F/P (H)

Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

APPLICATION FOR PERMIT TO DRILL OR REENTER

MAY 02 2019

RECEIVED

5. Lease Serial No.	NMNM117558
6. If Indian, Allotee or Tribe Name	
7. If Unit or CA Agreement, Name and No.	
8. Lease Name and Well No.	RED BULL 29-20 FEDERAL 2H (32487)
9. API Well No.	30-025-45506
10. Field and Pool, or Exploratory	WC-025 G-08 S233528D / LOWER BONE (97958)
11. Sec., T. R. M. or Blk. and Survey or Area	SEC 29 / T23S / R35E / NMP
12. County or Parish	LEA
13. State	NM

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

2. Name of Operator: DEVON ENERGY PRODUCTION COMPANY LP (6137)

3a. Address: 333 West Sheridan Avenue Oklahoma City OK 73102

3b. Phone No. *(include area code)*: (800)583-3866

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

At surface: SESW / 445 FSL / 2160 FWL / LAT 32.26956 / LONG -103.391178

At proposed prod. zone: NENW / 20 FNL / 1880 FWL / LAT 32.29731 / LONG -103.392116

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)	445 feet	16. No of acres in lease: 1280	17. Spacing Unit dedicated to this well: 320
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	1801 feet	19. Proposed Depth: 11545 feet / 21806 feet	20. BLM/BIA Bond No. in file: FED: CO1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3428 feet		22. Approximate date work will start*: 09/01/2019	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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature: (Electronic Submission)	Name *(Printed/Typed)*: Rebecca Deal / Ph: (405)228-8429	Date: 09/24/2018
Title: Regulatory Compliance Professional		
Approved by *(Signature)*: (Electronic Submission)	Name *(Printed/Typed)*: Christopher Walls / Ph: (575)234-2234	Date: 04/30/2019
Title: Petroleum Engineer	Office: CARLSBAD	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SCP Rec 05/02/19

APPROVED WITH CONDITIONS

KZ 05/06/19

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 04/30/2019

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160
PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.
ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

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Additional Operator Remarks

Location of Well

1. SHL: SESW / 445 FSL / 2160 FWL / TWSP: 23S / RANGE: 35E / SECTION: 29 / LAT: 32.26956 / LONG: -103.391178 (TVD: 0 feet, MD: 0 feet)
   PPP: SESW / 100 FSL / 1880 FWL / TWSP: 23S / RANGE: 35E / SECTION: 29 / LAT: 32.268612 / LONG: -103.392082 (TVD: 11206 feet, MD: 11231 feet)
   BHL: NENW / 20 FNL / 1880 FWL / TWSP: 23S / RANGE: 35E / SECTION: 20 / LAT: 32.29731 / LONG: -103.392116 (TVD: 11545 feet, MD: 21806 feet)

BLM Point of Contact

Name: Candy Vigil
Title: Admin Support Assistant
Phone: 5752345982
Email: cvigil@blm.gov

Approval Date: 04/30/2019

Review and Appeal Rights

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

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LEASE NO.:	**NMNM117558**
WELL NAME & NO.:	Red Bull 29-20 Federal 2H
SURFACE HOLE FOOTAGE:	445'/S & 2160'/W
BOTTOM HOLE FOOTAGE	20'/N & 1880'/W
LOCATION:	Section 29, T.23 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **1300 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 **9-5/8** inch intermediate casing shall be set at approximately **5353 feet** is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.**

Option 2:

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

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

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.

- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL from TD of the 9-5/8" 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 **50 feet** above top of **Capitan Reef** into previous casing string. Operator shall provide method of verification. **Cement excess is less than 25%, more cement might be required.**

Alternate Casing Design:

4. The **13-3/8** inch surface casing shall be set at approximately **1300 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.

5. The minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at approximately **6000 feet** is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.
  Cement excess is less than 25%, more cement might be required.

Option 2:

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

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

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.
  Cement excess is less than 25%, more cement might be required.

❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.

- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL from TD of the 9-5/8" 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 **50 feet** above top of **Capitan Reef** 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 **5000 (5M)** psi.

Option 2:

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

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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.:	Red Bull 29-20 Federal 2H
SURFACE HOLE FOOTAGE:	445'/S & 2160'/W
BOTTOM HOLE FOOTAGE	20'/N & 1880'/W
LOCATION:	Section 29, T.23 S., R.35 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.

Approval Date: 04/30/2019

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)

Build as you go NO Grading all Pad!! Only allowed to build Subpad!!

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.

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.

- 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.

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.

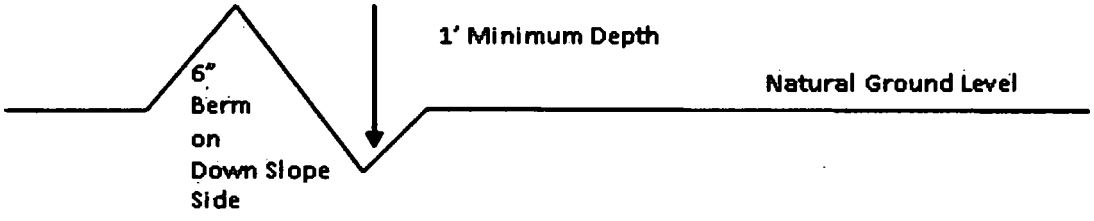
Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.
Fence Requirement Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence.
Livestock Watering Requirement Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

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

Construction Steps 1. Salvage topsoil 2. Construct road 3. Redistribute topsoil 4. Revegetate slopes

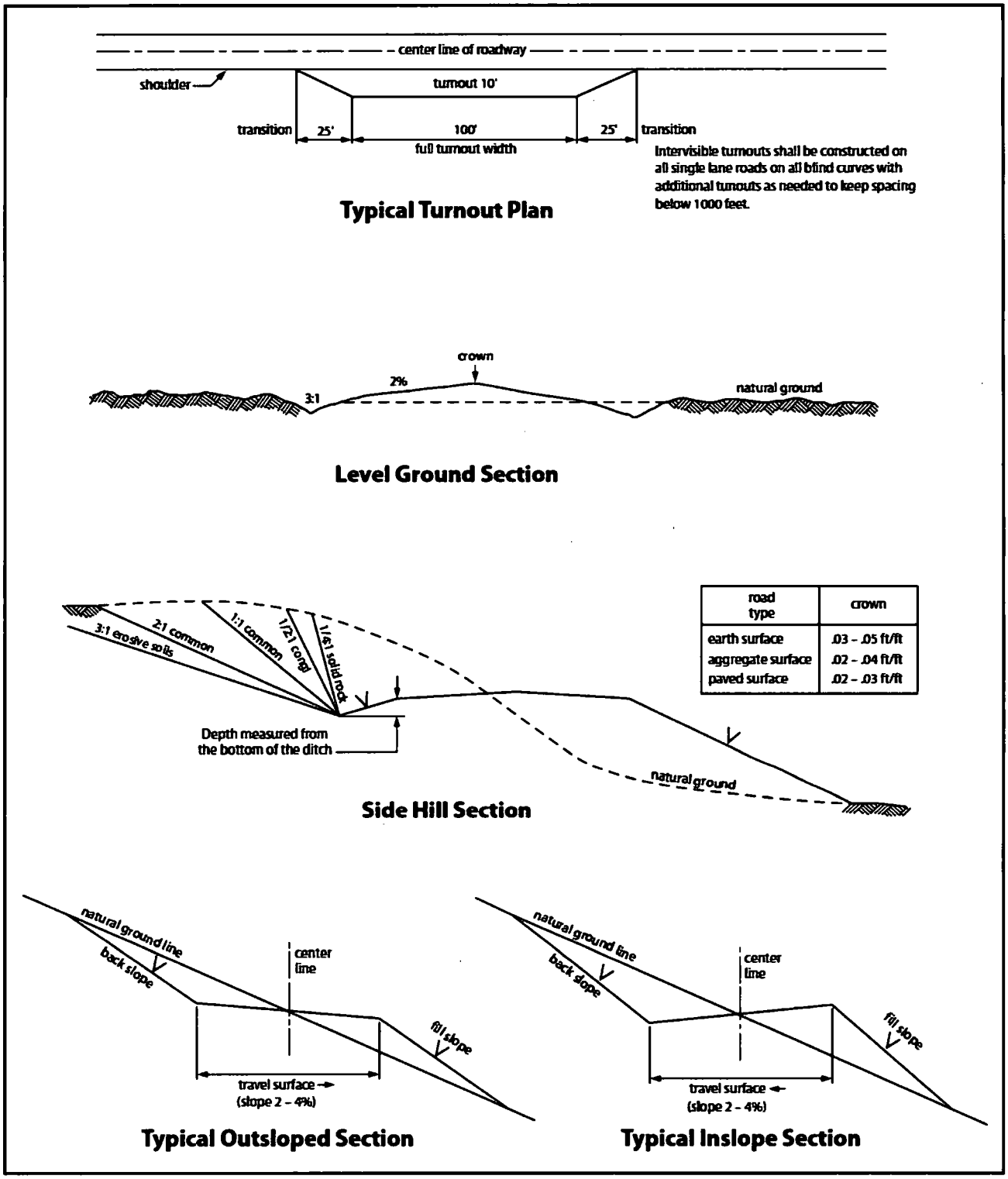


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

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

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

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

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

Containment Structures

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

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

B. PIPELINES

BURIED PIPELINE STIPULATIONS

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

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

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of **36** inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be **30** feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)

- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

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

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

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

( ) seed mixture 1	( ) seed mixture 3
(X) seed mixture 2	( ) seed mixture 4
( ) seed mixture 2/LPC	( ) Aplomado Falcon Mixture

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

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

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

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

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

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

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

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

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.

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 2, for Sandy Sites

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

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

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

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

*Pounds of pure live seed:

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

Approval Date: 04/30/2019

AFMSS

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:** 09/24/2018

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

AFMSS

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

Application Data Report

04/30/2019

APD ID: 10400034509 **Submission Date:** 09/24/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

Well Type: OIL WELL **Well Work Type:** Drill

[redacted]

Show Final Text

Section 1 - General

APD ID: 10400034509 **Tie to previous NOS?** **Submission Date:** 09/24/2018

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: NMNM117558 **Lease Acres:** 1280

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: RED BULL 29-20 FEDERAL **Well Number:** 2H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** WC-025 G-08 S233528D **Pool Name:** LOWER BONE SPRING

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

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:** RED BULL 29 WELLPAD **Number:** 1

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:** 1801 FT **Distance to lease line:** 445 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: RED_BULL_29_20_FED_2H_C_102_RDS_20180924125527.pdf

Well work start Date: 09/01/2019 **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	445	FSL	2160	FWL	23S	35E	29	Aliquot SESW	32.26956	-103.391178	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117558	3428	0	0
KOP Leg #1	50	FSL	1880	FWL	23S	35E	29	Aliquot SESW	32.268481	-103.392095	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117558	-7544	10990	10972
PPP Leg #1	100	FSL	1880	FWL	23S	35E	29	Aliquot SESW	32.268612	-103.392082	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117558	-7778	11231	11206

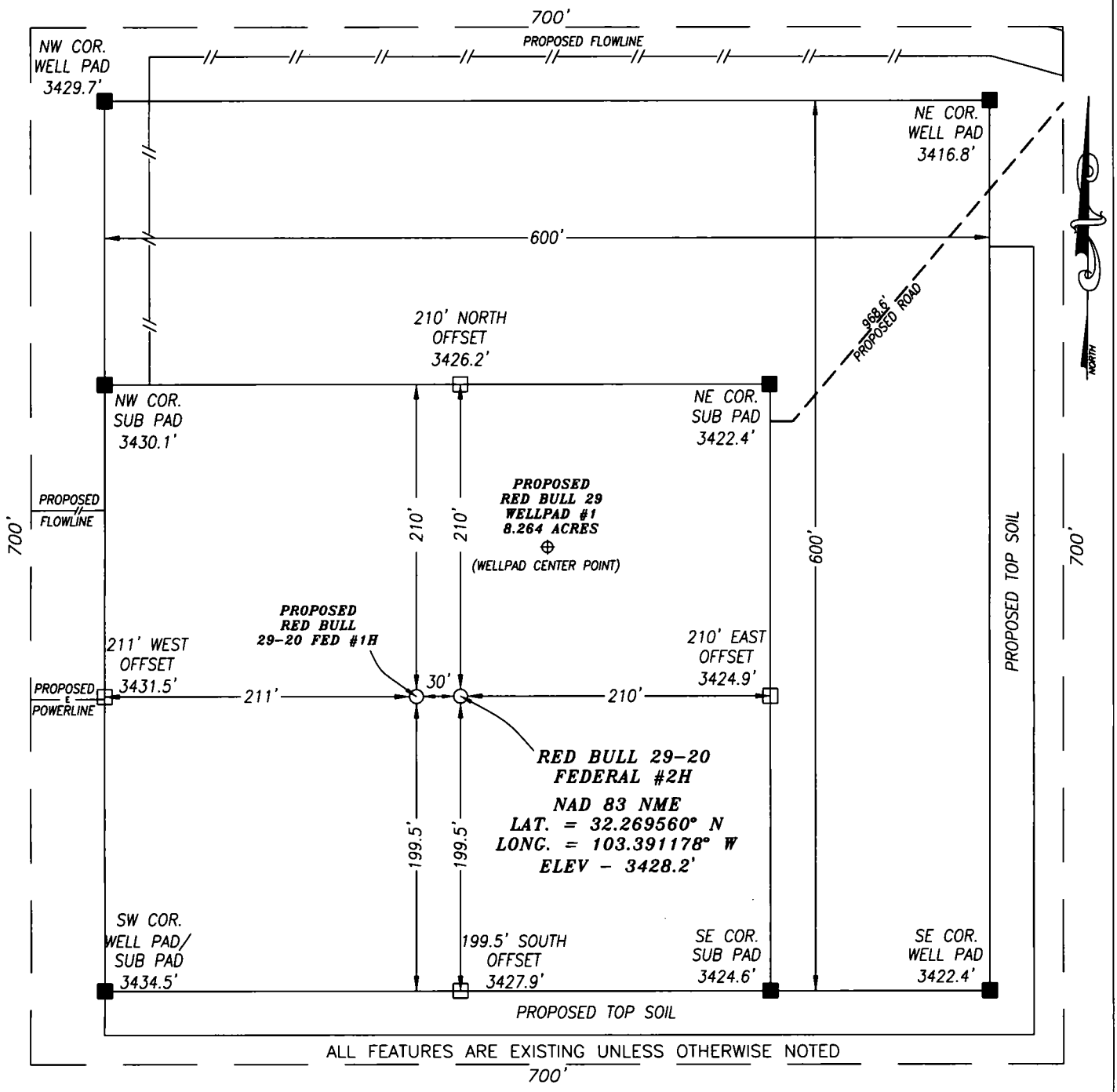
Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

