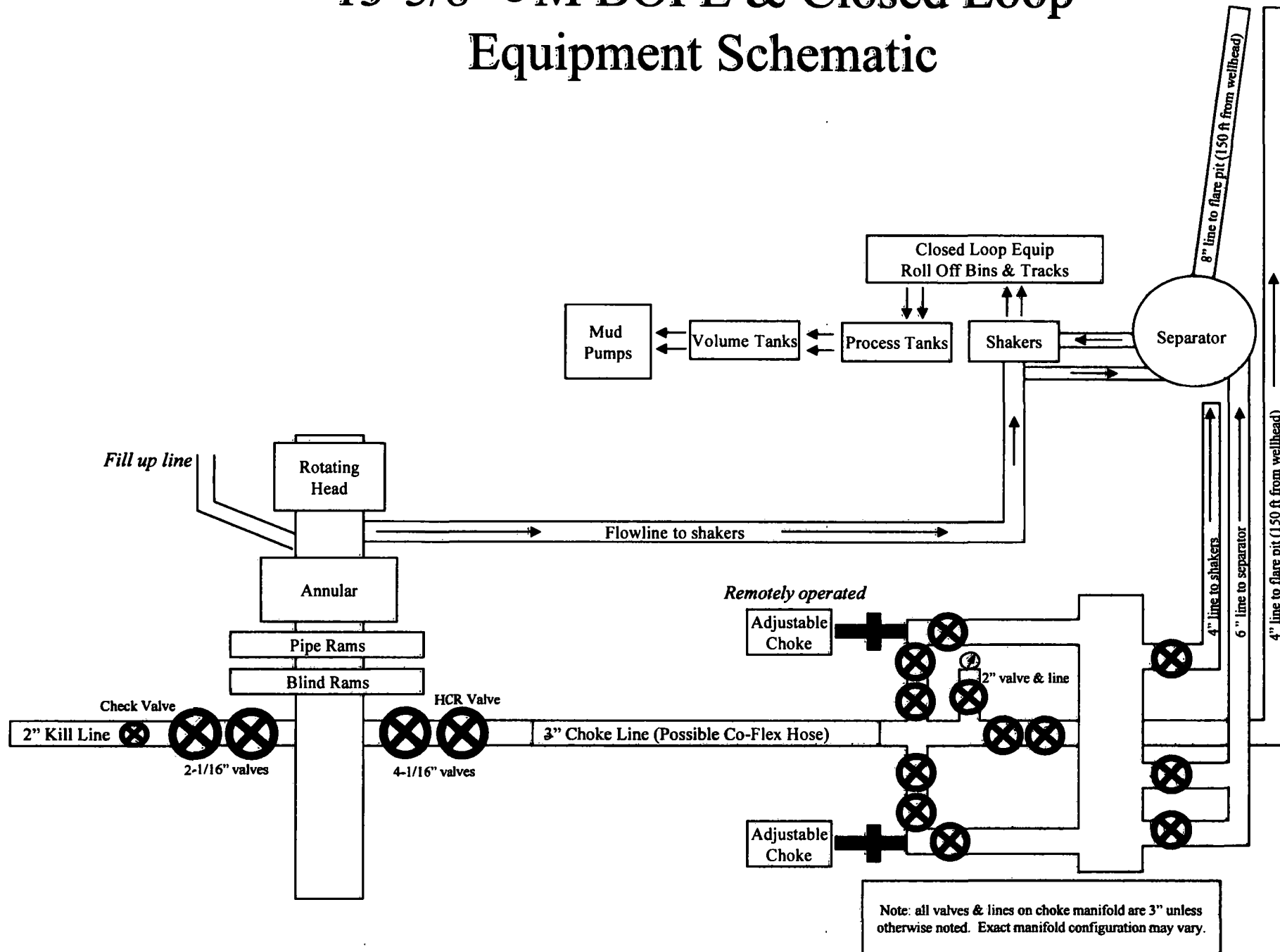
CAMERON

Name	Jeanette	Date	7-19-06	Working Pressure	#	J5132-E
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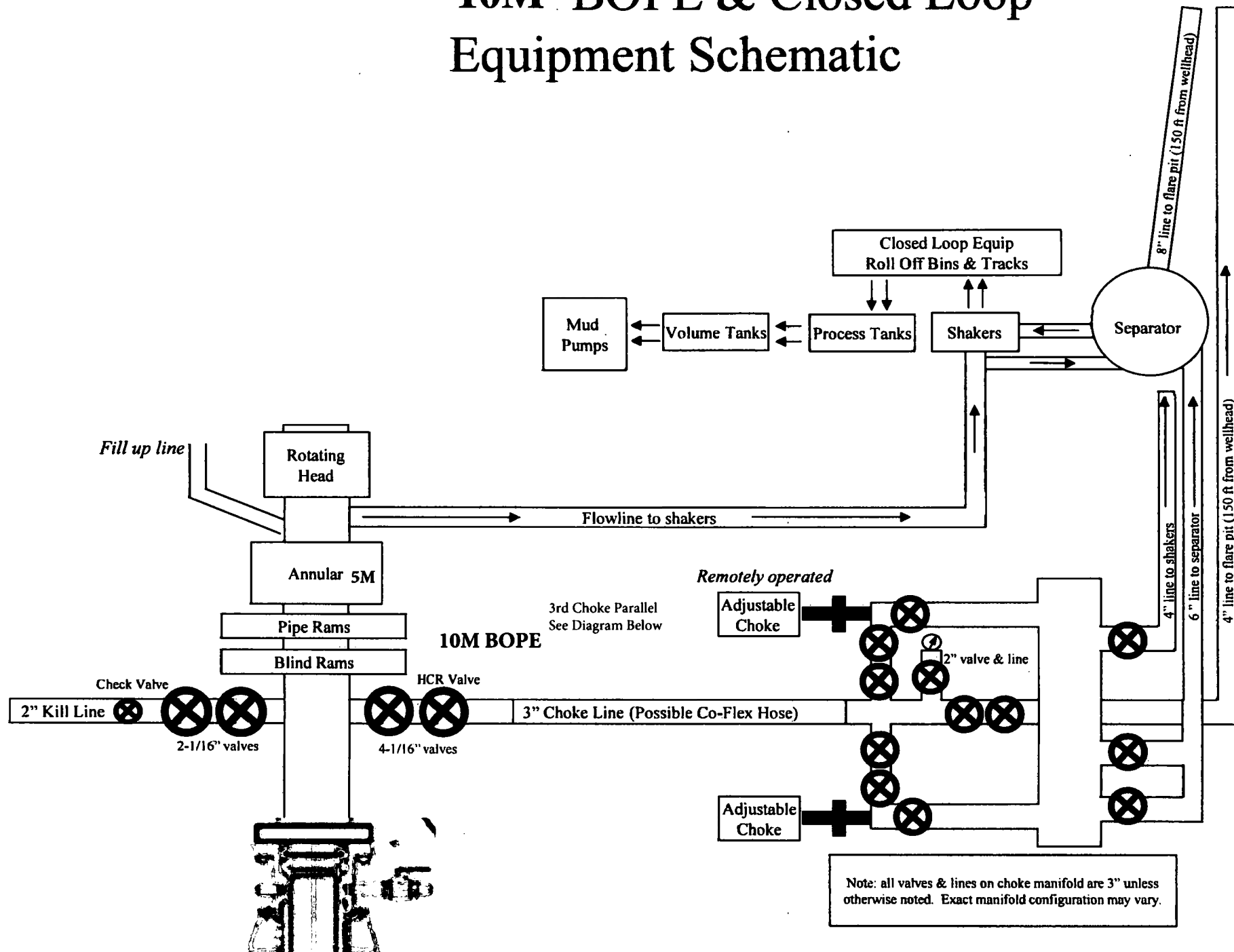
13-5/8" 5M BOPE & Closed Loop Equipment Schematic

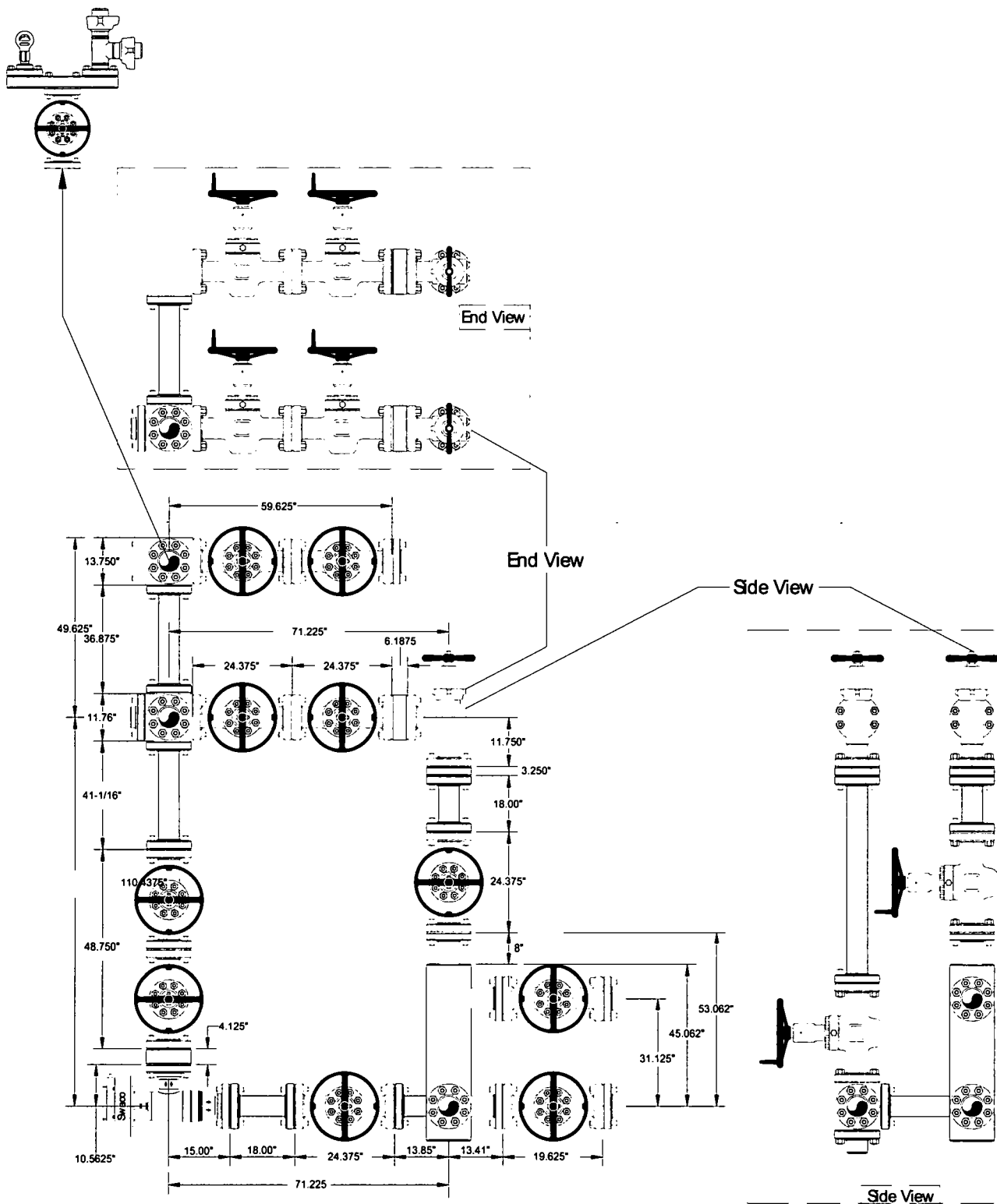


13-5/8" 5M BOPE & Closed Loop Equipment Schematic



10M BOPE & Closed Loop Equipment Schematic



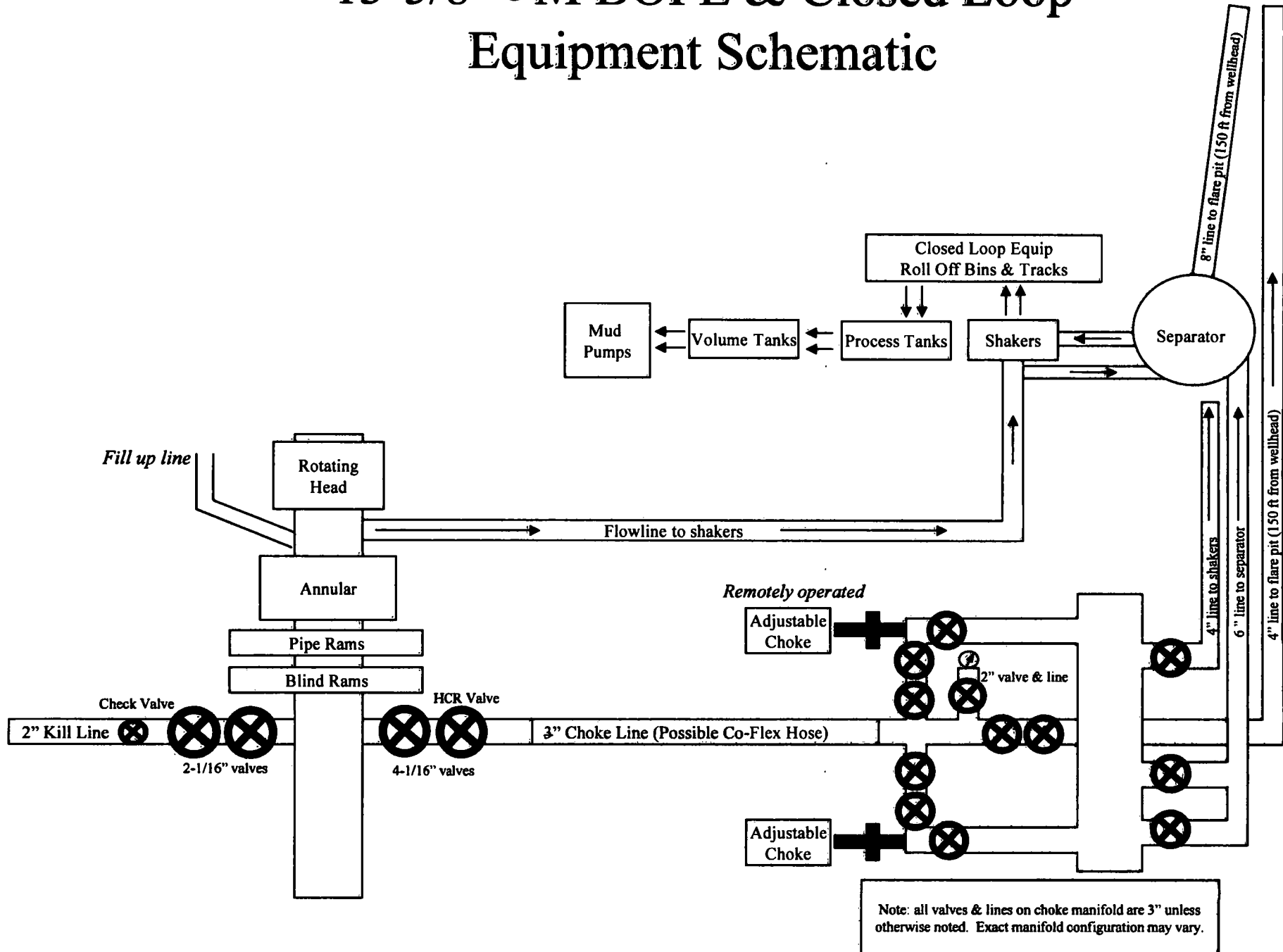


Helmerich & Payne
Fig 282

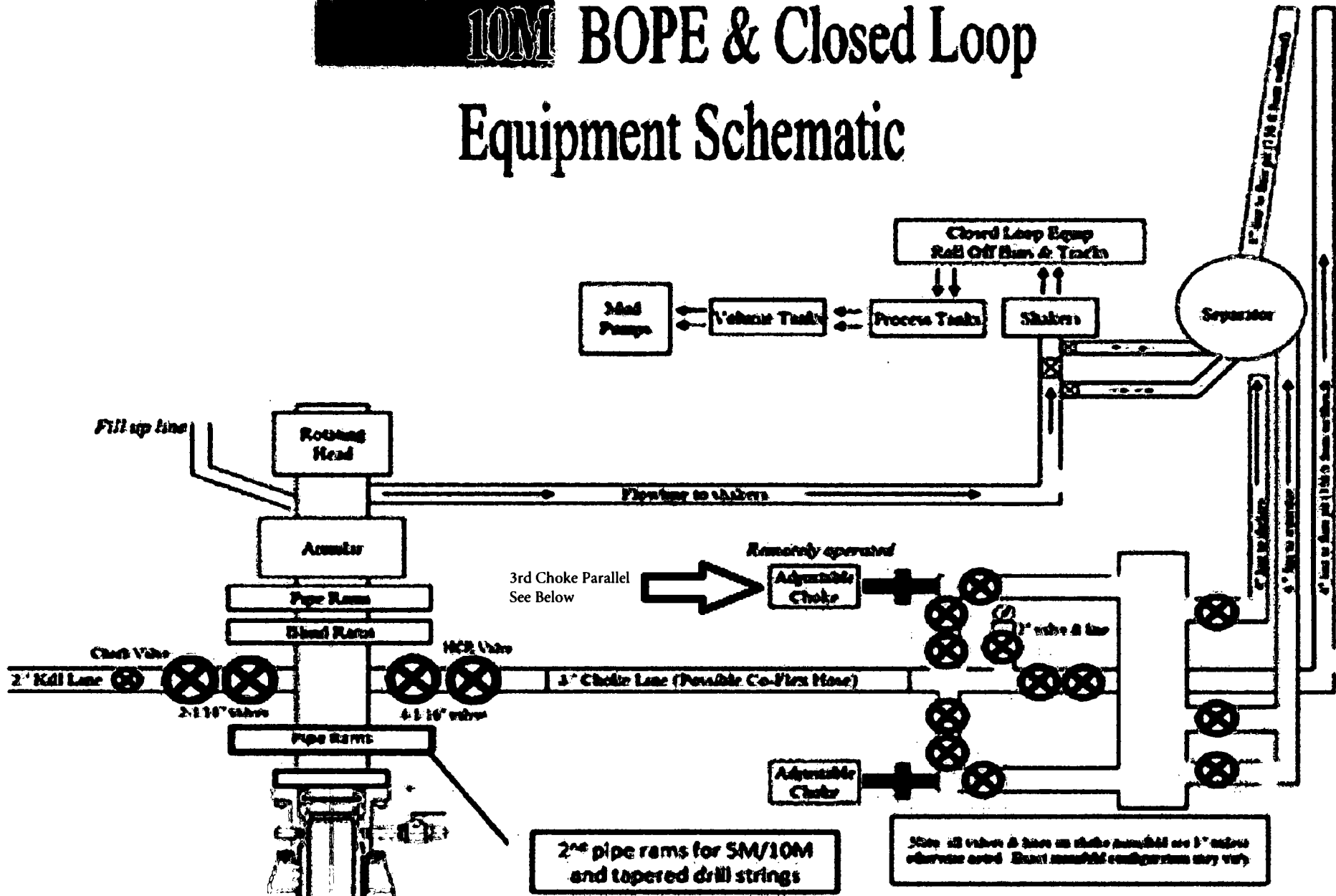
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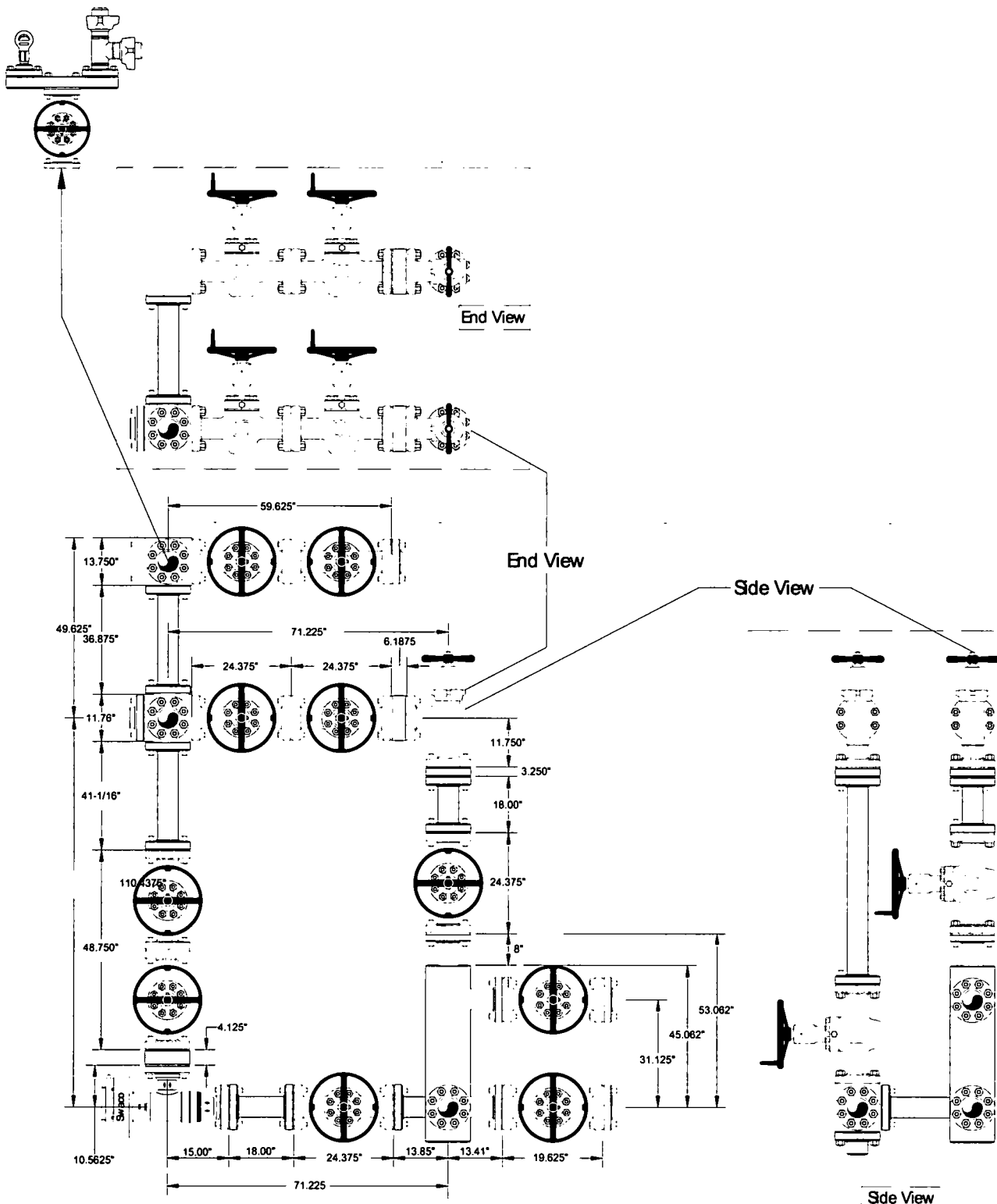
Name	Jeanette	Date	7-19-06	Working Pressure	#	J-5132-E
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13-5/8" 5M BOPE & Closed Loop Equipment Schematic



10M BOPE & Closed Loop Equipment Schematic



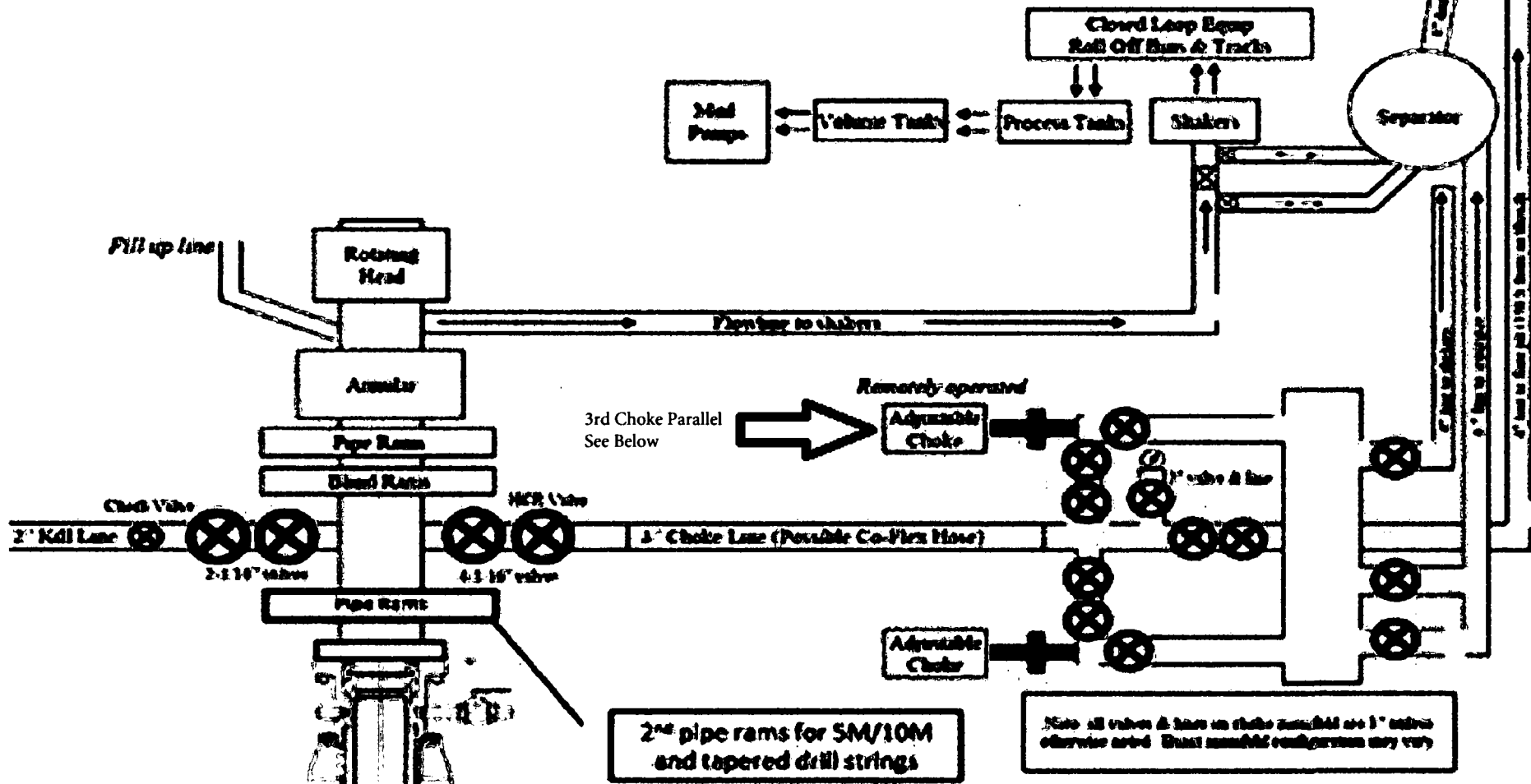


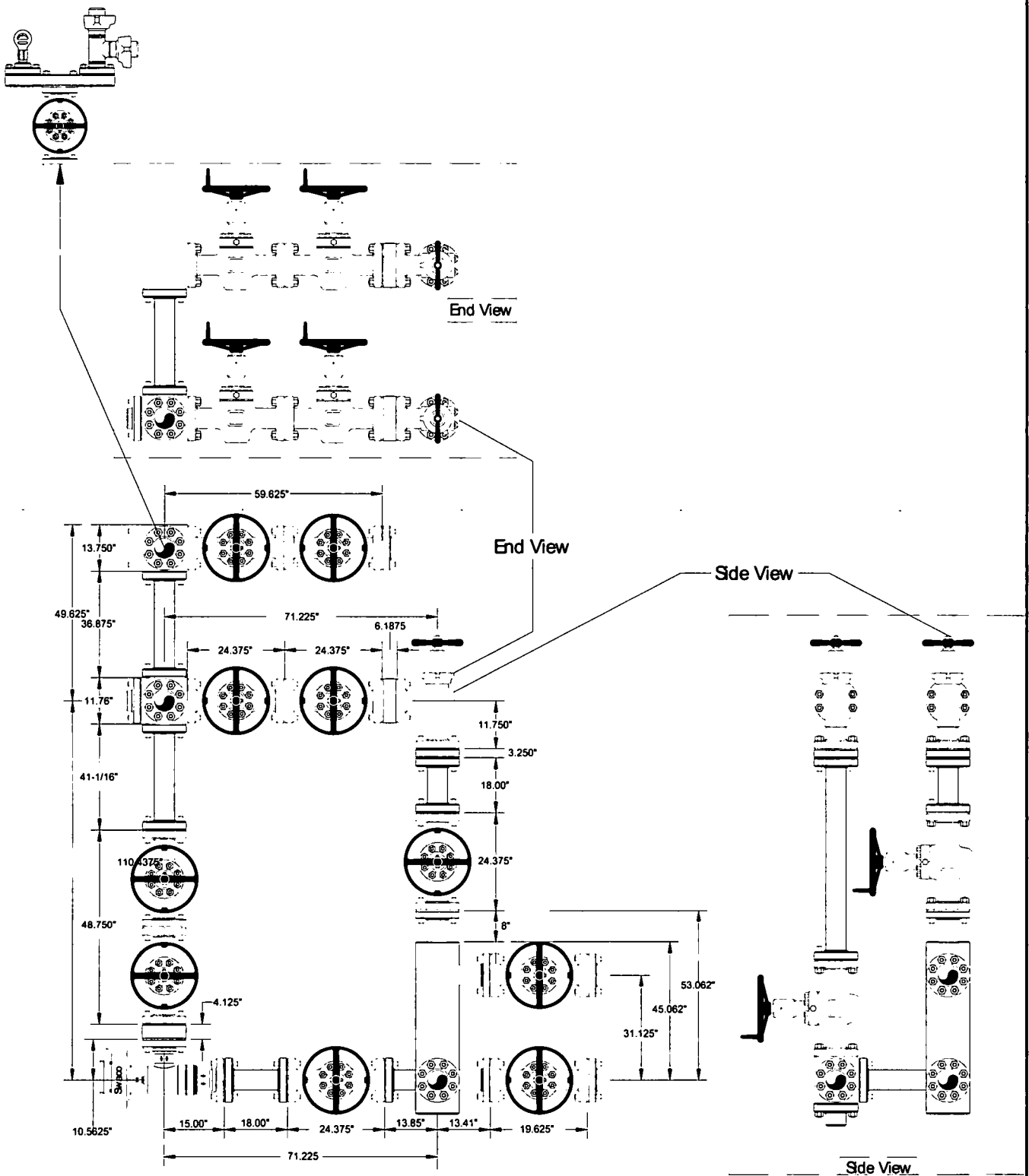
Helmerich & Payne
Fig 282

CAMERON

Name: Jeanette	Date: 7-19-06	Working Pressure:	# J-5132-E
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10M BOPE & Closed Loop Equipment Schematic



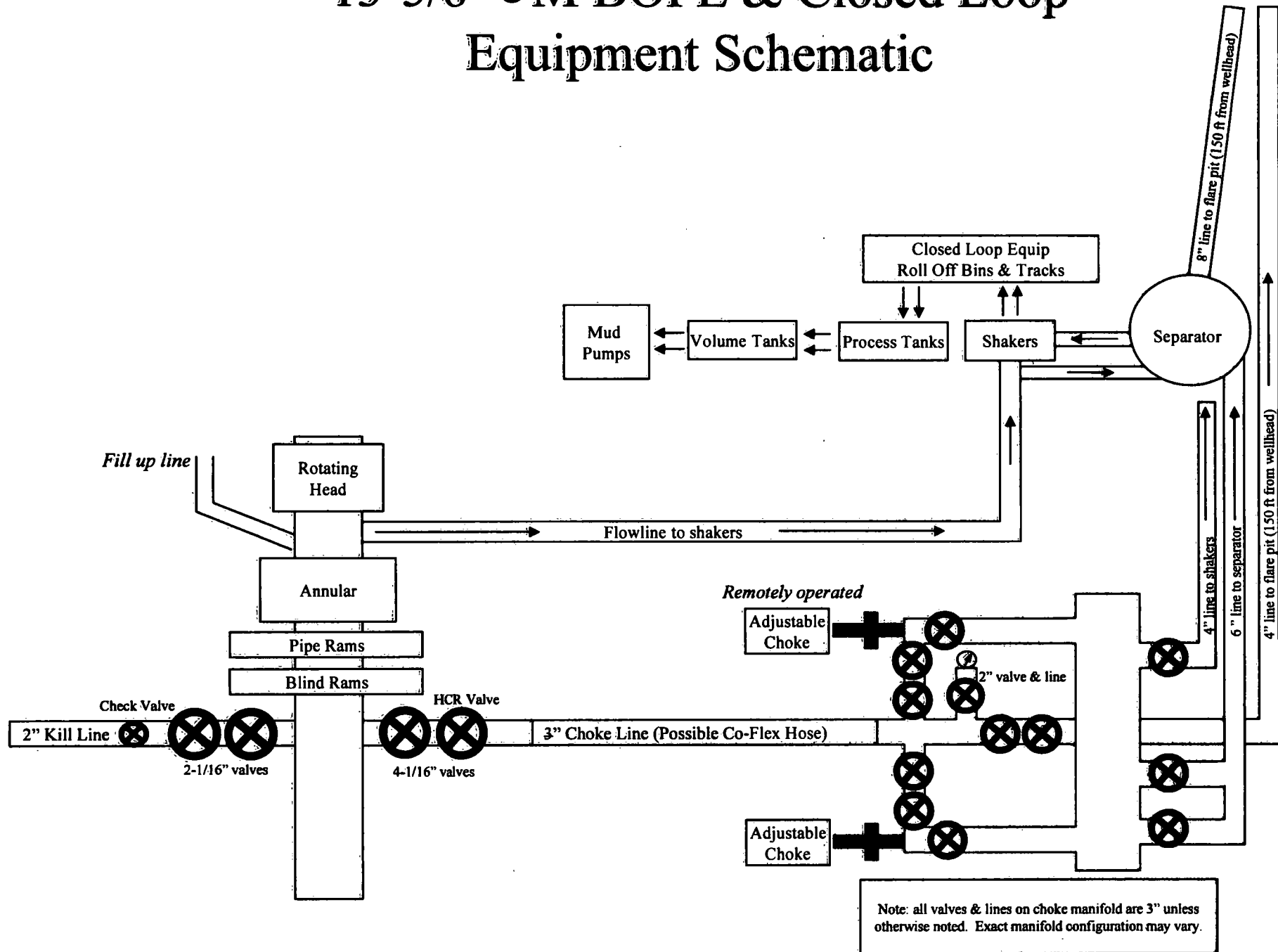


Helmerich & Payne
Fig 282

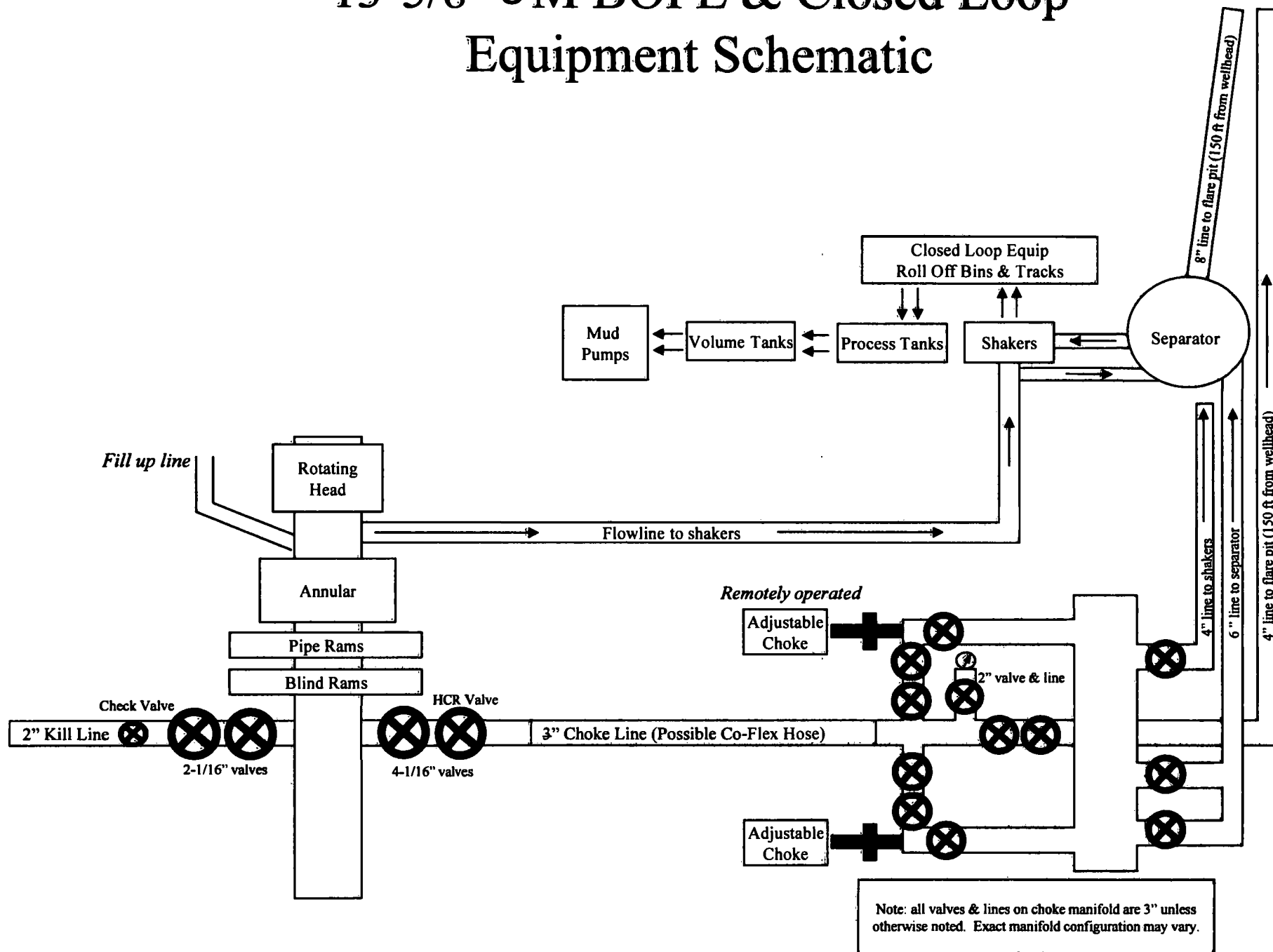
CAMERON

Name: Jeanette	Date: 7-19-06	Working Pressure:	# J5132-E
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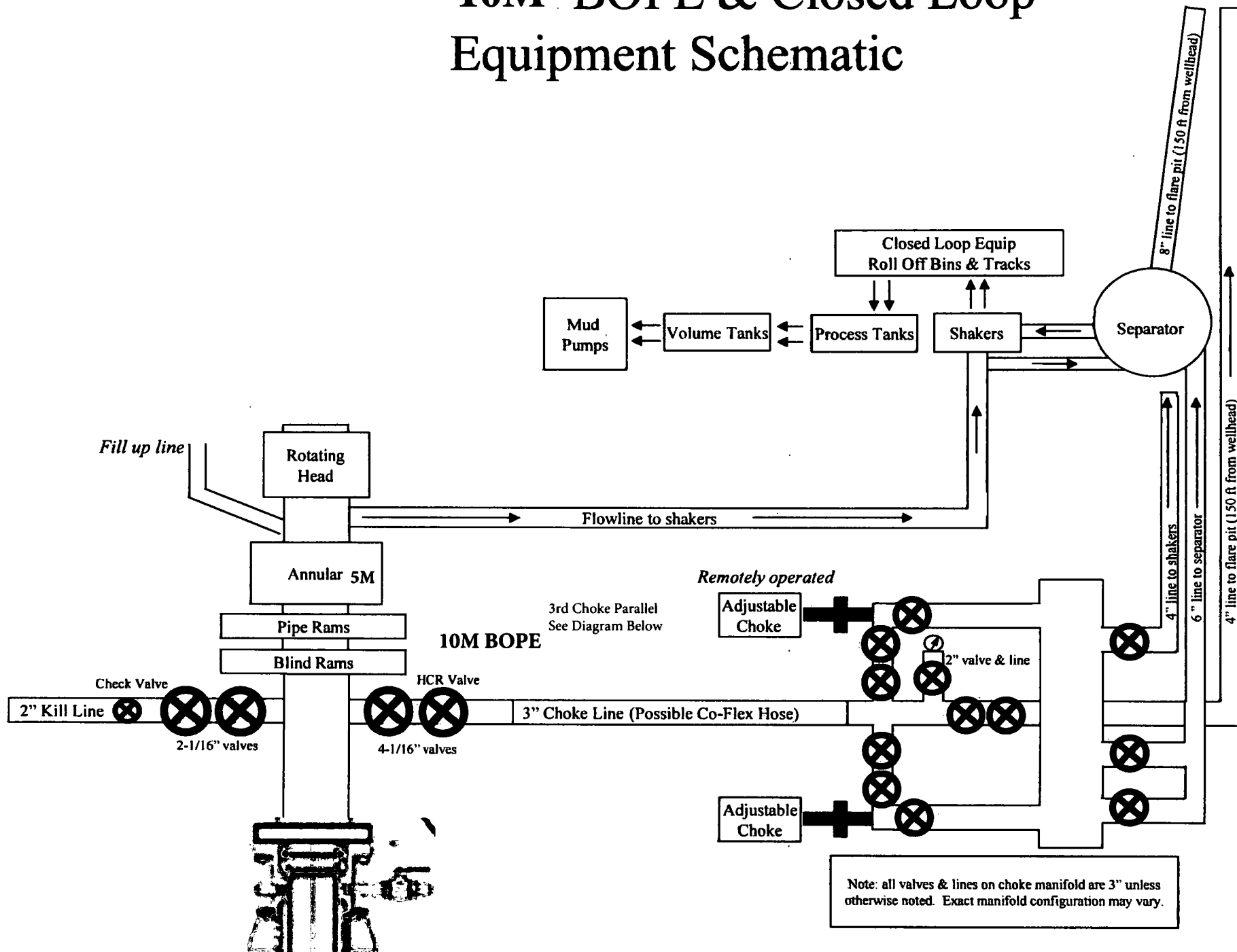
13-5/8" 5M BOPE & Closed Loop Equipment Schematic

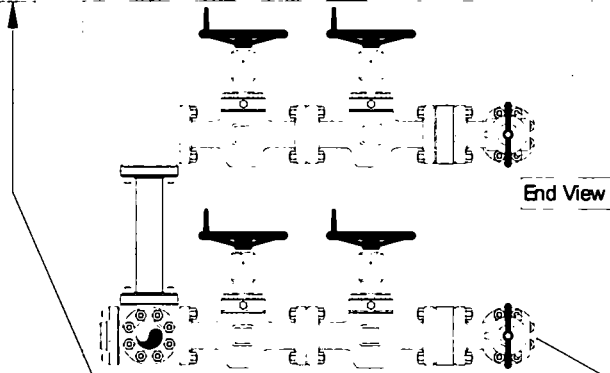
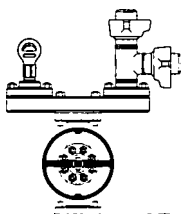


13-5/8" 5M BOPE & Closed Loop Equipment Schematic

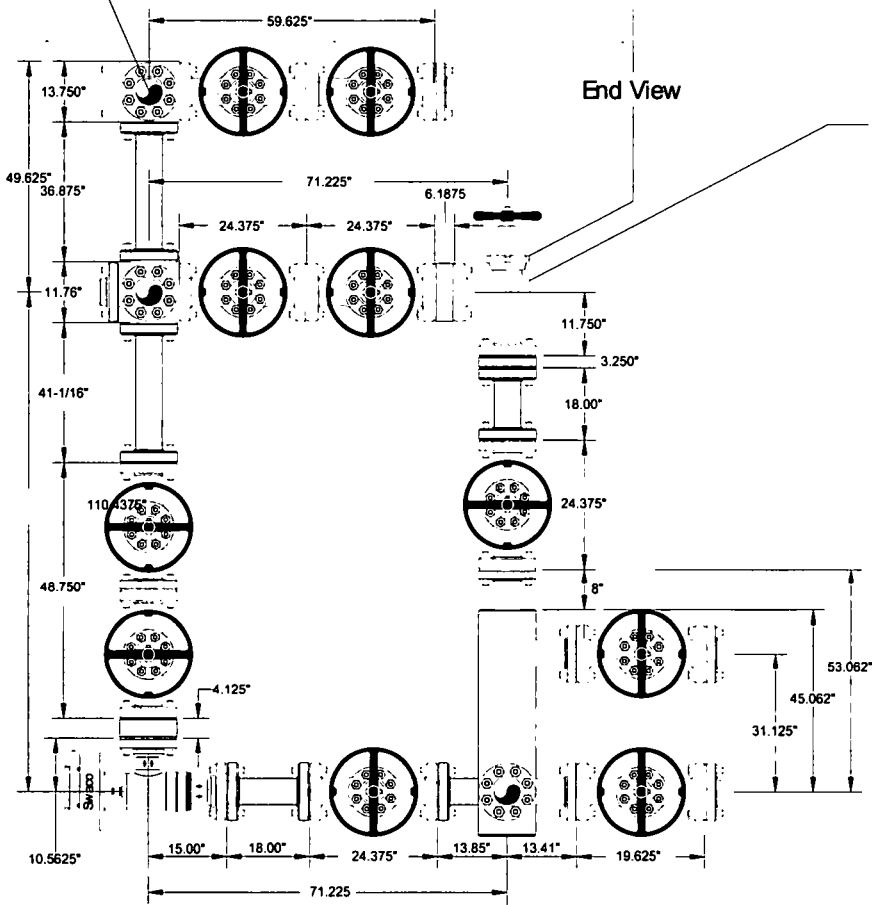


10M BOPE & Closed Loop Equipment Schematic

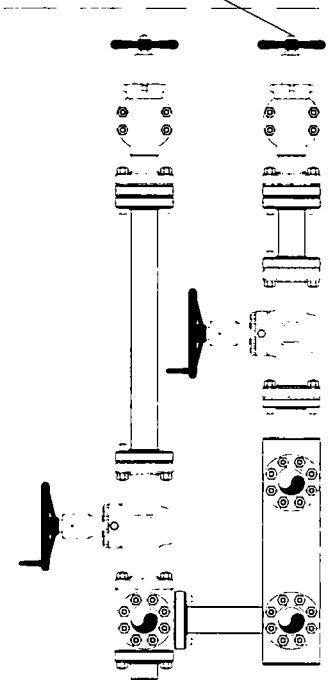




End View



Side View



Side View

Helmerich & Payne
Fig 282



Name	Jeanette	Date	7-19-06	Working Pressure		#	J5132-E
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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

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

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

Intermediate

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

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

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

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

Casing Assumptions and Load Cases

Production

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

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

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

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



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

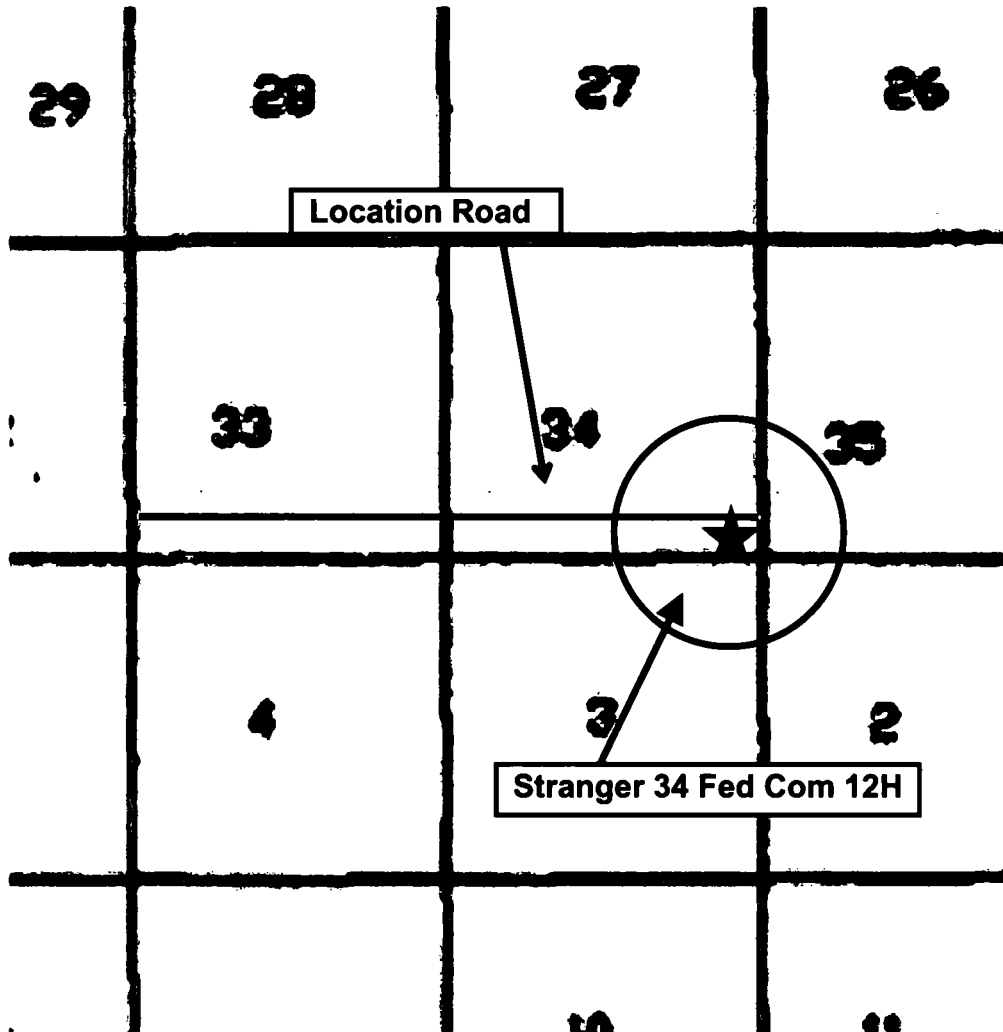
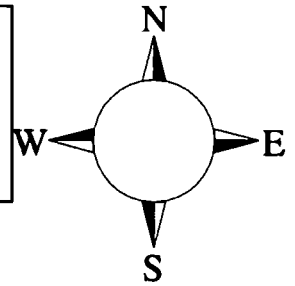
Stranger 34 Fed Com 12H

**Sec-34 T-25S R-34E
205' FSL & 520' FEL
LAT. = 32.0802855' N (NAD83)
LONG = 103.4509461' W**

Lea County NM

Stranger 34 Fed Com 12H

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



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

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

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

II. HYDROGEN SULFIDE TRAINING

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

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

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

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

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

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

7. Well testing:

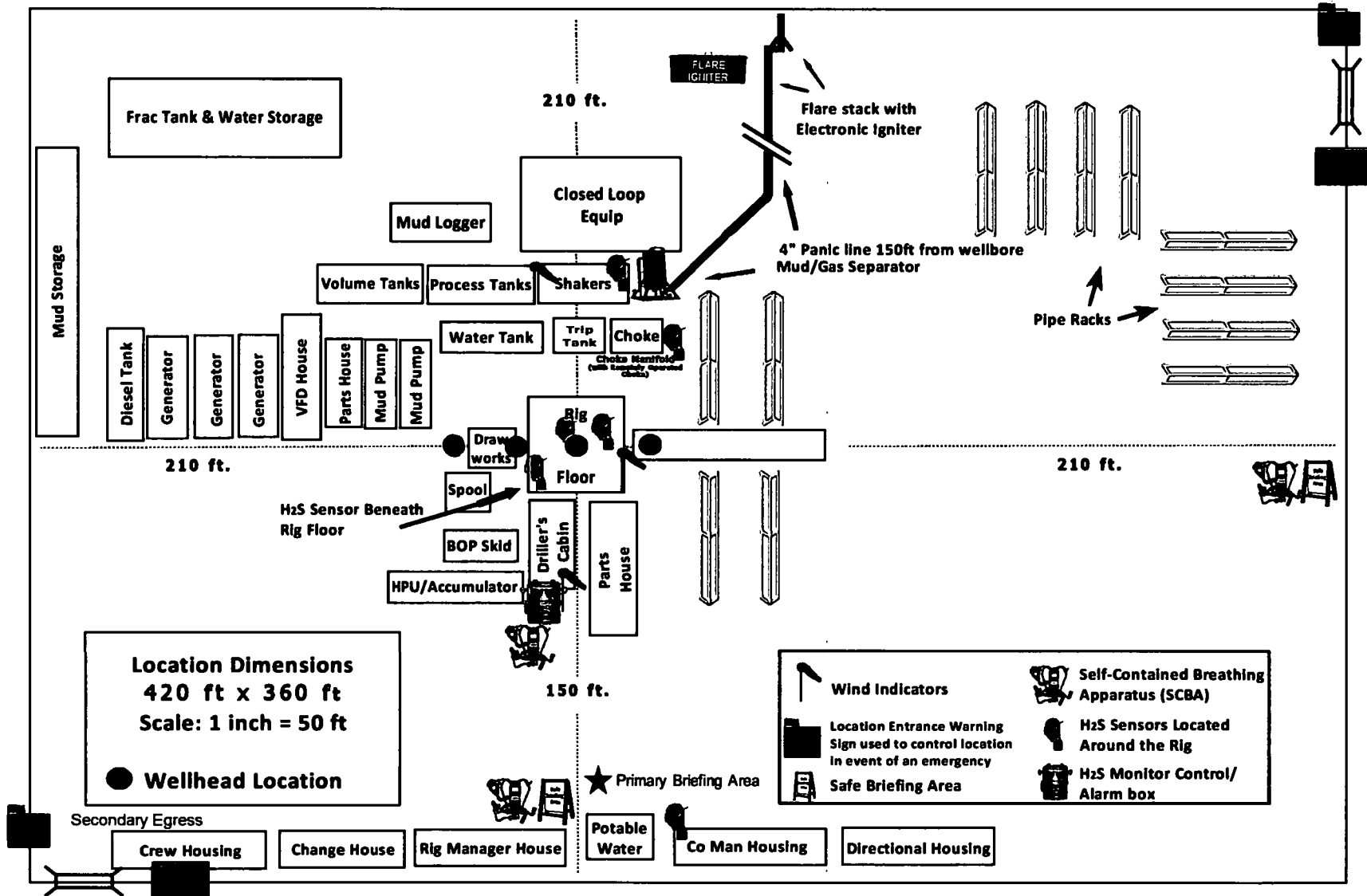
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing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

<u>Devon Energy Corp. Company Call List</u>		
Drilling Supervisor – Basin – Mark Kramer		405-823-4796
EHS Professional – Laura Wright		405-439-8129
<u>Agency Call List</u>		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy County (575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
<u>Give GPS position:</u>	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 34-T25S-R34E

Stranger 34 Fed Com 12H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

19 October, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Stranger 34 Fed Com 12H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3329.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3329.80ft
Site:	Sec 34-T25S-R34E	North Reference:	Grid
Well:	Stranger 34 Fed Com 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Project	Lea County (NAD83 New Mexico East)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 34-T25S-R34E
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Site Position:		Northing:	399,101.34 usft	Latitude:	32.094242
From:	Map	Easting:	809,821.58 usft	Longitude:	-103.466349
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	Stranger 34 Fed Com 12H				
Well Position	+N/-S	0.00 ft	Northing:	394,062.76 usft	Latitude: 32.080286
	+E/-W	0.00 ft	Easting:	814,633.14 usft	Longitude: -103.450946
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level: 3,304.80 ft

Wellbore	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/19/2018	6.74	59.93	47,728.56330887

Design	Permit Plan 1
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Audit Notes:	
Version:	Phase: PROTOTYPE Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) +N/-S +E/-W Direction
	(ft) (ft) (ft) (°)
	0.00 0.00 0.00 1.65

Plan Survey Tool Program	Date 10/19/2018
Depth From Depth To	Survey (Wellbore) Tool Name Remarks
(ft) (ft)	
1 0.00 17,748.55	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	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,159.61	2.00	131.53	5,159.58	-1.84	2.08	1.25	1.25	0.00	131.53	
11,728.03	2.00	131.53	11,724.02	-153.46	173.27	0.00	0.00	0.00	0.00	
11,861.04	0.00	0.00	11,857.00	-155.00	175.00	1.50	-1.50	0.00	180.00	
12,211.08	0.00	0.00	12,207.04	-155.00	175.00	0.00	0.00	0.00	0.00	
12,576.77	36.61	3.57	12,548.35	-42.32	182.03	10.01	10.01	0.00	3.57	
13,111.36	90.00	359.46	12,780.00	418.00	190.00	10.01	9.99	-0.77	-5.12	
17,748.55	90.00	359.46	12,780.00	5,054.98	146.05	0.00	0.00	0.00	0.00	PBHL - Stranger 34 F

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Stranger 34 Fed Com 12H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3329.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3329.80ft
Site:	Sec 34-T25S-R34E	North Reference:	Grid
Well:	Stranger 34 Fed Com 12H	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	394,062.76	814,633.14	32.080286	-103.450946
100.00	0.00	0.00	100.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
200.00	0.00	0.00	200.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
300.00	0.00	0.00	300.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
400.00	0.00	0.00	400.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
500.00	0.00	0.00	500.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
600.00	0.00	0.00	600.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
700.00	0.00	0.00	700.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
800.00	0.00	0.00	800.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
900.00	0.00	0.00	900.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,000.00	0.00	0.00	1,000.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,100.00	0.00	0.00	1,100.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,200.00	0.00	0.00	1,200.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,300.00	0.00	0.00	1,300.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,400.00	0.00	0.00	1,400.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,500.00	0.00	0.00	1,500.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,600.00	0.00	0.00	1,600.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,700.00	0.00	0.00	1,700.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,800.00	0.00	0.00	1,800.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
1,900.00	0.00	0.00	1,900.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,000.00	0.00	0.00	2,000.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,100.00	0.00	0.00	2,100.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,200.00	0.00	0.00	2,200.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,300.00	0.00	0.00	2,300.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,400.00	0.00	0.00	2,400.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,500.00	0.00	0.00	2,500.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,600.00	0.00	0.00	2,600.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,700.00	0.00	0.00	2,700.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,800.00	0.00	0.00	2,800.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
2,900.00	0.00	0.00	2,900.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,000.00	0.00	0.00	3,000.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,100.00	0.00	0.00	3,100.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,200.00	0.00	0.00	3,200.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,300.00	0.00	0.00	3,300.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,400.00	0.00	0.00	3,400.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,500.00	0.00	0.00	3,500.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,600.00	0.00	0.00	3,600.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,700.00	0.00	0.00	3,700.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,800.00	0.00	0.00	3,800.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
3,900.00	0.00	0.00	3,900.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,000.00	0.00	0.00	4,000.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,100.00	0.00	0.00	4,100.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,200.00	0.00	0.00	4,200.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,300.00	0.00	0.00	4,300.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,400.00	0.00	0.00	4,400.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,500.00	0.00	0.00	4,500.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,600.00	0.00	0.00	4,600.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,700.00	0.00	0.00	4,700.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,800.00	0.00	0.00	4,800.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
4,900.00	0.00	0.00	4,900.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
5,000.00	0.00	0.00	5,000.00	0.00	0.00	394,062.76	814,633.14	32.080286	-103.450946
5,100.00	1.25	131.53	5,099.99	-0.72	0.82	394,062.04	814,633.96	32.080284	-103.450944
5,159.61	2.00	131.53	5,159.58	-1.84	2.08	394,060.92	814,635.22	32.080280	-103.450940
5,200.00	2.00	131.53	5,199.94	-2.77	3.13	394,059.99	814,636.27	32.080278	-103.450936
5,300.00	2.00	131.53	5,299.88	-5.08	5.74	394,057.68	814,638.88	32.080271	-103.450928

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Stranger 34 Fed Com 12H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3329.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3329.80ft
Site:	Sec 34-T25S-R34E	North Reference:	Grid
Well:	Stranger 34 Fed Com 12H	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
5,400.00	2.00	131.53	5,399.82	-7.39	8.35	394,055.37	814,641.49	32.080265	-103.450920
5,500.00	2.00	131.53	5,499.76	-9.70	10.95	394,053.06	814,644.09	32.080259	-103.450911
5,600.00	2.00	131.53	5,599.70	-12.01	13.56	394,050.75	814,646.70	32.080252	-103.450903
5,700.00	2.00	131.53	5,699.64	-14.32	16.16	394,048.44	814,649.31	32.080246	-103.450895
5,800.00	2.00	131.53	5,799.58	-16.62	18.77	394,046.14	814,651.91	32.080239	-103.450886
5,900.00	2.00	131.53	5,899.52	-18.93	21.38	394,043.83	814,654.52	32.080233	-103.450878
6,000.00	2.00	131.53	5,999.46	-21.24	23.98	394,041.52	814,657.12	32.080227	-103.450869
6,100.00	2.00	131.53	6,099.40	-23.55	26.59	394,039.21	814,659.73	32.080220	-103.450861
6,200.00	2.00	131.53	6,199.34	-25.86	29.19	394,036.90	814,662.34	32.080214	-103.450853
6,300.00	2.00	131.53	6,299.28	-28.17	31.80	394,034.59	814,664.94	32.080207	-103.450844
6,400.00	2.00	131.53	6,399.22	-30.47	34.41	394,032.29	814,667.55	32.080201	-103.450836
6,500.00	2.00	131.53	6,499.16	-32.78	37.01	394,029.98	814,670.15	32.080195	-103.450828
6,600.00	2.00	131.53	6,599.09	-35.09	39.62	394,027.67	814,672.76	32.080188	-103.450819
6,700.00	2.00	131.53	6,699.03	-37.40	42.23	394,025.36	814,675.37	32.080182	-103.450811
6,800.00	2.00	131.53	6,798.97	-39.71	44.83	394,023.05	814,677.97	32.080175	-103.450803
6,900.00	2.00	131.53	6,898.91	-42.02	47.44	394,020.74	814,680.58	32.080169	-103.450794
7,000.00	2.00	131.53	6,998.85	-44.33	50.04	394,018.44	814,683.19	32.080163	-103.450786
7,100.00	2.00	131.53	7,098.79	-46.63	52.65	394,016.13	814,685.79	32.080156	-103.450778
7,200.00	2.00	131.53	7,198.73	-48.94	55.26	394,013.82	814,688.40	32.080150	-103.450769
7,300.00	2.00	131.53	7,298.67	-51.25	57.86	394,011.51	814,691.00	32.080143	-103.450761
7,400.00	2.00	131.53	7,398.61	-53.56	60.47	394,009.20	814,693.61	32.080137	-103.450753
7,500.00	2.00	131.53	7,498.55	-55.87	63.08	394,006.89	814,696.22	32.080131	-103.450744
7,600.00	2.00	131.53	7,598.49	-58.18	65.68	394,004.59	814,698.82	32.080124	-103.450736
7,700.00	2.00	131.53	7,698.43	-60.48	68.29	394,002.28	814,701.43	32.080118	-103.450728
7,800.00	2.00	131.53	7,798.37	-62.79	70.89	393,999.97	814,704.04	32.080111	-103.450719
7,900.00	2.00	131.53	7,898.31	-65.10	73.50	393,997.66	814,706.64	32.080105	-103.450711
8,000.00	2.00	131.53	7,998.25	-67.41	76.11	393,995.35	814,709.25	32.080099	-103.450702
8,100.00	2.00	131.53	8,098.19	-69.72	78.71	393,993.04	814,711.85	32.080092	-103.450694
8,200.00	2.00	131.53	8,198.12	-72.03	81.32	393,990.74	814,714.46	32.080086	-103.450686
8,300.00	2.00	131.53	8,298.06	-74.33	83.93	393,988.43	814,717.07	32.080079	-103.450677
8,400.00	2.00	131.53	8,398.00	-76.64	86.53	393,986.12	814,719.67	32.080073	-103.450669
8,500.00	2.00	131.53	8,497.94	-78.95	89.14	393,983.81	814,722.28	32.080067	-103.450661
8,600.00	2.00	131.53	8,597.88	-81.26	91.74	393,981.50	814,724.88	32.080060	-103.450652
8,700.00	2.00	131.53	8,697.82	-83.57	94.35	393,979.19	814,727.49	32.080054	-103.450644
8,800.00	2.00	131.53	8,797.76	-85.88	96.96	393,976.89	814,730.10	32.080047	-103.450636
8,900.00	2.00	131.53	8,897.70	-88.18	99.56	393,974.58	814,732.70	32.080041	-103.450627
9,000.00	2.00	131.53	8,997.64	-90.49	102.17	393,972.27	814,735.31	32.080035	-103.450619
9,100.00	2.00	131.53	9,097.58	-92.80	104.77	393,969.96	814,737.92	32.080028	-103.450611
9,200.00	2.00	131.53	9,197.52	-95.11	107.38	393,967.65	814,740.52	32.080022	-103.450602
9,300.00	2.00	131.53	9,297.46	-97.42	109.99	393,965.34	814,743.13	32.080015	-103.450594
9,400.00	2.00	131.53	9,397.40	-99.73	112.59	393,963.04	814,745.73	32.080009	-103.450586
9,500.00	2.00	131.53	9,497.34	-102.03	115.20	393,960.73	814,748.34	32.080003	-103.450577
9,600.00	2.00	131.53	9,597.28	-104.34	117.81	393,958.42	814,750.95	32.079996	-103.450569
9,700.00	2.00	131.53	9,697.22	-106.65	120.41	393,956.11	814,753.55	32.079990	-103.450560
9,800.00	2.00	131.53	9,797.15	-108.96	123.02	393,953.80	814,756.16	32.079983	-103.450552
9,900.00	2.00	131.53	9,897.09	-111.27	125.62	393,951.49	814,758.77	32.079977	-103.450544
10,000.00	2.00	131.53	9,997.03	-113.58	128.23	393,949.19	814,761.37	32.079971	-103.450535
10,100.00	2.00	131.53	10,096.97	-115.88	130.84	393,946.88	814,763.98	32.079964	-103.450527
10,200.00	2.00	131.53	10,196.91	-118.19	133.44	393,944.57	814,766.58	32.079958	-103.450519
10,300.00	2.00	131.53	10,296.85	-120.50	136.05	393,942.26	814,769.19	32.079951	-103.450510
10,400.00	2.00	131.53	10,396.79	-122.81	138.66	393,939.95	814,771.80	32.079945	-103.450502
10,500.00	2.00	131.53	10,496.73	-125.12	141.26	393,937.64	814,774.40	32.079939	-103.450494
10,600.00	2.00	131.53	10,596.67	-127.43	143.87	393,935.34	814,777.01	32.079932	-103.450485
10,700.00	2.00	131.53	10,696.61	-129.73	146.47	393,933.03	814,779.62	32.079926	-103.450477
10,800.00	2.00	131.53	10,796.55	-132.04	149.08	393,930.72	814,782.22	32.079919	-103.450469

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Stranger 34 Fed Com 12H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3329.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3329.80ft
Site:	Sec 34-T25S-R34E	North Reference:	Grid
Well:	Stranger 34 Fed Com 12H	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
10,900.00	2.00	131.53	10,896.49	-134.35	151.69	393,928.41	814,784.83	32.079913	-103.450460
11,000.00	2.00	131.53	10,996.43	-136.66	154.29	393,926.10	814,787.43	32.079906	-103.450452
11,100.00	2.00	131.53	11,096.37	-138.97	156.90	393,923.79	814,790.04	32.079900	-103.450444
11,200.00	2.00	131.53	11,196.31	-141.28	159.51	393,921.49	814,792.65	32.079894	-103.450435
11,300.00	2.00	131.53	11,296.25	-143.58	162.11	393,919.18	814,795.25	32.079887	-103.450427
11,400.00	2.00	131.53	11,396.18	-145.89	164.72	393,916.87	814,797.86	32.079881	-103.450418
11,500.00	2.00	131.53	11,496.12	-148.20	167.32	393,914.56	814,800.46	32.079874	-103.450410
11,600.00	2.00	131.53	11,596.06	-150.51	169.93	393,912.25	814,803.07	32.079868	-103.450402
11,700.00	2.00	131.53	11,696.00	-152.82	172.54	393,909.94	814,805.68	32.079862	-103.450393
11,728.03	2.00	131.53	11,724.02	-153.46	173.27	393,909.30	814,806.41	32.079860	-103.450391
11,800.00	0.92	131.53	11,795.96	-154.68	174.63	393,908.08	814,807.78	32.079857	-103.450387
11,861.04	0.00	0.00	11,857.00	-155.00	175.00	393,907.76	814,808.14	32.079856	-103.450385
11,900.00	0.00	0.00	11,895.96	-155.00	175.00	393,907.76	814,808.14	32.079856	-103.450385
12,000.00	0.00	0.00	11,995.96	-155.00	175.00	393,907.76	814,808.14	32.079856	-103.450385
12,100.00	0.00	0.00	12,095.96	-155.00	175.00	393,907.76	814,808.14	32.079856	-103.450385
12,200.00	0.00	0.00	12,195.96	-155.00	175.00	393,907.76	814,808.14	32.079856	-103.450385
12,211.08	0.00	0.00	12,207.04	-155.00	175.00	393,907.76	814,808.14	32.079856	-103.450385
KOP @ 12211' MD, 50' FSL, 345' FEL									
12,300.00	8.90	3.57	12,295.60	-148.12	175.43	393,914.64	814,808.57	32.079875	-103.450384
12,400.00	18.91	3.57	12,392.55	-124.16	176.92	393,938.60	814,810.06	32.079940	-103.450378
12,452.18	24.14	3.57	12,441.07	-105.06	178.11	393,957.70	814,811.25	32.079993	-103.450374
FTP @ 12452' MD, 100' FSL, 340' FEL									
12,500.00	28.92	3.57	12,483.84	-83.75	179.44	393,979.01	814,812.58	32.080051	-103.450369
12,576.77	36.61	3.57	12,548.35	-42.32	182.03	394,020.45	814,815.17	32.080165	-103.450360
12,600.00	38.92	3.24	12,566.71	-28.11	182.87	394,034.65	814,816.01	32.080204	-103.450357
12,700.00	48.90	2.12	12,638.66	41.08	186.05	394,103.84	814,819.19	32.080394	-103.450345
12,800.00	58.89	1.30	12,697.52	121.74	188.42	394,184.50	814,821.56	32.080616	-103.450335
12,900.00	68.88	0.64	12,741.48	211.40	189.91	394,274.16	814,823.05	32.080862	-103.450328
13,000.00	78.87	0.06	12,769.22	307.34	190.47	394,370.10	814,823.62	32.081126	-103.450323
13,100.00	88.86	359.52	12,779.89	406.64	190.10	394,469.40	814,823.24	32.081399	-103.450322
13,111.36	90.00	359.46	12,780.00	418.00	190.00	394,480.76	814,823.14	32.081430	-103.450322
13,200.00	90.00	359.46	12,780.00	506.64	189.16	394,569.40	814,822.30	32.081674	-103.450322
13,300.00	90.00	359.46	12,780.00	606.63	188.21	394,669.39	814,821.35	32.081849	-103.450323
13,400.00	90.00	359.46	12,780.00	706.63	187.26	394,769.39	814,820.41	32.082224	-103.450323
13,500.00	90.00	359.46	12,780.00	806.62	186.32	394,869.38	814,819.46	32.082499	-103.450324
13,600.00	90.00	359.46	12,780.00	906.62	185.37	394,969.38	814,818.51	32.082773	-103.450324
13,700.00	90.00	359.46	12,780.00	1,006.61	184.42	395,069.37	814,817.56	32.083048	-103.450324
13,800.00	90.00	359.46	12,780.00	1,106.61	183.47	395,169.37	814,816.61	32.083323	-103.450325
13,900.00	90.00	359.46	12,780.00	1,206.60	182.52	395,269.36	814,815.67	32.083598	-103.450325
14,000.00	90.00	359.46	12,780.00	1,306.60	181.58	395,369.36	814,814.72	32.083873	-103.450326
14,100.00	90.00	359.46	12,780.00	1,406.60	180.63	395,469.35	814,813.77	32.084148	-103.450326
14,200.00	90.00	359.46	12,780.00	1,506.59	179.68	395,569.35	814,812.82	32.084423	-103.450326
14,300.00	90.00	359.46	12,780.00	1,606.59	178.73	395,669.34	814,811.87	32.084697	-103.450327
14,400.00	90.00	359.46	12,780.00	1,706.58	177.79	395,769.34	814,810.93	32.084972	-103.450327
14,500.00	90.00	359.46	12,780.00	1,806.58	176.84	395,869.34	814,809.98	32.085247	-103.450328
14,600.00	90.00	359.46	12,780.00	1,906.57	175.89	395,969.33	814,809.03	32.085522	-103.450328
14,700.00	90.00	359.46	12,780.00	2,006.57	174.94	396,069.33	814,808.08	32.085797	-103.450329
14,800.00	90.00	359.46	12,780.00	2,106.56	173.99	396,169.32	814,807.14	32.086072	-103.450329
14,900.00	90.00	359.46	12,780.00	2,206.56	173.05	396,269.32	814,806.19	32.086347	-103.450329
15,000.00	90.00	359.46	12,780.00	2,306.56	172.10	396,369.31	814,805.24	32.086622	-103.450330
15,100.00	90.00	359.46	12,780.00	2,406.55	171.15	396,469.31	814,804.29	32.086896	-103.450330
15,200.00	90.00	359.46	12,780.00	2,506.55	170.20	396,569.30	814,803.34	32.087171	-103.450331
15,300.00	90.00	359.46	12,780.00	2,606.54	169.26	396,669.30	814,802.40	32.087446	-103.450331
15,400.00	90.00	359.46	12,780.00	2,706.54	168.31	396,769.29	814,801.45	32.087721	-103.450331

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Stranger 34 Fed Com 12H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3329.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3329.80ft
Site:	Sec 34-T25S-R34E	North Reference:	Grid
Well:	Stranger 34 Fed Com 12H	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
15,500.00	90.00	359.46	12,780.00	2,806.53	167.36	396,869.29	814,800.50	32.087996	-103.450332
15,600.00	90.00	359.46	12,780.00	2,906.53	166.41	396,969.28	814,799.55	32.088271	-103.450332
15,700.00	90.00	359.46	12,780.00	3,006.52	165.46	397,069.28	814,798.60	32.088546	-103.450333
15,800.00	90.00	359.46	12,780.00	3,106.52	164.52	397,169.27	814,797.66	32.088821	-103.450333
15,900.00	90.00	359.46	12,780.00	3,206.52	163.57	397,269.27	814,796.71	32.089095	-103.450334
16,000.00	90.00	359.46	12,780.00	3,306.51	162.62	397,369.26	814,795.76	32.089370	-103.450334
16,100.00	90.00	359.46	12,780.00	3,406.51	161.67	397,469.26	814,794.81	32.089645	-103.450334
16,200.00	90.00	359.46	12,780.00	3,506.50	160.72	397,569.26	814,793.87	32.089920	-103.450335
16,300.00	90.00	359.46	12,780.00	3,606.50	159.78	397,669.25	814,792.92	32.090195	-103.450335
16,400.00	90.00	359.46	12,780.00	3,706.49	158.83	397,769.25	814,791.97	32.090470	-103.450336
16,500.00	90.00	359.46	12,780.00	3,806.49	157.88	397,869.24	814,791.02	32.090745	-103.450336
16,600.00	90.00	359.46	12,780.00	3,906.48	156.93	397,969.24	814,790.07	32.091020	-103.450336
16,700.00	90.00	359.46	12,780.00	4,006.48	155.99	398,069.23	814,789.13	32.091294	-103.450337
16,800.00	90.00	359.46	12,780.00	4,106.47	155.04	398,169.23	814,788.18	32.091569	-103.450337
16,900.00	90.00	359.46	12,780.00	4,206.47	154.09	398,269.22	814,787.23	32.091844	-103.450338
17,000.00	90.00	359.46	12,780.00	4,306.47	153.14	398,369.22	814,786.28	32.092119	-103.450338
17,100.00	90.00	359.46	12,780.00	4,406.46	152.19	398,469.21	814,785.34	32.092394	-103.450339
17,200.00	90.00	359.46	12,780.00	4,506.46	151.25	398,569.21	814,784.39	32.092669	-103.450339
17,300.00	90.00	359.46	12,780.00	4,606.45	150.30	398,669.20	814,783.44	32.092944	-103.450339
17,400.00	90.00	359.46	12,780.00	4,706.45	149.35	398,769.20	814,782.49	32.093219	-103.450340
17,500.00	90.00	359.46	12,780.00	4,806.44	148.40	398,869.19	814,781.54	32.093493	-103.450340
17,600.00	90.00	359.46	12,780.00	4,906.44	147.45	398,969.19	814,780.60	32.093768	-103.450341
17,668.54	90.00	359.46	12,780.00	4,974.98	146.81	399,037.73	814,779.95	32.093957	-103.450341
LTP @ 17669' MD, 100' FNL, 330' FEL									
17,700.00	90.00	359.46	12,780.00	5,006.43	146.51	399,069.19	814,779.65	32.094043	-103.450341
17,748.54	90.00	359.46	12,780.00	5,054.97	146.05	399,117.72	814,779.19	32.094177	-103.450341
PBHL; 20' FNL, 330' FEL									
17,748.55	90.00	359.46	12,780.00	5,054.98	146.05	399,117.73	814,779.19	32.094177	-103.450341

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - Stranger 34 Fed	0.00	0.00	0.00	5,054.98	146.05	399,117.73	814,779.19	32.094177	-103.450341
- plan misses target center by 5057.09ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,211.08	12,207.04	-155.00	175.00	KOP @ 12211' MD, 50' FSL, 345' FEL
12,452.18	12,441.07	-105.06	178.11	FTP @ 12452' MD, 100' FSL, 340' FEL
17,668.54	12,780.00	4,974.98	146.81	LTP @ 17669' MD, 100' FNL, 330' FEL
17,748.54	12,780.00	5,054.97	146.05	PBHL; 20' FNL, 330' FEL