	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	20	FNL	1880	FWL	23S	35E	20	Aliquot NENW	32.29731	-103.392116	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117558	-8117	21806	11545
BHL Leg #1	20	FNL	1880	FWL	23S	35E	20	Aliquot NENW	32.29731	-103.392116	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117558	-8117	21806	11545

SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,

LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF C.R. 21 (DELAWARE BASIN RD) AND C.R. 32 HEADING EAST ON C.R. 21 GO APPROX. 2.1 MILES; GO RIGHT (SOUTH) ON A CALICHE ROAD, GO APPROX. 3.4 MILES, STAY LEFT AT Y, CONTINUE SOUTH FOR APPROX. 0.1 MILES, STAY RIGHT AT Y, CONTINUE SOUTH FOR APPROX. 0.6 TO PROPOSED ROAD

100 0 100 200 Feet

Scale: 1"=100'

HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

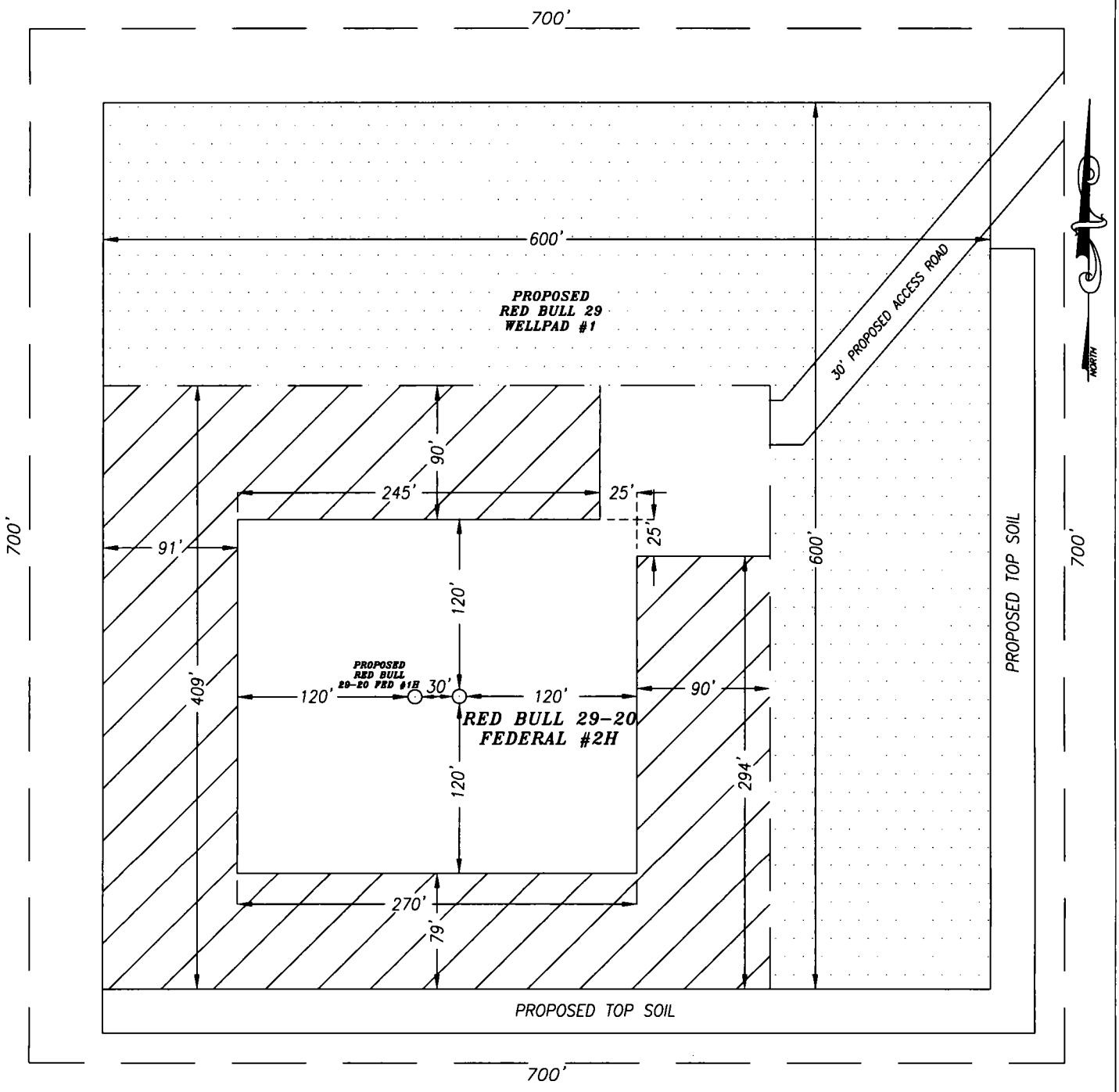
DEVON ENERGY PRODUCTION CO., L.P.

RED BULL 29-20 FEDERAL #2H
LOCATED 445 FEET FROM THE SOUTH LINE
AND 2160 FEET FROM THE WEST LINE OF SECTION 29,
TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 6, 2018		REV:
DRAFTING DATE: AUGUST 28, 2018		
APPROVED BY: CH	DRAWN BY: SP	PAGE: 3 OF 12
FILE: 18-904	DEVON #: WA017406804	SITE MAP

SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,

LEA COUNTY NEW MEXICO



DENOTES INTERIM PAD RECLAMATION AREA

DENOTES GRADING SITE RECLAMATION AREA

100 0 100 200 Feet

Scale: 1"=100'

+/- 2.461	ACRES	INTERIM PAD RECLAMATION AREA
+/- 3.875	ACRES	GRADING SITE RECLAMATION AREA
+/- 1.928	ACRES	NON-RECLAIMED AREA
+/- 8.264	ACRES	RED BULL 29 WELLPAD 1

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LOCATED 445 FEET FROM THE SOUTH LINE
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TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 6, 2018		REV:
DRAFTING DATE: AUGUST 28, 2018		FILE: 18-904
APPROVED BY: CH	DRAWN BY: AM	PAGE: 4 OF 12
DEVON #: WA017406804		INTERIM SITE BUILD PLAN

AFMSS

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

Drilling Plan Data Report

04/30/2019

APD ID: 10400034509 **Submission Date:** 09/24/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

Well Type: OIL WELL **Well Work Type:** Drill

[redacted]

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	---	3429	0	0	OTHER : SUFRACE	NONE	No
2	RUSTLER	2154	1275	1275	ANHYDRITE	NONE	No
3	SALADO	2029	1400	1400	SALT	NONE	No
4	CAPITAN REEF	-521	3950	3950	ANHYDRITE	NONE	No
5	BASE OF SALT	-5250	5250	5250	SANDSTONE	NATURAL GAS,OIL	No
6	BELL CANYON	-2046	5475	5475	SANDSTONE	NATURAL GAS,OIL	No
7	CHERRY CANYON	-2991	6420	6420	SANDSTONE	NATURAL GAS,OIL	No
8	BRUSHY CANYON	-4221	7650	7650	SANDSTONE	NATURAL GAS,OIL	No
9	BONE SPRING LIME	-5471	8900	8900	LIMESTONE	NATURAL GAS,OIL	No
10	BONE SPRING 1ST	-6431	9860	9860	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 2ND	-10370	10370	10370	SANDSTONE	NATURAL GAS,OIL	No
12	BONE SPRING 3RD	-7871	11300	11300	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 5353

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

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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

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

Choke Diagram Attachment:

5M_BOPE__CK_20190212094812.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190212094825.pdf

Pressure Rating (PSI): 5M **Rating Depth:** 11545

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

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.
Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

5M_BOPE__CK_20190212094902.pdf

BOP Diagram Attachment:

5M_BOPE__CK_20190212094912.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1300	0	1300			1300	H-40	48	STC	1.125	1.25	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5353	0	5353			5353	J-55	40	OTHER - BTC	1.125	1.25	BUOY	1.6	BUOY	1.6
3	PRODUCTION	8.75	5.5	NEW	API	N	0	21805	0	11545			21805	OTHER	17	OTHER - BTC	1.125	1.25	BUOY	1.6	BUOY	1.6

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Surf_Csg_Ass_20180920122431.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Int_Csg_Ass_20190315135013.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Prod_Csg_Ass_20190315135039.pdf

Section 4 - Cement

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1300	1009	1.34	14.8	1353	50	Class C	0.125 lbs/sack Poly -E - Flake
INTERMEDIATE	Lead		0	4853	530	3.65	10.3	1936	30	(50:50) Poz	(Silica) 3 lbm/sk Kol-Seal, 0.125 lbm/sk Poly-E- Flake
INTERMEDIATE	Tail		4853	5353	153	3.65	14.8	204	30	Class C	0.125 lbs/sack Poly-E-Flake
PRODUCTION	Lead		3750	11456	725	3.27	11	2372	25	TUNED	LIGHT CEMENT
PRODUCTION	Tail		11456	21805	2600	1.2	13.2	3120	25	(50:50)	Poz (Fly Ash) +0.5% bwoc

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1300	WATER-BASED MUD	8.4	9				2			
1300	5353	SALT SATURATED	9	10.5				2			

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

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
5353	21805	WATER-BASED MUD	8.5	9.3				12			

Section 6 - Test, Logging, Coring

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

Will run GRMWD from KOP to TD. 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: 5583 **Anticipated Surface Pressure:** 3043.1

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Red_Bull_29_20_Federal_2H_H2S_Plan_20180924130506.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Red_Bull_29_20_Fed_2H_Dir_Svy_20180924130554.pdf

Red_Bull_29_20_Fed_2H_Plot_20180924130557.pdf

Other proposed operations facets description:

MULTI BOWL VERBIAGE
MULTI BOWL WELLHEAD
CLOSED LOOP DESIGN PLAN
COFLEX
DIRECTIONAL PLAN
AC PLAN
DRILLING PLAN
SPUDDER RIG REQUEST
GCP FORM

Other proposed operations facets attachment:

Spudder_Rig_Info_20180920123404.pdf

Clsd_Loop_20180920123420.pdf

Red_Bull_29_GCP_Form_20180920140851.pdf

MB_Verb_5M_20190212095646.pdf

MB_Wellhd_5M_20190212095647.pdf

5_500in_17_00__P110RY_DWC_C_20190212095746.pdf

9.625_40__J_55_20190212095747.pdf

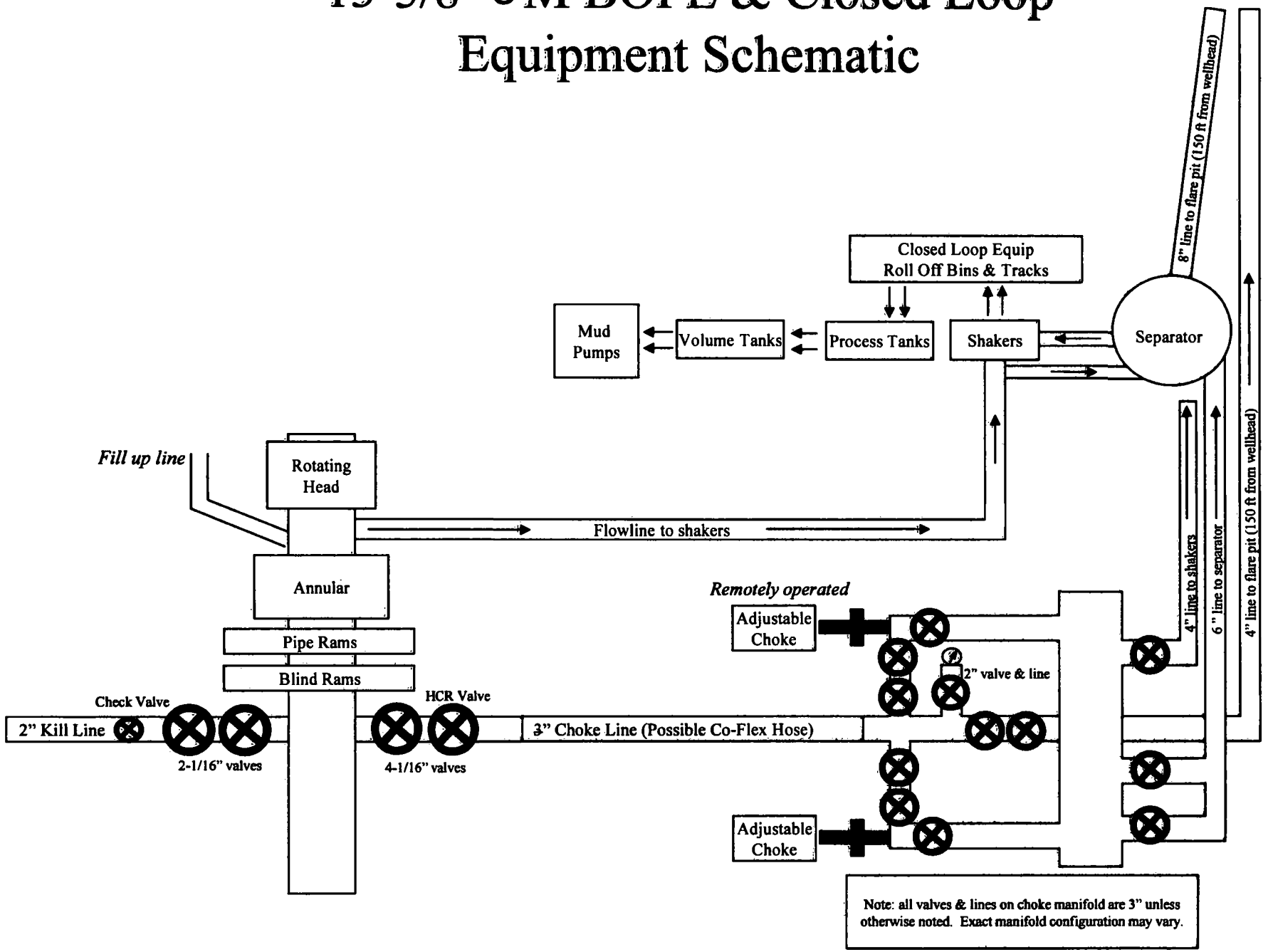
13.375_48__H40_20190212095748.pdf

Red_Bull_29_20_Federal_2H_Drill_Plan_R2_20190315141213.pdf

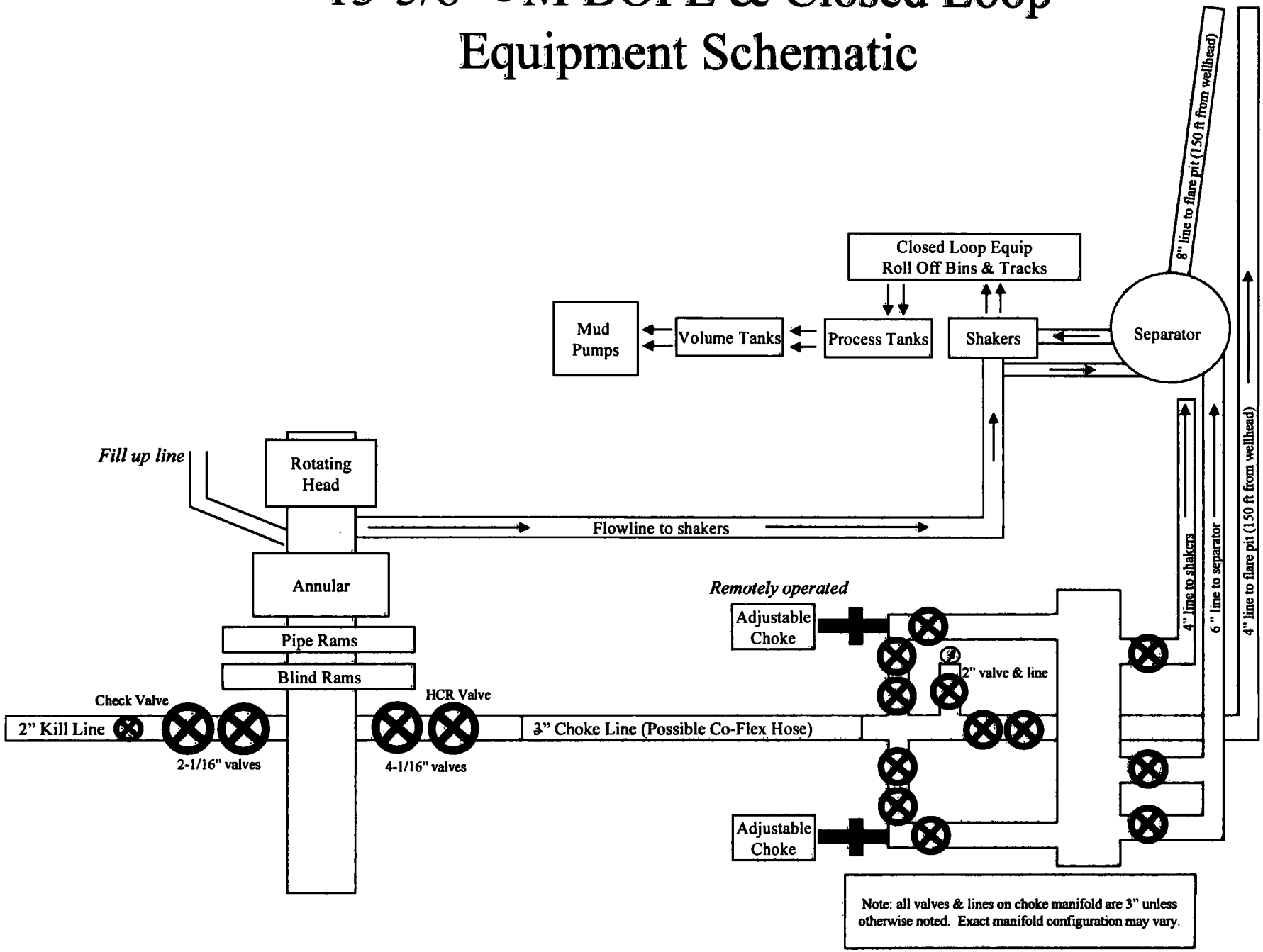
Other Variance attachment:

Co_flex_20180920123346.pdf

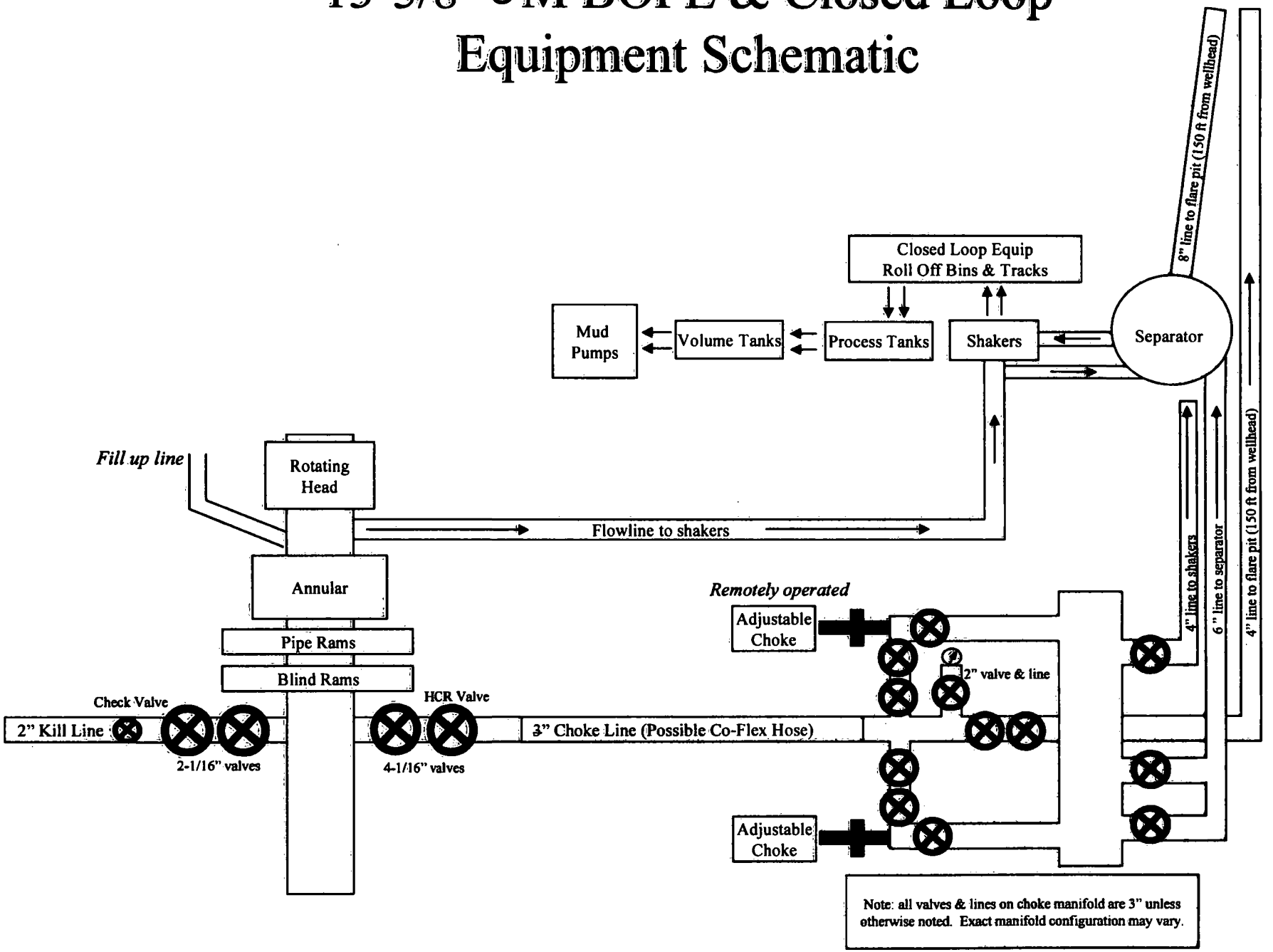
13-5/8" 5M BOPE & Closed Loop Equipment Schematic



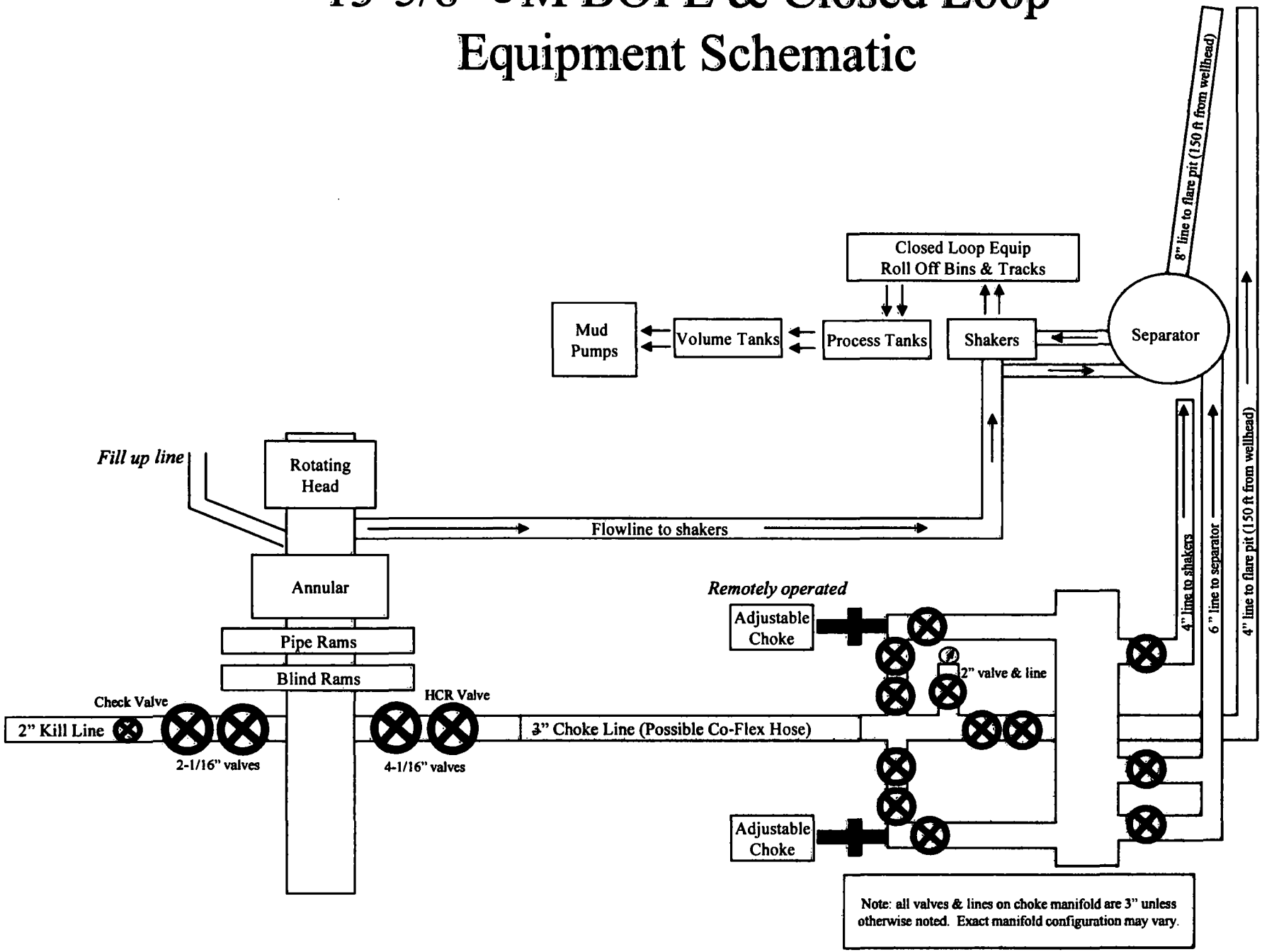
13-5/8" 5M BOPE & Closed Loop Equipment Schematic