WCDSC Permian NM

WELL DETAILS: Stranger 34 Fed Com 12H

RKB @ 3329.80R

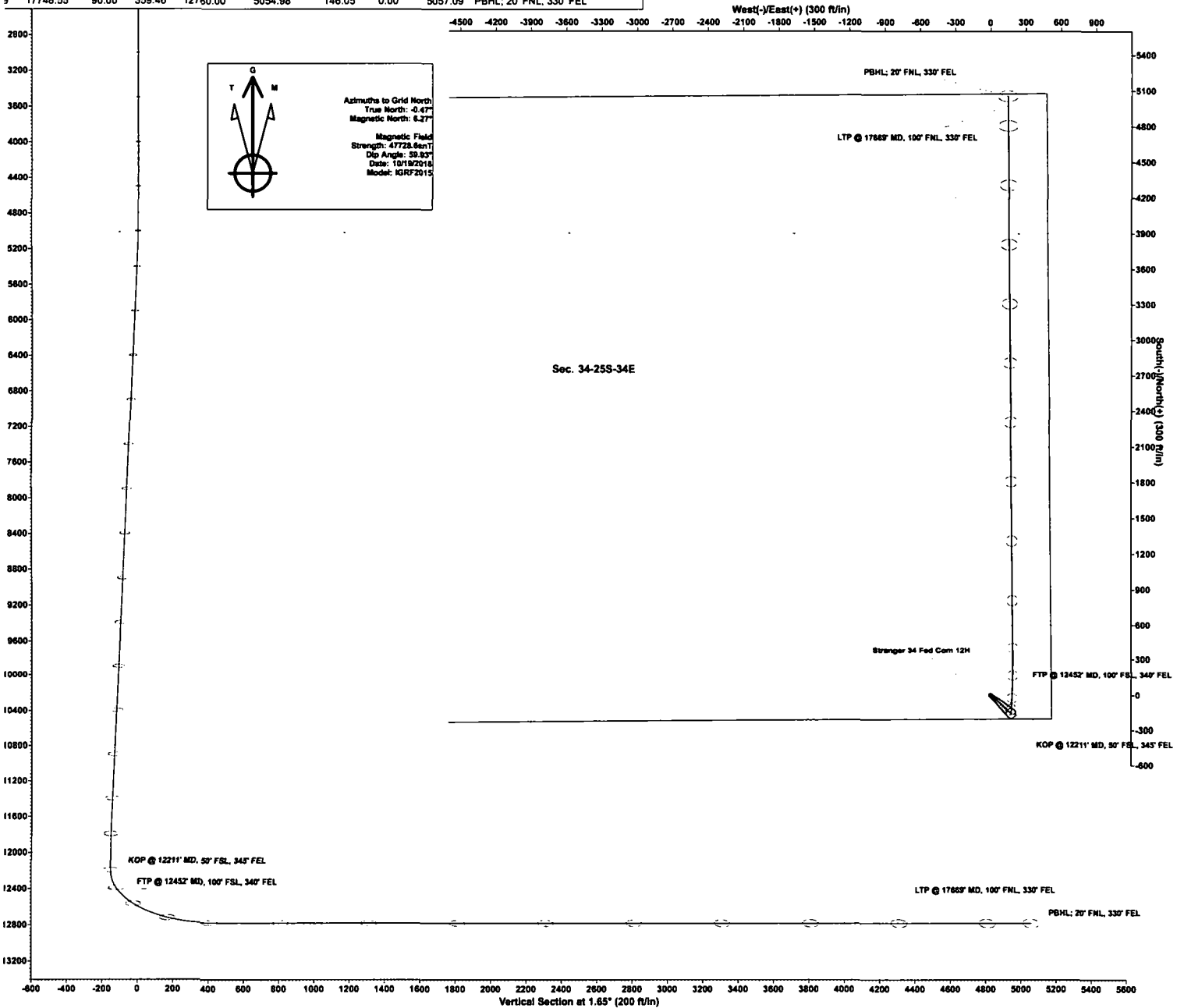
3304.80

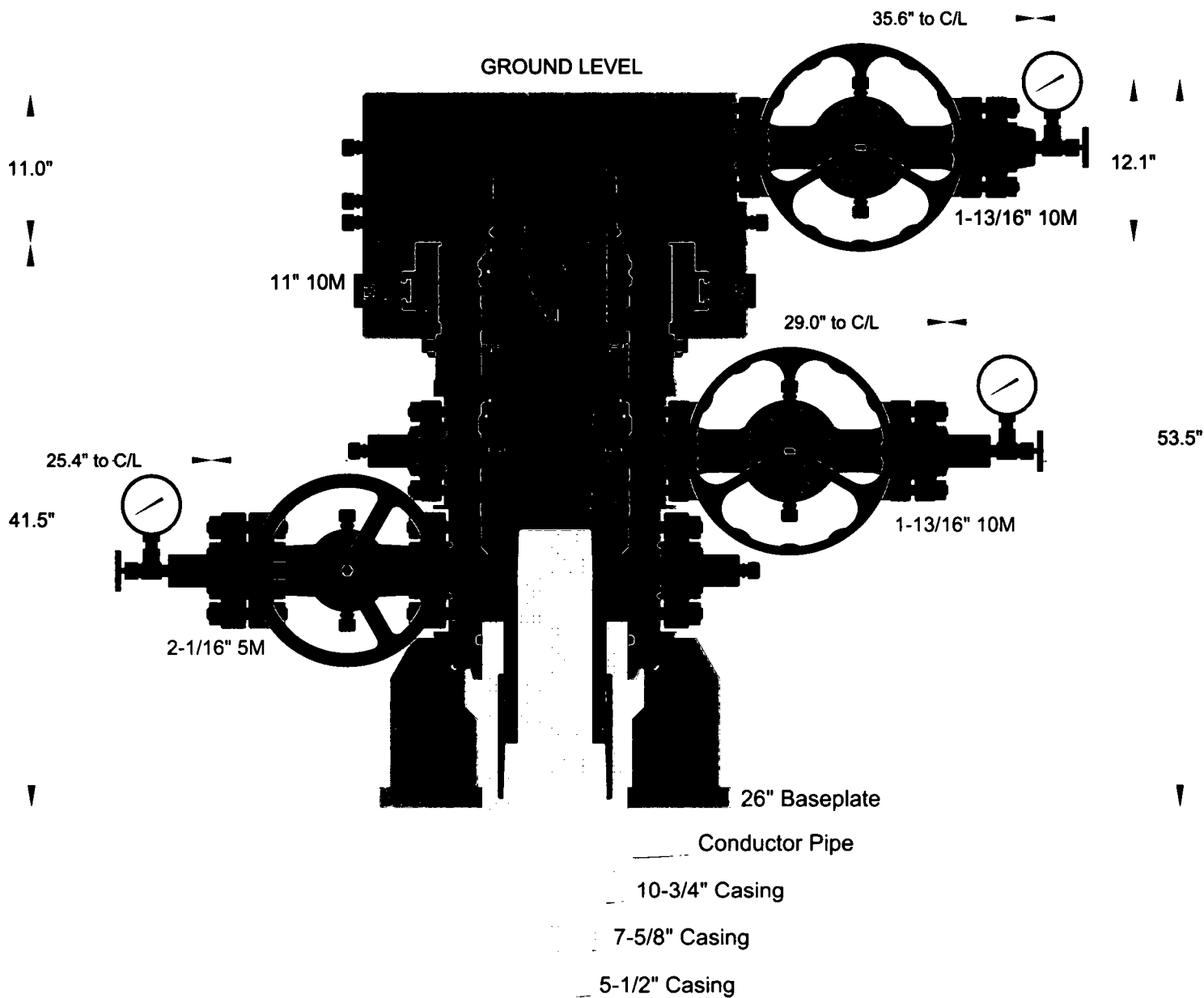
Northing 394082.76 Easting 814633.14 Latitude 32.080286 Longitude -103.450946

devon

SECTION DETAILS Permit Plan 1

MD	Inc	Azi	TVD	+N-S	+E-W	Diag	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	
5159.81	2.00	131.53	5159.58	-1.84	2.08	1.25	-1.78	
11728.03	2.00	131.53	11724.02	-153.46	173.27	0.00	-148.40	
5 11861.04	0.00	0.00	11857.00	-155.00	175.00	1.50	-149.88	
3 12211.08	0.00	0.00	12207.04	-155.00	175.00	0.00	-149.88	KOP @ 12211' MD, 50' FSL, 345' FEL
7 12578.77	36.61	3.57	12548.35	-42.32	182.03	10.01	-37.04	
3 13111.36	90.00	359.46	12780.00	418.00	190.00	10.01	423.31	
3 17748.55	90.00	359.46	12780.00	5054.98	146.05	0.00	5057.09	PBHL; 20' FNL, 330' FEL





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CACTUS WELLHEAD LLC

DEVON ENERGY CORPORATION

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

DRAWN	DLE	29NOV17
APPRV		
DRAWING NO.		OKE0001764

Devon Energy
APD VARIANCE DATA

OPERATOR NAME: Devon Energy

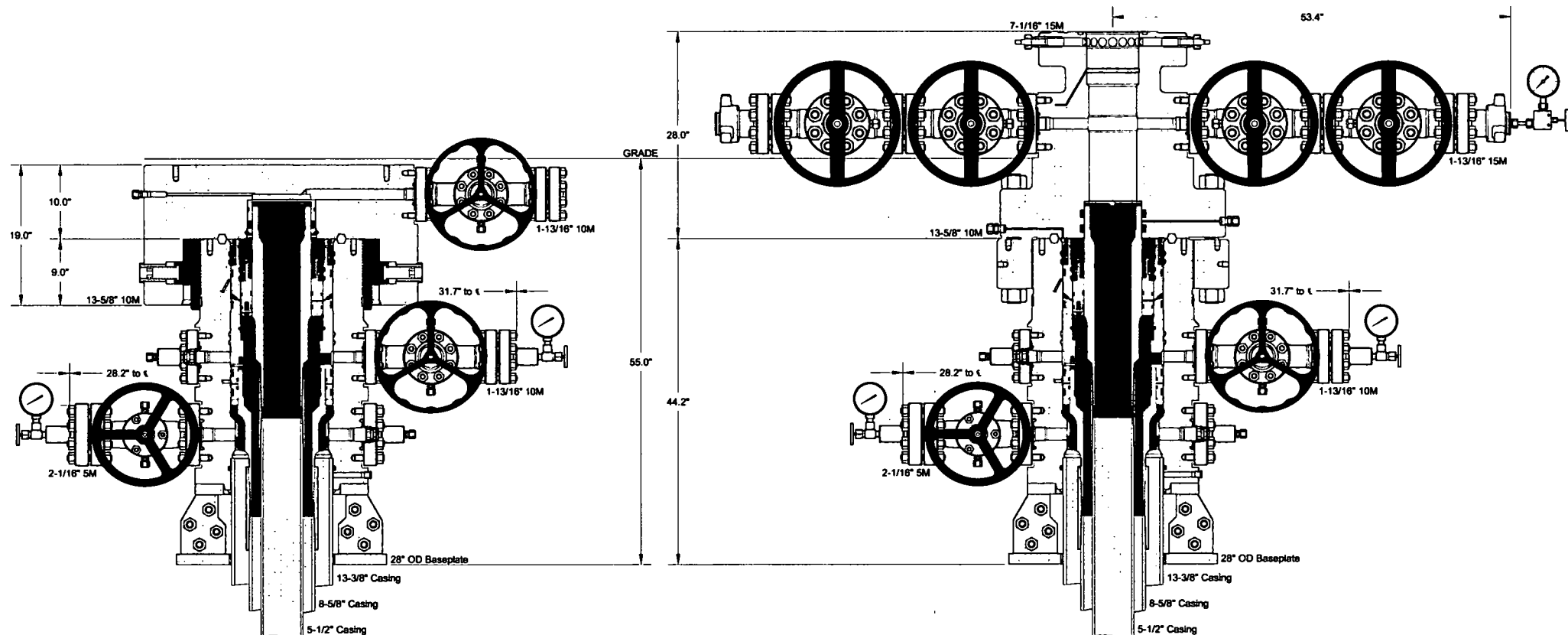
1. SUMMARY OF Variance:

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

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

2. Description of Operations

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



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CACTUS WELLHEAD LLC

13-3/8" x 8-5/8" x 5-1/2" 5M MBU-3T Wellhead System
With 8-5/8" & 5-1/2" Pin Down Rotating Mandrel Hangers
And 13-5/8" 10M x 7-1/16" 15M CTH-P-DBLHPS Tubing Head

DEVON ENERGY CORPORATION

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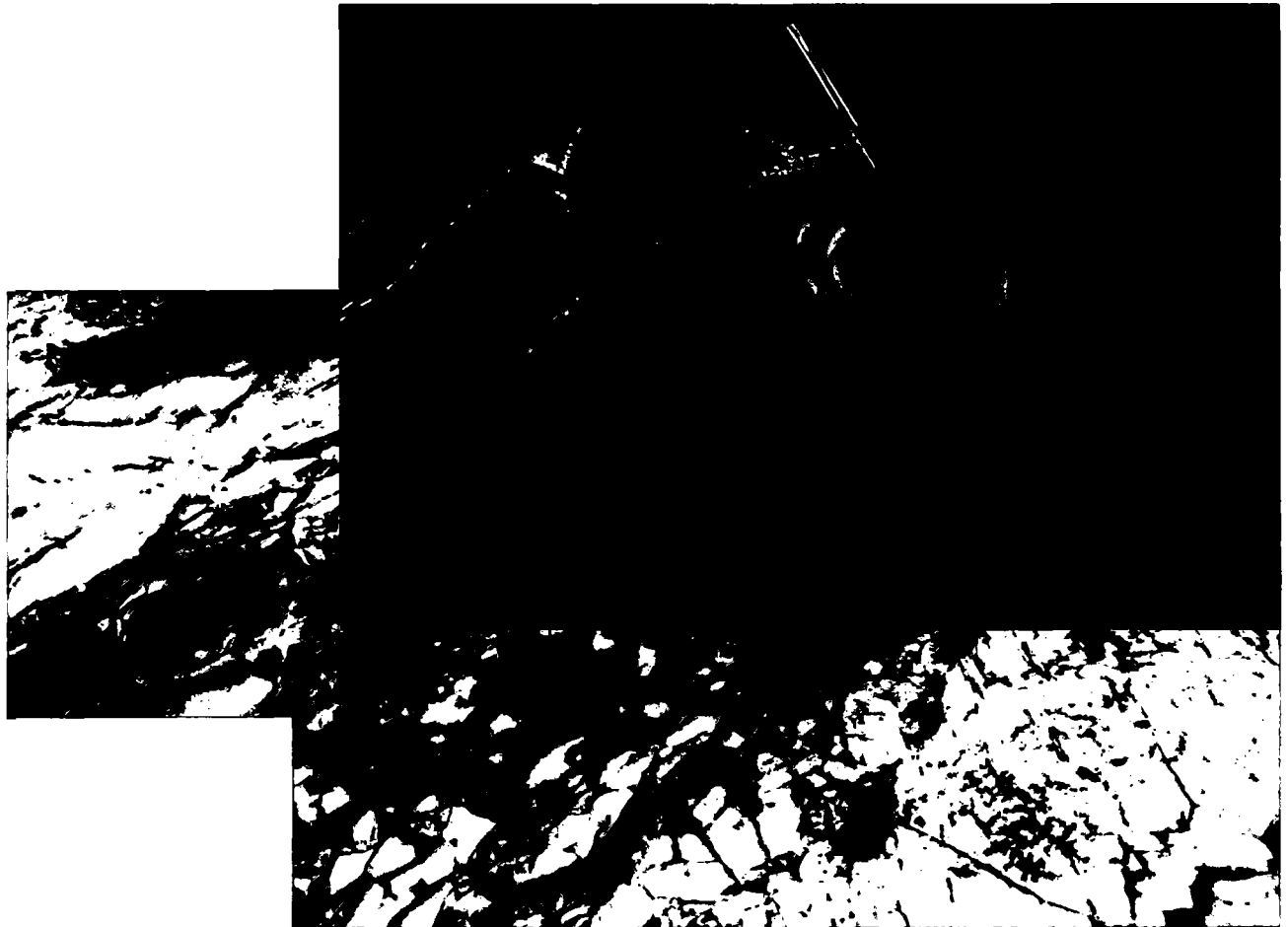
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DRAWING NO.

ODE0002309



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
June 2010

I. Design Plan

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

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

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

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

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

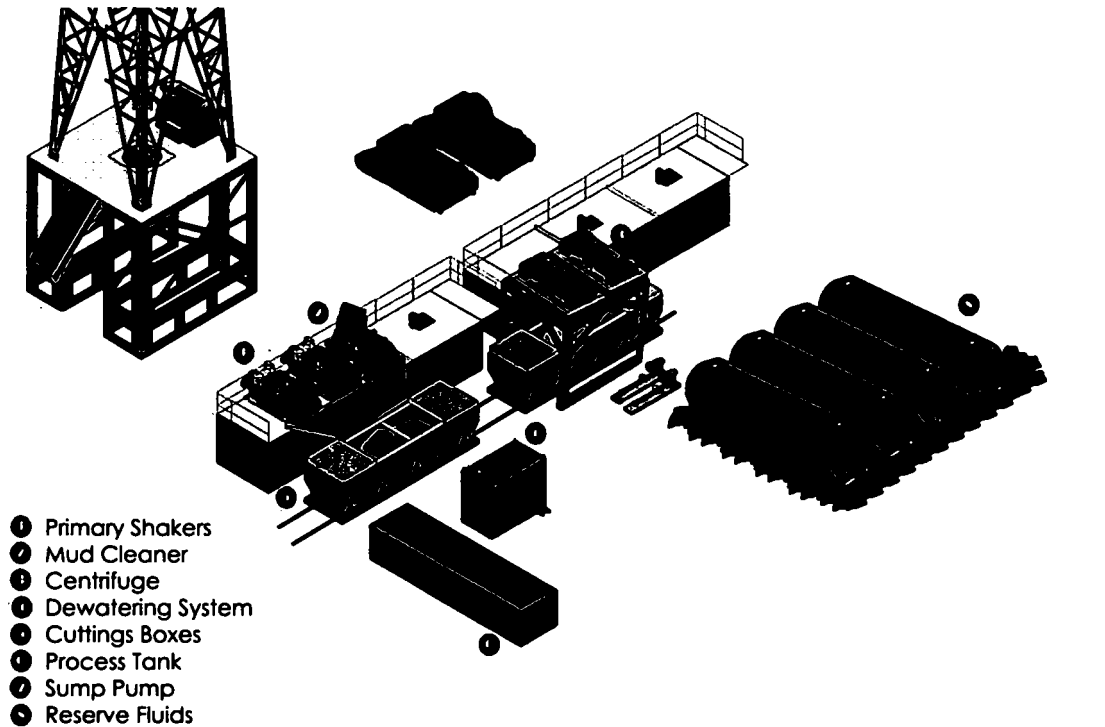
II. Operations and Maintenance Plan

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

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



Closed Loop Schematic



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

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

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

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

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

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

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

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

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

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

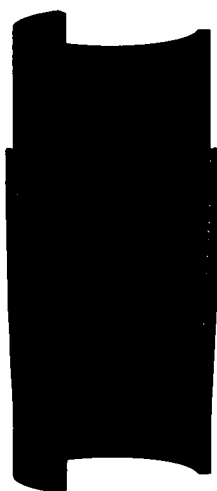
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

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

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

III. Closure Plan

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



TEC-LOCK WEDGE

8.625" 32.00 LB/FT (.352" Wall)
BORUSAN MANNESMANN P110 HSCY

Pipe Body Data

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

Connection Data

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

Operational Data

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

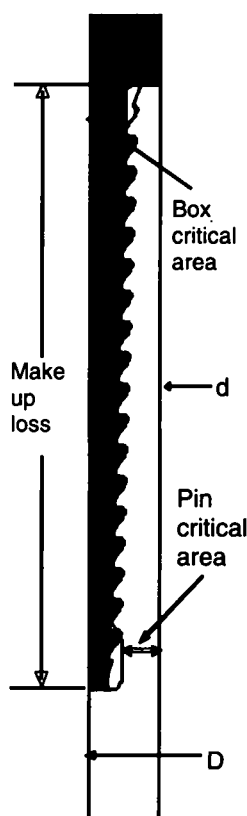
Notes

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



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FLUSHMAX-III



Imperial

S.I.

Pipe Body

Pipe OD (D)	7 5/8	in	193.68	mm
Actual weight	29.04		43.21	kg/m
Pipe ID (d)	6.875	in	174.63	mm
Drift Dia.	6.750	in	171.45	mm

Connection

PIN ID	6.875	in	174.63	mm
Thread Taper	1 / 16 (3/4" per ft)			

Performance Properties for Pipe Body

M.I.Y.P.	9,470	psi	65.31	MPa
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Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

Performance Properties for Connection

Min. Compression Yield	563 kips (60% of S.M.Y.S.)
External Pressure	100% of Collapse Strength

Recommended Torque

Opti.	17,200	ft-lb	23,300	N-m
Operational Max.	23,600	ft-lb	32,000	N-m

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

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The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-conr/images/top/WebsiteTerms_Active_20333287_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.



U. S. Steel Tubular Products

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MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	75,000	--	--	--	psi

DIMENSIONS	Pipe	BTC	LTC	STC	
Outside Diameter	10.750	11.750	--	11.750	in.
Wall Thickness	0.350	--	--	--	in.
Inside Diameter	10.050	10.050	--	10.050	in.
Standard Drift	9.894	9.894	--	9.894	in.
Alternate Drift	--	--	--	--	in.
Nominal Linear Weight, T&C	40.50	--	--	--	lbs/ft
Plain End Weight	38.91	--	--	--	lbs/ft

PERFORMANCE	Pipe	BTC	LTC	STC	
Minimum Collapse Pressure	1,580	1,580	--	1,580	psi
Minimum Internal Yield Pressure	3,130	3,130	--	3,130	psi
Minimum Pipe Body Yield Strength	629,000	--	--	--	lbs
Joint Strength	--	700	--	420	lbs
Reference Length	--	11,522	--	6,915	ft

Make-Up Loss	--	4.81	--	3.50	in.
Minimum Make-Up Torque	--	--	--	3,150	ft-lbs
Maximum Make-Up Torque	--	--	--	5,250	ft-lbs

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U. S. Steel Tubular Products

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

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MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC	
Minimum Yield Strength	40,000	--	--	--	psi
Maximum Yield Strength	80,000	--	--	--	psi
Minimum Tensile Strength	60,000	--	--	--	psi
DIMENSIONS	Pipe	BTC	LTC	STC	
Outside Diameter	13.375	--	--	14.375	in.
Wall Thickness	0.330	--	--	--	in.
Inside Diameter	12.715	--	--	12.715	in.
Standard Drift	12.559	12.559	--	12.559	in.
Alternate Drift	--	--	--	--	in.
Nominal Linear Weight, T&C	48.00	--	--	--	lbs/ft
Plain End Weight	46.02	--	--	--	lbs/ft
PERFORMANCE	Pipe	BTC	LTC	STC	
Minimum Collapse Pressure	740	740	--	740	psi
Minimum Internal Yield Pressure	1,730	1,730	--	1,730	psi
Minimum Pipe Body Yield Strength	541	--	--	--	1,000 lbs
Joint Strength	--	--	--	322	1,000 lbs
Reference Length	--	--	--	4,473	ft
MAKE-UP DATA	Pipe	BTC	LTC	STC	
Make-Up Loss	--	--	--	3.50	in.
Minimum Make-Up Torque	--	--	--	2,420	ft-lbs
Maximum Make-Up Torque	--	--	--	4,030	ft-lbs

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

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

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

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

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed and tested, with 5M annular being tested to 100% of rated working pressure.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 10,000 psi WP.

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

1. Geologic Formations

TVD of target	12,780'	Pilot hole depth	N/A
MD at TD:	17,748'	Deepest expected fresh water:	810'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	810		
Top of Salt	1200		
3BSSS	12020		
WFMP	12480		

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

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
14.75"	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS
9.875"	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS
8.75"	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS
6.75"	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

A variance is requested to waive the centralizer requirement for the 7-5/8" flush casing in the 8-3/4" hole and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

Casing Program (Alternate Design)

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	810'	13.375"	48	H-40	STC	1.125	1.25	1.6
9.875"	0	12,211'	8.625"	32	P110EC	TLW	1.125	1.25	1.6
7.875"	0	TD	5.5"	20	P110	Vam SG	1.125	1.25	1.6

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

A variance is requested to wave the centralizer requirement for the 8-5/8" casing in the 9-7/8" hole and the 5-1/2" casing in the 7-7/8" hole.

8-5/8" Intermediate casing will be kept fluid filled to 100%.

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

3. Cementing Program (Primary Design)

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	Slurry Description
Surface	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS
Int	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS
	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS

Intermediate Two-Stage (Bradenhead)	1000	14.8	6.32	1.33	Class C Cement + 0.125 lbs/sack Poly-E-Flake
	609	13.2	5.31	1.6	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
Production	See AFMSS	See AFMSS	See AFMSS	See AFMSS	See AFMSS

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Cementing Program (Alternate Design)

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	Slurry Description
Surface	569	14.8	6.34	1.34	Tail: Class C Cement + 1% Calcium Chloride
Int	436	9	13.5	3.27	Lead: Tuned Light® Cement
	482	13.2	5.31	1.6	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
Intermediate Two-Stage (Bradenhead)	1000	14.8	6.32	1.33	Class C Cement + 0.125 lbs/sack Poly-E-Flake
	482	13.2	5.31	1.6	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
Production	813	14.8	6.32	1.33	Class H Cement + 0.125 lbs/sack Poly-E-Flake

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	------------------------------------------------------------------------------------------------------

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	<input checked="" type="checkbox"/>	Tested to:
Intermediate	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram	X	
			Double Ram	X	
			Other*		

Production	13-5/8"	10M	Annular (5M)	X	100% of rated working pressure
			Blind Ram	X	10M
			Pipe Ram	X	
			Double Ram	X	
			Other*		
			Annular		
			Blind Ram		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 10,000 psi WP.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.		
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.		
	Y	Are anchors required by manufacturer?	
Y	Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.		
Y	Devon requests a variance to run a 5M annular on a 10M BOP system. See separately attached variance request and support documents in AFMSS.		

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	810'	FW Gel	See AFMSS	See AFMSS	See AFMSS
810'	12,925'	OBM/Cut Brine	See AFMSS	See AFMSS	See AFMSS
12,925'	TD	Oil Based Mud	See AFMSS	See AFMSS	See AFMSS

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

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

6. Logging and Testing Procedures

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

Additional logs planned	Interval
Resistivity	Int. shoe to KOP
Density	Int. shoe to KOP
X	CBL
X	Mud log
PEX	

7. Drilling Conditions

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

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

1. Spudder rig will move in and drill surface hole.
 - a. Rig will utilize fresh water based mud to drill 14 3/4" surface hole to TD. Solids control will be handled entirely on a closed loop basis.
2. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
3. The wellhead will be installed and tested once the 10-3/4" surface casing is cut off and the WOC time has been reached.

4. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
5. Spudder rig operations is expected to take 4-5 days per well on a multi well pad.
6. The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
7. Drilling operations will be performed with the drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

☒ Directional Plan

☐ Other, describe



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

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

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

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

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

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



RIG 212



QUALITY DOCUMENT

PHOENIX RUBBER

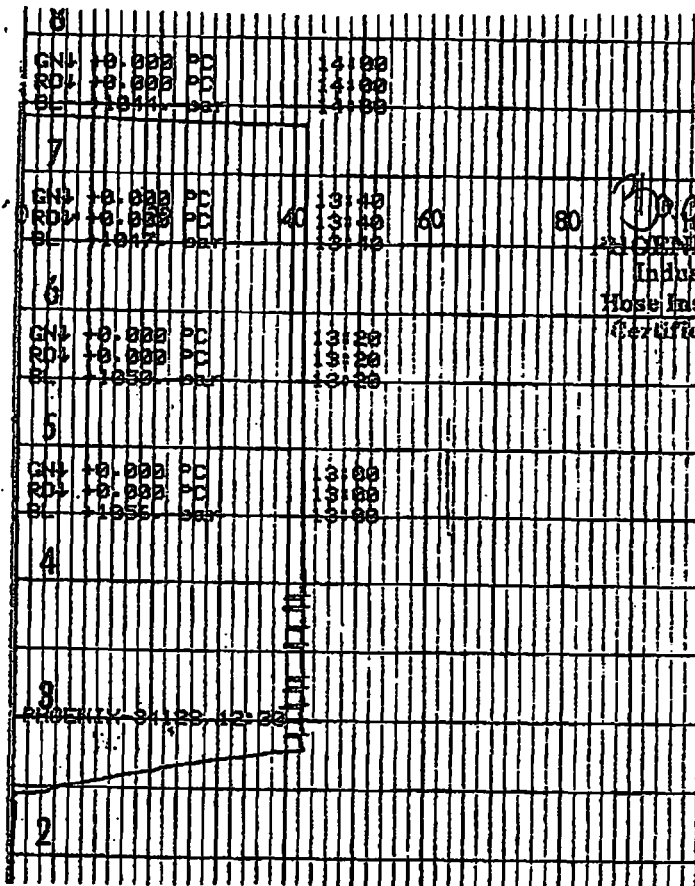
INDUSTRIAL LTD.

6728 Szeged, Budapest út 10. Hungary • H-6701 Szeged, P. O. Box 152
Phone: (3662) 566-737 • Fax: (3662) 568-738

SALES & MARKETING: H-1092 Budapest, Róday u. 42-44. Hungary • H-1440 Budapest, P. O. Box 28
Phone: (361) 458-4200 • Fax: (361) 217-2872, 458-4273 • www.taurusemerg.hu

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

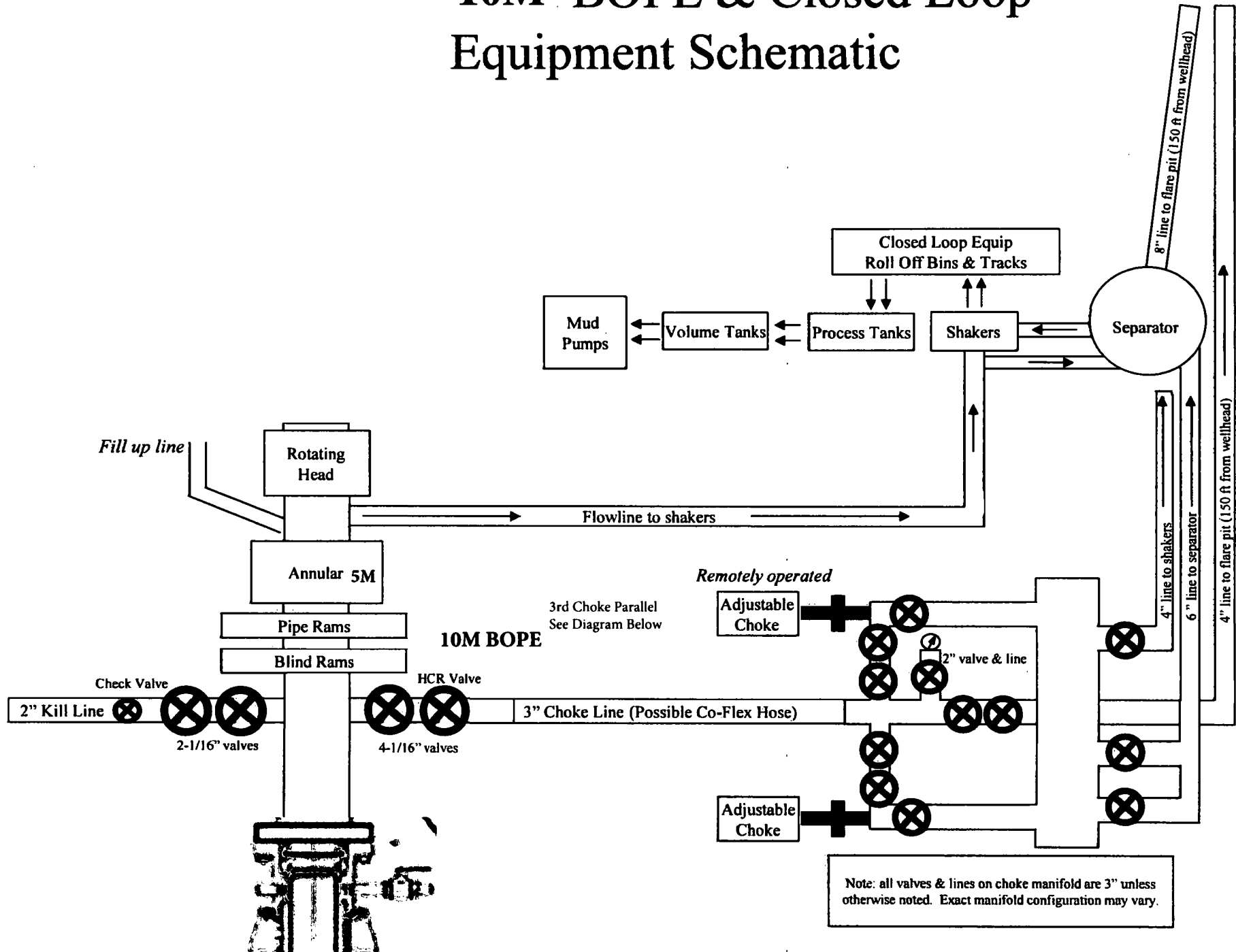
40920-0-00015 N800C 14094-85

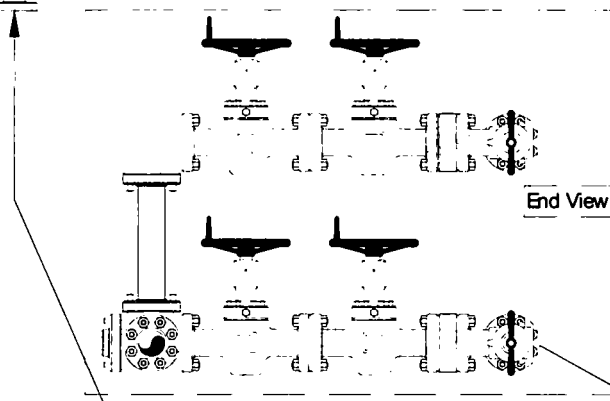
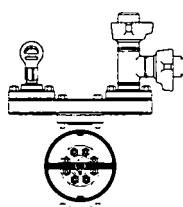


[Signature]
GENIX RUBBER
 Industrial Ltd.
 Hose Inspection and
 Certification Dept.

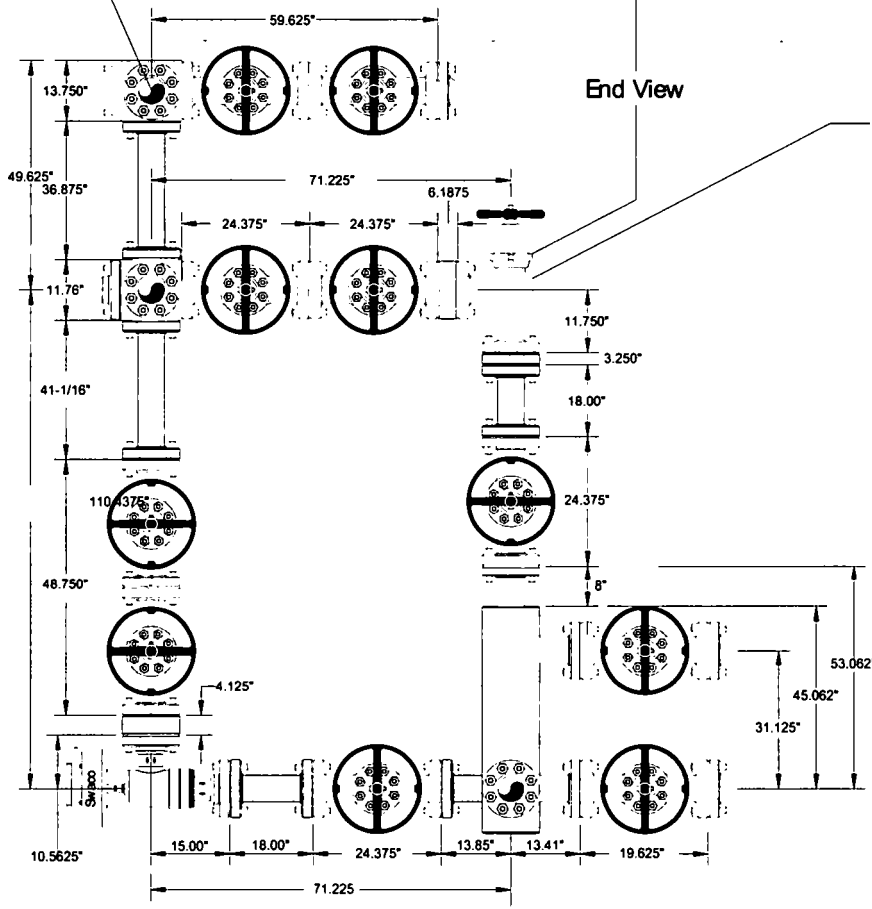
VERIFIED TRUE CO.
 PHOENIX RUBBER CO.

10M BOPE & Closed Loop Equipment Schematic



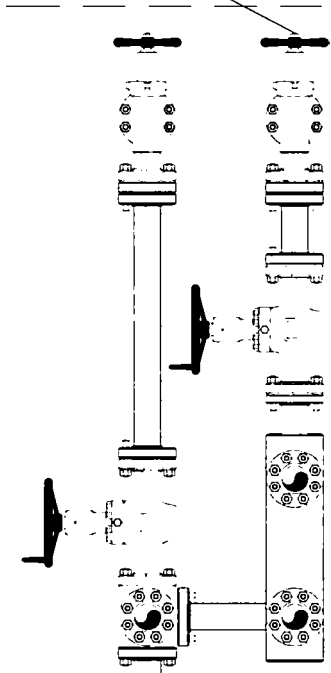


End View



End View

Side View



Side View

Helmerich & Payne
Rg 282



Name	Jeanette	Date	7-19-06	Working Pressure		#	J-5132-E
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Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

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

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

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

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

2. Well Control Procedures

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

General Procedure While Drilling

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

Devon Energy Annular Preventer Summary

General Procedure While Tripping

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

General Procedure While Running Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

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



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

SUPO Data Report

04/30/2019

APD ID: 10400036813

Submission Date: 11/29/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Stranger_34_Fed_12H_ACCESS_RD_20181129100934.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Improve road to accommodate Drilling and Completion operations.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

STRANGER_33_34_PRIMARY_ACC_RD2_20181126090918.pdf

STRANGER_33_34_PRIMARY_ACC_RD_20181126090917.pdf

Stranger_34_Fed_Com_12H_NEW_ACCESS_RD_20181129101025.pdf

New road type: LOCAL

Length: 725

Feet

Width (ft.): 30

Max slope (%): 6

Max grade (%): 4

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water Drainage Ditch

New road access plan or profile prepared? YES

New road access plan attachment:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

STRANGER_33_34_PRIMARY_ACC_RD2_20181126090942.pdf

STRANGER_33_34_PRIMARY_ACC_RD_20181126090941.pdf

Stranger_34_Fed_Com_12H_NEW_ACCESS_RD_20181129101100.pdf

Access road engineering design? YES

Access road engineering design attachment:

Stranger_34_Fed_Com_12H_NEW_ACCESS_RD_20181129101142.pdf

STRANGER_33_34_PRIMARY_ACC_BLM_RDS_20181129101153.pdf

STRANGER_33_34_PRIMARY_ACC_RDS_20181129101154.pdf

Access surfacing type: NONE

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: See attached Interim reclamation diagram.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: N/A

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Stranger_34_Fed_Com_12H_OneMileBuffer_20181129101219.pdf

Existing Wells description:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: SIX PLATS ATTACHED - 4 ELECTRIC, CTB PAD PLAT, FLOWLINE PLAT. CONNECTS HANDLED BY THIRD PARTY. WELLPAD PLAT - SEE PG 3 OF C-102

Production Facilities map:

STRANGER_34_WP_5_TO_CTB_3_FL_20181128120016.pdf

STRANGER_34_CTB_3_PLAT_20181128115937.pdf

STRANGER_33_34_SOUTH_LAT_ELE_20181128115924.PDF

STRANGER_34_WP_5_ELE_20181128120012.pdf

STRANGER_34_PRIMARY_ELE_20181128120007.pdf

STRANGER_34_CTB_3_ELE_20181128115929.PDF

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: STIMULATION

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: OTHER

Source land ownership: FEDERAL

Water source transport method: PIPELINE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 225000

Source volume (acre-feet): 29.000946

Source volume (gal): 9450000

Water source and transportation map:

Stranger_34_WP_5_Water_Map_20181128120136.pdf

Water source comments: The attached Water Transfer Map is a proposal only and the final route and documentation will be provided by a Devon contractor prior to installation. When available Devon will always follow existing disturbance.

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Dirt fill and caliche will be used to construct well pad. See attached map.

Construction Materials source location attachment:

Stranger_34_WP_5_Caliche_Map_20181128120231.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Water Based and Oil Based Cuttings

Amount of waste: 1740 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: All cuttings will disposed of at R360, Sundance, or equivalent.

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000 barrels

Waste disposal frequency : One Time Only

Safe containment description: n/a

Safe containmant attachment:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: PRODUCED WATER

Waste content description: Produced water during flowback will be disposed of at our Rattlesnake 16 SWD.

Amount of waste: 2500 barrels

Waste disposal frequency : Daily

Safe containment description: n/a

Safe containmant attachment:

Waste disposal type: OFF-LEASE INJECTION **Disposal location ownership:** STATE

Disposal type description:

Disposal location description: Produced water will be primarily disposed of at our Rattlesnake 16 SWD. Portions of this water will be recycled and used for stimulations (recycle facility co-located with SWD). Surplus produced water will be sent to third party suppliers for disposal.

Waste type: FLOWBACK

Waste content description: Average produced BWPD over the flowback period (first 30 days of production).

Amount of waste: 6900 barrels

Waste disposal frequency : Daily

Safe containment description: n/a

Safe containmant attachment:

Waste disposal type: OFF-LEASE INJECTION **Disposal location ownership:** STATE

Disposal type description:

Disposal location description: Produced water will be primarily disposed of at our Rattlesnake 16 SWD. Portions of this water will be recycled and used for stimulations (recycle facility co-located with SWD). Surplus produced water will be sent to third party suppliers for disposal.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Stranger_34_Fed_Com_12H_Well_Layout_20181129101259.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: STRANGER 34 WELLPAD

Multiple Well Pad Number: 5

Recontouring attachment:

Stranger_34_Fed_Com_12H_INTERIM_RECL_20181129101319.pdf

Drainage/Erosion control construction: n/a

Drainage/Erosion control reclamation: n/a

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Well pad proposed disturbance (acres): 8.264	Well pad interim reclamation (acres): 6.373	Well pad long term disturbance (acres): 1.891
Road proposed disturbance (acres): 0.5	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0.5
Powerline proposed disturbance (acres): 0.774	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0.774
Pipeline proposed disturbance (acres): 1.58	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 1.58
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 11.118	Total interim reclamation: 6.373	Total long term disturbance: 4.745

Disturbance Comments:

Reconstruction method: Operator will use Best Management Practices"BMP" to mechanically recontour to obtain the desired outcome.

Topsoil redistribution: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Soil treatment: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Existing Vegetation at the well pad: Shinnery, yucca, grasses and mesquite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: TRAVIS

Last Name: PHIBBS

Phone: (575)748-9929

Email: TRAVIS.PHIBBS@DVN.COM

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Maintain weeds on an as need basis.

Weed treatment plan attachment:

Monitoring plan description: Monitor as needed.

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: STRANGER 34 FED COM

Well Number: 12H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,288100 ROW – O&G Pipeline,FLPMA (Powerline),Other

ROW Applications

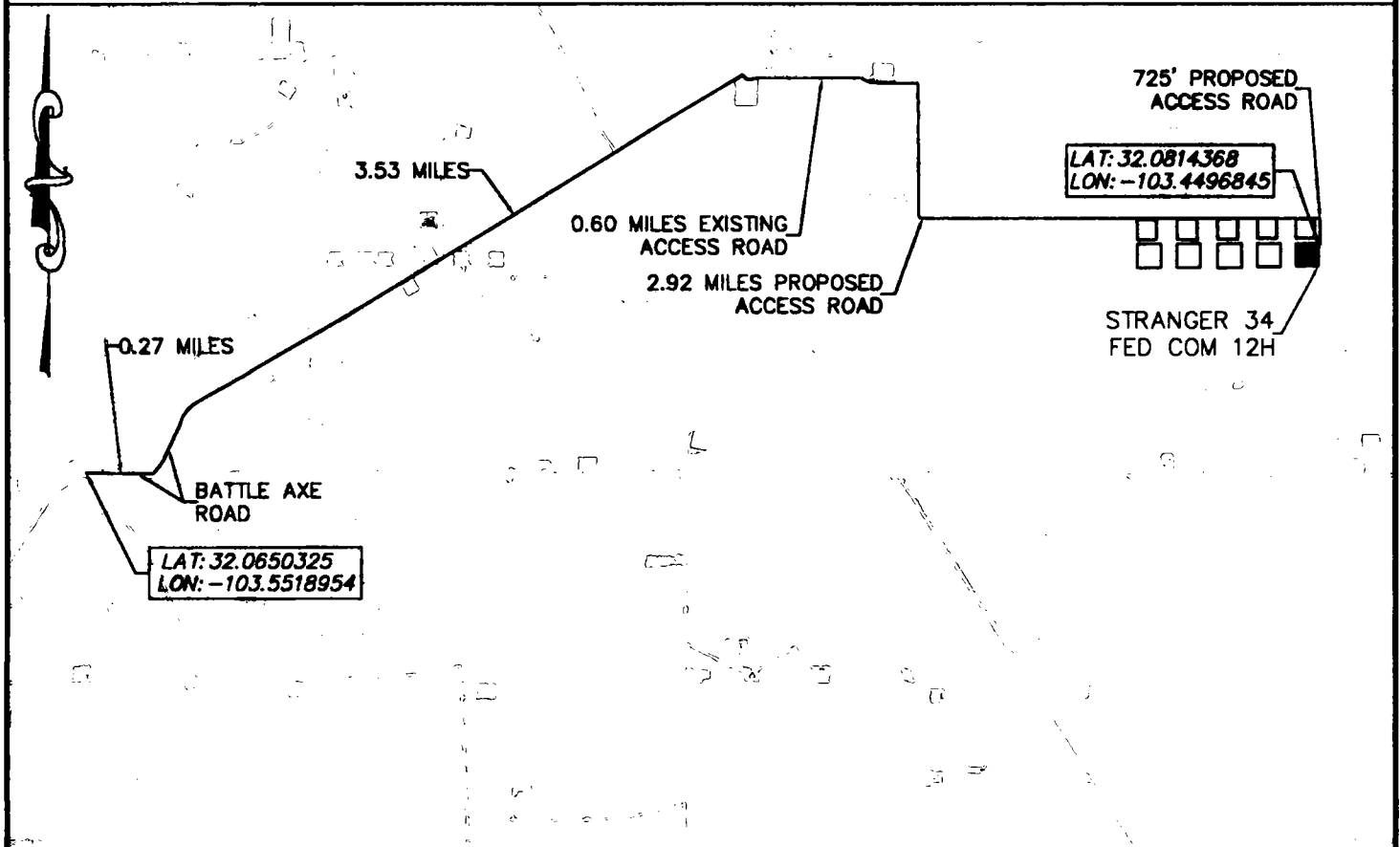
SUPO Additional Information: SEE SEC. 4 FOR FACILITY, ELECTRIC AND FLOWLINE PLATS. SEE C-102 FOR GRADING PLATS

Use a previously conducted onsite? YES

Previous Onsite information: CONDUCTED 4/13/2018

Other SUPO Attachment

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 34 FED COM 12H
LOCATED 205 FT. FROM THE SOUTH LINE
AND 520 FT. FROM THE EAST LINE OF
SECTION 34, TOWNSHIP 25 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

HORIZON ROW LLC

Drawn for:

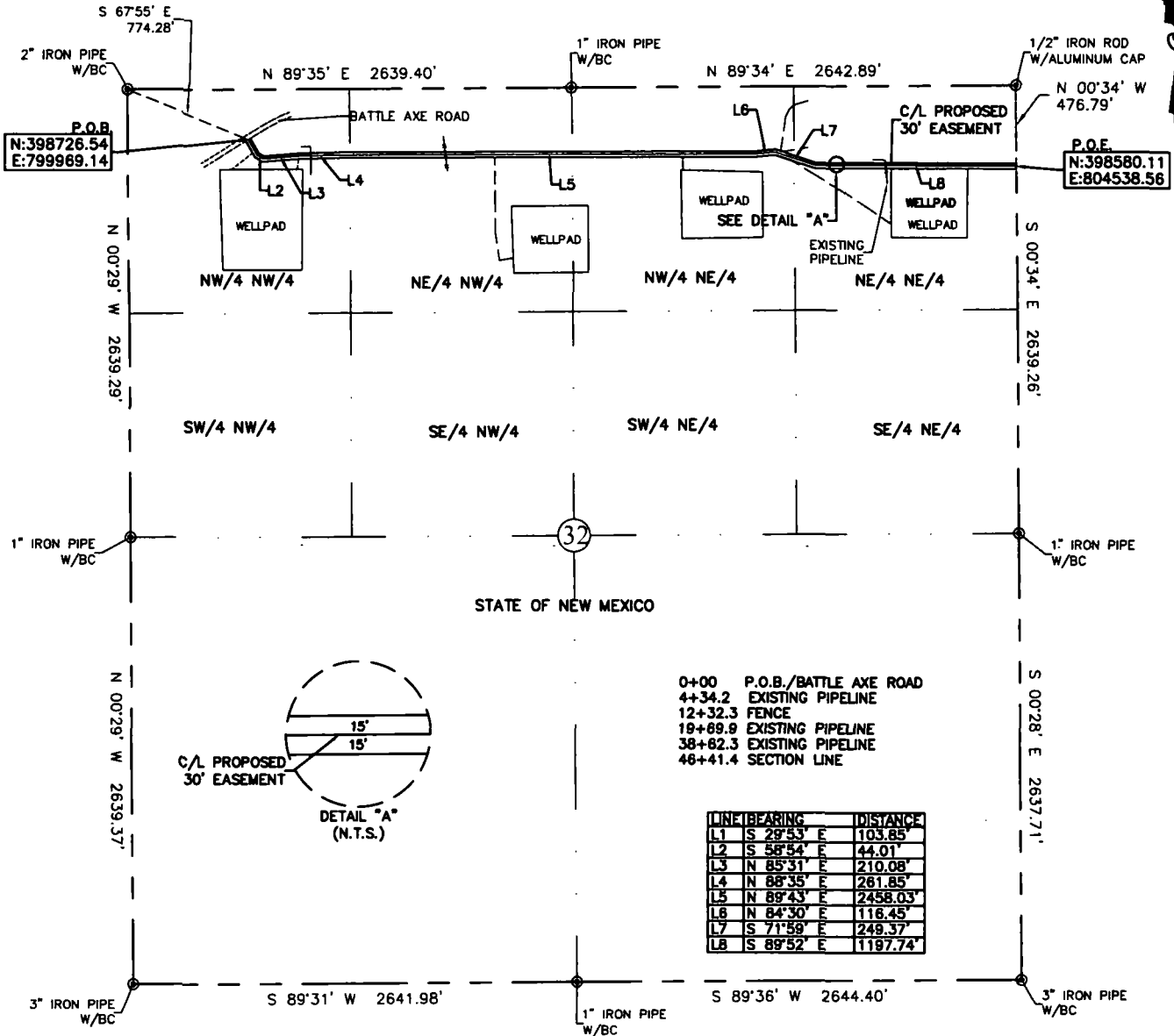
DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 09/11/2018

devon

EXHIBIT "A"
PAGE 1 of 2
ACCESS ROAD PLAT
SECTION 32, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

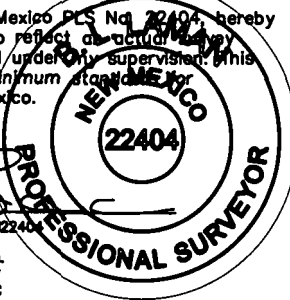


SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 11-08-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JEANNIE PERRY

Date: 06/16/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 33-34
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
STATE OF NEW MEXICO
SECTION 32, T25S-R34E, N.M.P.M.

LINE NUMBER:
7840142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 1000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
10/25/18

0 1000 2000

**SECTION 32, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

STATE OF NEW MEXICO

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northwest quarter of the northeast quarter (NW ¼ NE ¼) and the northeast quarter of the northeast quarter (NE ¼ NE ¼) of Section 32, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 2" iron pipe w/BC for the northwest corner of Section 32, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 67°55' E a distance of 774.28' to the **Point of Beginning** of this easement having coordinates of Northing=398726.54, Easting=799969.14 feet and continuing the following courses;

Thence S 29°53' E a distance of 103.85' to an angle point;

Thence S 58°54' E a distance of 44.01' to an angle point;

Thence N 85°31' E a distance of 210.08' to an angle point;

Thence N 88°35' E a distance of 261.85' to an angle point;

Thence N 89°43' E a distance of 2458.03' to an angle point;

Thence N 84°30' E a distance of 116.45' to an angle point;

Thence S 71°59' E a distance of 249.37' to an angle point;

Thence S 89°52' E a distance of 1197.74' to the **Point of Ending** having coordinates of Northing=398580.11, Easting=804538.56 feet in the east line, from said point a 0.5" iron rod w/aluminum cap found for the northeast corner of Section 32, T25S-R34E bears N 00°34' W a distance of 476.79', covering **4641.37' or 281.29 rods** and having an area of **3.21 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

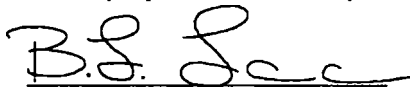
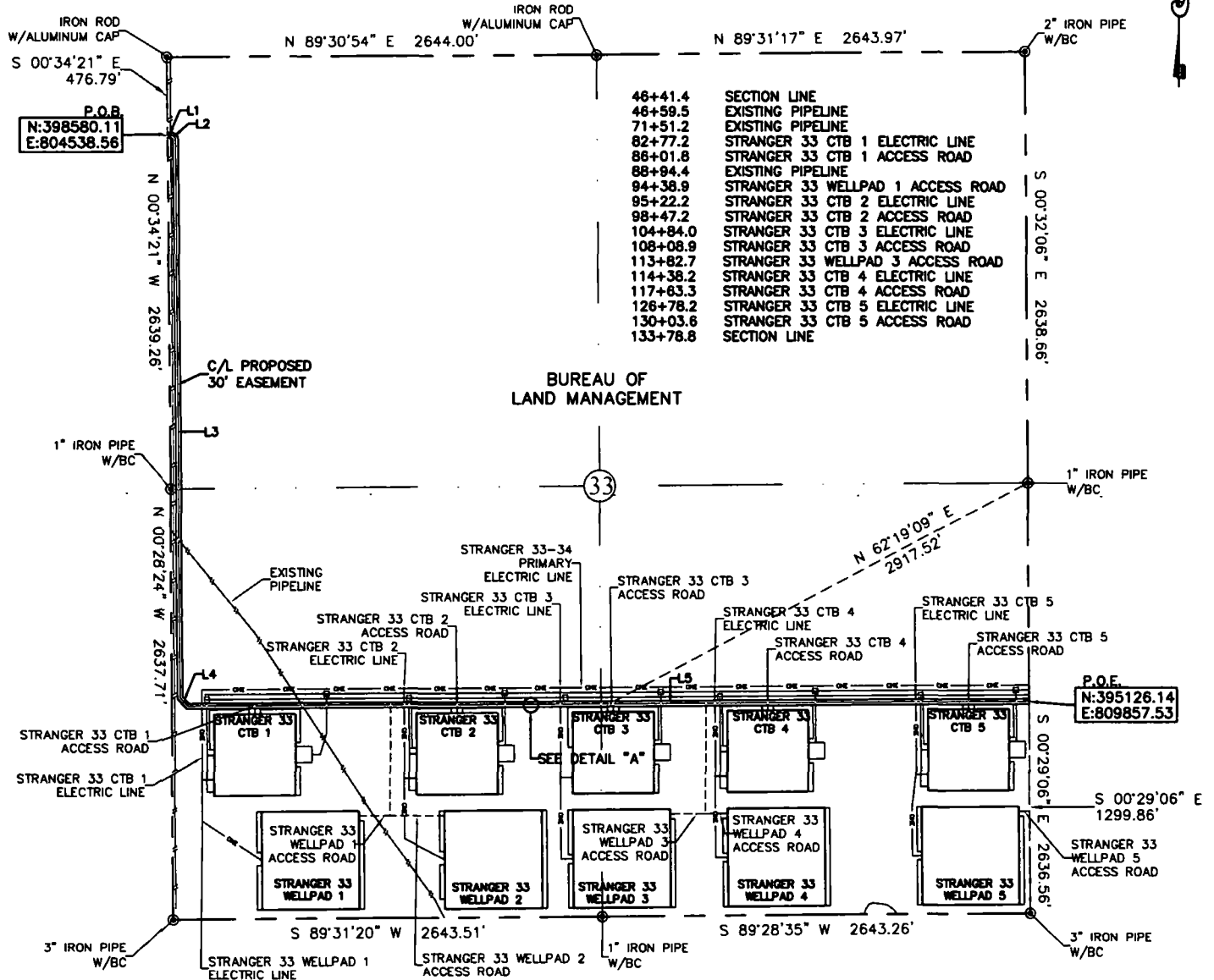

B.L. Laman PLS 22404
Date Signed: 11/08/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 1 of 6
ACCESS ROAD PLAT
SECTION 33, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 6.02 ACRE(S)
8737.45 FEET OR 529.54 RODS

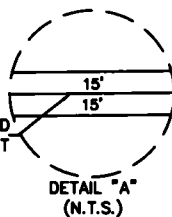
SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 11-08-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70837
Employee of Horizonrow, LLC

C/L PROPOSED 30' EASEMENT



LINE	BEARING	DISTANCE
L1	S 89°52'14" E	30.00'
L2	S 48°01'06" E	24.15'
L3	S 00°34'18" E	3423.13'
L4	S 42°03'12" E	70.20'
L5	N 89°35'16" E	5189.97'

0 1000 2000

HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JEANNIE PERRY

Date: 06/18/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 33-34
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 33, T25S-R34E, N.M.P.M.

LINE NUMBER:
7840142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 1000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
5/19/18

SECTION 33, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northwest quarter (NW ¼) and the southwest quarter (SW ¼) and the southeast quarter (SE ¼) of Section 33, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from an iron rod w/aluminum cap found for the northwest corner of Section 33, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 00°34'21" E a distance of 476.79' to the **Point of Beginning** of this easement having coordinates of Northing=398580.11, Easting=804538.56 feet in the west line of Section 33 and continuing the following course;

Thence S 89°52'14" E a distance of 30.00' to an angle point;

Thence S 48°01'06" E a distance of 24.15' to an angle point;

Thence S 00°34'18" E a distance of 3423.13' to an angle point;

Thence S 42°03'12" E a distance of 70.20' to an angle point;

Thence S 89°35'16" E a distance of 5189.97' to the **Point of Ending** having coordinates of Northing=395126.14, Easting=809857.53 feet in the east line of Section 33, from said point a 3" iron pipe w/BC for the southeast corner of Section 33, T25S-R34E bears S 00°29'06" E a distance of 1299.86', covering **8737.45' or 529.54 rods** and having an area of **6.02 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

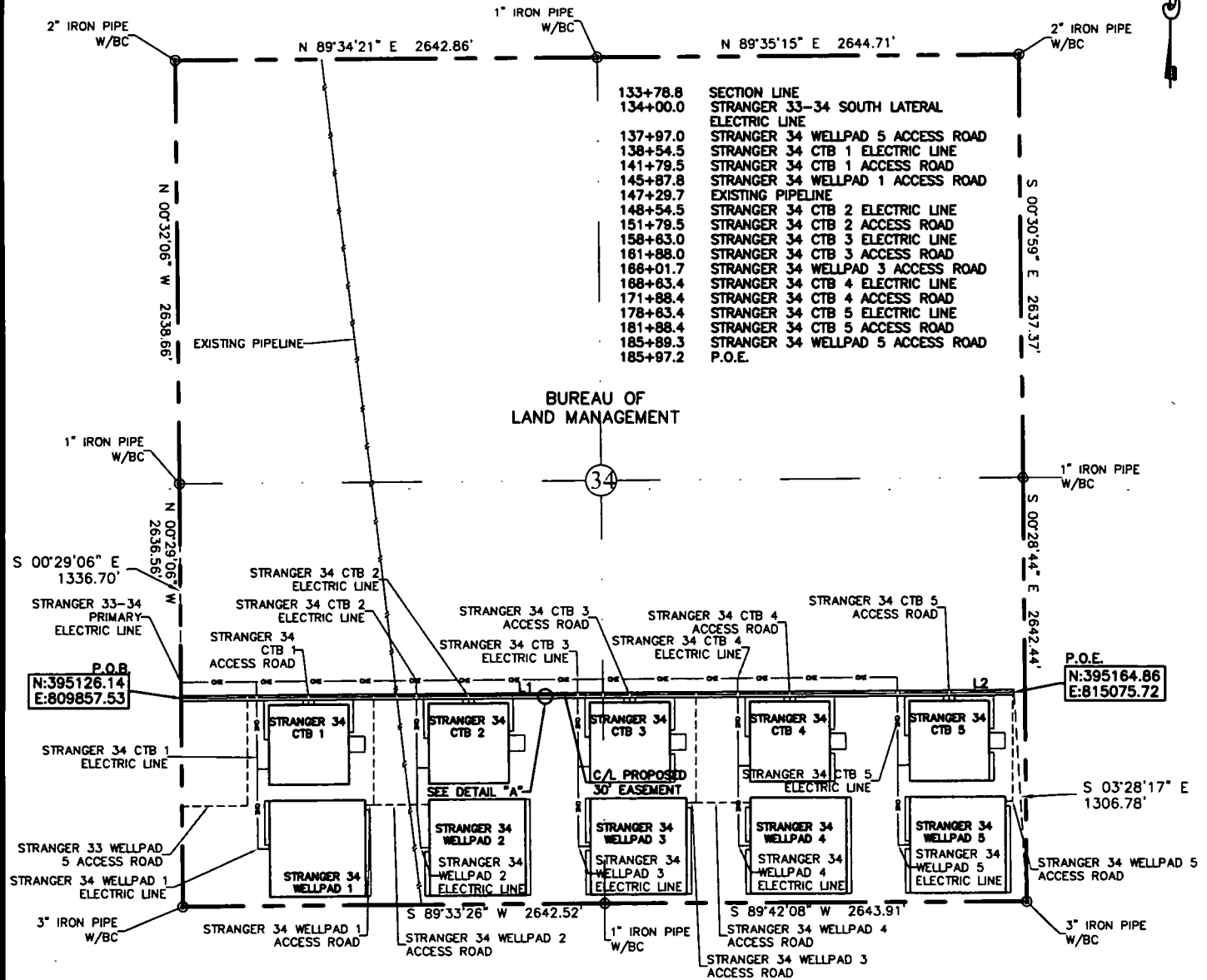
I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404
Date Signed: 11/08/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 3 of 6
ACCESS ROAD PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 3.59 ACRE(S)
5218.34 FEET OR 316.26 RODS

SEE THE ATTACHED LEGAL DESCRIPTION
Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect all actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 11-08-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70837
Employee of Horizonrow, LLC

HORIZON ROW LLC

Drawn for:

devon

Drawn by: JEANNIE PERRY
Date: 06/16/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.	LINE NUMBER: 7840142R
STRANGER 33-34 PRIMARY ACCESS ROAD	WBS NUMBER: XX-128733.AL.SLC
PROPOSED 30' EASEMENT ON THE PROPERTY OF BUREAU OF LAND MANAGEMENT SECTION 34, T25S-R34E, N.M.P.M.	SCALE: 1" = 1000'
	REVISIONS: 10/29/18 CMAAS DATE OF SURVEY: 5/19/18

**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southwest quarter (SW ¼) and the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the west quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 00°29'06" E a distance of 1336.70' to the **Point of Beginning** of this easement having coordinates of Northing=395126.14, Easting=809857.53 feet in the west line of Section 34 and continuing the following course;

Thence N 89°35'16" E a distance of 4809.56' to an angle point;

Thence N 89°25'22" E a distance of 408.78' to the **Point of Ending** having coordinates of Northing=395164.86, Easting=815075.72 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E bears S 03°28'17" E a distance of 1306.78', covering **5218.34' or 316.26 rods** and having an area of **3.59 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


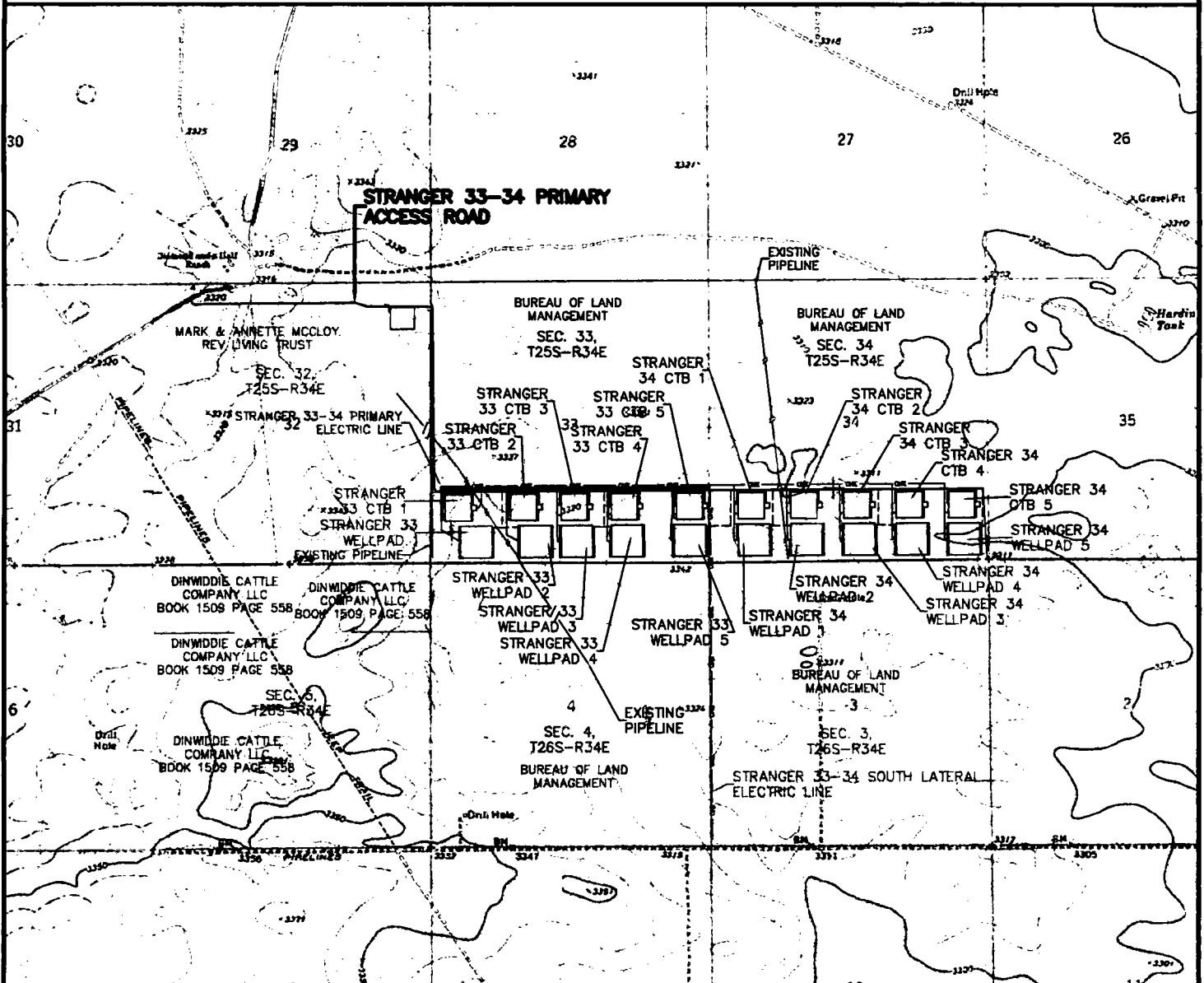

B.L. Laman PLS 22404
Date Signed: 11/08/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"

PAGE 5 of 6



QUAD MAP

SECTION 32, T25S-R34E, N.M.P.M.;
SECTION 33, T25S-R34E, N.M.P.M.;
SECTION 34, T25S-R34E, N.M.P.M
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

PROPOSED 30' EASEMENT

Drawn by:
JEANNIE PERRY

Date: 06/18/2018

Drawn for:

devon

LINE NUMBER:
7840142R

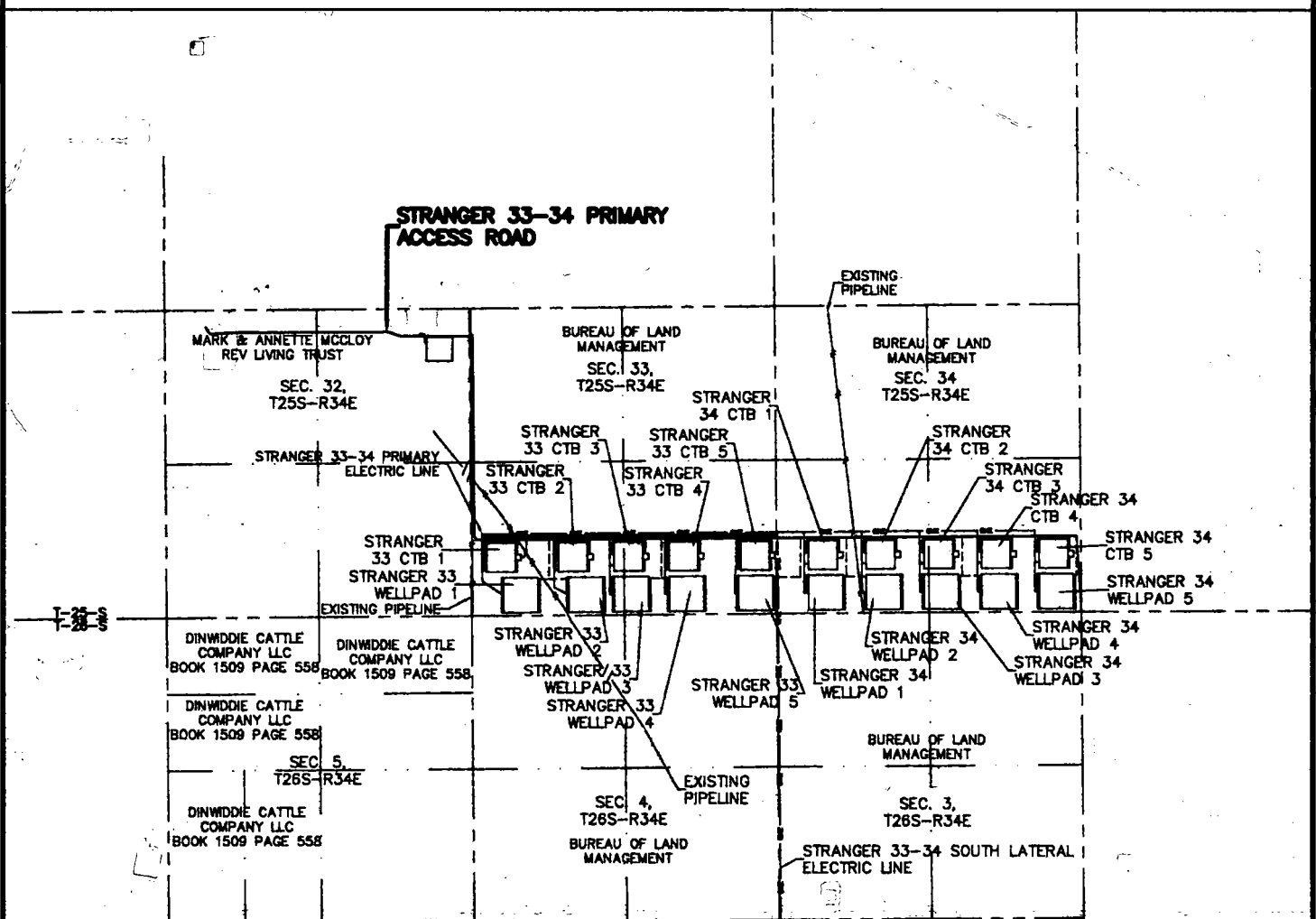
WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 3000'

REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
10/25/18

EXHIBIT "A"

PAGE 6 of 6



AERIAL MAP

SECTION 32, T25S-R34E, N.M.P.M.;
SECTION 33, T25S-R34E, N.M.P.M.;
SECTION 34, T25S-R34E, N.M.P.M
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

PROPOSED 30' EASEMENT

Drawn by:
JEANNIE PERRY

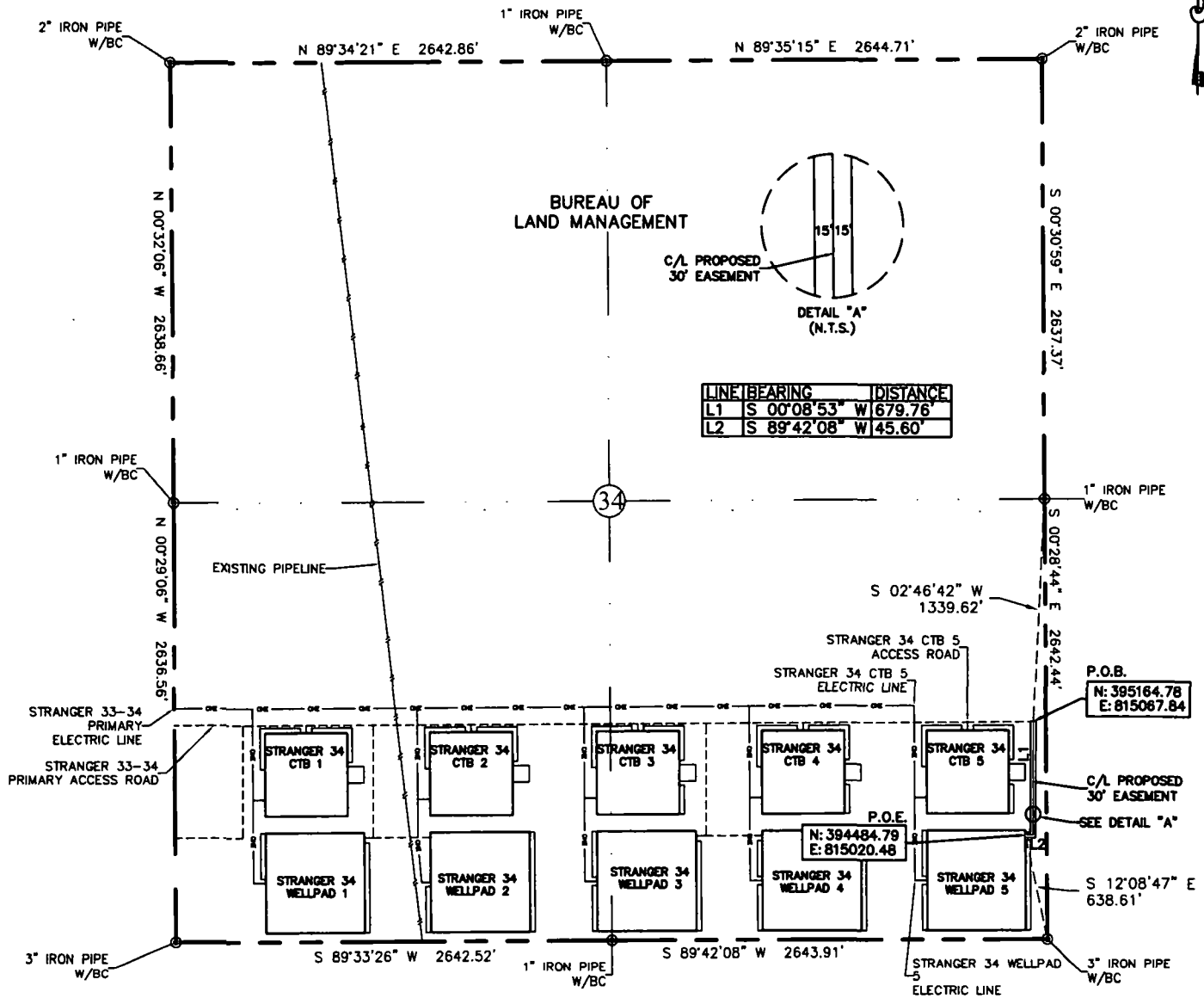
Date: 06/18/2018

Drawn for:



LINE NUMBER:
7640142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 3000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
10/25/18

EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.500 ACRE(S)
 725.36 FEET OR 43.96 RODS

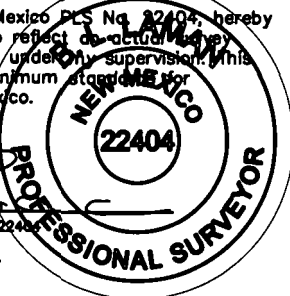
0+00.0 P.O.B./STRANGER 33-34 PRIMARY ACCESS ROAD
 7+25.4 P.O.E./STRANGER 34 WELLPAD 5

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
 Date Signed: 08-17-2018
 P.O. Box 548, Dry Creek, La.
 (903) 388-3045 70837
 Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
 JEANNIE PERRY

Date: 06/11/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 34
 WELLPAD 5 ACCESS ROAD

PROPOSED 30' EASEMENT
 ON THE PROPERTY OF
 BUREAU OF LAND MANAGEMENT
 SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
 7640157R

WBS NUMBER:

SCALE:
 1" = 1000'

REVISIONS:

DATE OF SURVEY:
 5/18/18

0 1000 2000

**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the east quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 02°46'42" W a distance of 1339.62' to the **Point of Beginning** of this easement having coordinates of Northing=395164.78, Easting=815067.84 feet and continuing the following course;

Thence S 00°08'53" W a distance of 679.76' to an angle point;

Thence S 89°42'08" W a distance of 45.60' to the **Point of Ending** having coordinates of Northing=394484.79, Easting=815020.48 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E bears S 12°08'47" E a distance of 638.61', covering **725.36' or 43.96 rods** and having an area of **0.500 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404

Date Signed: 09/17/2018

Horizon Row, LLC

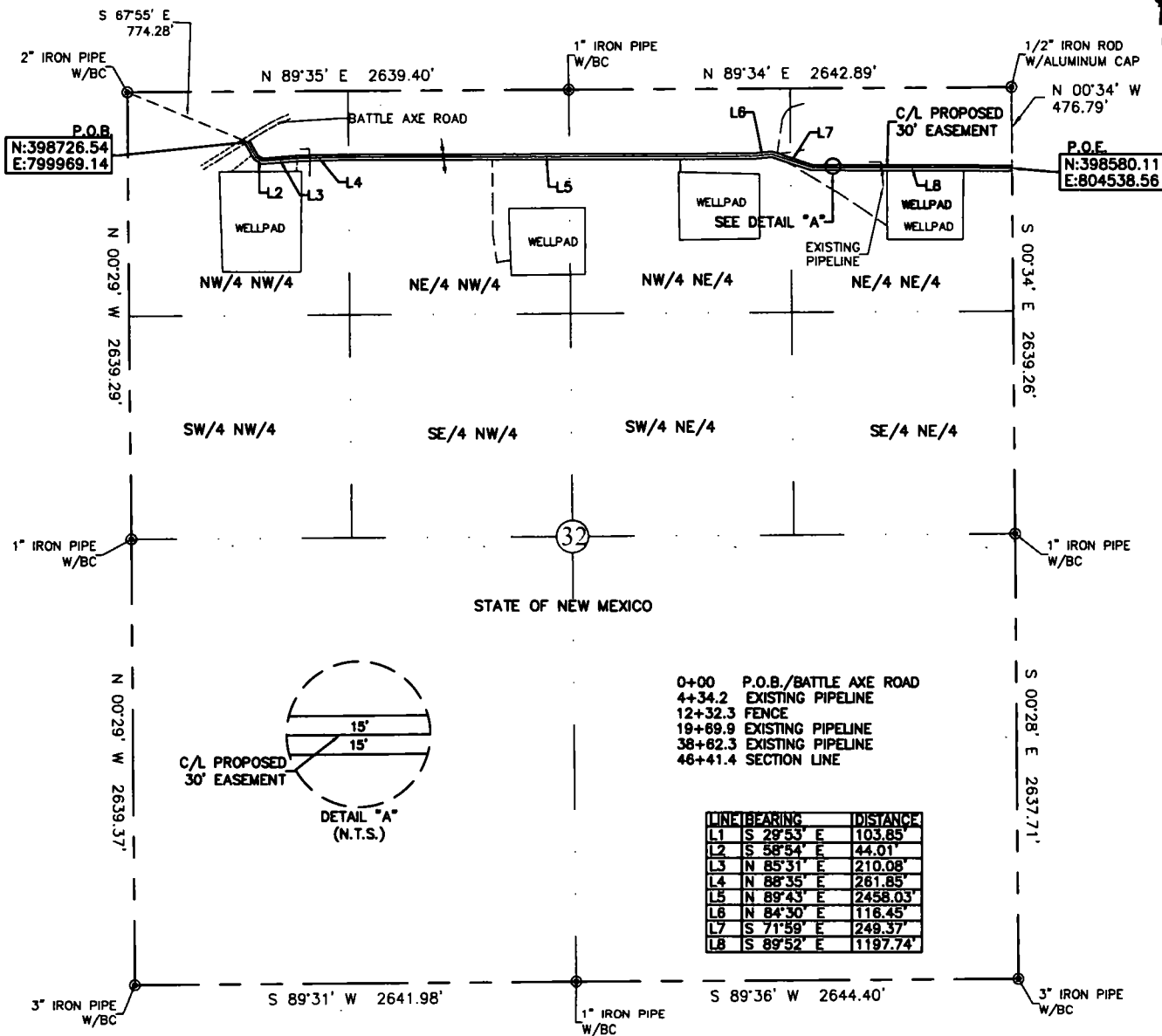
P.O. Box 548, Dry Creek, La.