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



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



Casing Assumptions and Load Cases

Surface

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

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

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

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

Casing Assumptions and Load Cases

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

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

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

Hydrogen Sulfide (H_2S) Contingency Plan

For

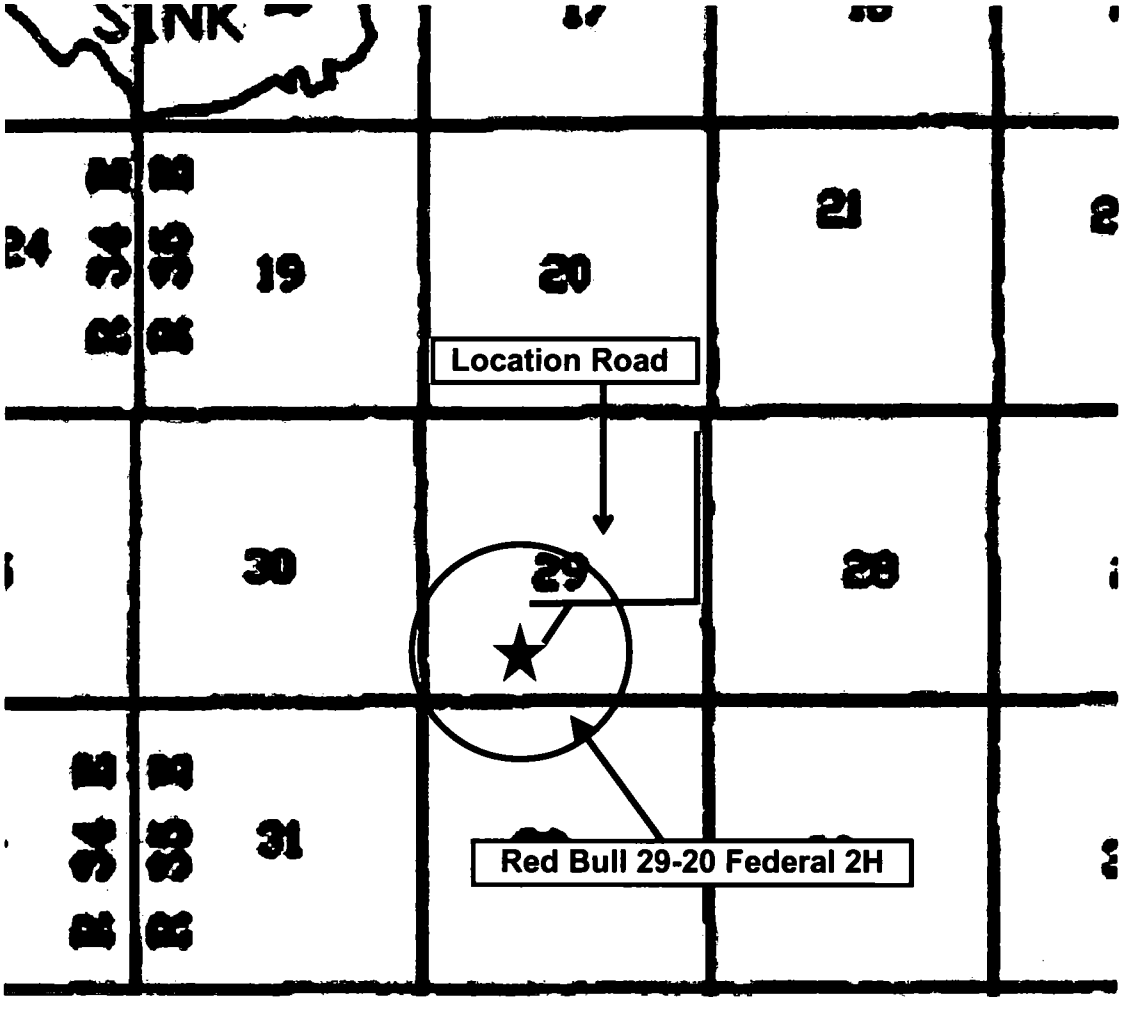
Red Bull 29-20 Federal 2H

Sec-29 T-23S R-35E
445' FSL & 2160' FWL
LAT. = 32.269560' N (NAD83)
LONG = 103.391178' W

Lea County NM

Red Bull 29-20 Federal 2H

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



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

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H_2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H_2S, 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 H_2S 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 H_2S, 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 (SO_2). 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 H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	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 (H_2S) TRAINING

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

1. The hazards and characteristics of hydrogen sulfide (H_2S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

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

1. The effects of H_2S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H_2S Drilling Operations Plan and Public Protection Plan.

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

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S.

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. **H_2S detection and monitoring equipment:**

   Portable H_2S monitors positioned on location for best coverage and response. These units have warning lights which activate when H_2S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

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

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

5. **Metallurgy:**

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

   B. All elastomers used for packing and seals shall be H_2S trim.

6. **Communication:**

   A. Company personnel have/use cellular telephones in the field.

   B. Land line (telephone) communications at Office

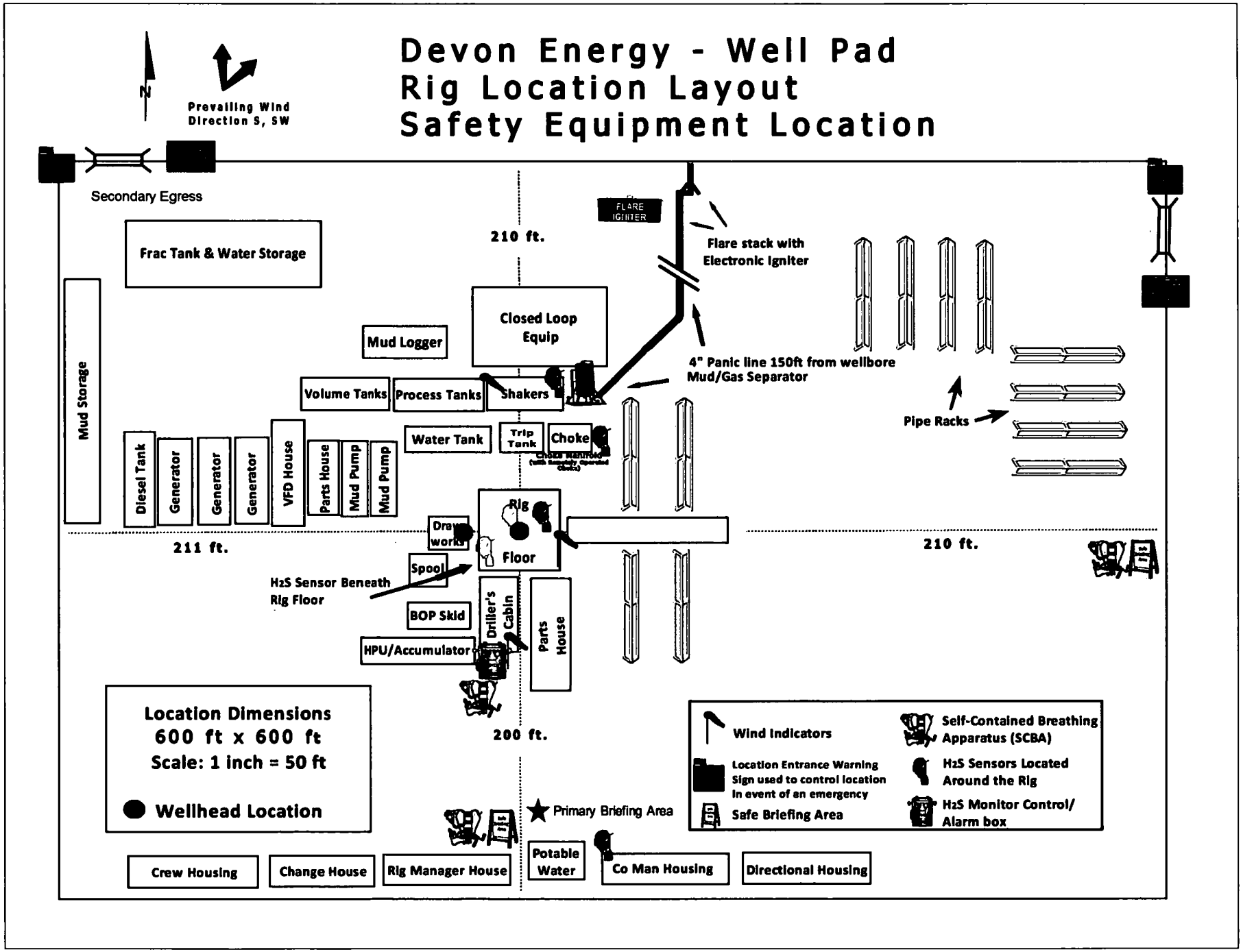
7. **Well testing:**

   A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H_2S environment will use the closed chamber method of testing.

   B. There will be no drill stem testing.

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

Prepared in conjunction with
Dave Small SHARP communications and consulting


Devon Energy - Well Pad
Rig Location Layout
Safety Equipment Location
N
Prevailing Wind
Direction S, SW
Secondary Egress
Frac Tank & Water Storage
210 ft.
FLARE IGNITER
Flare stack with
Electronic Igniter
Closed Loop
Equip
Mud Logger
4" Panic line 150ft from wellbore
Mud/Gas Separator
Mud Storage
Volume Tanks
Process Tanks
Shakers
Pipe Racks
Water Tank
Trip
Tank
Choke
Diesel Tank
Generator
Generator
Generator
VFD House
Parts House
Mud Pump
Mud Pump
Rig
Floor
Dra
works
211 ft.
210 ft.
Spool
H2S Sensor Beneath
Rig Floor
BOP Skid
Driller's
Cabin
Parts
House
HPU/Accumulator
Location Dimensions
600 ft x 600 ft
Scale: 1 inch = 50 ft
Wellhead Location
200 ft.
Primary Briefing Area
Wind Indicators
Self-Contained Breathing
Apparatus (SCBA)
Location Entrance Warning
Sign used to control location
In event of an emergency
H2S Sensors Located
Around the Rig
Safe Briefing Area
H2S Monitor Control/
Alarm box
Crew Housing
Change House
Rig Manager House
Potable
Water
Co Man Housing
Directional Housing

WCDSC Permian NM

Lea County (NAD83 New Mexico East)
Sec 29-T23S-R35E
Red Bull 29-20 Fed 2H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

18 September, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 29-20 Fed 2H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3453.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3453.20ft
Site:	Sec 29-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 29-20 Fed 2H	**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 29-T23S-R35E				
Site Position:		**Northing:**	462,613.40 usft	**Latitude:**	32.268337
From:	Map	**Easting:**	830,387.00 usft	**Longitude:**	-103.398164
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.50 °

Well	Red Bull 29-20 Fed 2H					
Well Position	**+N/-S**	0.00 ft	**Northing:**	463,077.20 usft	**Latitude:**	32.269560
	+E/-W	0.00 ft	**Easting:**	832,542.60 usft	**Longitude:**	-103.391178
Position Uncertainty		0.50 ft	**Wellhead Elevation:**		**Ground Level:**	3,428.20 ft

Wellbore	Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	9/18/2018	6.74	60.12	47,854.77567980

Design	Permit Plan 1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	357.85

Plan Survey Tool Program **Date** 9/18/2018

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,805.83	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	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,351.60	4.40	215.33	4,351.26	-11.00	-7.79	1.25	1.25	0.00	215.33	
10,347.26	4.40	215.33	10,329.28	-385.84	-273.50	0.00	0.00	0.00	0.00	
10,640.26	0.00	0.00	10,622.00	-395.00	-280.00	1.50	-1.50	0.00	180.00	
10,990.30	0.00	0.00	10,972.04	-395.00	-280.00	0.00	0.00	0.00	0.00	
11,890.30	90.00	359.46	11,545.00	177.93	-285.40	10.00	10.00	0.00	359.46	PBHL - Red Bull 29-2
21,805.83	90.00	359.46	11,545.00	10,093.02	-378.80	0.00	0.00	0.00	0.00	PBHL - Red Bull 29-2