(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 1 of 2
ACCESS ROAD PLAT
SECTION 32, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



0+00 P.O.B./BATTLE AXE ROAD
 4+34.2 EXISTING PIPELINE
 12+32.3 FENCE
 19+69.9 EXISTING PIPELINE
 38+62.3 EXISTING PIPELINE
 46+41.4 SECTION LINE

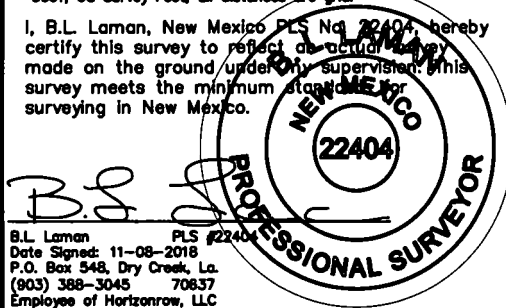
LINE	BEARING	DISTANCE
L1	S 29°53' E	103.85'
L2	S 58°54' E	44.01'
L3	N 85°31' E	210.08'
L4	N 88°35' E	281.85'
L5	N 89°43' E	2458.03'
L6	N 84°30' E	116.45'
L7	S 71°59' E	249.37'
L8	S 89°52' E	1197.74'

QUARTER/QUARTER	30' EASEMENT AREA	FEET	RODS
NW 1/4 OF NW 1/4	0.46 ACRES	664.68	40.28
NE 1/4 OF NW 1/4	0.91 ACRES	1319.81	79.99
NW 1/4 OF NE 1/4	0.92 ACRES	1328.08	80.49
NE 1/4 OF NE 1/4	0.92 ACRES	1328.80	80.53
TOTALS:	3.21 ACRES	4641.37	281.29

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect the actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JEANNIE PERRY

Date: 06/16/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.
 STRANGER 33-34
 PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
 ON THE PROPERTY OF
 STATE OF NEW MEXICO
 SECTION 32, T25S-R34E, N.M.P.M.

LINE NUMBER:
7640142R
 WBS NUMBER:
XX-128733.AL.SLC
 SCALE:
1" = 1000'
 REVISIONS:
10/29/18 CMAAS
 DATE OF SURVEY:
10/25/18

0 1000 2000

SECTION 32, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

STATE OF NEW MEXICO

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northwest quarter of the northeast quarter (NW ¼ NE ¼) and the northeast quarter of the northeast quarter (NE ¼ NE ¼) of Section 32, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 2" iron pipe w/BC for the northwest corner of Section 32, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 67°55' E a distance of 774.28' to the **Point of Beginning** of this easement having coordinates of Northing=398726.54, Easting=799969.14 feet and continuing the following courses;

Thence S 29°53' E a distance of 103.85' to an angle point;

Thence S 58°54' E a distance of 44.01' to an angle point;

Thence N 85°31' E a distance of 210.08' to an angle point;

Thence N 88°35' E a distance of 261.85' to an angle point;

Thence N 89°43' E a distance of 2458.03' to an angle point;

Thence N 84°30' E a distance of 116.45' to an angle point;

Thence S 71°59' E a distance of 249.37' to an angle point;

Thence S 89°52' E a distance of 1197.74' to the **Point of Ending** having coordinates of Northing=398580.11, Easting=804538.56 feet in the east line, from said point a 0.5" iron rod w/aluminum cap found for the northeast corner of Section 32, T25S-R34E bears N 00°34' W a distance of 476.79', covering **4641.37' or 281.29 rods** and having an area of **3.21 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


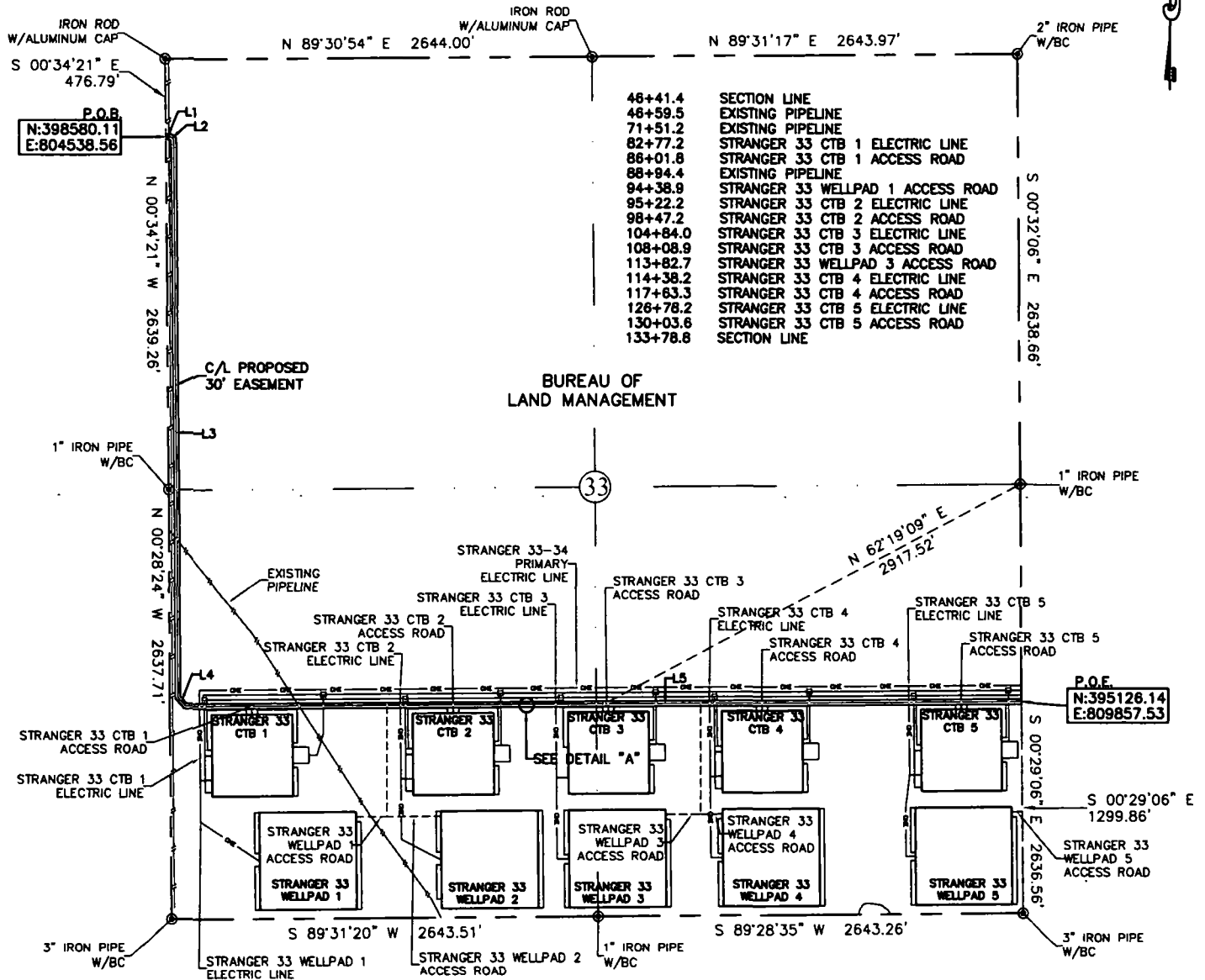

B.L. Laman PLS 22404
Date Signed: 11/08/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 1 of 6
ACCESS ROAD PLAT
SECTION 33, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



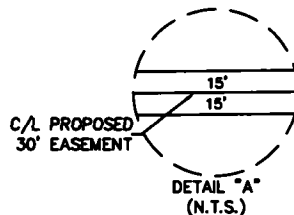
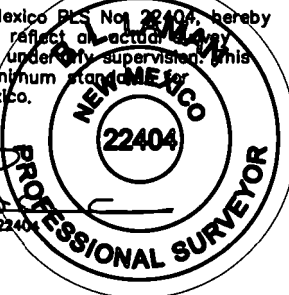
30' EASEMENT AREA = 6.02 ACRE(S)
8737.45 FEET OR 529.54 RODS

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are in feet.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect all data made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 11-08-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70837
Employee of Horizonrow, LLC



LINE	BEARING	DISTANCE
L1	S 89°52'14" E	30.00'
L2	S 48°01'06" E	24.15'
L3	S 00°34'18" E	3423.13'
L4	S 42°03'12" E	70.20'
L5	N 89°35'16" E	5189.97'

0 1000 2000

HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JEANNIE PERRY

Date: 06/16/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 33-34
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 33, T25S-R34E, N.M.P.M.

LINE NUMBER:
7840142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 1000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
5/19/18

SECTION 33, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northwest quarter (NW ¼) and the southwest quarter (SW ¼) and the southeast quarter (SE ¼) of Section 33, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from an iron rod w/aluminum cap found for the northwest corner of Section 33, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 00°34'21" E a distance of 476.79' to the **Point of Beginning** of this easement having coordinates of Northing=398580.11, Easting=804538.56 feet in the west line of Section 33 and continuing the following course;

Thence S 89°52'14" E a distance of 30.00' to an angle point;

Thence S 48°01'06" E a distance of 24.15' to an angle point;

Thence S 00°34'18" E a distance of 3423.13' to an angle point;

Thence S 42°03'12" E a distance of 70.20' to an angle point;

Thence S 89°35'16" E a distance of 5189.97' to the **Point of Ending** having coordinates of Northing=395126.14, Easting=809857.53 feet in the east line of Section 33, from said point a 3" iron pipe w/BC for the southeast corner of Section 33, T25S-R34E bears S 00°29'06" E a distance of 1299.86', covering 8737.45' or 529.54 rods and having an area of 6.02 acres.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404

Date Signed: 11/08/2018

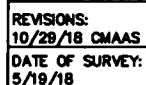
Horizon Row, LLC

P.O. Box 548, Dry Creek, La.

(903) 388-3045 70637

Employee of Horizon Row, LLC





**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southwest quarter (SW ¼) and the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the west quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 00°29'06" E a distance of 1336.70' to the **Point of Beginning** of this easement having coordinates of Northing=395126.14, Easting=809857.53 feet in the west line of Section 34 and continuing the following course;

Thence N 89°35'16" E a distance of 4809.56' to an angle point;

Thence N 89°25'22" E a distance of 408.78' to the **Point of Ending** having coordinates of Northing=395164.86, Easting=815075.72 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E bears S 03°28'17" E a distance of 1306.78', covering **5218.34' or 316.26 rods** and having an area of **3.59 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

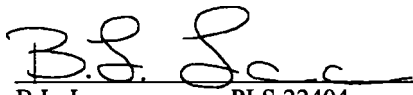
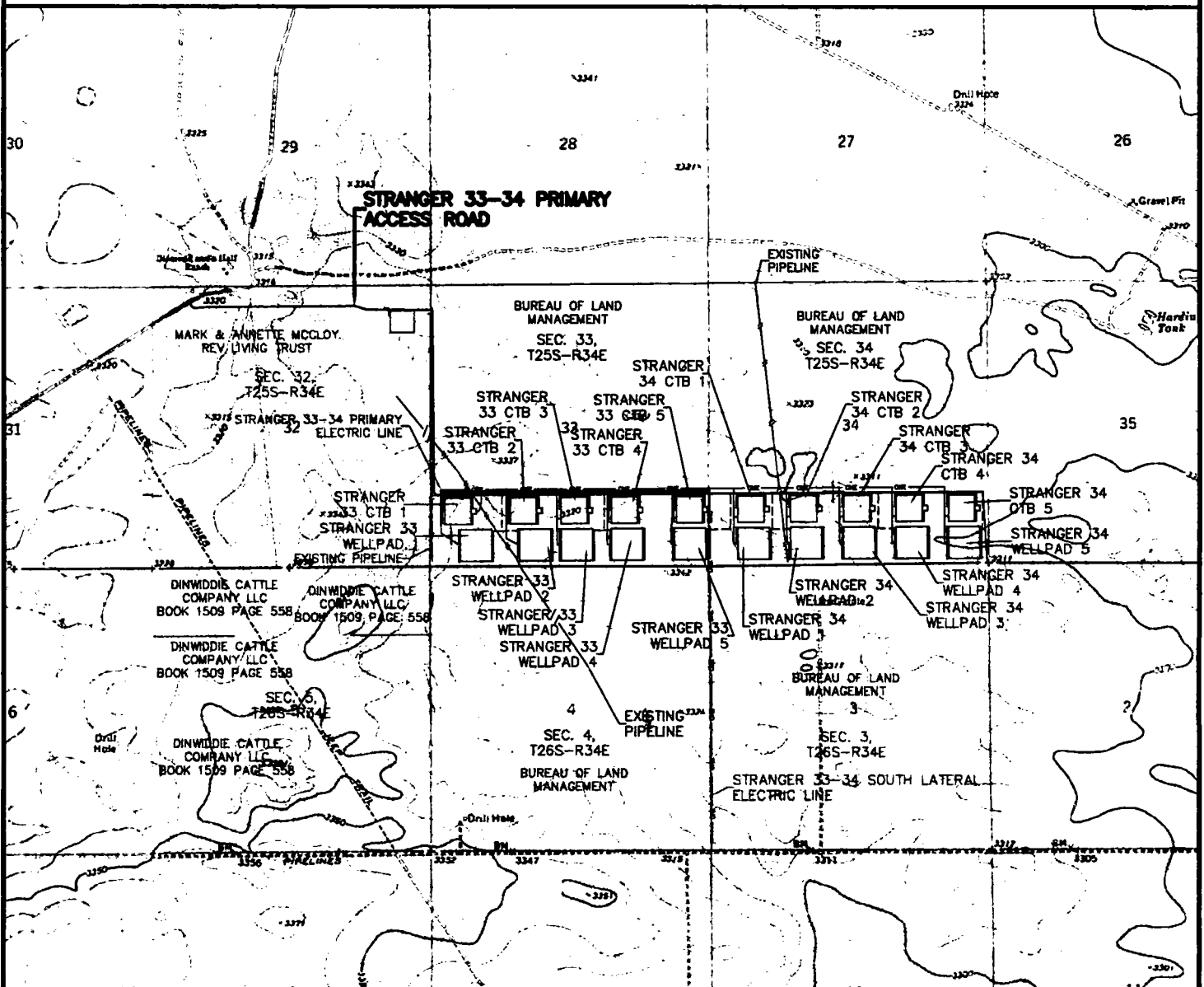

B.L. Laman PLS 22404
Date Signed: 11/08/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"

PAGE 5 of 6



QUAD MAP

SECTION 32, T25S-R34E, N.M.P.M.;
SECTION 33, T25S-R34E, N.M.P.M.;
SECTION 34, T25S-R34E, N.M.P.M
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

PROPOSED 30' EASEMENT

Drawn by:
JEANNIE PERRY

Date: 06/18/2018

Drawn for:

devon

LINE NUMBER:
7840142R

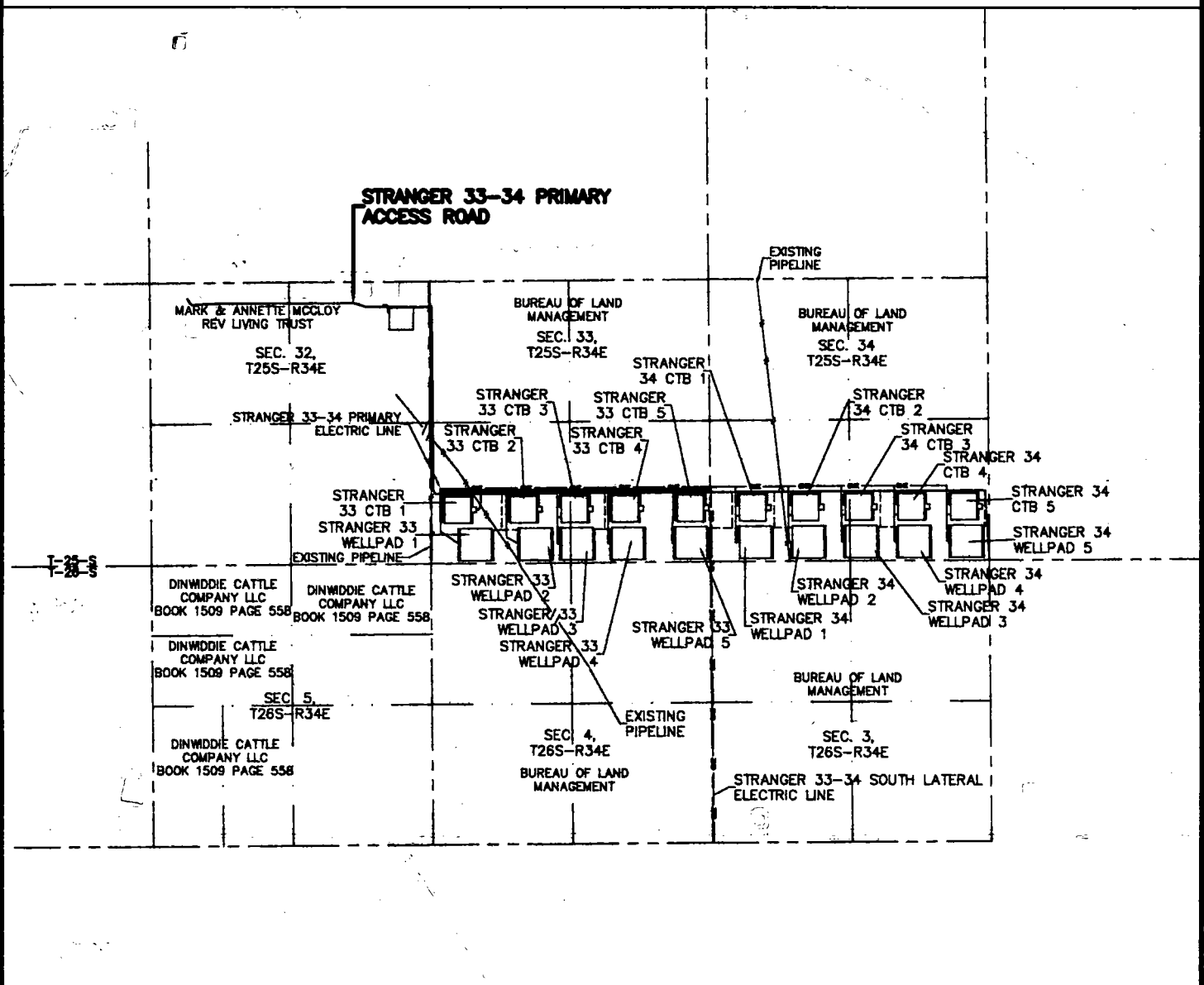
WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 3000'

REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
10/25/18

EXHIBIT "A"

PAGE 6 of 6



AERIAL MAP

SECTION 32, T25S-R34E, N.M.P.M.;
SECTION 33, T25S-R34E, N.M.P.M.;
SECTION 34, T25S-R34E, N.M.P.M
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

PROPOSED 30' EASEMENT

Drawn by:
JEANNIE PERRY

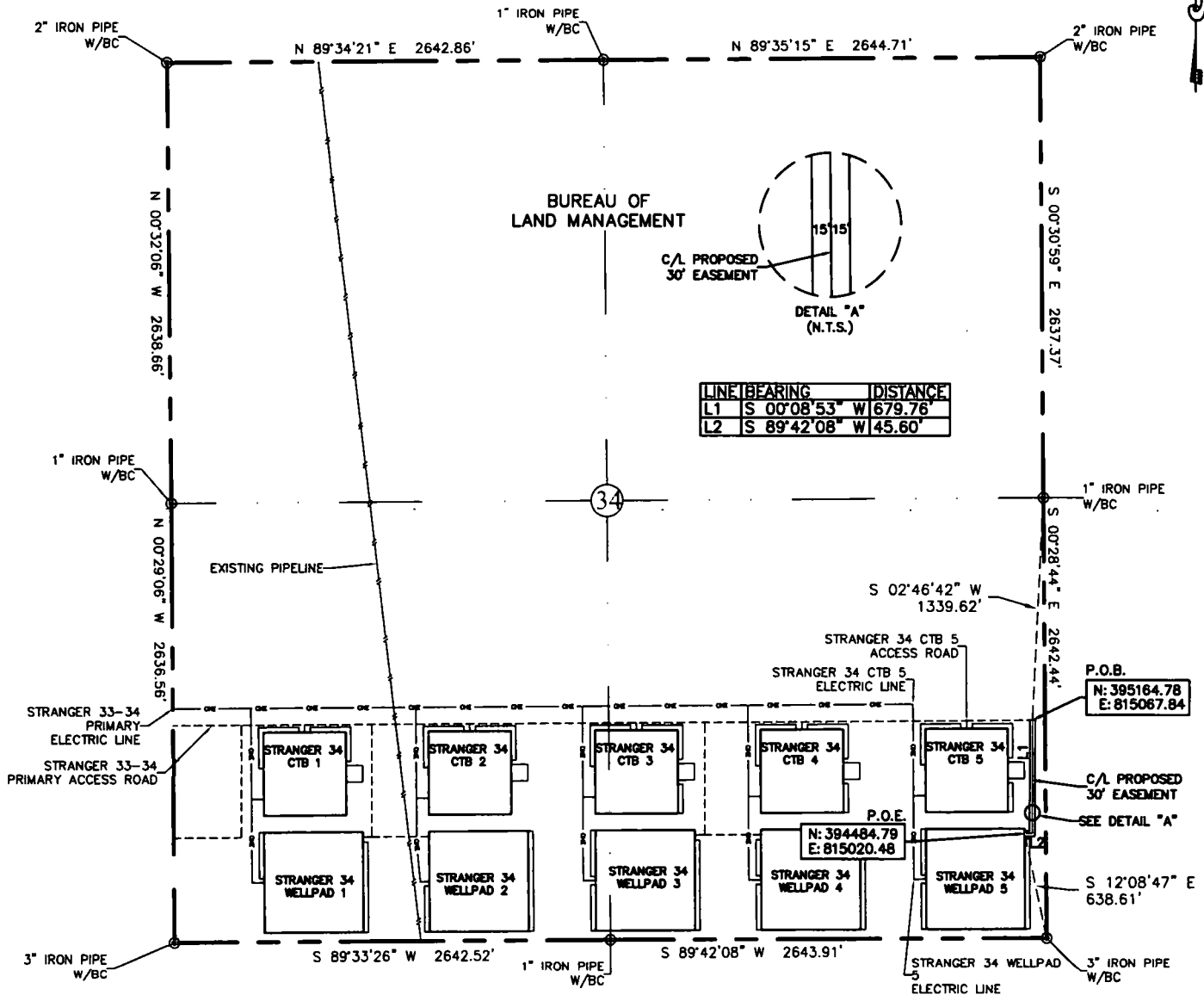
Date: 08/18/2018

Drawn for:

devon

LINE NUMBER:
7840142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 3000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
10/25/18

EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.500 ACRE(S)
 725.36 FEET OR 43.96 RODS

0+00.0 P.O.B./STRANGER 33-34 PRIMARY ACCESS ROAD
 7+25.4 P.O.E./STRANGER 34 WELLPAD 5

SEE THE ATTACHED LEGAL DESCRIPTION

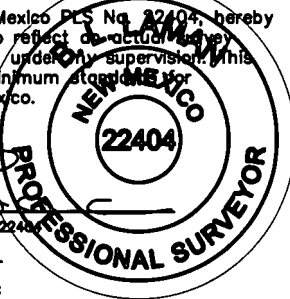
Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

0 1000 2000



B.L. Laman
 Date Signed: 09-17-2018
 P.O. Box 548, Dry Creek, La.
 (903) 388-3045 70837
 Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
 JEANNIE PERRY

Date: 06/11/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 34
 WELLPAD 5 ACCESS ROAD

PROPOSED 30' EASEMENT
 ON THE PROPERTY OF
 BUREAU OF LAND MANAGEMENT
 SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
 7640157R

WBS NUMBER:

SCALE:
 1" = 1000'

REVISIONS:

DATE OF SURVEY:
 5/19/18

SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the east quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 02°46'42" W a distance of 1339.62' to the **Point of Beginning** of this easement having coordinates of Northing=395164.78, Easting=815067.84 feet and continuing the following course;

Thence S 00°08'53" W a distance of 679.76' to an angle point;

Thence S 89°42'08" W a distance of 45.60' to the **Point of Ending** having coordinates of Northing=394484.79, Easting=815020.48 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E bears S 12°08'47" E a distance of 638.61', covering **725.36' or 43.96 rods** and having an area of **0.500 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

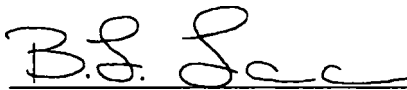
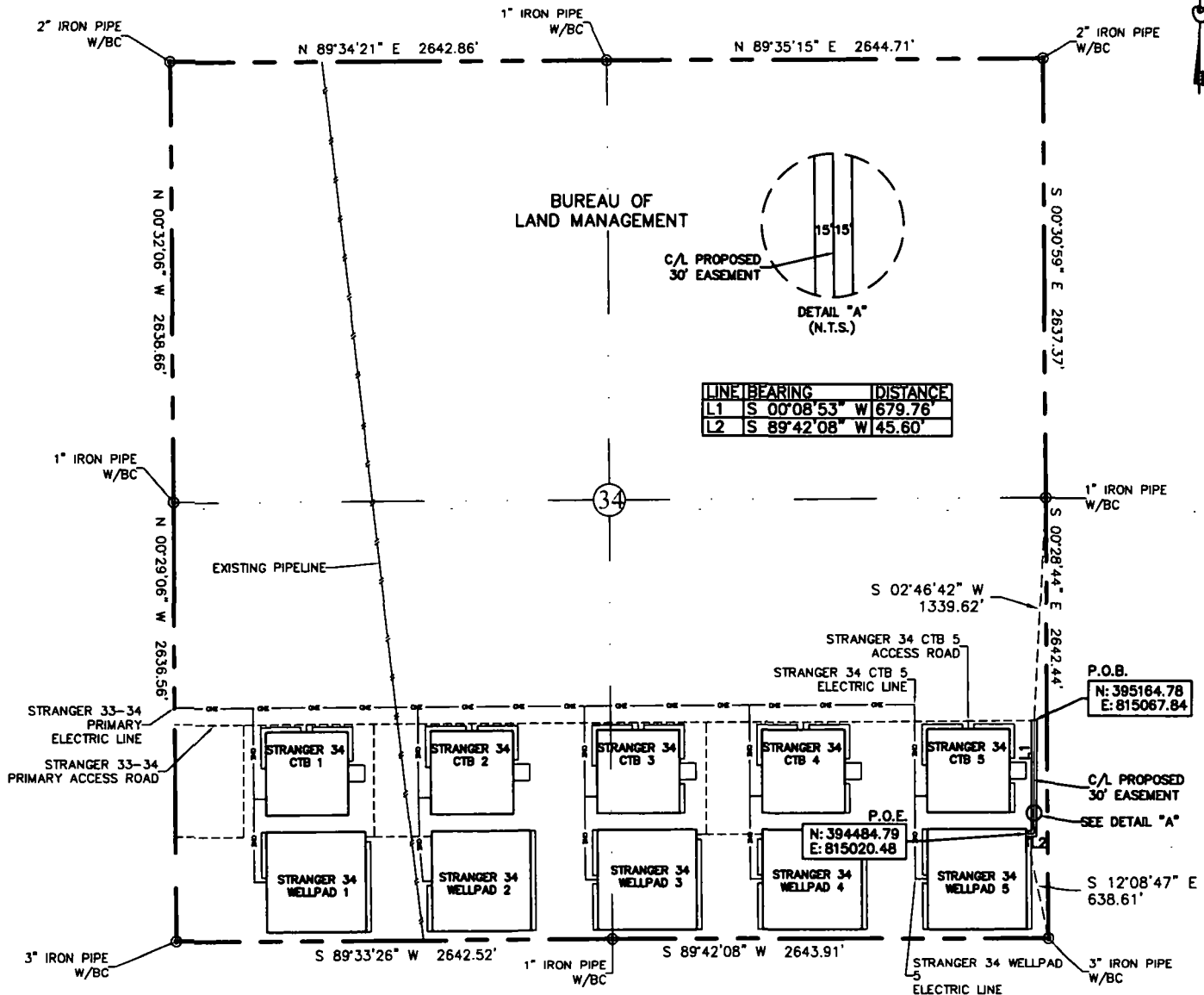

B.L. Laman PLS 22404
Date Signed: 09/17/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.500 ACRE(S)
725.36 FEET OR 43.96 RODS

0+00.0 P.O.B./STRANGER 33-34 PRIMARY ACCESS ROAD
7+25.4 P.O.E./STRANGER 34 WELLPAD 5

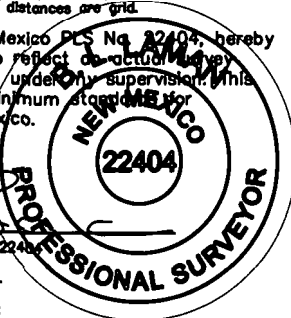
SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PCS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

0 1000 2000

B.L. Laman
Date Signed: 09-17-2018
P.O. Box 548, Dry Creek, La.
(803) 388-3045 70837
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JEANNIE PERRY

Date: 06/11/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 34
WELLPAD 5 ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
7840157R

WBS NUMBER:

SCALE:
1" = 1000'

REVISIONS:

DATE OF SURVEY:
5/19/18

SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the east quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 02°46'42" W a distance of 1339.62' to the **Point of Beginning** of this easement having coordinates of Northing=395164.78, Easting=815067.84 feet and continuing the following course;

Thence S 00°08'53" W a distance of 679.76' to an angle point;

Thence S 89°42'08" W a distance of 45.60' to the **Point of Ending** having coordinates of Northing=394484.79, Easting=815020.48 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E bears S 12°08'47" E a distance of 638.61', covering **725.36' or 43.96 rods** and having an area of **0.500 acres**.

NOTES:

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I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404

Date Signed: 09/17/2018

Horizon Row, LLC

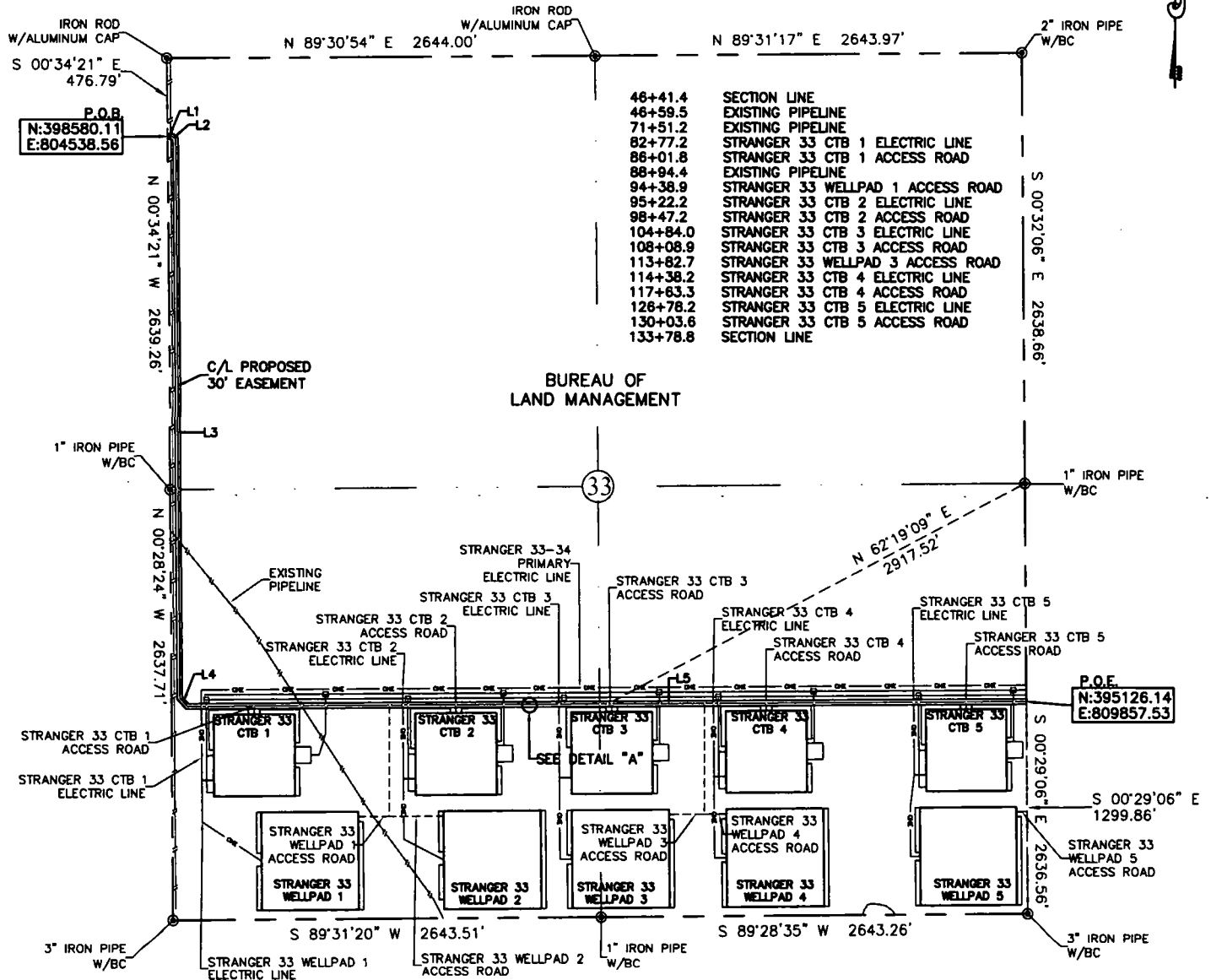
P.O. Box 548, Dry Creek, La.

(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 1 of 6
ACCESS ROAD PLAT
SECTION 33, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



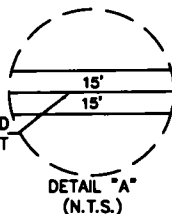
30' EASEMENT AREA = 6.02 ACRE(S)
 8737.45 FEET OR 529.54 RODS

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

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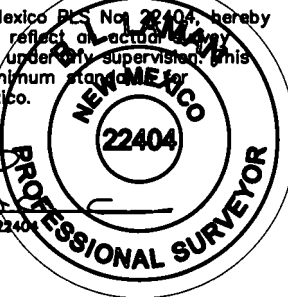
C/L PROPOSED 30' EASEMENT



LINE	BEARING	DISTANCE
L1	S 89°52'14" E	30.00'
L2	S 48°01'06" E	24.15'
L3	S 00°34'18" E	3423.13'
L4	S 42°03'12" E	70.20'
L5	N 89°35'16" E	5189.97'

0 1000 2000

B.L. Laman
 Date Signed: 11-08-2018
 P.O. Box 548, Dry Creek, La.
 (903) 388-3045 70837
 Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
 JEANNIE PERRY

Date: 06/16/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 33-34
 PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
 ON THE PROPERTY OF
 BUREAU OF LAND MANAGEMENT
 SECTION 33, T25S-R34E, N.M.P.M.

LINE NUMBER:
 7840142R

WBS NUMBER:
 XX-128733.AL.SLC

SCALE:
 1" = 1000'

REVISIONS:
 10/28/18 CMAAS
 DATE OF SURVEY:
 5/19/18

SECTION 33, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northwest quarter (NW ¼) and the southwest quarter (SW ¼) and the southeast quarter (SE ¼) of Section 33, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from an iron rod w/aluminum cap found for the northwest corner of Section 33, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 00°34'21" E a distance of 476.79' to the **Point of Beginning** of this easement having coordinates of Northing=398580.11, Easting=804538.56 feet in the west line of Section 33 and continuing the following course;

Thence S 89°52'14" E a distance of 30.00' to an angle point;

Thence S 48°01'06" E a distance of 24.15' to an angle point;

Thence S 00°34'18" E a distance of 3423.13' to an angle point;

Thence S 42°03'12" E a distance of 70.20' to an angle point;

Thence S 89°35'16" E a distance of 5189.97' to the **Point of Ending** having coordinates of Northing=395126.14, Easting=809857.53 feet in the east line of Section 33, from said point a 3" iron pipe w/BC for the southeast corner of Section 33, T25S-R34E bears S 00°29'06" E a distance of 1299.86', covering 8737.45' or 529.54 rods and having an area of 6.02 acres.

NOTES:

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B.L. Laman PLS 22404

Date Signed: 11/08/2018

Horizon Row, LLC

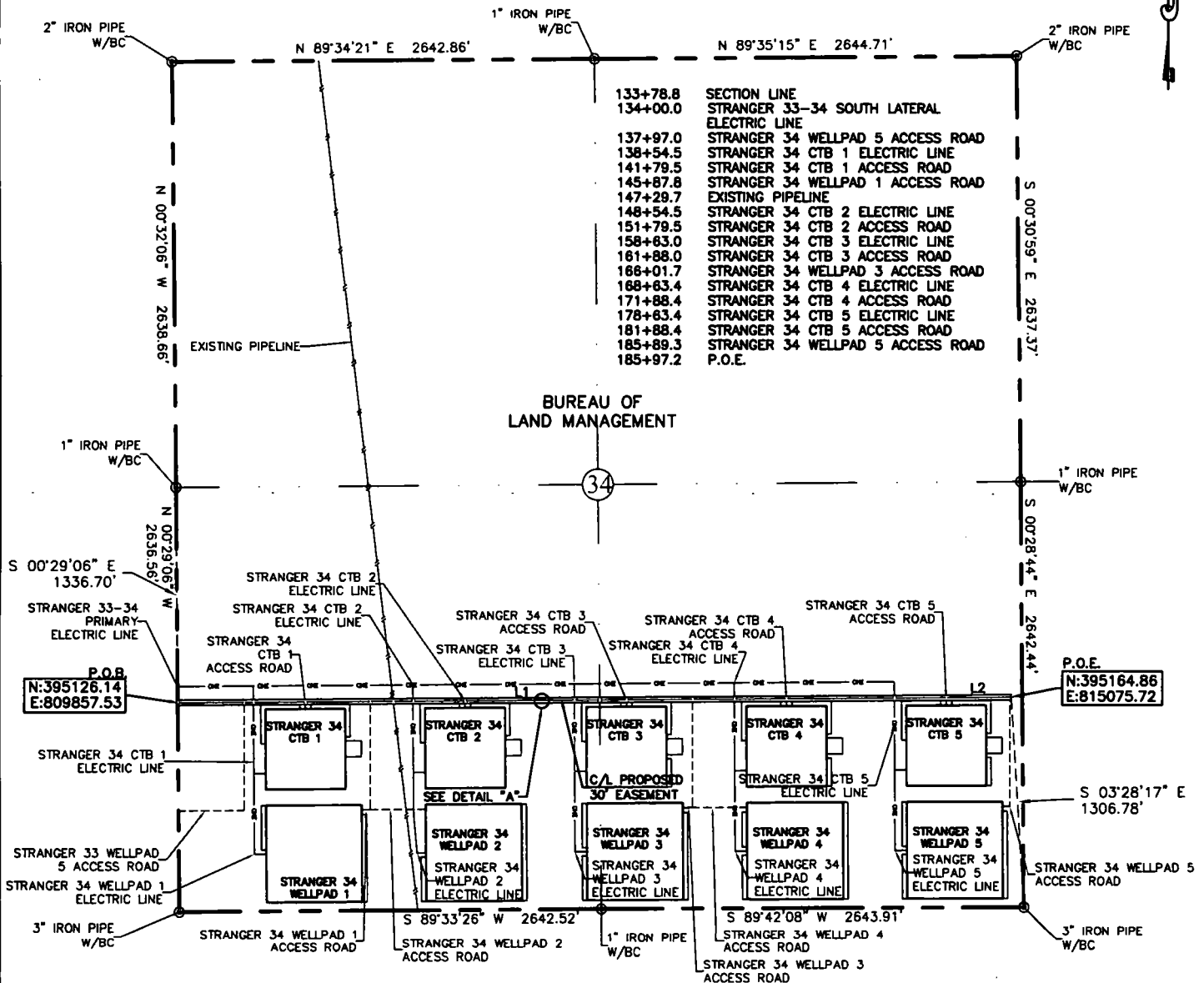
P.O. Box 548, Dry Creek, La.

(903) 388-3045 70637

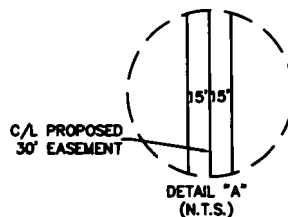
Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 3 of 6
ACCESS ROAD PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 3.59 ACRE(S)
5218.34 FEET OR 316.26 RODS



LINE	BEARING	DISTANCE
L1	N 89°35'16" E	4809.56'
L2	N 89°25'22" E	408.78'

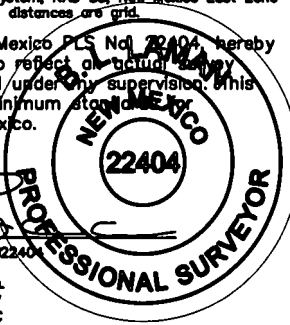
SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

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B.L. Laman

B.L. Laman
Date Signed: 11-08-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70837
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JEANNIE PERRY

Date: 06/16/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 33-34
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
7840142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 1000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
5/19/18

**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southwest quarter (SW ¼) and the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the west quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 00°29'06" E a distance of 1336.70' to the **Point of Beginning** of this easement having coordinates of Northing=395126.14, Easting=809857.53 feet in the west line of Section 34 and continuing the following course;

Thence N 89°35'16" E a distance of 4809.56' to an angle point;

Thence N 89°25'22" E a distance of 408.78' to the **Point of Ending** having coordinates of Northing=395164.86, Easting=815075.72 feet from said point a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E bears S 03°28'17" E a distance of 1306.78', covering **5218.34' or 316.26 rods** and having an area of **3.59 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


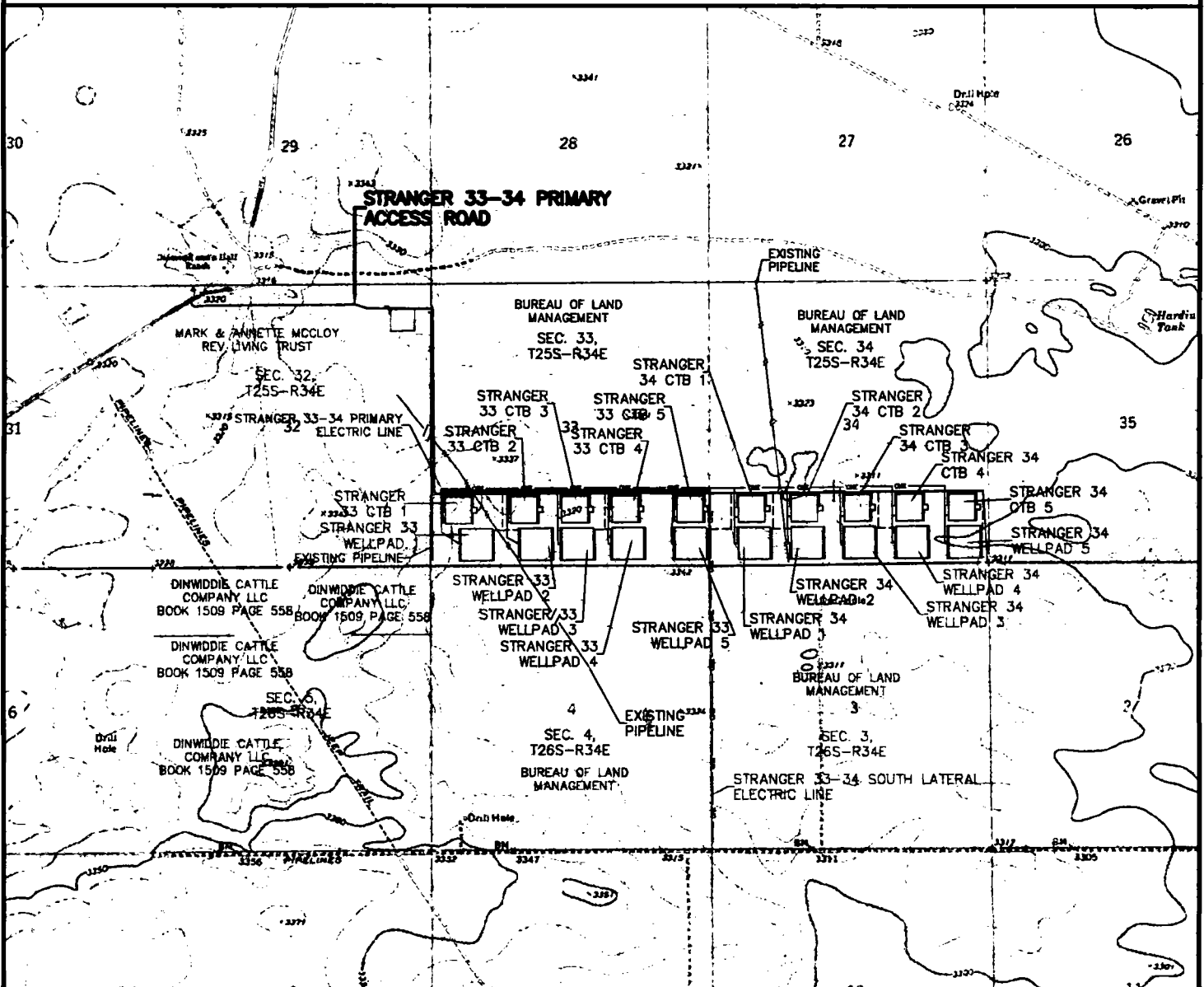

B.L. Laman PLS 22404
Date Signed: 11/08/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"

PAGE 5 of 6



QUAD MAP

SECTION 32, T25S-R34E, N.M.P.M.;
SECTION 33, T25S-R34E, N.M.P.M.;
SECTION 34, T25S-R34E, N.M.P.M
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

PROPOSED 30' EASEMENT

Drawn by:
JEANNIE PERRY

Date: 06/18/2018

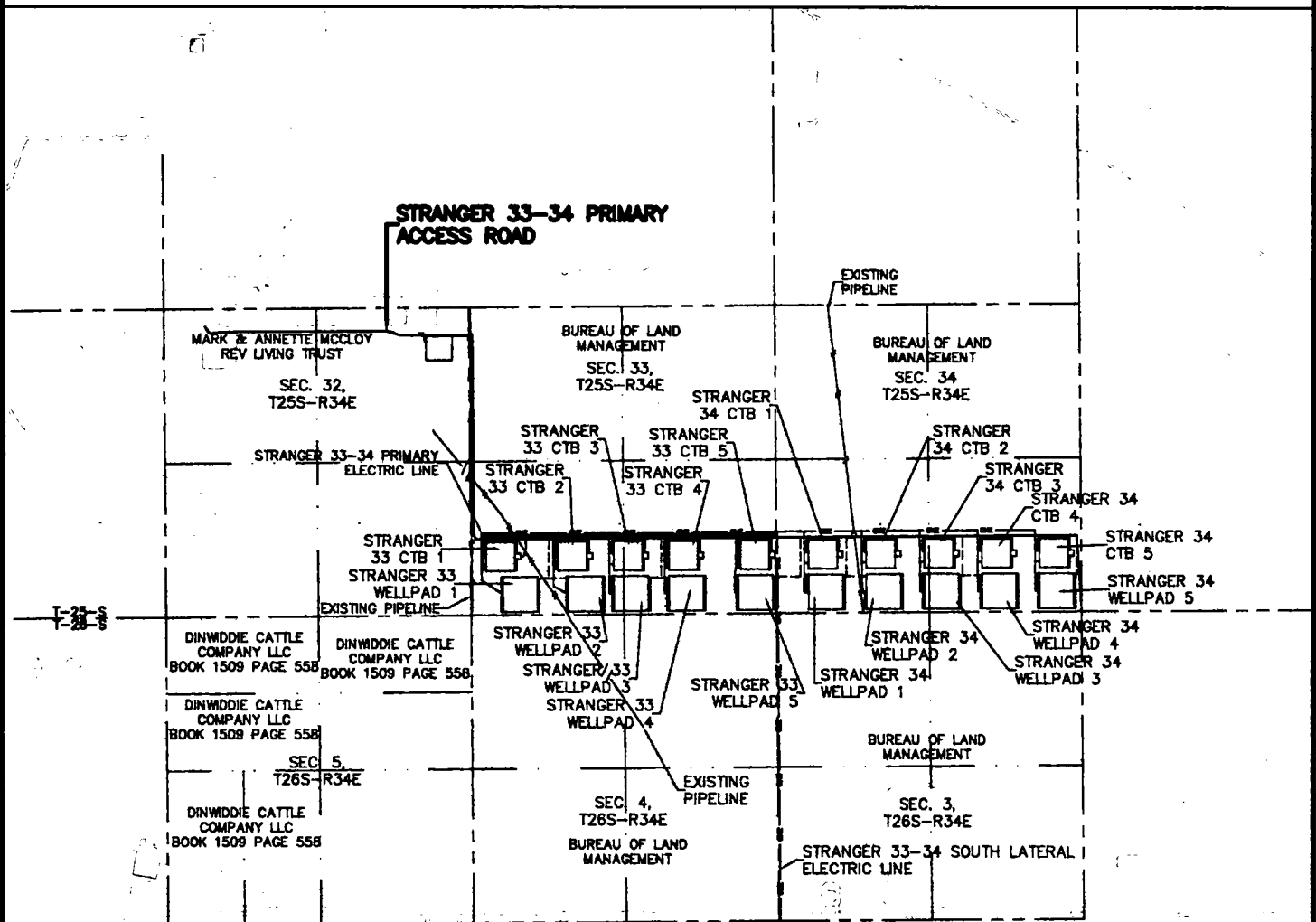
Drawn for:



LINE NUMBER:
7840142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 3000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
10/25/18

EXHIBIT "A"

PAGE 6 of 6



AERIAL MAP

SECTION 32, T25S-R34E, N.M.P.M.;
SECTION 33, T25S-R34E, N.M.P.M.;
SECTION 34, T25S-R34E, N.M.P.M
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

PROPOSED 30' EASEMENT

Drawn by:
JEANNIE PERRY

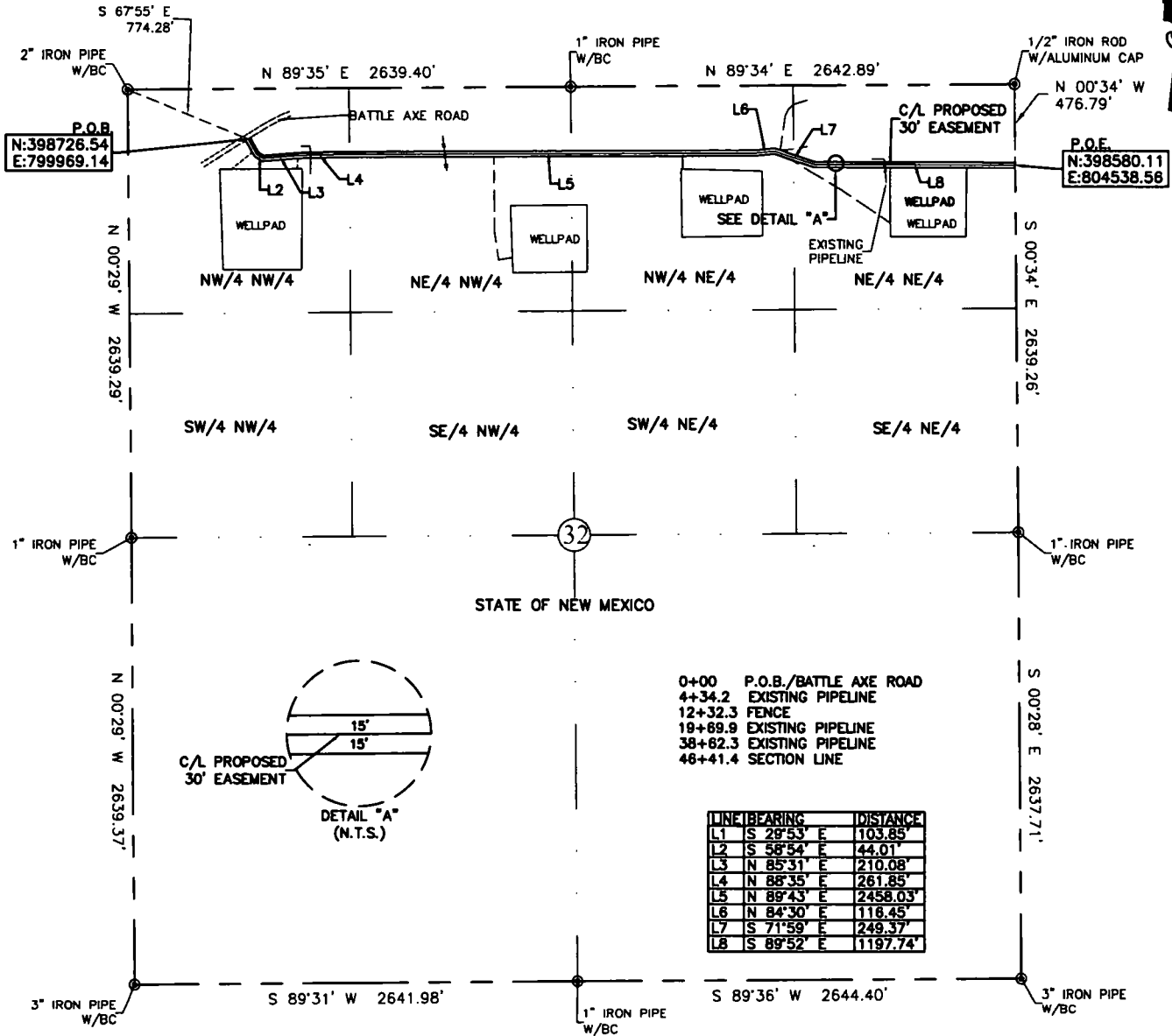
Date: 06/18/2018

Drawn for:

devon

LINE NUMBER:
7840142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 3000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
10/25/18

EXHIBIT "A"
PAGE 1 of 2
ACCESS ROAD PLAT
SECTION 32, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



0+00 P.O.B./BATTLE AXE ROAD
4+34.2 EXISTING PIPELINE
12+32.3 FENCE
19+69.8 EXISTING PIPELINE
38+62.3 EXISTING PIPELINE
48+41.4 SECTION LINE

LINE	BEARING	DISTANCE
L1	S 29°53' E	103.85'
L2	S 58°54' E	44.01'
L3	N 85°31' E	210.08'
L4	N 88°35' E	261.85'
L5	N 89°43' E	2458.03'
L6	N 84°30' E	118.45'
L7	S 71°59' E	249.37'
L8	S 89°52' E	1197.74'

QUARTER/QUARTER	30' EASEMENT AREA	FEET	RODS
NW 1/4 OF NW 1/4	0.48 ACRES	664.68	40.28
NE 1/4 OF NW 1/4	0.91 ACRES	1319.81	79.99
NW 1/4 OF NE 1/4	0.92 ACRES	1328.08	80.49
NE 1/4 OF NE 1/4	0.92 ACRES	1328.80	80.53
TOTALS:	3.21 ACRES	4641.37	281.29

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 11-08-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045
Employee of Horizonrow, LLC

HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JEANNIE PERRY

Date: 06/16/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 33-34
PRIMARY ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
STATE OF NEW MEXICO
SECTION 32, T25S-R34E, N.M.P.M.

LINE NUMBER:
7640142R
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 1000'
REVISIONS:
10/29/18 CMAAS
DATE OF SURVEY:
10/25/18

0 1000 2000

**SECTION 32, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

STATE OF NEW MEXICO

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northwest quarter of the northeast quarter (NW $\frac{1}{4}$ NE $\frac{1}{4}$) and the northeast quarter of the northeast quarter (NE $\frac{1}{4}$ NE $\frac{1}{4}$) of Section 32, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the State of New Mexico. Said centerline of easement being more particularly described as follows:

Commencing from a 2" iron pipe w/BC for the northwest corner of Section 32, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 67°55' E a distance of 774.28' to the **Point of Beginning** of this easement having coordinates of Northing=398726.54, Easting=799969.14 feet and continuing the following courses;

Thence S 29°53' E a distance of 103.85' to an angle point;

Thence S 58°54' E a distance of 44.01' to an angle point;

Thence N 85°31' E a distance of 210.08' to an angle point;

Thence N 88°35' E a distance of 261.85' to an angle point;

Thence N 89°43' E a distance of 2458.03' to an angle point;

Thence N 84°30' E a distance of 116.45' to an angle point;


Thence S 71°59' E a distance of 249.37' to an angle point;

Thence S 89°52' E a distance of 1197.74' to the **Point of Ending** having coordinates of Northing=398580.11, Easting=804538.56 feet in the east line, from said point a 0.5" iron rod w/aluminum cap found for the northeast corner of Section 32, T25S-R34E bears N 00°34' W a distance of 476.79', covering **4641.37' or 281.29 rods** and having an area of **3.21 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


B.L. Laman PLS 22404
Date Signed: 11/08/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



PLAT
One Mile Radius Map



This map is for illustrative purposes only and is neither a legally recorded map nor a survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

USA Contiguous Equidistant Conic
Datum: North American 1983
Created by: FME Server
Map is current as of 9/26/2018



0 0.255 1 inch = 0.33 miles

STRANGER 34 FED COM 012H
WA017292017

RUBY 2 STATE COM 601Y

Nearest wellbore to SHL:

931 ft.

○ Unknown SHL

● Active SHL

○ Inactive SHL

× BHL

PITCHBLEND '27' FEDERAL 1H

Nearest wellbore to BHL:

4019 ft.

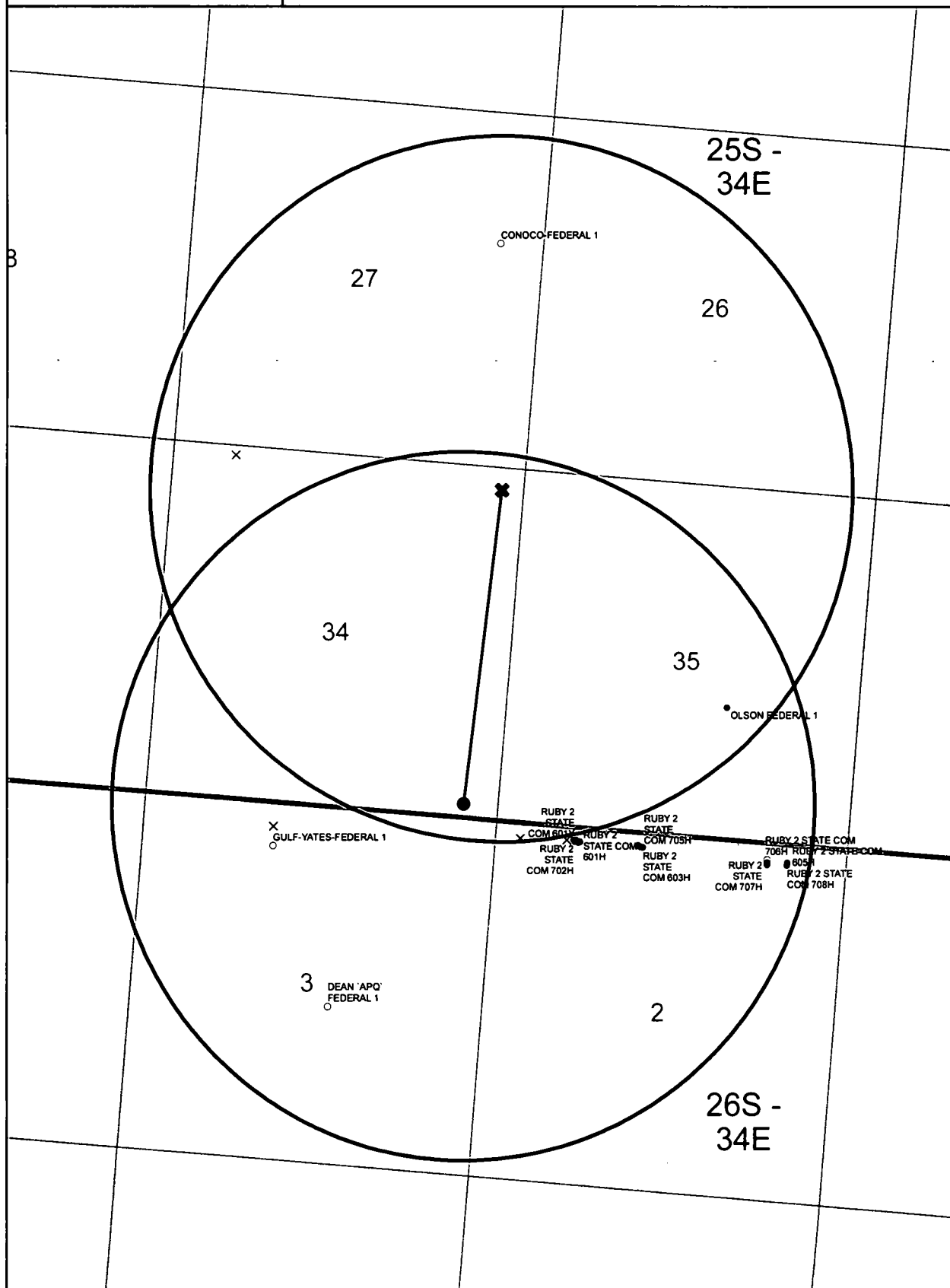
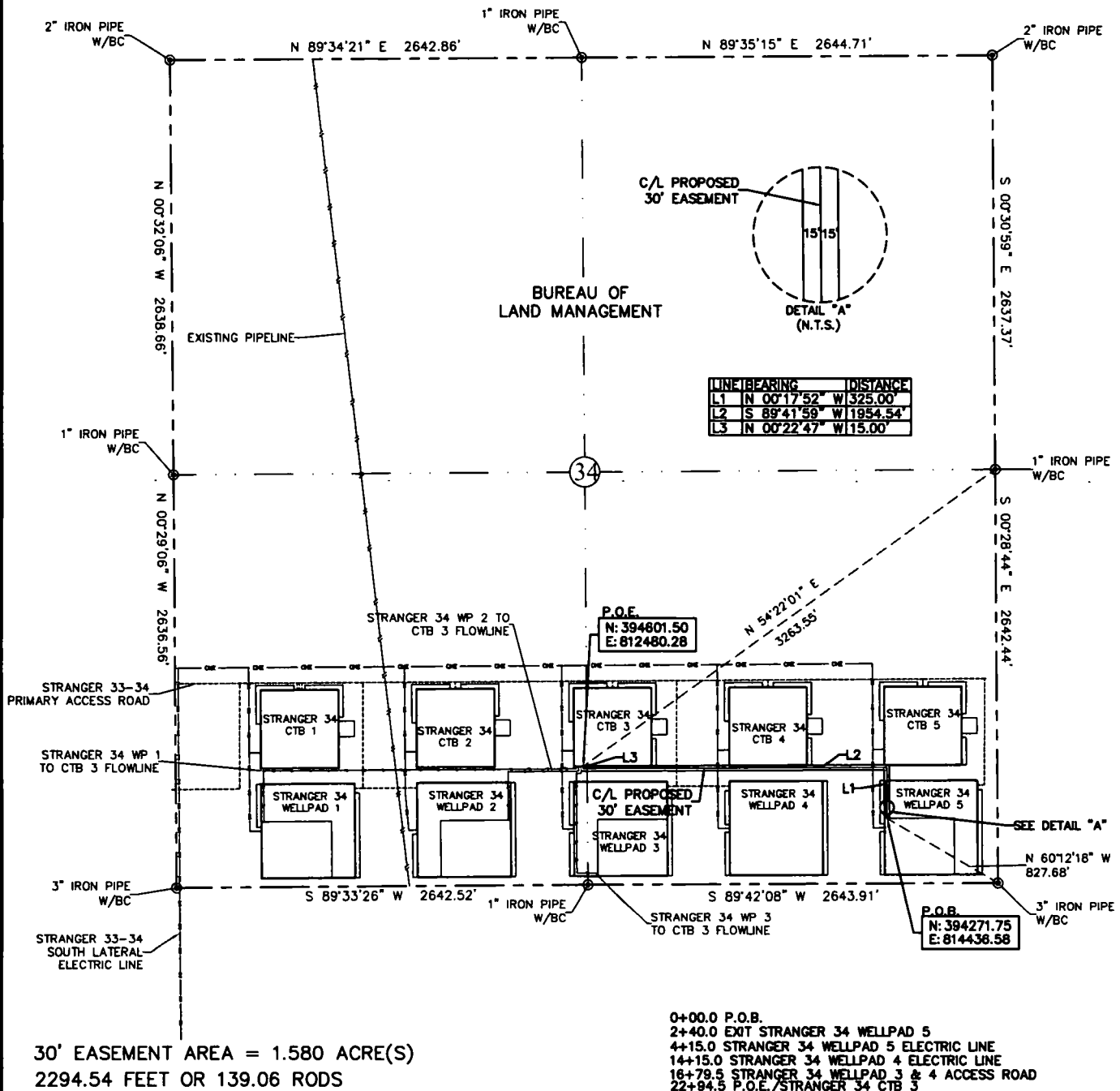


EXHIBIT "A"
PAGE 1 of 4
8" COMPOSITE PIPE
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
CHRIS MAAS

Date: 11/11/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 34 WELLPAD 5 TO
CTB 3 FLOWLINE

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
7840141F
WBS NUMBER:
CC-130004.01.SLC
SCALE:
1" = 1000'
REVISIONS:
DATE OF SURVEY:
11/10/2018

**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southwest quarter (SW ¼) and the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence N 60°12'18" W a distance of 827.68' to the **Point of Beginning** of this easement having coordinates of Northing=394271.75, Easting=814436.58 feet and continuing the following courses;

Thence N 00°17'52" W a distance of 325.00' to an angle point;

Thence S 89°41'59" W a distance of 1954.54' to an angle point;

Thence N 00°22'47" W a distance of 15.00' to the **Point of Ending** having coordinates of Northing=394601.50, Easting=812480.28 feet, from said point a 1" iron pipe w/BC for the east quarter corner of Section 34, T25S-R34E bears N 54°22'01" E a distance of 3263.55', covering **2294.54' or 139.06 rods** and having an area of **1.580 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404

Date Signed: 11/13/2018

Horizon Row, LLC

P.O. Box 548, Dry Creek, La.

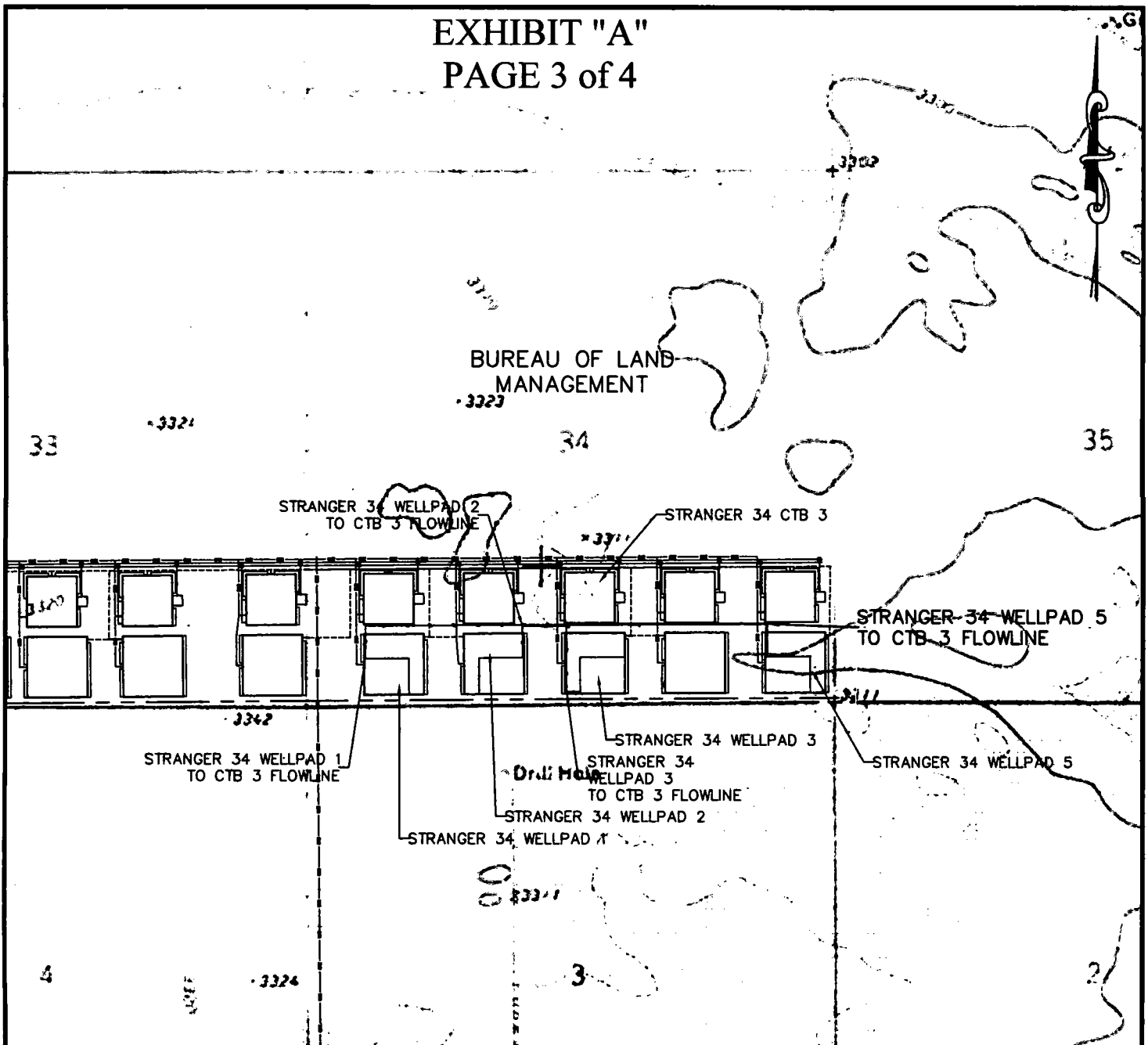
(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"

PAGE 3 of 4



QUAD MAP

SECTION 34, T25S-R34E, N.M.P.M.;
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
CHRIS MAAS

Date: 11/11/2018

Drawn for:



LINE NUMBER:
7640141F

WBS NUMBER:
CC-130004.01.SLC

SCALE:
1" = 1500'

REVISIONS:

DATE OF SURVEY:
11/10/18

EXHIBIT "A"
PAGE 4 of 4



BUREAU OF LAND
MANAGEMENT

SEC. 33, T25S-R34E

BUREAU OF LAND
MANAGEMENT

SEC. 34, T25S-R34E

STRANGER 34 WELLPAD 5
TO CTB 3 FLOWLINE

AERIAL MAP

SECTION 34, T25S-R34E, N.M.P.M.;
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
CHRIS MAAS

Date: 11/11/2018

Drawn for:



LINE NUMBER:
7840141F

WBS NUMBER:
CC-130004.01.SLC

SCALE:
1" = 1500'

REVISIONS:

DATE OF SURVEY:
11/10/18

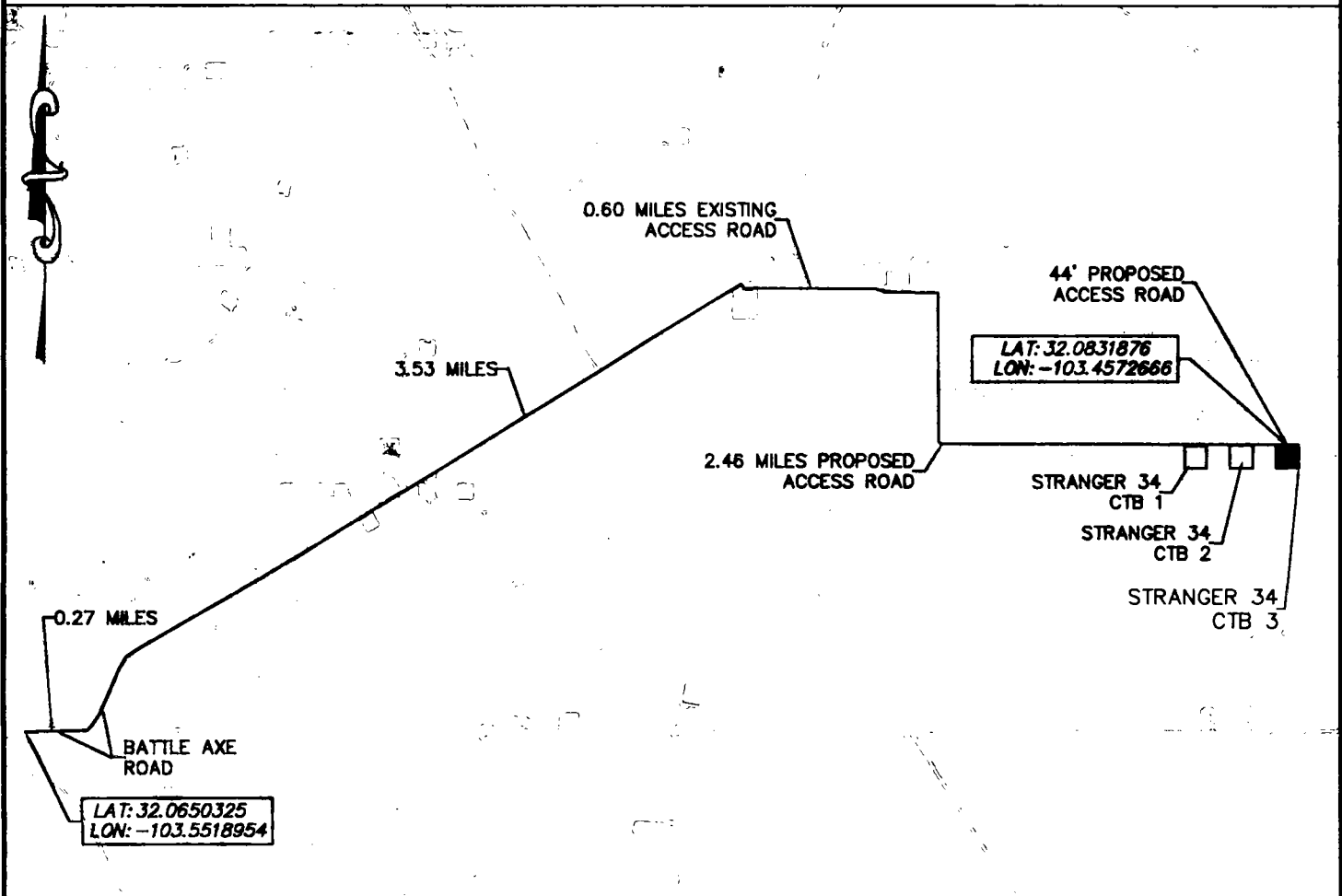
SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO
SHEET 1 OF 6

**48' PROPOSED
ACCESS ROAD**



DATE SURVEY:
05-19-18

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



DIRECTIONS TO LOCATION

NOT TO SCALE

FROM THE INTERSECTION OF DINWIDDIE RD. AND J-2 BATTLE AXE ROAD, HEAD EAST ON BATTLE AXE ROAD FOR 0.27 MILES AND THEN CONTINUE NORTH ON BATTLE AXE ROAD FOR 3.53 MILES. TURN RIGHT ONTO AN ACCESS ROAD AND TRAVEL 0.60 MILES TO THE POINT OF BEGINNING OF THE STAKED STRANGER 33-34 PRIMARY ACCESS ROAD. FOLLOW THE STAKED ACCESS ROAD SOUTHEAST FOR 2.46 MILES TO THE POINT OF BEGINNING OF THE STRANGER 34 CTB 3 ACCESS ROAD. HEAD SOUTH FOR 44 FEET TO THE NORTH CENTER POINT OF THE PROPOSED STRANGER 34 CTB 3.