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 29-20 Fed 2H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3453.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3453.20ft
Site:	Sec 29-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 29-20 Fed 2H	**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	463,077.20	832,542.60	32.269560	-103.391178
100.00	0.00	0.00	100.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
200.00	0.00	0.00	200.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
300.00	0.00	0.00	300.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
400.00	0.00	0.00	400.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
500.00	0.00	0.00	500.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
600.00	0.00	0.00	600.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
700.00	0.00	0.00	700.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
800.00	0.00	0.00	800.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
900.00	0.00	0.00	900.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,000.00	0.00	0.00	1,000.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,100.00	0.00	0.00	1,100.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,200.00	0.00	0.00	1,200.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,300.00	0.00	0.00	1,300.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,400.00	0.00	0.00	1,400.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,500.00	0.00	0.00	1,500.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,600.00	0.00	0.00	1,600.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,700.00	0.00	0.00	1,700.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,800.00	0.00	0.00	1,800.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
1,900.00	0.00	0.00	1,900.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,000.00	0.00	0.00	2,000.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,100.00	0.00	0.00	2,100.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,200.00	0.00	0.00	2,200.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,300.00	0.00	0.00	2,300.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,400.00	0.00	0.00	2,400.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,500.00	0.00	0.00	2,500.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,600.00	0.00	0.00	2,600.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,700.00	0.00	0.00	2,700.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,800.00	0.00	0.00	2,800.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
2,900.00	0.00	0.00	2,900.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,000.00	0.00	0.00	3,000.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,100.00	0.00	0.00	3,100.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,200.00	0.00	0.00	3,200.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,300.00	0.00	0.00	3,300.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,400.00	0.00	0.00	3,400.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,500.00	0.00	0.00	3,500.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,600.00	0.00	0.00	3,600.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,700.00	0.00	0.00	3,700.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,800.00	0.00	0.00	3,800.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
3,900.00	0.00	0.00	3,900.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
4,000.00	0.00	0.00	4,000.00	0.00	0.00	463,077.20	832,542.60	32.269560	-103.391178
4,100.00	1.25	215.33	4,099.99	-0.89	-0.63	463,076.31	832,541.97	32.269557	-103.391180
4,200.00	2.50	215.33	4,199.94	-3.56	-2.52	463,073.64	832,540.08	32.269550	-103.391186
4,300.00	3.75	215.33	4,299.79	-8.01	-5.68	463,069.19	832,536.92	32.269538	-103.391196
4,351.60	4.40	215.33	4,351.26	-11.00	-7.79	463,066.20	832,534.80	32.269530	-103.391203
4,400.00	4.40	215.33	4,399.51	-14.02	-9.94	463,063.18	832,532.66	32.269521	-103.391210
4,500.00	4.40	215.33	4,499.22	-20.27	-14.37	463,056.93	832,528.23	32.269504	-103.391225
4,600.00	4.40	215.33	4,598.92	-26.53	-18.80	463,050.67	832,523.80	32.269487	-103.391239
4,700.00	4.40	215.33	4,698.63	-32.78	-23.23	463,044.42	832,519.36	32.269470	-103.391254
4,800.00	4.40	215.33	4,798.34	-39.03	-27.67	463,038.17	832,514.93	32.269453	-103.391268
4,900.00	4.40	215.33	4,898.04	-45.28	-32.10	463,031.92	832,510.50	32.269436	-103.391283
5,000.00	4.40	215.33	4,997.75	-51.53	-36.53	463,025.67	832,506.07	32.269419	-103.391297
5,100.00	4.40	215.33	5,097.45	-57.78	-40.96	463,019.42	832,501.64	32.269402	-103.391312
5,200.00	4.40	215.33	5,197.16	-64.04	-45.39	463,013.16	832,497.21	32.269385	-103.391326
5,300.00	4.40	215.33	5,296.87	-70.29	-49.82	463,006.91	832,492.77	32.269368	-103.391341

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 29-20 Fed 2H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3453.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3453.20ft
Site:	Sec 29-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 29-20 Fed 2H	**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	4.40	215.33	5,396.57	-76.54	-54.26	463,000.66	832,488.34	32.269351	-103.391355
5,500.00	4.40	215.33	5,496.28	-82.79	-58.69	462,994.41	832,483.91	32.269334	-103.391370
5,600.00	4.40	215.33	5,595.98	-89.04	-63.12	462,988.16	832,479.48	32.269317	-103.391384
5,700.00	4.40	215.33	5,695.69	-95.30	-67.55	462,981.90	832,475.05	32.269299	-103.391399
5,800.00	4.40	215.33	5,795.40	-101.55	-71.98	462,975.65	832,470.62	32.269282	-103.391413
5,900.00	4.40	215.33	5,895.10	-107.80	-76.42	462,969.40	832,466.18	32.269265	-103.391428
6,000.00	4.40	215.33	5,994.81	-114.05	-80.85	462,963.15	832,461.75	32.269248	-103.391442
6,100.00	4.40	215.33	6,094.51	-120.30	-85.28	462,956.90	832,457.32	32.269231	-103.391457
6,200.00	4.40	215.33	6,194.22	-126.56	-89.71	462,950.65	832,452.89	32.269214	-103.391471
6,300.00	4.40	215.33	6,293.93	-132.81	-94.14	462,944.39	832,448.46	32.269197	-103.391486
6,400.00	4.40	215.33	6,393.63	-139.06	-98.57	462,938.14	832,444.03	32.269180	-103.391500
6,500.00	4.40	215.33	6,493.34	-145.31	-103.01	462,931.89	832,439.59	32.269163	-103.391515
6,600.00	4.40	215.33	6,593.04	-151.56	-107.44	462,925.64	832,435.16	32.269146	-103.391530
6,700.00	4.40	215.33	6,692.75	-157.81	-111.87	462,919.39	832,430.73	32.269129	-103.391544
6,800.00	4.40	215.33	6,792.46	-164.07	-116.30	462,913.13	832,426.30	32.269112	-103.391559
6,900.00	4.40	215.33	6,892.16	-170.32	-120.73	462,906.88	832,421.87	32.269095	-103.391573
7,000.00	4.40	215.33	6,991.87	-176.57	-125.16	462,900.63	832,417.44	32.269077	-103.391588
7,100.00	4.40	215.33	7,091.57	-182.82	-129.60	462,894.38	832,413.00	32.269060	-103.391602
7,200.00	4.40	215.33	7,191.28	-189.07	-134.03	462,888.13	832,408.57	32.269043	-103.391617
7,300.00	4.40	215.33	7,290.99	-195.33	-138.46	462,881.87	832,404.14	32.269026	-103.391631
7,400.00	4.40	215.33	7,390.69	-201.58	-142.89	462,875.62	832,399.71	32.269009	-103.391646
7,500.00	4.40	215.33	7,490.40	-207.83	-147.32	462,869.37	832,395.28	32.268992	-103.391660
7,600.00	4.40	215.33	7,590.10	-214.08	-151.75	462,863.12	832,390.84	32.268975	-103.391675
7,700.00	4.40	215.33	7,689.81	-220.33	-156.19	462,856.87	832,386.41	32.268958	-103.391689
7,800.00	4.40	215.33	7,789.52	-226.59	-160.62	462,850.62	832,381.98	32.268941	-103.391704
7,900.00	4.40	215.33	7,889.22	-232.84	-165.05	462,844.36	832,377.55	32.268924	-103.391718
8,000.00	4.40	215.33	7,988.93	-239.09	-169.48	462,838.11	832,373.12	32.268907	-103.391733
8,100.00	4.40	215.33	8,088.63	-245.34	-173.91	462,831.86	832,368.69	32.268890	-103.391747
8,200.00	4.40	215.33	8,188.34	-251.59	-178.34	462,825.61	832,364.25	32.268873	-103.391762
8,300.00	4.40	215.33	8,288.04	-257.84	-182.78	462,819.36	832,359.82	32.268856	-103.391776
8,400.00	4.40	215.33	8,387.75	-264.10	-187.21	462,813.10	832,355.39	32.268838	-103.391791
8,500.00	4.40	215.33	8,487.46	-270.35	-191.64	462,806.85	832,350.96	32.268821	-103.391805
8,600.00	4.40	215.33	8,587.16	-276.60	-196.07	462,800.60	832,346.53	32.268804	-103.391820
8,700.00	4.40	215.33	8,686.87	-282.85	-200.50	462,794.35	832,342.10	32.268787	-103.391834
8,800.00	4.40	215.33	8,786.57	-289.10	-204.93	462,788.10	832,337.66	32.268770	-103.391849
8,900.00	4.40	215.33	8,886.28	-295.36	-209.37	462,781.85	832,333.23	32.268753	-103.391863
9,000.00	4.40	215.33	8,985.99	-301.61	-213.80	462,775.59	832,328.80	32.268736	-103.391878
9,100.00	4.40	215.33	9,085.69	-307.86	-218.23	462,769.34	832,324.37	32.268719	-103.391892
9,200.00	4.40	215.33	9,185.40	-314.11	-222.66	462,763.09	832,319.94	32.268702	-103.391907
9,300.00	4.40	215.33	9,285.10	-320.36	-227.09	462,756.84	832,315.51	32.268685	-103.391921
9,400.00	4.40	215.33	9,384.81	-326.62	-231.52	462,750.59	832,311.07	32.268668	-103.391936
9,500.00	4.40	215.33	9,484.52	-332.87	-235.96	462,744.33	832,306.64	32.268651	-103.391950
9,600.00	4.40	215.33	9,584.22	-339.12	-240.39	462,738.08	832,302.21	32.268634	-103.391965
9,700.00	4.40	215.33	9,683.93	-345.37	-244.82	462,731.83	832,297.78	32.268616	-103.391979
9,800.00	4.40	215.33	9,783.63	-351.62	-249.25	462,725.58	832,293.35	32.268599	-103.391994
9,900.00	4.40	215.33	9,883.34	-357.87	-253.68	462,719.33	832,288.92	32.268582	-103.392008
10,000.00	4.40	215.33	9,983.05	-364.13	-258.11	462,713.07	832,284.48	32.268565	-103.392023
10,100.00	4.40	215.33	10,082.75	-370.38	-262.55	462,706.82	832,280.05	32.268548	-103.392037
10,200.00	4.40	215.33	10,182.46	-376.63	-266.98	462,700.57	832,275.62	32.268531	-103.392052
10,300.00	4.40	215.33	10,282.16	-382.88	-271.41	462,694.32	832,271.19	32.268514	-103.392067
10,347.26	4.40	215.33	10,329.28	-385.84	-273.50	462,691.36	832,269.09	32.268506	-103.392073
10,400.00	3.60	215.33	10,381.90	-388.84	-275.63	462,688.36	832,266.97	32.268498	-103.392080
10,500.00	2.10	215.33	10,481.77	-392.90	-278.51	462,684.30	832,264.09	32.268487	-103.392090
10,600.00	0.60	215.33	10,581.74	-394.83	-279.88	462,682.37	832,262.72	32.268481	-103.392094
10,640.26	0.00	0.00	10,622.00	-395.00	-280.00	462,682.20	832,262.60	32.268481	-103.392095