SHEET 2 OF 6

HORIZON ROW LLC

Drawn for:

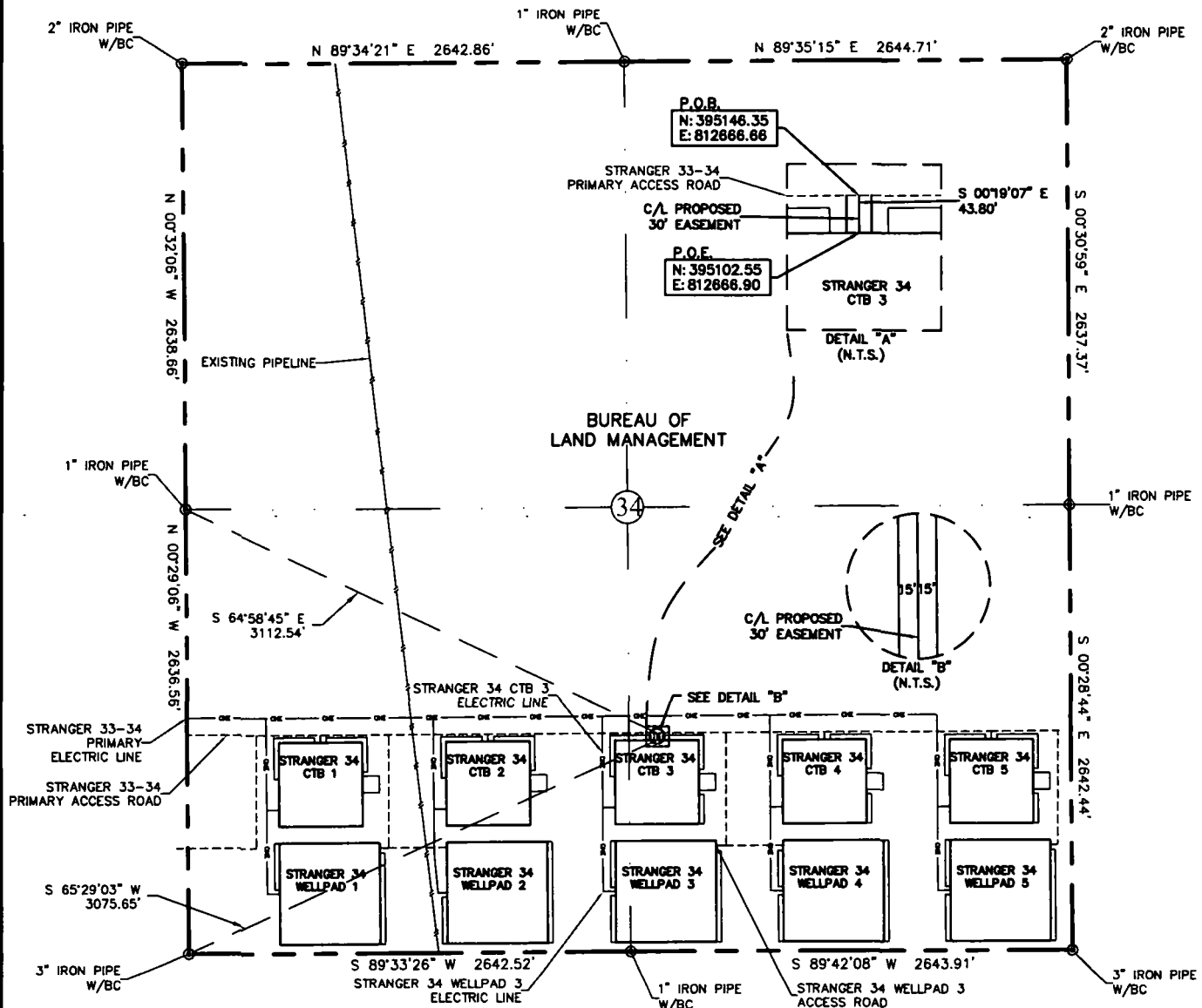
DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 06/20/2018

devon

EXHIBIT "A"
PAGE 3 of 6
ACCESS ROAD PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.030 ACRE(S)
43.80 FEET OR 2.65 RODS

0+00.0 P.O.B./STRANGER 33-34 PRIMARY ACCESS ROAD
0+43.8 P.O.E./STRANGER 34 CTB 3

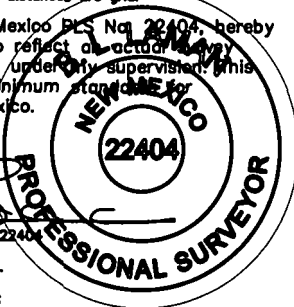
SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman

B.L. Laman
Date Signed: 08-23-2018
P.O. Box 548, Dry Creek, La.
(903) 368-3045 70637
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
KYLE BAKER

Date: 06/18/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 34
CTB 3 ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
7840180R

WBS NUMBER:

SCALE:
1" = 1000'

REVISIONS:

DATE OF SURVEY:
5/19/18

0 1000 2000



**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ACCESS ROAD PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the west quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

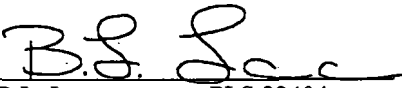
Thence S 64°58'45" E a distance of 3112.54' to the **Point of Beginning** of this easement having coordinates of Northing=395146.35, Easting=812666.66 feet and continuing the following course;

Thence S 00°19'07" E a distance of 43.80' to the **Point of Ending** having coordinates of Northing=395102.55, Easting=812666.90 feet from said point a 3" iron pipe w/BC for the southwest corner of Section 34, T25S-R34E bears S 65°29'03" W a distance of 3075.65', covering **43.80' or 2.65 rods** and having an area of **0.030 acres**.

NOTES:

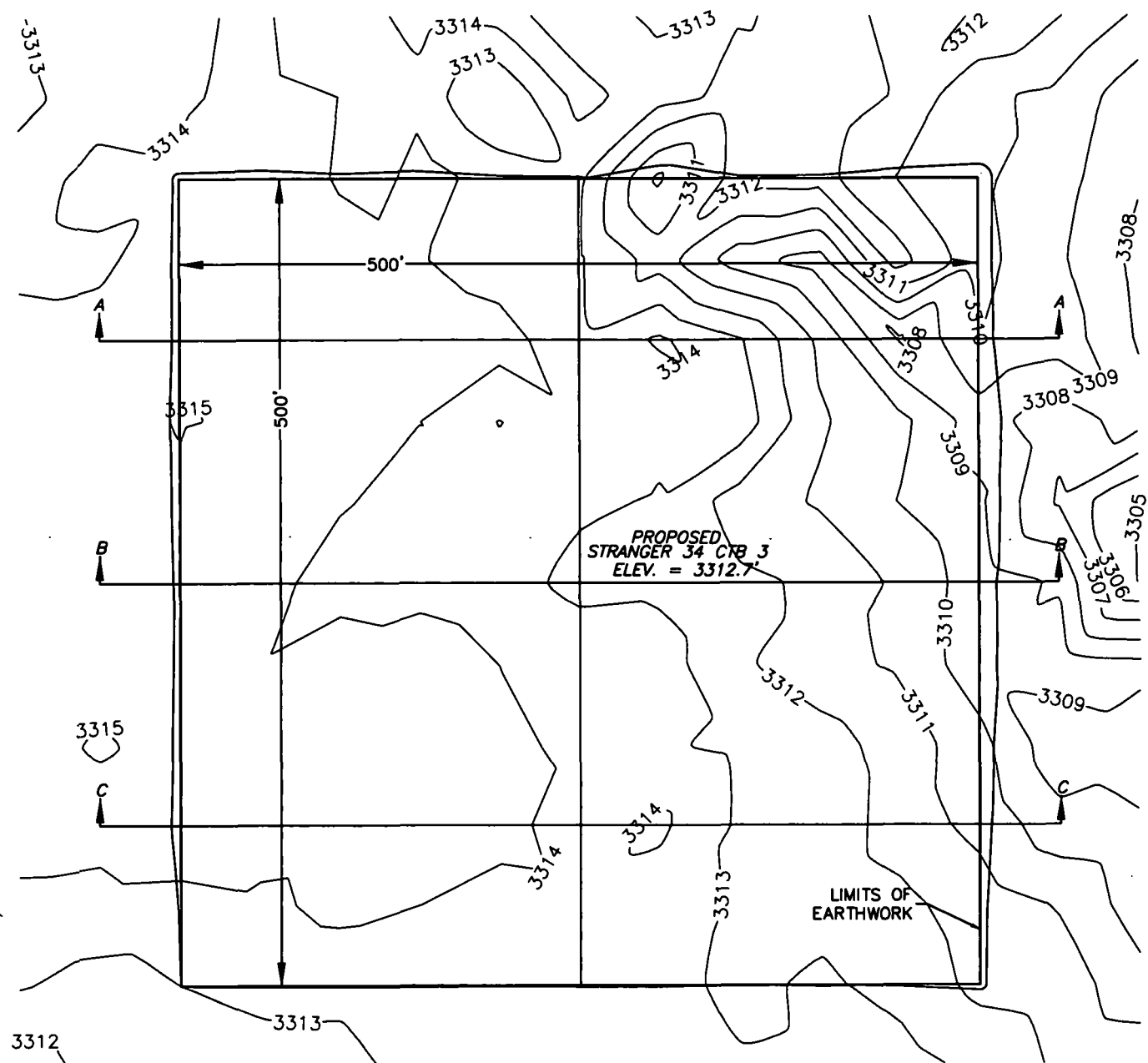
Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


B.L. Laman PLS 22404
Date Signed: 08/23/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
PLAN VIEW



0 100 200



SHEET 5 OF 6

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 06/20/2018

Drawn for:

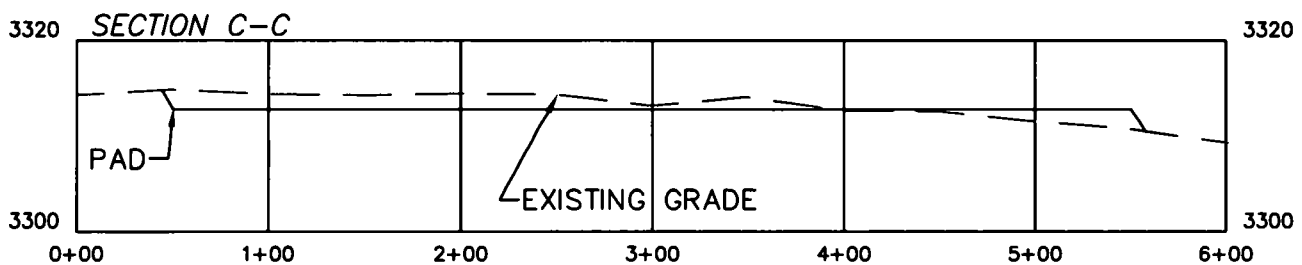
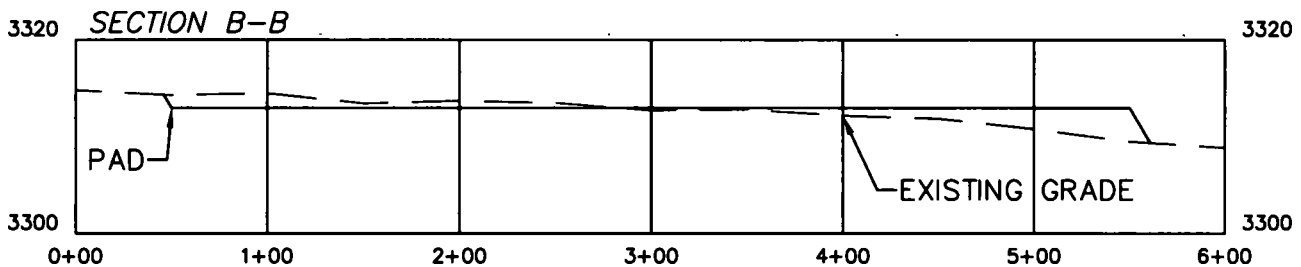
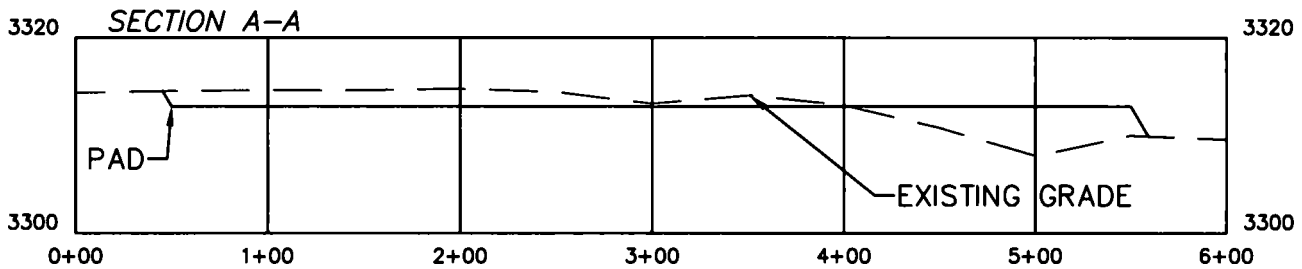


EARTHWORK QUANTITIES FOR
STRANGER 34 CTB 3

CUT	FILL	NET
5774 CY	5774 CY	0 CY

EARTHWORK QUANTITIES ARE ESTIMATED

SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
CROSS SECTIONS



EARTHWORK QUANTITIES FOR
STRANGER 34 CTB 3

CUT	FILL	NET
5774 CY	5774 CY	0 CY

EARTHWORK QUANTITIES ARE ESTIMATED

SHEET 6 OF 6

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

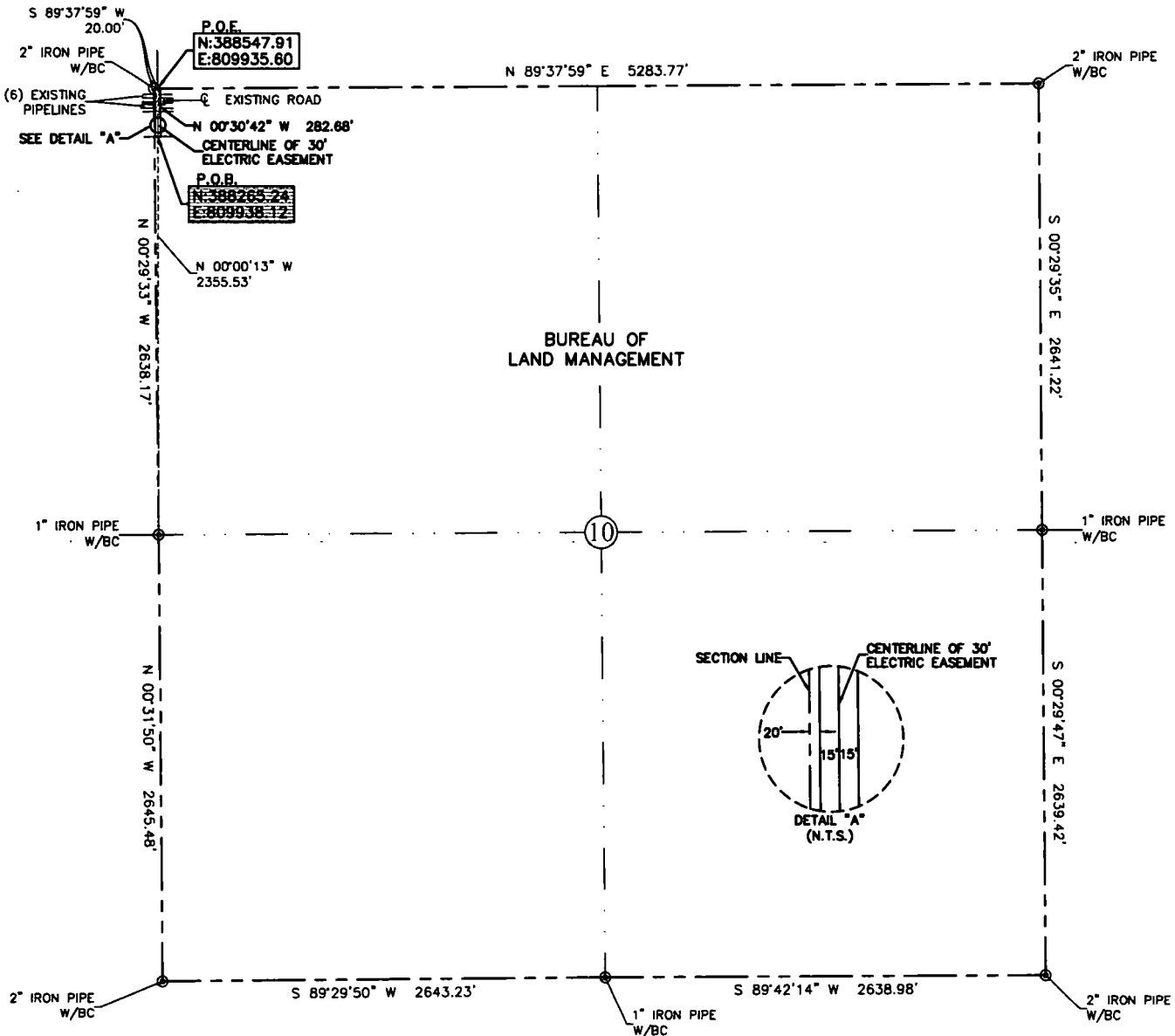
Date: 06/20/2018

SCALE 1" = 100' HORIZONTAL
SCALE 1" = 20' VERTICAL

Drawn for:



EXHIBIT "A"
PAGE 1 of 8
ELECTRIC LINE EASEMENT PLAT
SECTION 10, T26S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.195 ACRE(S)
282.68 FEET OR 17.13 RODS

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

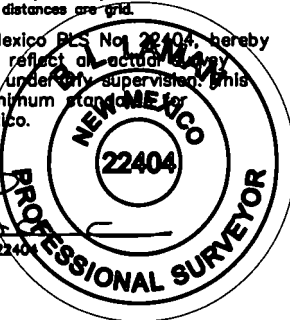
2+82.7 E-W SECTION LINE
2+47.7 EXISTING PIPELINE
2+27.7 EXISTING PIPELINE
2+24.0 EDGE OF ROAD
2+11.4 C. ROAD
2+00.9 EDGE OF ROAD
1+96.5 EXISTING FLOWLINE
1+86.5 EXISTING PIPELINE
1+85.4 EXISTING PIPELINE
1+47.4 EXISTING PIPELINE
0+00.0 P.O.B./EXISTING POWERLINE

0 1000 2000



B.L. Laman

B.L. Laman
Date Signed: 09-22-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70837
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JESUS RIVERO

Date: 06/20/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.
STRANGER 33-34 SOUTH LATERAL
ELECTRIC LINE

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 10, T26S-R34E, N.M.P.M.

LINE NUMBER:
EL8257
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 1000'
REVISIONS:
SHEET:
1 OF 8

**SECTION 10, T26S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northwest quarter (NW ¼) of Section 10, Township 26 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the west quarter corner of Section 10, T26S-R34E, N.M.P.M., Lea County, New Mexico;

Thence N 00°00'13" W a distance of 2355.53' to the **Point of Beginning** of this easement having coordinates of Northing=388265.24 Easting=809938.12 feet and continuing the following courses;

Thence N 00°30'42" W a distance of 282.68' to the **Point of Ending** having coordinates of Northing=388547.91, Easting=809935.60 feet, from said point a 2" iron pipe w/BC for the northwest corner of Section 10, T26S-R34E bears S 89°37'59" W a distance of 20.00', covering **282.68' or 17.13 rods** and having an area of **0.195 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404

Date Signed: 09/22/2018

Horizon Row, LLC

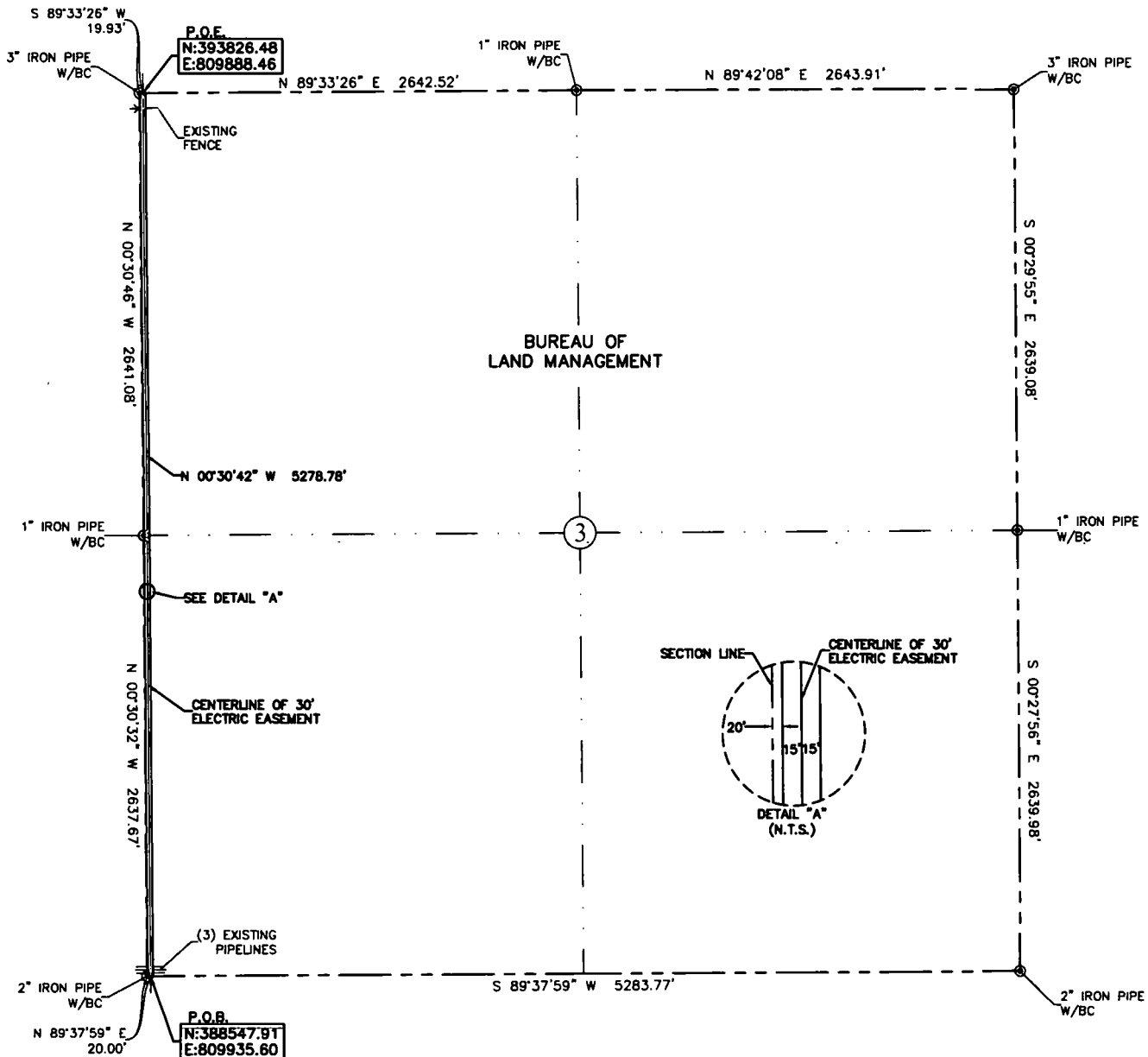
P.O. Box 548, Dry Creek, La.

(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 3 of 8
ELECTRIC LINE EASEMENT PLAT
SECTION 3, T26S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 3.636 ACRE(S)
5278.78 FEET OR 319.93 RODS

55+61.5 E-W SECTION LINE
54+69.8 EXISTING FENCE
3+37.2 EXISTING PIPELINE
3+18.6 EXISTING FLOWLINE
3+00.8 EXISTING PIPELINE
2+82.7 E-W SECTION LINE

SEE THE ATTACHED LEGAL DESCRIPTION

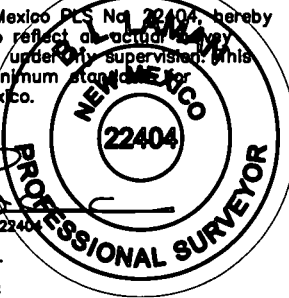
Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

0 1000 2000



B.L. Laman
Date Signed: 09-22-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70837
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JESUS RIVERO

Date: 06/20/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 33-34 SOUTH LATERAL
ELECTRIC LINE

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 3, T26S-R34E, N.M.P.M.

LINE NUMBER:
EL8257
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 1000'
REVISIONS:
SHEET:
3 OF 8

**SECTION 3, T26S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the west half (W ½) of Section 3, Township 26 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 2" iron pipe w/BC for the southwest corner of Section 3, T26S-R34E, N.M.P.M., Lea County, New Mexico;


Thence N 89°37'59" E a distance of 20.00' to the **Point of Beginning** of this easement having coordinates of Northing=388547.91, Easting=809935.60 feet and continuing the following courses;

Thence N 00°30'42" W a distance of 5278.78' to the **Point of Ending** having coordinates of Northing=393826.48, Easting=809888.46 feet, from said point a 3" iron pipe w/BC for the northwest corner of Section 3, T26S-R34E bears S 89°33'26" W a distance of 19.93', covering **5278.78' or 319.93 rods** and having an area of **3.636 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404

Date Signed: 09/22/2018

Horizon Row, LLC

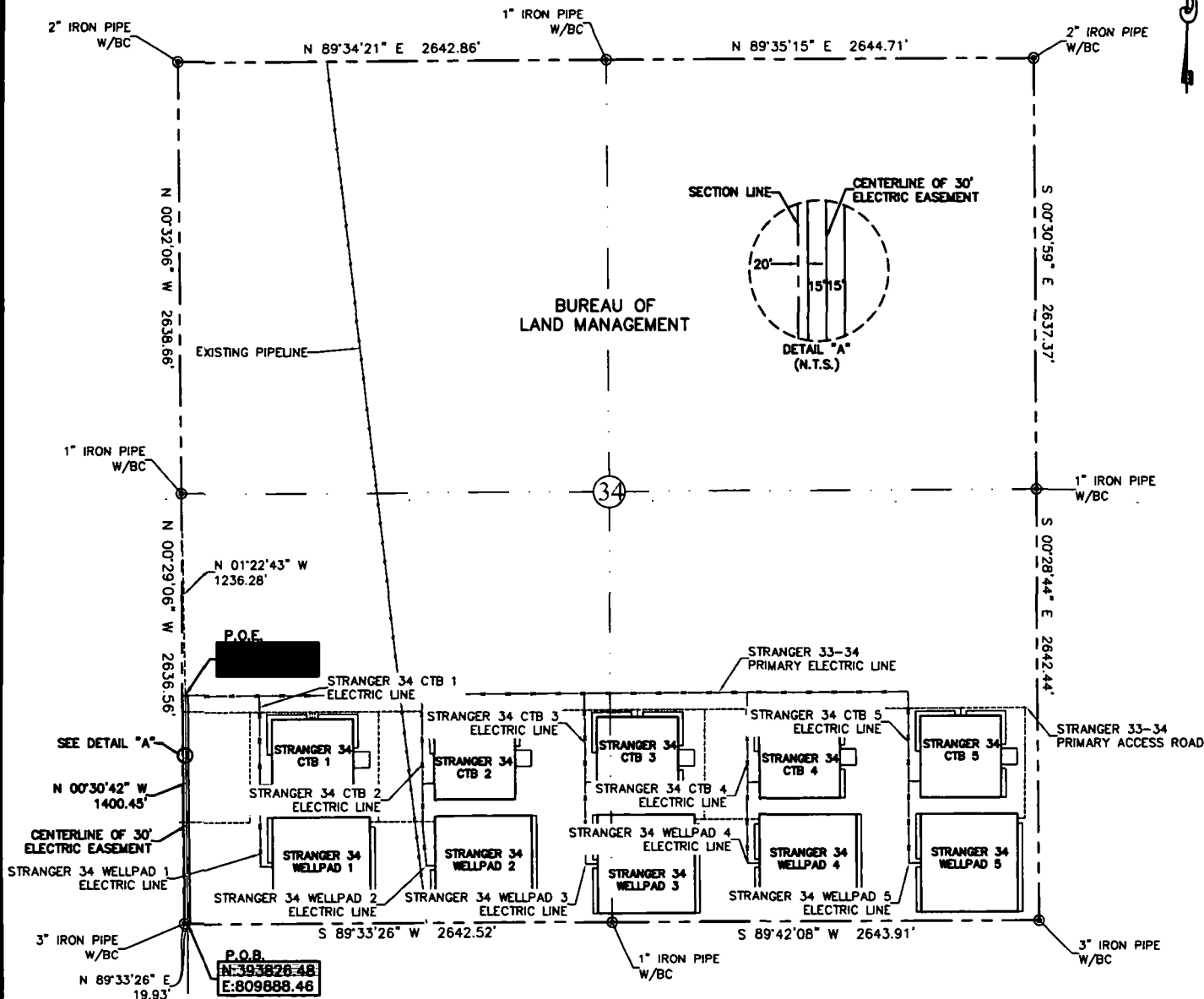
P.O. Box 548, Dry Creek, La.

(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 5 of 8
ELECTRIC LINE EASEMENT PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.964 ACRE(S)
1400.45 FEET OR 84.88 RODS

69+61.9 P.O.E./STRANGER 33-34 PRIMARY ELECTRIC LINE
55+61.5 E-W SECTION LINE

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect as actually made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

B.L. Laman
Date Signed: 08-22-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizonrow, LLC

HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JESUS RIVERO

Date: 08/20/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 33-34 SOUTH LATERAL
ELECTRIC LINE

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
EL8257

WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 1000'

REVISIONS:

SHEET:
5 OF 8

0 1000 2000

**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southwest (SW $\frac{1}{4}$) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 3" iron pipe w/BC for the southwest corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence N 89°33'26" E a distance of 19.93' to the **Point of Beginning** of this easement having coordinates of Northing=393826.48, Easting=809888.46 feet and continuing the following courses;

Thence N 00°30'42" W a distance of 1400.45' to the **Point of Ending** having coordinates of Northing=395226.87, Easting=809875.96 feet, from said point a 1" iron pipe w/BC for the west quarter corner of Section 34, T25S-R34E bears N 01°22'43" W a distance of 1236.28', covering **1400.45' or 84.88 rods** and having an area of **0.964 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404

Date Signed: 09/22/2018

Horizon Row, LLC

P.O. Box 548, Dry Creek, La.

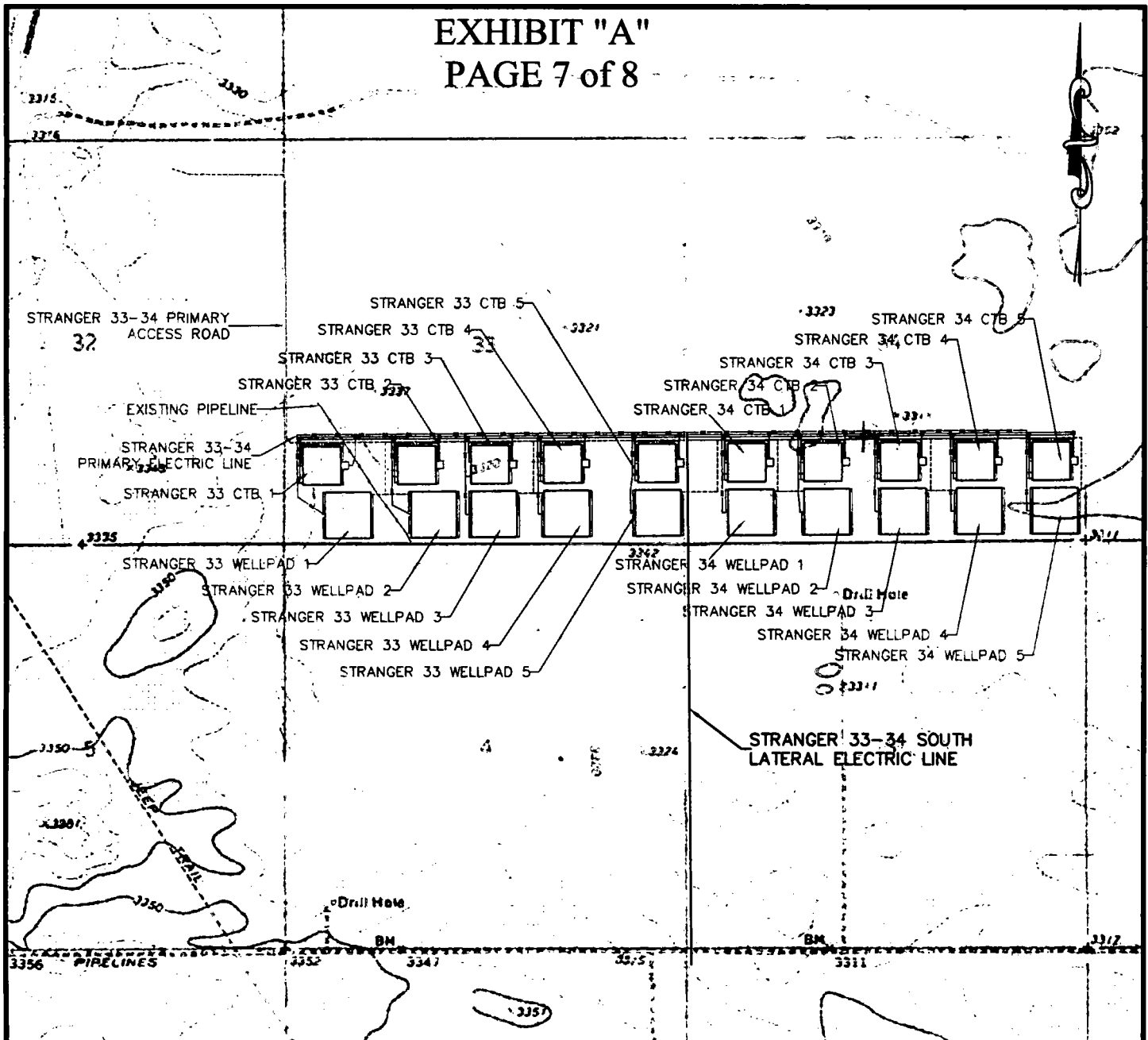
(903) 388-3045 70637

Employee of Horizon Row, LLC



EXHIBIT "A"

PAGE 7 of 8



QUAD MAP

SECTION 34, T25S-R34E, N.M.P.M.;
SECTION 3, T26S-R34E, N.M.P.M.;
SECTION 10, T26S-R34E, N.M.P.M.;

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
JESUS RIVERO

Date: 06/20/2018

Drawn for:



LINE NUMBER:
EL8257

WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 2000'

REVISIONS:

SHEET:
7 OF 8

EXHIBIT "A"
PAGE 8 of 8



STRANGER 33-34 SOUTH
LATERAL ELECTRIC LINE

AERIAL MAP

SECTION 34, T25S-R34E, N.M.P.M.;
SECTION 3, T26S-R34E, N.M.P.M.;
SECTION 10, T26S-R34E, N.M.P.M.;

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
JESUS RIVERO

Date: 06/20/2018

Drawn for:



LINE NUMBER:
EL8257

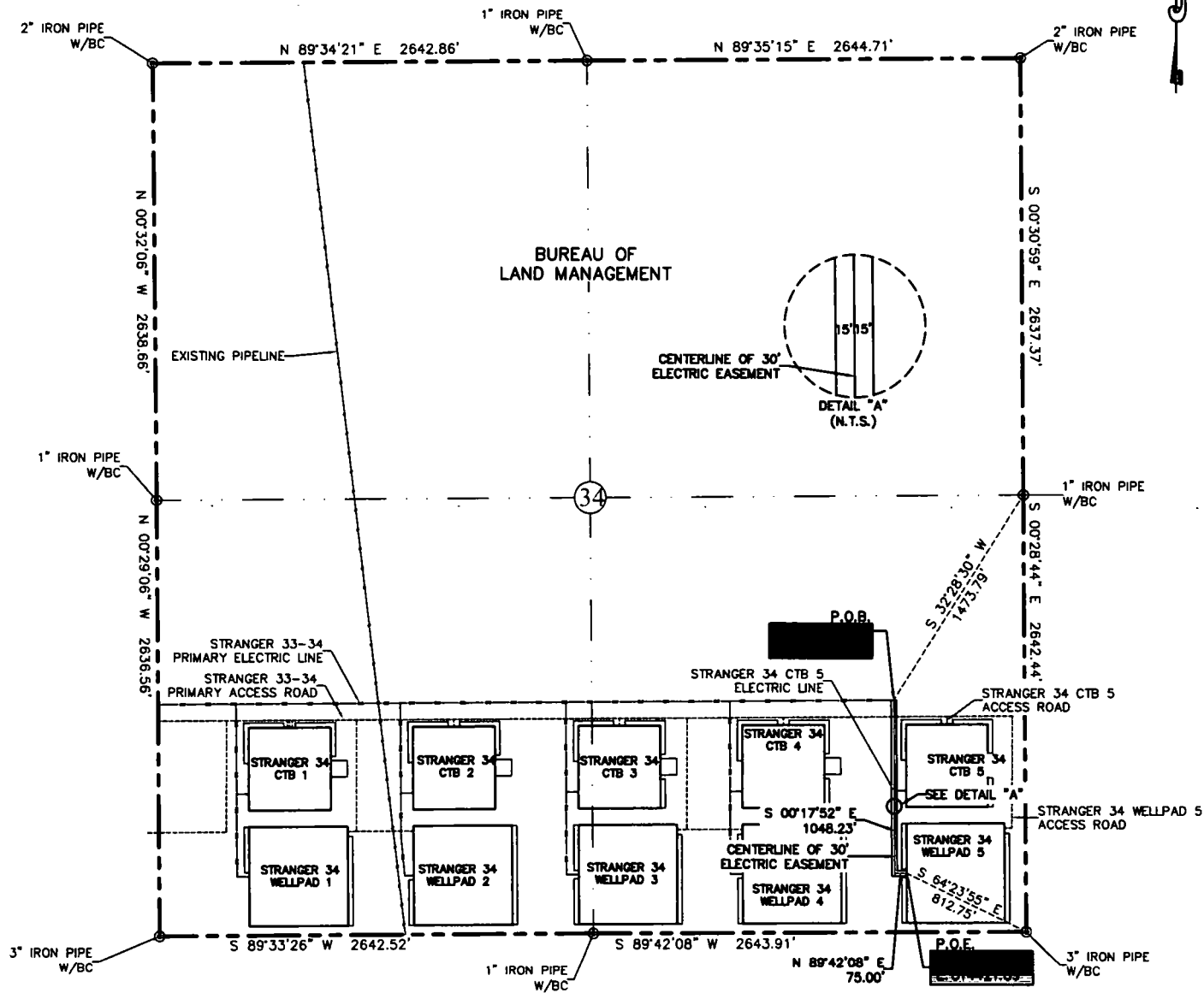
WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 2000'