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 29-20 Fed 2H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3453.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3453.20ft
Site:	Sec 29-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 29-20 Fed 2H	**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
10,700.00	0.00	0.00	10,681.74	-395.00	-280.00	462,682.20	832,262.60	32.268481	-103.392095
10,800.00	0.00	0.00	10,781.74	-395.00	-280.00	462,682.20	832,262.60	32.268481	-103.392095
10,900.00	0.00	0.00	10,881.74	-395.00	-280.00	462,682.20	832,262.60	32.268481	-103.392095
10,990.30	0.00	0.00	10,972.04	-395.00	-280.00	462,682.20	832,262.60	32.268481	-103.392095
KOP @ 10990' MD, 50' FSL, 1880' FWL									
11,000.00	0.97	359.46	10,981.74	-394.92	-280.00	462,682.28	832,262.60	32.268481	-103.392095
11,100.00	10.97	359.46	11,081.07	-384.53	-280.10	462,692.67	832,262.50	32.268510	-103.392095
11,200.00	20.97	359.46	11,177.09	-357.05	-280.36	462,720.15	832,262.24	32.268585	-103.392095
11,231.45	24.11	359.46	11,206.13	-345.00	-280.47	462,732.20	832,262.13	32.268618	-103.392095
FTP @ 11231' MD, 100' FSL, 1880' FWL									
11,300.00	30.97	359.46	11,266.88	-313.32	-280.77	462,763.88	832,261.83	32.268705	-103.392095
11,400.00	40.97	359.46	11,347.71	-254.66	-281.32	462,822.54	832,261.28	32.268867	-103.392095
11,500.00	50.97	359.46	11,417.12	-182.86	-282.00	462,894.34	832,260.60	32.269064	-103.392095
11,600.00	60.97	359.46	11,473.01	-100.10	-282.78	462,977.10	832,259.82	32.269291	-103.392095
11,700.00	70.97	359.46	11,513.68	-8.88	-283.64	463,068.32	832,258.96	32.269542	-103.392095
11,800.00	80.97	359.46	11,537.90	88.01	-284.55	463,165.21	832,258.05	32.269809	-103.392096
11,890.30	90.00	359.46	11,545.00	177.93	-285.40	463,255.13	832,257.20	32.270056	-103.392096
11,900.00	90.00	359.46	11,545.00	187.63	-285.49	463,264.83	832,257.11	32.270082	-103.392096
12,000.00	90.00	359.46	11,545.00	287.62	-286.43	463,364.82	832,256.17	32.270357	-103.392096
12,100.00	90.00	359.46	11,545.00	387.62	-287.37	463,464.82	832,255.23	32.270632	-103.392096
12,200.00	90.00	359.46	11,545.00	487.62	-288.31	463,564.81	832,254.28	32.270907	-103.392097
12,300.00	90.00	359.46	11,545.00	587.61	-289.26	463,664.81	832,253.34	32.271182	-103.392097
12,400.00	90.00	359.46	11,545.00	687.61	-290.20	463,764.81	832,252.40	32.271457	-103.392097
12,500.00	90.00	359.46	11,545.00	787.60	-291.14	463,864.80	832,251.46	32.271732	-103.392097
12,600.00	90.00	359.46	11,545.00	887.60	-292.08	463,964.80	832,250.52	32.272006	-103.392097
12,700.00	90.00	359.46	11,545.00	987.59	-293.02	464,064.79	832,249.57	32.272281	-103.392098
12,800.00	90.00	359.46	11,545.00	1,087.59	-293.97	464,164.79	832,248.63	32.272556	-103.392098
12,900.00	90.00	359.46	11,545.00	1,187.58	-294.91	464,264.78	832,247.69	32.272831	-103.392098
13,000.00	90.00	359.46	11,545.00	1,287.58	-295.85	464,364.78	832,246.75	32.273106	-103.392098
13,100.00	90.00	359.46	11,545.00	1,387.58	-296.79	464,464.77	832,245.81	32.273381	-103.392098
13,200.00	90.00	359.46	11,545.00	1,487.57	-297.73	464,564.77	832,244.86	32.273656	-103.392099
13,300.00	90.00	359.46	11,545.00	1,587.57	-298.68	464,664.76	832,243.92	32.273930	-103.392099
13,400.00	90.00	359.46	11,545.00	1,687.56	-299.62	464,764.76	832,242.98	32.274205	-103.392099
13,500.00	90.00	359.46	11,545.00	1,787.56	-300.56	464,864.75	832,242.04	32.274480	-103.392099
13,600.00	90.00	359.46	11,545.00	1,887.55	-301.50	464,964.75	832,241.10	32.274755	-103.392099
13,700.00	90.00	359.46	11,545.00	1,987.55	-302.44	465,064.74	832,240.15	32.275030	-103.392100
13,800.00	90.00	359.46	11,545.00	2,087.54	-303.39	465,164.74	832,239.21	32.275305	-103.392100
13,900.00	90.00	359.46	11,545.00	2,187.54	-304.33	465,264.74	832,238.27	32.275580	-103.392100
14,000.00	90.00	359.46	11,545.00	2,287.54	-305.27	465,364.73	832,237.33	32.275854	-103.392100
14,100.00	90.00	359.46	11,545.00	2,387.53	-306.21	465,464.73	832,236.39	32.276129	-103.392100
14,200.00	90.00	359.46	11,545.00	2,487.53	-307.15	465,564.72	832,235.44	32.276404	-103.392101
14,300.00	90.00	359.46	11,545.00	2,587.52	-308.10	465,664.72	832,234.50	32.276679	-103.392101
14,400.00	90.00	359.46	11,545.00	2,687.52	-309.04	465,764.71	832,233.56	32.276954	-103.392101
14,500.00	90.00	359.46	11,545.00	2,787.51	-309.98	465,864.71	832,232.62	32.277229	-103.392101
14,600.00	90.00	359.46	11,545.00	2,887.51	-310.92	465,964.70	832,231.68	32.277504	-103.392102
14,700.00	90.00	359.46	11,545.00	2,987.50	-311.86	466,064.70	832,230.73	32.277778	-103.392102
14,800.00	90.00	359.46	11,545.00	3,087.50	-312.81	466,164.69	832,229.79	32.278053	-103.392102
14,900.00	90.00	359.46	11,545.00	3,187.50	-313.75	466,264.69	832,228.85	32.278328	-103.392102
15,000.00	90.00	359.46	11,545.00	3,287.49	-314.69	466,364.68	832,227.91	32.278603	-103.392102
15,100.00	90.00	359.46	11,545.00	3,387.49	-315.63	466,464.68	832,226.97	32.278878	-103.392103
15,200.00	90.00	359.46	11,545.00	3,487.48	-316.57	466,564.68	832,226.02	32.279153	-103.392103
15,300.00	90.00	359.46	11,545.00	3,587.48	-317.52	466,664.67	832,225.08	32.279428	-103.392103
15,400.00	90.00	359.46	11,545.00	3,687.47	-318.46	466,764.67	832,224.14	32.279703	-103.392103
15,500.00	90.00	359.46	11,545.00	3,787.47	-319.40	466,864.66	832,223.20	32.279977	-103.392103

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 29-20 Fed 2H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3453.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3453.20ft
Site:	Sec 29-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 29-20 Fed 2H	**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
15,600.00	90.00	359.46	11,545.00	3,887.46	-320.34	466,964.66	832,222.26	32.280252	-103.392104
15,700.00	90.00	359.46	11,545.00	3,987.46	-321.28	467,064.65	832,221.31	32.280527	-103.392104
15,800.00	90.00	359.46	11,545.00	4,087.46	-322.23	467,164.65	832,220.37	32.280802	-103.392104
15,900.00	90.00	359.46	11,545.00	4,187.45	-323.17	467,264.64	832,219.43	32.281077	-103.392104
16,000.00	90.00	359.46	11,545.00	4,287.45	-324.11	467,364.64	832,218.49	32.281352	-103.392104
16,100.00	90.00	359.46	11,545.00	4,387.44	-325.05	467,464.63	832,217.55	32.281627	-103.392105
16,200.00	90.00	359.46	11,545.00	4,487.44	-325.99	467,564.63	832,216.61	32.281901	-103.392105
16,300.00	90.00	359.46	11,545.00	4,587.43	-326.94	467,664.62	832,215.66	32.282176	-103.392105
16,400.00	90.00	359.46	11,545.00	4,687.43	-327.88	467,764.62	832,214.72	32.282451	-103.392105
16,500.00	90.00	359.46	11,545.00	4,787.42	-328.82	467,864.62	832,213.78	32.282726	-103.392106
16,600.00	90.00	359.46	11,545.00	4,887.42	-329.76	467,964.61	832,212.84	32.283001	-103.392106
16,700.00	90.00	359.46	11,545.00	4,987.42	-330.70	468,064.61	832,211.90	32.283276	-103.392106
16,800.00	90.00	359.46	11,545.00	5,087.41	-331.65	468,164.60	832,210.95	32.283551	-103.392106
16,900.00	90.00	359.46	11,545.00	5,187.41	-332.59	468,264.60	832,210.01	32.283825	-103.392106
17,000.00	90.00	359.46	11,545.00	5,287.40	-333.53	468,364.59	832,209.07	32.284100	-103.392107
17,100.00	90.00	359.46	11,545.00	5,387.40	-334.47	468,464.59	832,208.13	32.284375	-103.392107
17,200.00	90.00	359.46	11,545.00	5,487.39	-335.41	468,564.58	832,207.19	32.284650	-103.392107
17,300.00	90.00	359.46	11,545.00	5,587.39	-336.36	468,664.58	832,206.24	32.284925	-103.392107
17,400.00	90.00	359.46	11,545.00	5,687.38	-337.30	468,764.57	832,205.30	32.285200	-103.392107
17,500.00	90.00	359.46	11,545.00	5,787.38	-338.24	468,864.57	832,204.36	32.285475	-103.392108
17,600.00	90.00	359.46	11,545.00	5,887.38	-339.18	468,964.56	832,203.42	32.285749	-103.392108
17,700.00	90.00	359.46	11,545.00	5,987.37	-340.12	469,064.56	832,202.48	32.286024	-103.392108
17,800.00	90.00	359.46	11,545.00	6,087.37	-341.07	469,164.55	832,201.53	32.286299	-103.392108
17,900.00	90.00	359.46	11,545.00	6,187.36	-342.01	469,264.55	832,200.59	32.286574	-103.392108
18,000.00	90.00	359.46	11,545.00	6,287.36	-342.95	469,364.55	832,199.65	32.286849	-103.392109
18,100.00	90.00	359.46	11,545.00	6,387.35	-343.89	469,464.54	832,198.71	32.287124	-103.392109
18,200.00	90.00	359.46	11,545.00	6,487.35	-344.83	469,564.54	832,197.77	32.287399	-103.392109
18,300.00	90.00	359.46	11,545.00	6,587.34	-345.78	469,664.53	832,196.82	32.287673	-103.392109
18,400.00	90.00	359.46	11,545.00	6,687.34	-346.72	469,764.53	832,195.88	32.287948	-103.392109
18,500.00	90.00	359.46	11,545.00	6,787.34	-347.66	469,864.52	832,194.94	32.288223	-103.392110
18,600.00	90.00	359.46	11,545.00	6,887.33	-348.60	469,964.52	832,194.00	32.288498	-103.392110
18,700.00	90.00	359.46	11,545.00	6,987.33	-349.54	470,064.51	832,193.06	32.288773	-103.392110
18,800.00	90.00	359.46	11,545.00	7,087.32	-350.49	470,164.51	832,192.11	32.289048	-103.392110
18,900.00	90.00	359.46	11,545.00	7,187.32	-351.43	470,264.50	832,191.17	32.289323	-103.392111
19,000.00	90.00	359.46	11,545.00	7,287.31	-352.37	470,364.50	832,190.23	32.289598	-103.392111
19,100.00	90.00	359.46	11,545.00	7,387.31	-353.31	470,464.49	832,189.29	32.289872	-103.392111
19,200.00	90.00	359.46	11,545.00	7,487.30	-354.25	470,564.49	832,188.35	32.290147	-103.392111
19,300.00	90.00	359.46	11,545.00	7,587.30	-355.20	470,664.49	832,187.40	32.290422	-103.392111
19,400.00	90.00	359.46	11,545.00	7,687.30	-356.14	470,764.48	832,186.46	32.290697	-103.392112
19,500.00	90.00	359.46	11,545.00	7,787.29	-357.08	470,864.48	832,185.52	32.290972	-103.392112
19,600.00	90.00	359.46	11,545.00	7,887.29	-358.02	470,964.47	832,184.58	32.291247	-103.392112
19,700.00	90.00	359.46	11,545.00	7,987.28	-358.96	471,064.47	832,183.64	32.291522	-103.392112
19,800.00	90.00	359.46	11,545.00	8,087.28	-359.91	471,164.46	832,182.69	32.291796	-103.392112
19,900.00	90.00	359.46	11,545.00	8,187.27	-360.85	471,264.46	832,181.75	32.292071	-103.392113
20,000.00	90.00	359.46	11,545.00	8,287.27	-361.79	471,364.45	832,180.81	32.292346	-103.392113
20,100.00	90.00	359.46	11,545.00	8,387.26	-362.73	471,464.45	832,179.87	32.292621	-103.392113
20,200.00	90.00	359.46	11,545.00	8,487.26	-363.67	471,564.44	832,178.93	32.292896	-103.392113
20,300.00	90.00	359.46	11,545.00	8,587.26	-364.62	471,664.44	832,177.98	32.293171	-103.392113
20,400.00	90.00	359.46	11,545.00	8,687.25	-365.56	471,764.43	832,177.04	32.293446	-103.392114
20,500.00	90.00	359.46	11,545.00	8,787.25	-366.50	471,864.43	832,176.10	32.293720	-103.392114
20,600.00	90.00	359.46	11,545.00	8,887.24	-367.44	471,964.43	832,175.16	32.293995	-103.392114
20,700.00	90.00	359.46	11,545.00	8,987.24	-368.38	472,064.42	832,174.22	32.294270	-103.392114
20,800.00	90.00	359.46	11,545.00	9,087.23	-369.33	472,164.42	832,173.27	32.294545	-103.392114
20,900.00	90.00	359.46	11,545.00	9,187.23	-370.27	472,264.41	832,172.33	32.294820	-103.392115
21,000.00	90.00	359.46	11,545.00	9,287.22	-371.21	472,364.41	832,171.39	32.295095	-103.392115

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 29-20 Fed 2H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3453.20ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3453.20ft
Site:	Sec 29-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 29-20 Fed 2H	**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
21,100.00	90.00	359.46	11,545.00	9,387.22	-372.15	472,464.40	832,170.45	32.295370	-103.392115
21,200.00	90.00	359.46	11,545.00	9,487.22	-373.09	472,564.40	832,169.51	32.295644	-103.392115
21,300.00	90.00	359.46	11,545.00	9,587.21	-374.04	472,664.39	832,168.56	32.295919	-103.392116
21,400.00	90.00	359.46	11,545.00	9,687.21	-374.98	472,764.39	832,167.62	32.296194	-103.392116
21,500.00	90.00	359.46	11,545.00	9,787.20	-375.92	472,864.38	832,166.68	32.296469	-103.392116
21,600.00	90.00	359.46	11,545.00	9,887.20	-376.86	472,964.38	832,165.74	32.296744	-103.392116
21,700.00	90.00	359.46	11,545.00	9,987.19	-377.80	473,064.37	832,164.80	32.297019	-103.392116
21,725.82	90.00	359.46	11,545.00	10,013.01	-378.05	473,090.19	832,164.55	32.297090	-103.392116
LTP @ 21726' MD, 100' FNL, 1880' FWL									
21,800.00	90.00	359.46	11,545.00	10,087.19	-378.75	473,164.37	832,163.85	32.297294	-103.392117
21,805.82	90.00	359.46	11,545.00	10,093.01	-378.80	473,170.19	832,163.80	32.297310	-103.392117
PBHL; 20' FNL, 1880' FWL									
21,805.83	90.00	359.46	11,545.00	10,093.02	-378.80	473,170.20	832,163.80	32.297310	-103.392117

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Red Bull 29-20 F	0.00	0.00	0.00	10,093.02	-378.80	473,170.20	832,163.80	32.297310	-103.392117
- plan misses target center by 10100.13ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
10,990.30	10,972.04	-395.00	-280.00	KOP @ 10990' MD, 50' FSL, 1880' FWL
11,231.45	11,206.13	-345.00	-280.47	FTP @ 11231' MD, 100' FSL, 1880' FWL
21,725.82	11,545.00	10,013.01	-378.05	LTP @ 21726' MD, 100' FNL, 1880' FWL
21,805.82	11,545.00	10,093.01	-378.80	PBHL; 20' FNL, 1880' FWL

Devon Energy

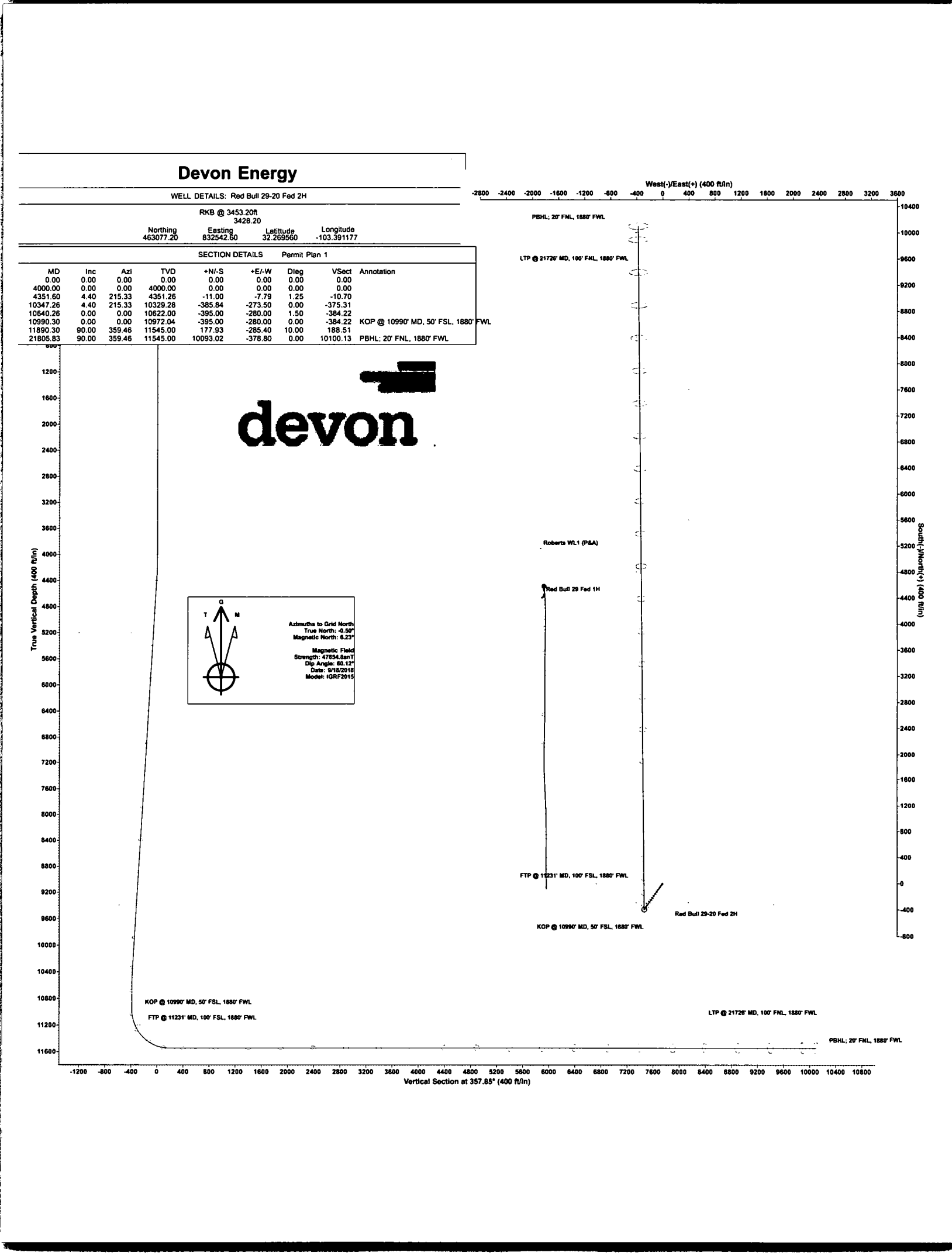
WELL DETAILS: Red Bull 29-20 Fed 2H

RKB @ 3453.20ft
3428.20

Northing	Easting	Latitude	Longitude
463077.20	832542.60	32.269560	-103.391177

SECTION DETAILS Permit Plan 1

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	
4351.60	4.40	215.33	4351.26	-11.00	-7.79	1.25	-10.70	
10347.26	4.40	215.33	10329.28	-385.84	-273.50	0.00	-375.31	
10640.26	0.00	0.00	10622.00	-395.00	-280.00	1.50	-384.22	
10990.30	0.00	0.00	10972.04	-395.00	-280.00	0.00	-384.22	KOP @ 10990' MD, 50' FSL, 1880' FWL
11890.30	90.00	359.46	11545.00	177.93	-285.40	10.00	188.51	
21805.83	90.00	359.46	11545.00	10093.02	-378.80	0.00	10100.13	PBHL; 20' FNL, 1880' FWL



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:

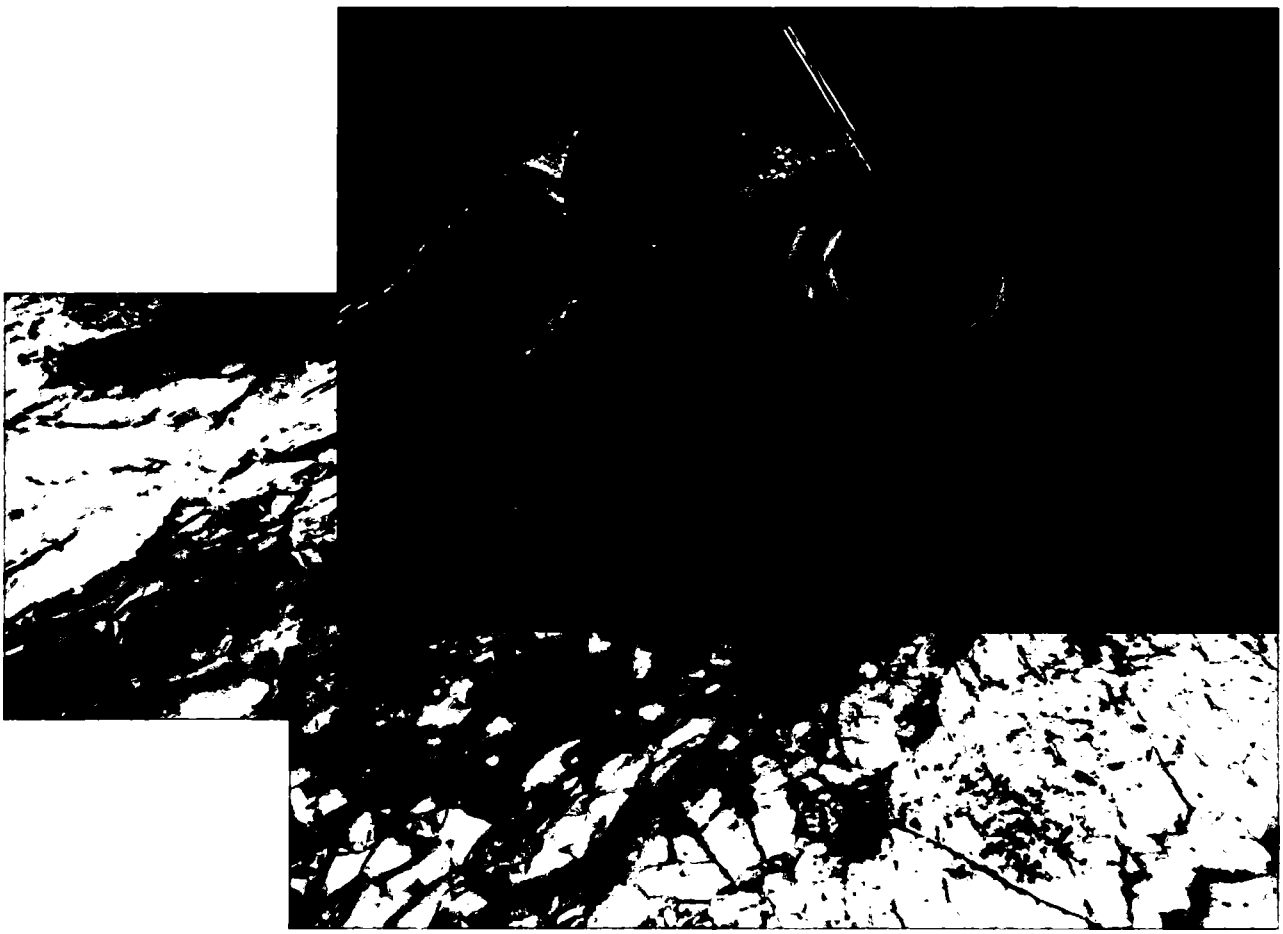
1. Potential utilization of a spudder rig to pre-set surface casing.

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 nippled 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.

devon

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.

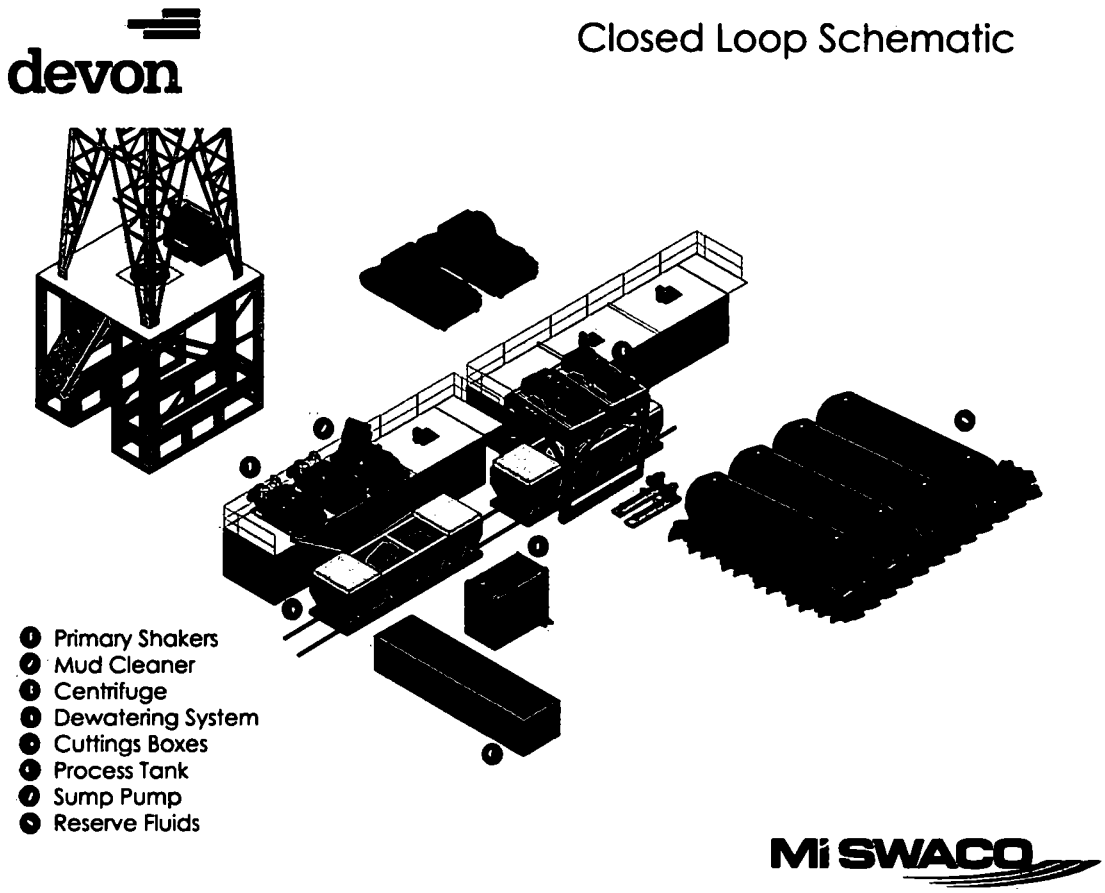
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.



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

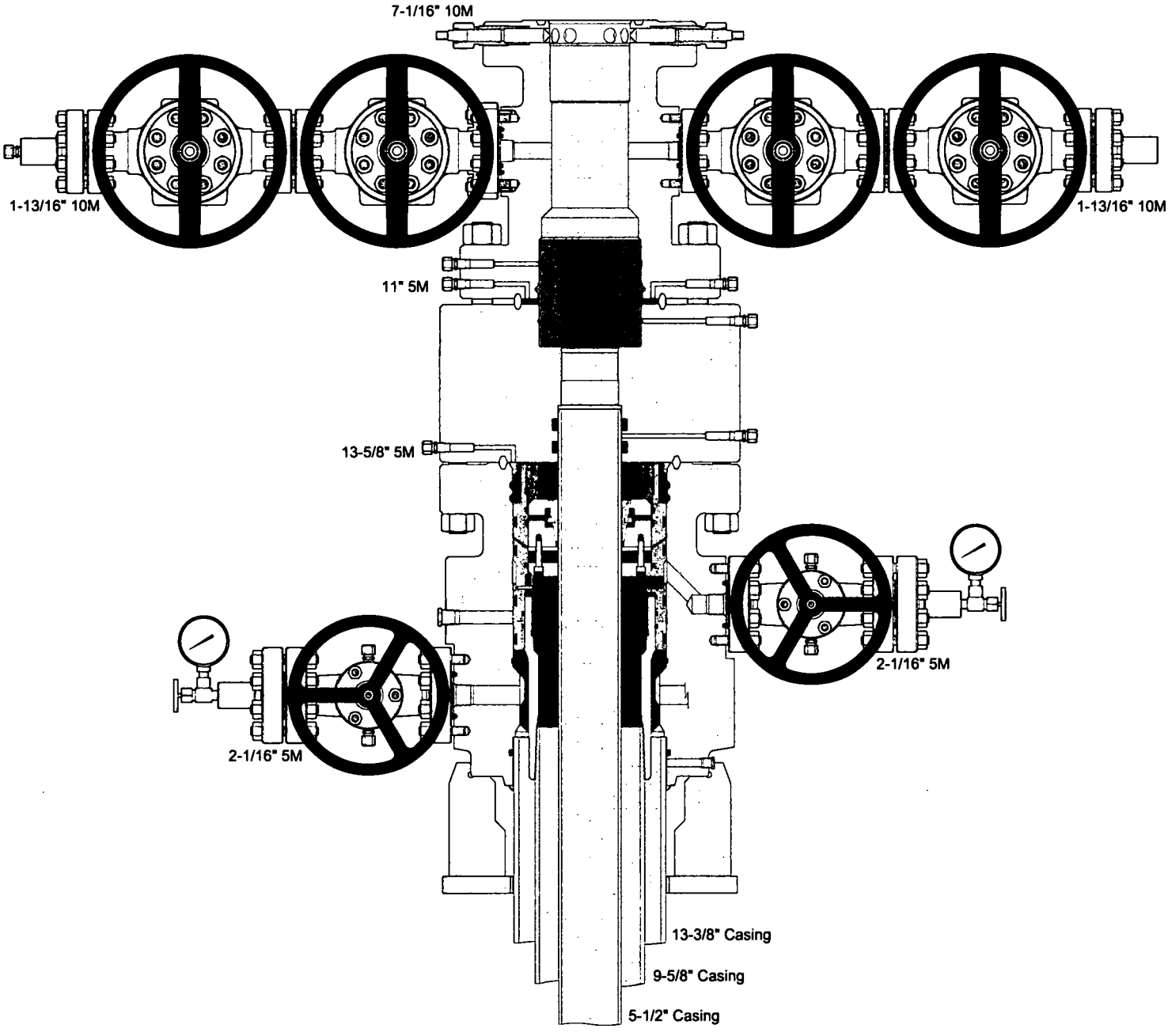
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

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.

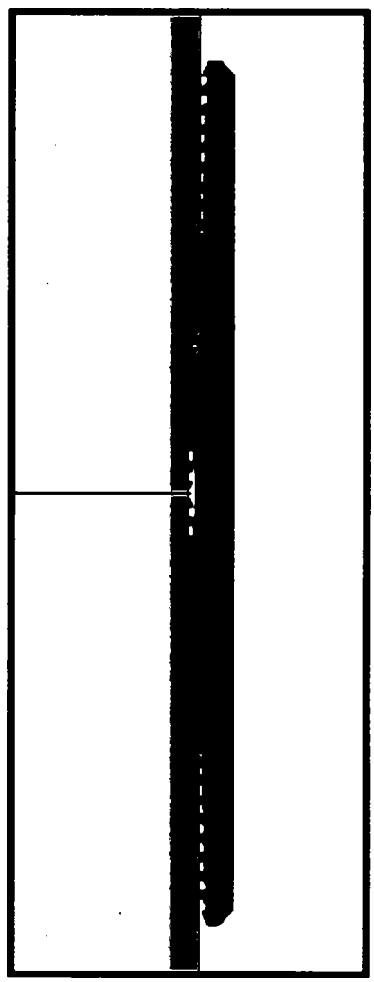

7-1/16" 10M
1-13/16" 10M
1-13/16" 10M
11" 5M
13-5/8" 5M
2-1/16" 5M
2-1/16" 5M
13-3/8" Casing
9-5/8" Casing
5-1/2" Casing

Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing	5-1/2 in	17.00 lb/ft (0.304 in)	P-110RY
standard			

VAM-USA
4424 W. Sam Houston Pkwy. Suite 150
Houston, TX 77041
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com

	Material
P-110RY	Grade
110,000	Minimum Yield Strength (psi)
125,000	Minimum Ultimate Strength (psi)
	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in)
4.892	Nominal Pipe Body I.D.(in)
0.304	Nominal Wall Thickness (in)
17.00	Nominal Weight (lbs/ft)
16.89	Plain End Weight (lbs/ft)
4.962	Nominal Pipe Body Area (sq in)
	Pipe Body Performance Properties
546,000	Minimum Pipe Body Yield Strength (lbs)
7,480	Minimum Collapse Pressure (psi)
10,640	Minimum Internal Yield Pressure (psi)
9,700	Hydrostatic Test Pressure (psi)
	Connection Dimensions
6.050	Connection O.D. (in)
4.892	Connection I.D. (in)
4.767	Connection Drift Diameter (in)
4.13	Make-up Loss (in)
4.962	Critical Area (sq in)
100.0	Joint Efficiency (%)
	Connection Performance Properties
546,000	Joint Strength (lbs)
22,940	Reference String Length (ft) 1.4 Design Factor
568,000	API Joint Strength (lbs)
546,000	Compression Rating (lbs)
7,480	API Collapse Pressure Rating (psi)
10,640	API Internal Pressure Resistance (psi)
91.7	Maximum Uniaxial Bend Rating [degrees/100 ft]
	Appoximated Field End Torque Values
12,000	Minimum Final Torque (ft-lbs)
13,800	Maximum Final Torque (ft-lbs)
15,500	Connection Yield Torque (ft-lbs)



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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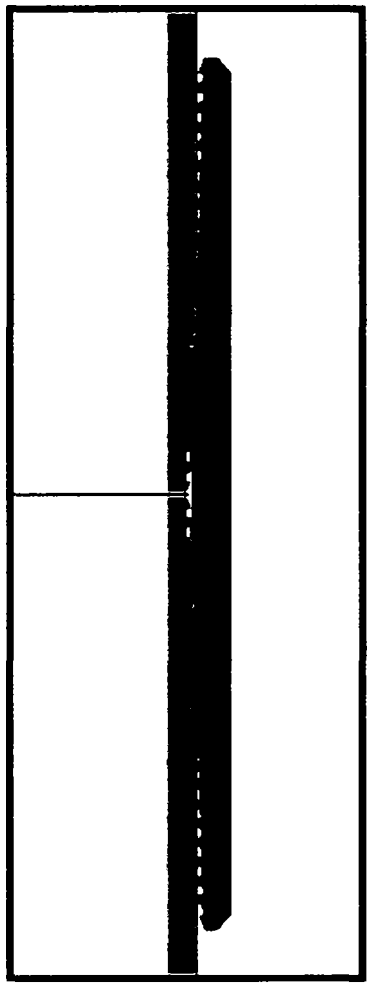
DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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U. S. Steel Tubular Products

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9.625" 40.00lbs/ft (0.395" Wall) J55

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	9.625	10.625	10.625	10.625	in.
Wall Thickness	0.395	--	--	--	in.
Inside Diameter	8.835	8.835	8.835	8.835	in.
Standard Drift	8.679	8.679	8.679	8.679	in.
Alternate Drift	8.750	8.750	8.750	8.750	in.
Nominal Linear Weight, T&C	40.00	--	--	--	lbs/ft
Plain End Weight	38.97	--	--	--	lbs/ft
PERFORMANCE	**Pipe**	**BTC**	**LTC**	**STC**	
Minimum Collapse Pressure	2,570	2,570	2,570	2,570	psi
Minimum Internal Yield Pressure	3,950	3,950	3,950	3,950	psi
Minimum Pipe Body Yield Strength	630	--	--	--	1,000 lbs
Joint Strength	--	714	520	452	1,000 lbs
Reference Length	--	11,898	8,665	7,529	ft
MAKE-UP DATA	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	4.75	3.38	in.
Minimum Make-Up Torque	--	--	3,900	3,390	ft-lbs
Maximum Make-Up Torque	--	--	6,500	5,650	ft-lbs

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

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

U. S. Steel Tubular Products

1/8/2019 12:38:52 PM

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

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

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

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

Red Bull 29-20 Federal 2H
Sec 29-T23S-R35E
Lea County, NM

Drilling Plan

1. Geologic Formations

TVD of target	11520'	Pilot hole depth	N/A
MD at TD:	21805'	Deepest Expected fresh water:	

Formation	Depth (TVD) from KB	Hydrocarbon/Water Bearing Zones	Potential Hazard(s)
Rustler	1275	Barren	
Salado	1400	Barren	
Capitan Reef	3950	Barrenn	
Base of Salt	5250	Barren	
Delaware	5391	Oil	
Brushy	7650	Oil	
Top Bone Spring	8773	Oil	
Top 1st BSSS	9860	Oil	
Top 2nd BSSS	10370	Oil	
Top 3rd BS Lime	11100	Oil	
Landing Point	11945	Oil	

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

2. Casing Program

(3 String Primary Design)

Hole Size	Casing Interval Interval	Casing Size	Weight (lbs)	Grade	Connection	SF Collapse	SF Burst	SF Tension
17.5"	0 - 1300'	13.375"	48	H-40	STC	1.125	1.25	1.6
12.25"	0 - 5353'	9.625"	40	J-55	BTC	1.125	1.25	1.6
8.75"	0 - 21805'	5.5"	17	P110	BTC	1.125	1.25	1.6
				BLM Minimum Safety Factor		1.125	1.00	1.6 Dry
								1.8 Wet

(3 String Alternate Design)

Hole Size	Casing Interval Interval	Casing Size	Weight (lbs)	Grade	Connection	SF Collapse	SF Burst	SF Tension
17.5"	0 - 1300'	13.375"	48	H-40	STC	1.125	1.25	1.6
12.25"	0 - 5353'	9.625"	40	J-55	BTC	1.125	1.25	1.6
12.25"	5353 - 6000'	9.625"	40	HCK-55	BTC	1.125	1.25	1.6
8.75"	0 - 21805'	5.5"	17	P110	BTC	1.125	1.25	1.6
				BLM Minimum Safety Factor		1.125	1.00	1.6 Dry
								1.8 Wet

•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

	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 3rd 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 2nd 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 (3

String Primary Design)

Casing	# Sacks	Weight lb/gal	H_20 gal/sack	Yield ft^3/sack	500# Compessive Strength (hours)	Slurry Description
Surface	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS
Intermediate	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS
	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS
Production	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS
	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS	SEE AFMSS

Casing String	TOC	% Excess
Surface	0'	50%
Intermediate	0'	30%
Production	3750'	25%

(3 String Alternate Design)

Casing	# Sacks	Weight lb/gal	H_20 gal/sack	Yield ft^3/sack	500# Compessive Strength (hours)	Slurry Description
Surface	1009	14.8	6.32	1.34	6	Lead: Class C cement +0.125 lbs/sack Poly-F-Flake
Intermidiate	603	10.3	22.06	3.65	24	Lead: (50:50) Poz (Silica) 3 lbm/sk Kol-Seal, .125 lbm/sk Poly-E-Flake
	153	14.8	6.32	1.33	6	Tail: Class C cement + 0.125 lbs/sack Poly-E-Flake
Production	543	11	13.5	3.27	21	Lead: Tuned Light Cement
	2482	13.2	7.45	1.2	18	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

Casing String	TOC	% Excess
Surface	