REVISIONS:

SHEET:
8 OF 8

EXHIBIT "A"
PAGE 1 of 4
ELECTRIC LINE EASEMENT PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.774 ACRE(S)
1123.23 FEET OR 68.07 RODS

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

0+00.0 P.O.B./STRANGER 33-34 PRIMARY ELECTRIC LINE
0+30.0 STRANGER 33-34 LATERAL CRUDE
0+60.0 STRANGER 33-34 LATERAL GAS AND WATER
1+01.1 STRANGER 33-34 PRIMARY ACCESS ROAD
5+48.9 STRANGER 34 CTB 5 ELECTRIC LINE
11+21.1 P.O.E./STRANGER 34 WELLPAD 5

0 1000 2000

B.L. Laman
Date Signed: 11-01-2018
P.O. Box 548, Dry Creek, La.
(803) 388-3045 70837
Employee of Horizonrow, LLC

HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JESUS RIVERO

Date: 06/14/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 34 WELLPAD 5
ELECTRIC LINE

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
ELB224

WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 1000'

REVISIONS:
SLONDON 10/21/18
DATE OF SURVEY:
6/5/18

**SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO**

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter (SE ¼) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the east quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 32°28'30" W a distance of 1473.79' to the **Point of Beginning** of this easement having coordinates of Northing=395259.50 Easting=814341.45 feet and continuing the following courses;

Thence S 00°17'52" E a distance of 1048.23' to an angle point;

Thence N 89°42'08" E a distance of 75.00' to the **Point of Ending** having coordinates of Northing=394211.68, Easting=814421.89 feet, from said point a 3" iron pipe w/BC for the southeast corner of Section 34, T25S-R34E bears S 64°23'55" E a distance of 812.75', covering **1123.23' or 68.07 rods** and having an area of **0.774 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS 22404
Date Signed: 11/01/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"

PAGE 3 of 4

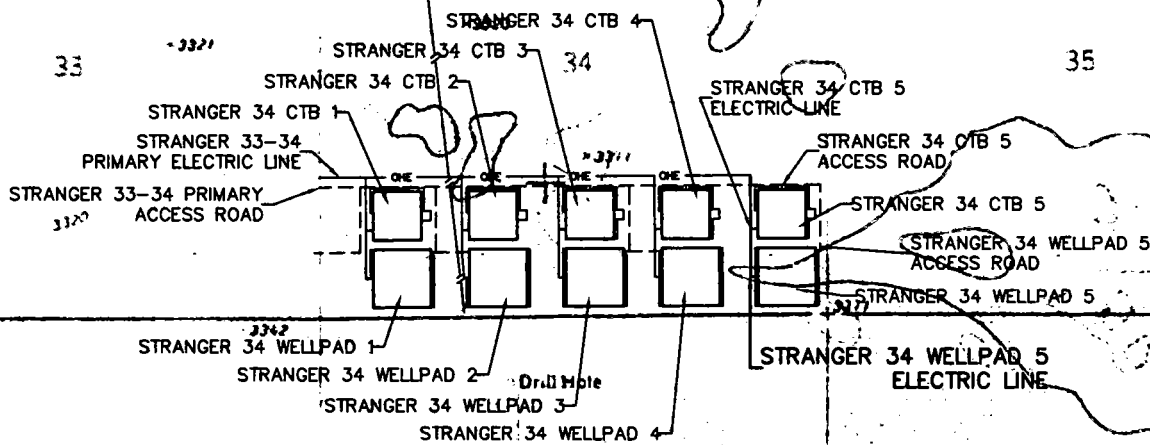
28

3321

25

Gravel Pit

Hardin Tank



QUAD MAP

SECTION 34, T25S-R34E, N.M.P.M.;
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
JESUS RIVERO

Date: 06/18/2018

Drawn for:



LINE NUMBER:
EL8224

WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 2000'

REVISIONS:
SLONDON 10/21/18

DATE OF SURVEY:
6/5/18

EXHIBIT "A"
PAGE 4 of 4



STRANGER 34 WELLPAD 5
ELECTRIC LINE

AERIAL MAP

SECTION 34, T25S-R34E, N.M.P.M.;
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
JESUS RIVERO

Date: 06/18/2018

Drawn for:



LINE NUMBER:
EL8224

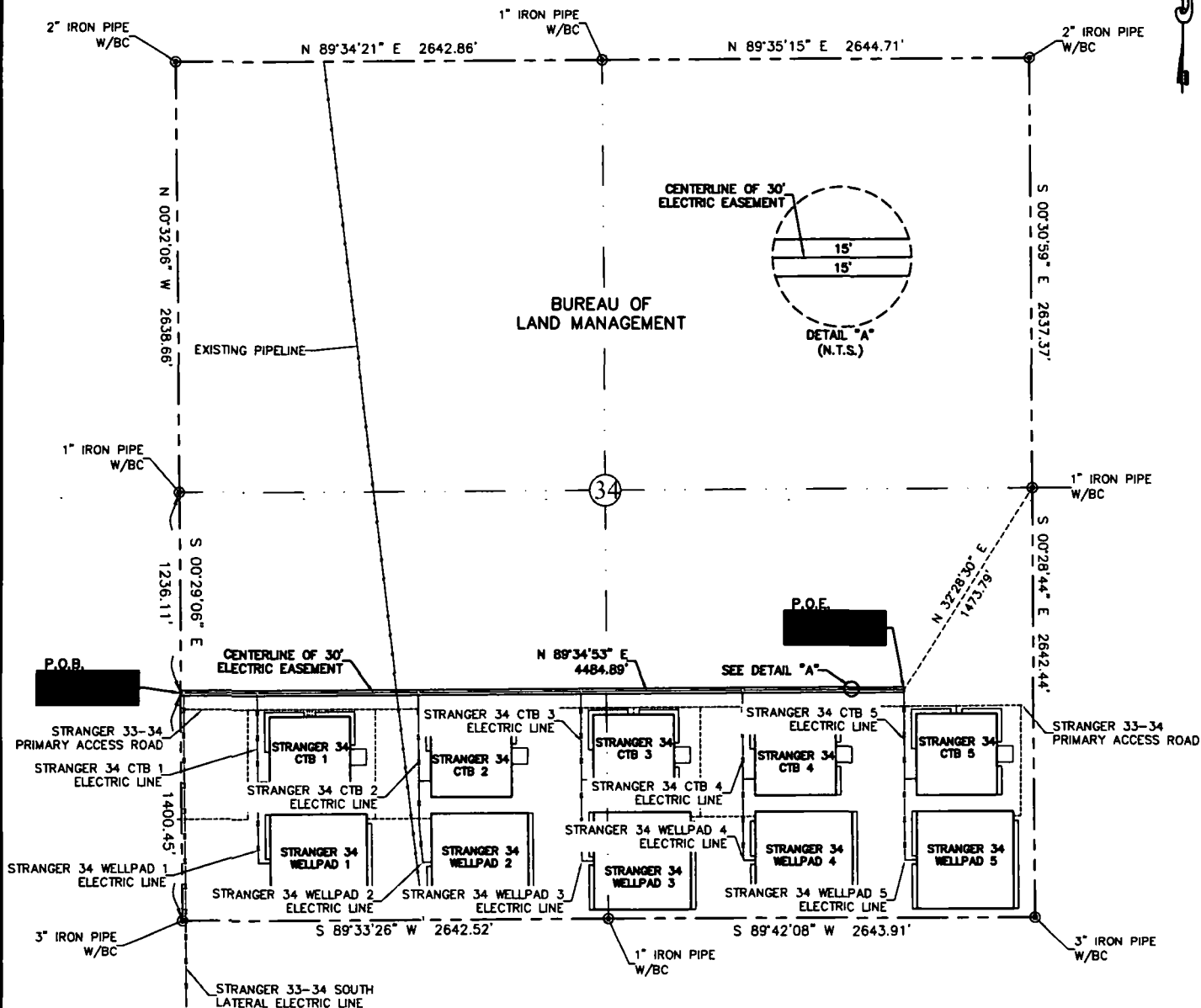
WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 2000'

REVISIONS:
SLONDON 10/21/18

DATE OF SURVEY:
6/5/18

EXHIBIT "A"
PAGE 3 of 6
ELECTRIC LINE EASEMENT PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



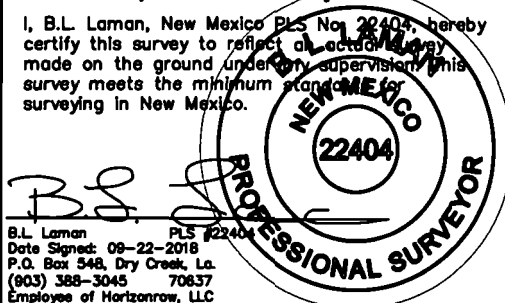
30' EASEMENT AREA = 3.089 ACRE(S)
4484.89 FEET OR 271.81 RODS

51+01.6 N-S SECTION LINE
51+20.9 STRANGER 33-34 SOUTH LATERAL ELECTRIC LINE
55+77.4 STRANGER 34 CTB 1 ELECTRIC LINE
65+77.4 STRANGER 34 CTB 2 ELECTRIC LINE
75+86.1 STRANGER 34 CTB 3 ELECTRIC LINE
85+86.5 STRANGER 34 CTB 4 ELECTRIC LINE
95+86.5 P.O.E./STRANGER 34 CTB 5 ELECTRIC LINE

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JESUS RIVERO

Date: 06/20/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 33-34 PRIMARY
ELECTRIC LINE

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
EL8210

WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 1000'

REVISIONS:

DATE OF SURVEY:
06/04/2018

0 1000 2000

SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the south half (S ½) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the west quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 00°29'06" E a distance of 1236.11' to the **Point of Beginning** of this easement having coordinates of Northing=395226.73, Easting=809856.68 feet and continuing the following courses;

Thence N 89°34'53" E a distance of 4484.89' to the **Point of Ending** having coordinates of Northing=395259.50, Easting=814341.45 feet, from said point a 1" iron pipe w/BC for the east quarter corner of Section 34, T25S-R34E bears N 32°28'30" E a distance of 1473.79', covering **4484.89' or 271.81 rods** and having an area of **3.089 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.


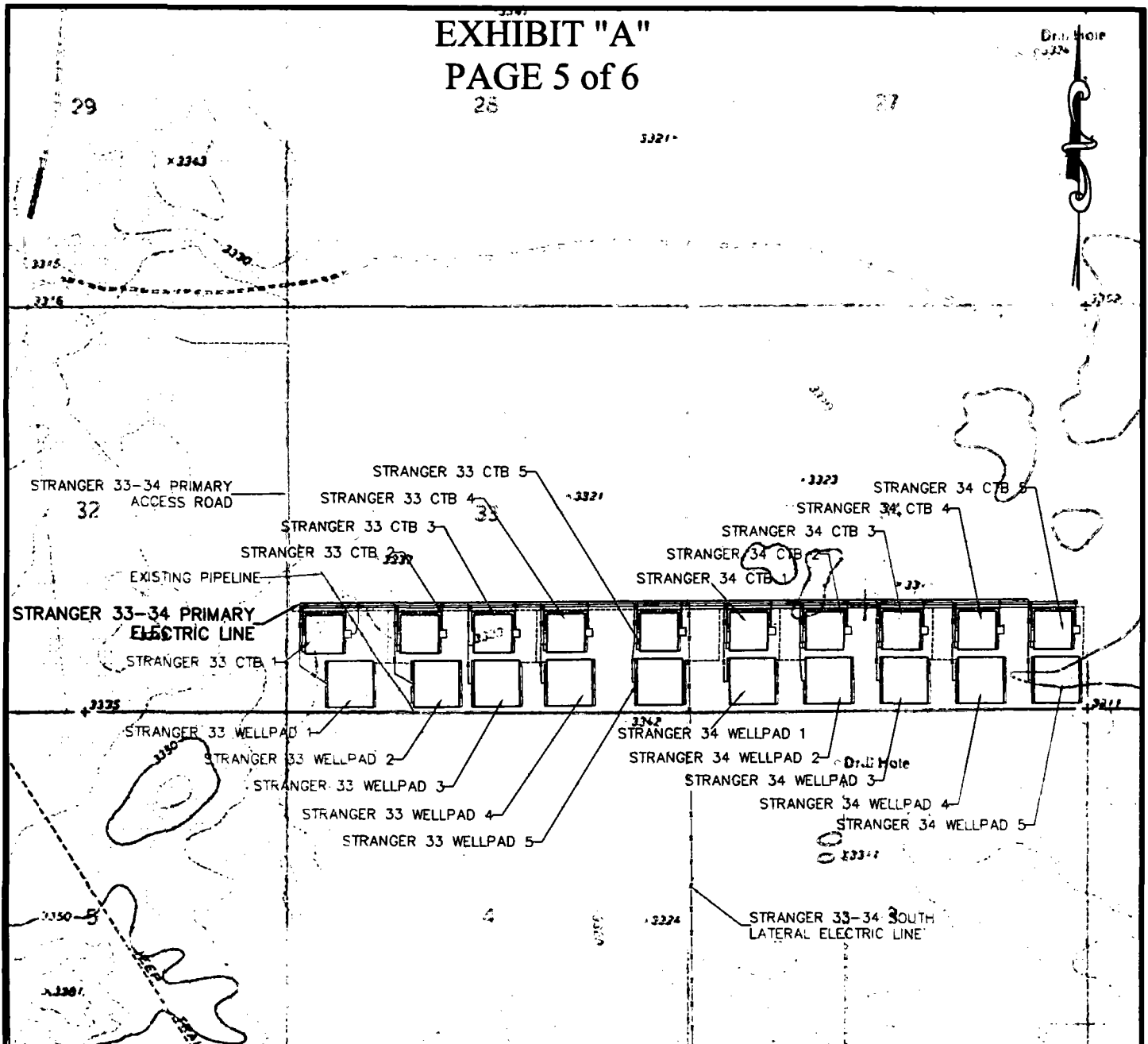

B.L. Laman PLS 22404
Date Signed: 09/22/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"

PAGE 5 of 6



QUAD MAP

SECTION 33, T25S-R34E, N.M.P.M.;
SECTION 34, T25S-R34E, N.M.P.M.;

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
JESUS RIVERO

Date: 08/20/2018

Drawn for:



LINE NUMBER:
EL8210
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 2000'
REVISIONS:
SHEET:
5 OF 6

EXHIBIT "A"
PAGE 6 of 6

STRANGER 33-34 PRIMARY
ELECTRIC LINE

AERIAL MAP

SECTION 33, T25S-R34E, N.M.P.M.;
SECTION 34, T25S-R34E, N.M.P.M.;

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASMENT

Drawn by:
JESUS RIVERO

Date: 06/20/2018

Drawn for:



LINE NUMBER:
EL8210

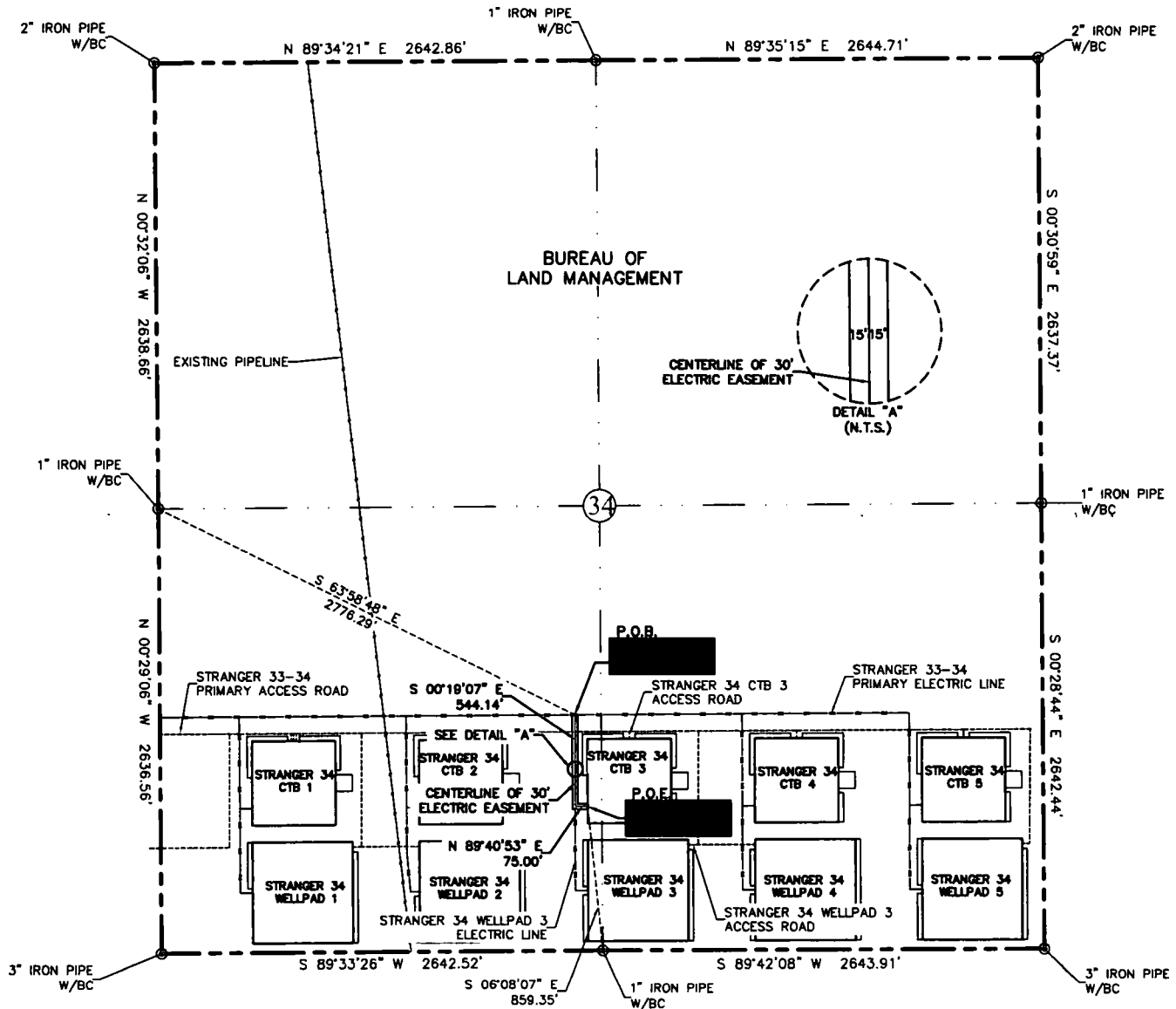
WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 2000'

REVISIONS:

SHEET:
6 OF 6

EXHIBIT "A"
PAGE 1 of 4
ELECTRIC LINE EASEMENT PLAT
SECTION 34, T25S-R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.426 ACRE(S)
619.14 FEET OR 37.52 RODS

0+00.0 P.O.B./STRANGER 33-34 PRIMARY ELECTRIC LINE
5+44.1 STRANGER 34 WELLPAD 3 ELECTRIC LINE.
6+19.1 P.O.E./STRANGER 34 CTB 3

SEE THE ATTACHED LEGAL DESCRIPTION

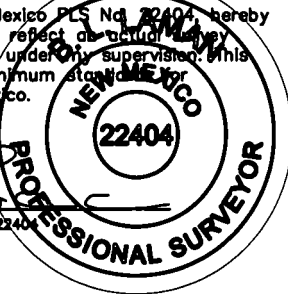
Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

0 1000 2000



B.L. Laman
Date Signed: 11-06-2018
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70837
Employee of Horizonrow, LLC



HORIZON ROW LLC

Drawn for:

devon

Drawn by:
JESUS RIVERO

Date: 06/13/2018

DEVON ENERGY PRODUCTION COMPANY, L.P.

STRANGER 34 CTB 3
ELECTRIC LINE

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 34, T25S-R34E, N.M.P.M.

LINE NUMBER:
EL8227
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 1000'
REVISIONS:
DATE OF SURVEY:
6/3/18

SECTION 34, T25S-R34E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southwest quarter (SW $\frac{1}{4}$) of Section 34, Township 25 South, Range 34 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the west quarter corner of Section 34, T25S-R34E, N.M.P.M., Lea County, New Mexico;

Thence S 63°58'48" E a distance of 2776.29' to the **Point of Beginning** of this easement having coordinates of Northing=395244.88 Easting=812341.11 feet and continuing the following courses;

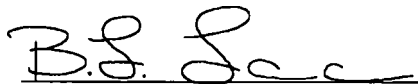
Thence S 00°19'07" E a distance of 544.14' to an angle point;

Thence N 89°40'53" E a distance of 75.00' to the **Point of Ending** having coordinates of Northing=394701.17, Easting=812419.13 feet, from said point a 1" iron pipe w/BC for the south quarter corner of Section 34, T25S-R34E bears S 06°08'07" E a distance of 859.35', covering **619.14' or 37.52 rods** and having an area of **0.426 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.

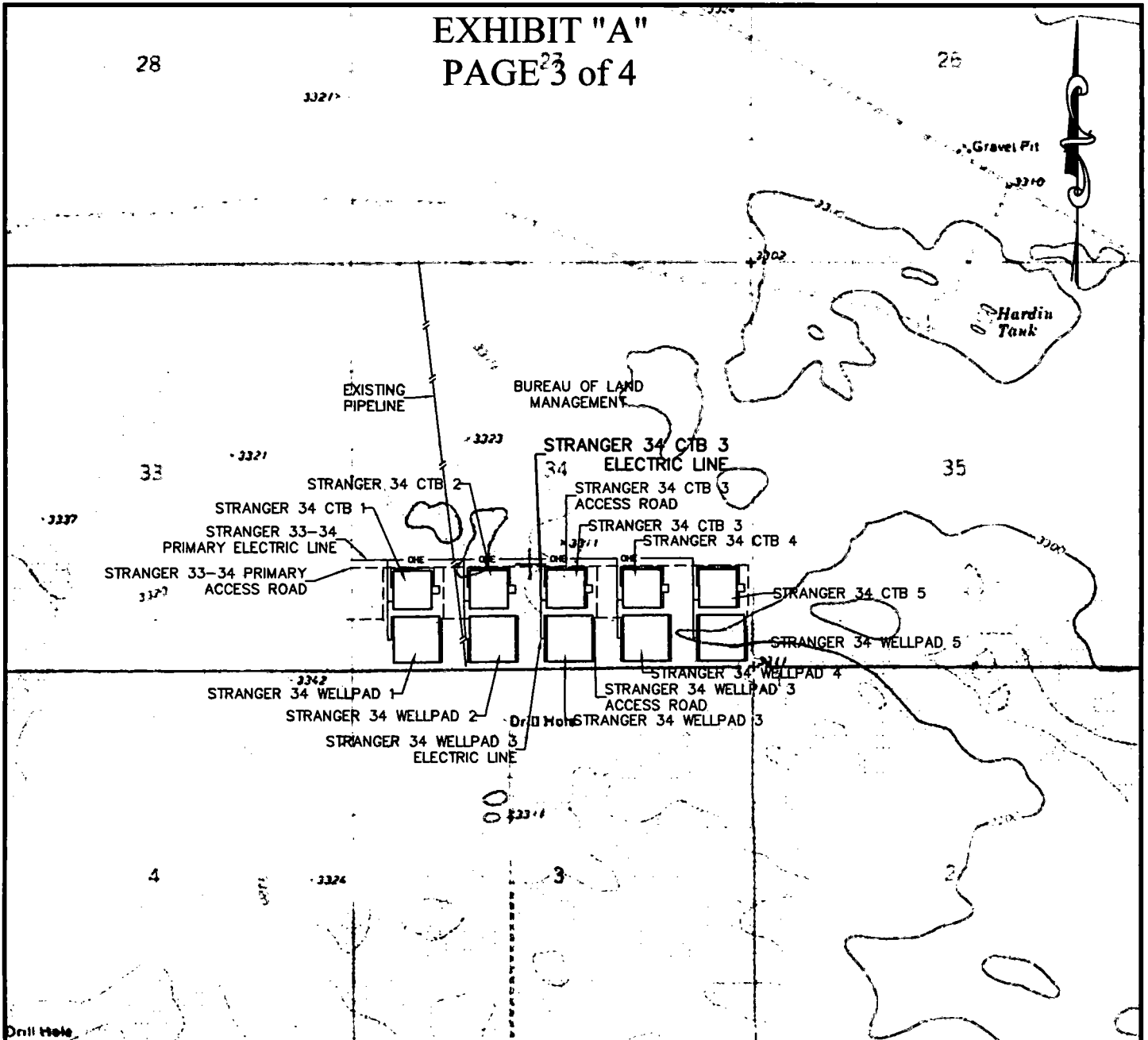


B.L. Laman PLS 22404
Date Signed: 11/06/2018
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC



EXHIBIT "A"

PAGE²³ of 4



QUAD MAP

SECTION 34, T25S-R34E, N.M.P.M.;
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
JESUS RIVERO

Date: 06/18/2018

Drawn for:



LINE NUMBER:
EL8227
WBS NUMBER:
XX-128733.AL.SLC
SCALE:
1" = 2000'
REVISIONS:
SHEET:
3 OF 4

EXHIBIT "A"
PAGE 4 of 4



STRANGER 34 CTB 3
ELECTRIC LINE

AERIAL MAP

SECTION 34, T25S-R34E, N.M.P.M.;
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.
PROPOSED 30' EASEMENT

Drawn by:
JESUS RIVERO

Date: 06/18/2018

Drawn for:



LINE NUMBER:
EL8227

WBS NUMBER:
XX-128733.AL.SLC

SCALE:
1" = 2000'

REVISIONS:

SHEET:
4 OF 4

WELL PAD 5

STRANGER 34 FED COM 4H, 8H, 12H, & 16H

devon

This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere

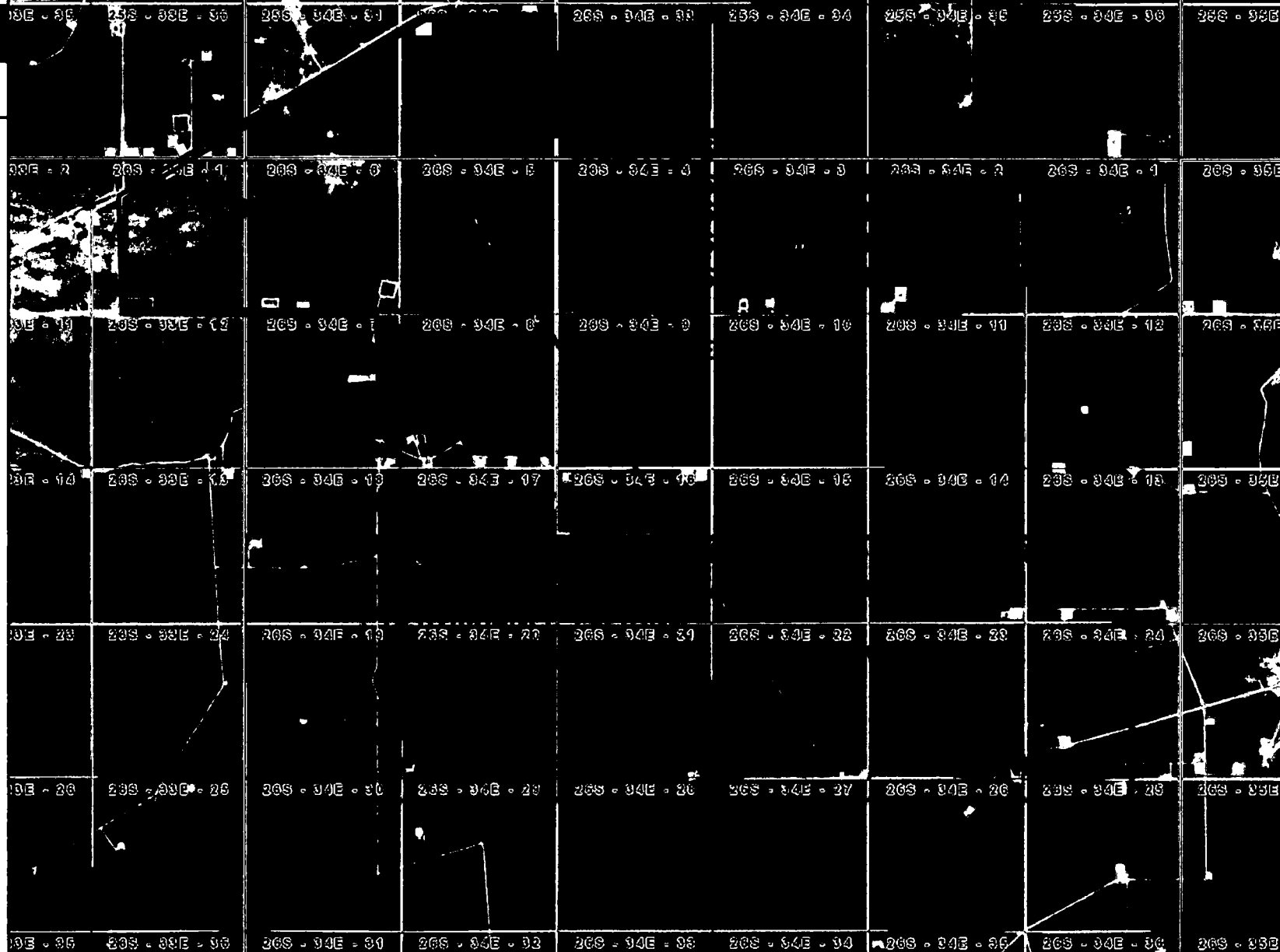
Prepared by:

Map is current as of: 02-Nov-2018



Miles

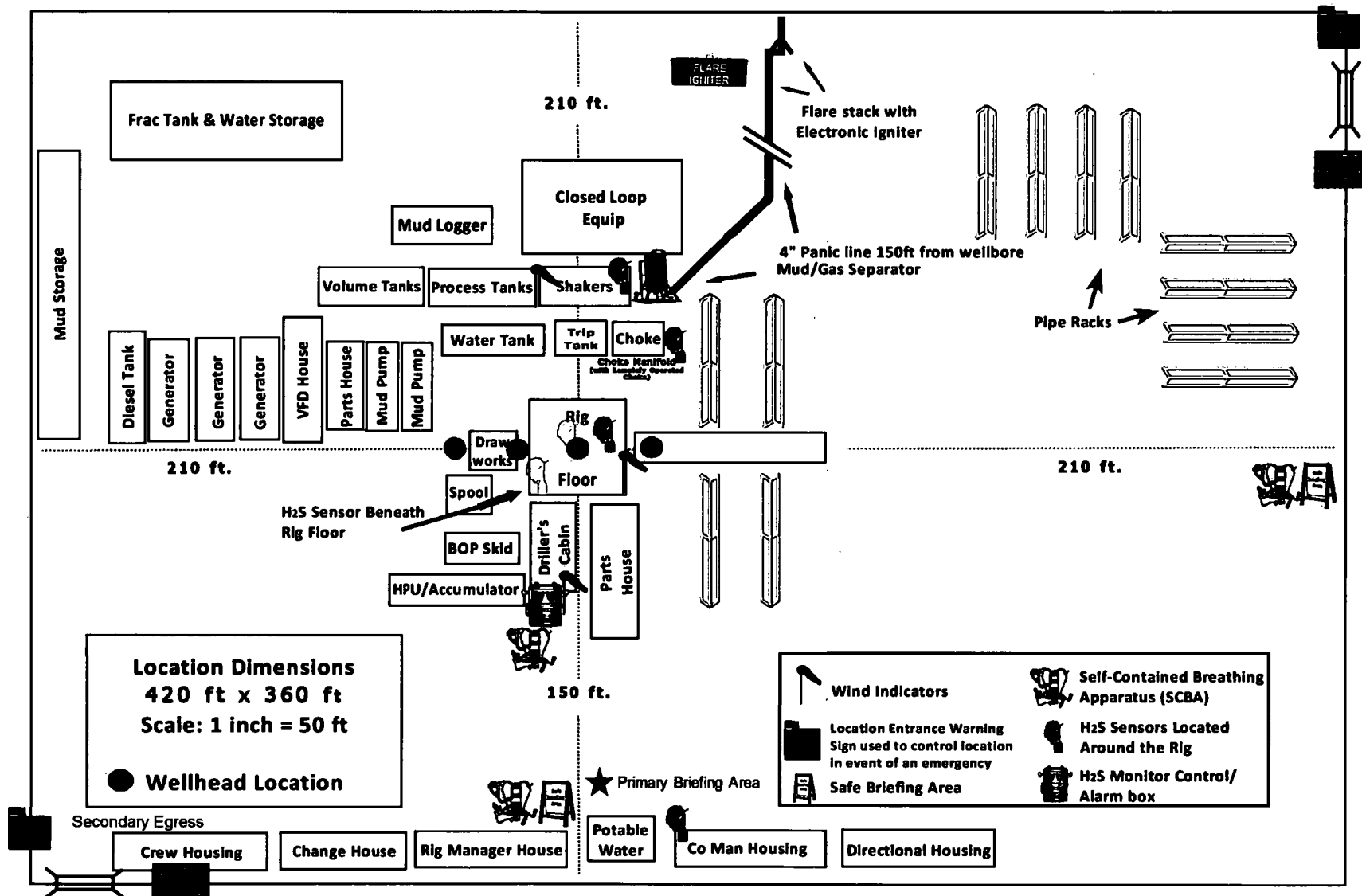
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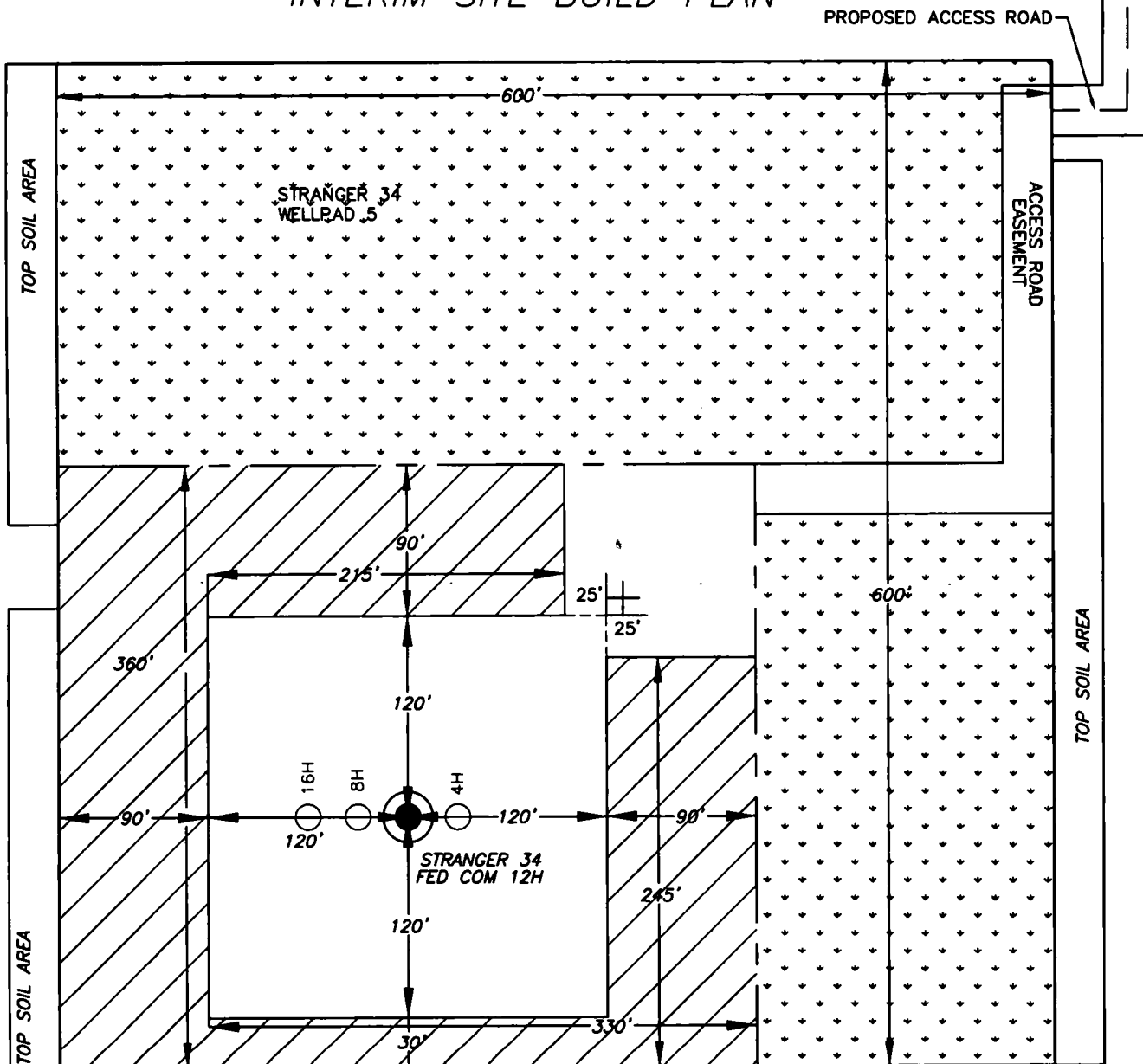
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011 000
000 00
0-0000



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location

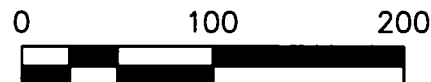


SECTION 34, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE BUILD PLAN



/// DENOTES INTERIM PAD RECLAMATION AREA
 . . . DENOTES GRADING SITE RECLAMATION AREA

1.859± ACRES INTERIM PAD RECLAMATION AREA
 4.514± ACRES GRADING SITE RECLAMATION AREA
 1.891± ACRES NON-RECLAIMED AREA
 8.264± ACRES GRADING SITE RECLAMATION AREA



DEVON ENERGY PRODUCTION COMPANY, L.P.
 STRANGER 34 FED COM 12H
 LOCATED 205 FT. FROM THE SOUTH LINE
 AND 520 FT. FROM THE EAST LINE OF
 SECTION 34, TOWNSHIP 25 SOUTH,
 RANGE 34 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by:
CHRIS MAAS

Date: 09/11/2018

Drawn for:


devon



Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

04/30/2019

Bond Information

Federal/Indian APD: FED

BLM Bond number: CO1104

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: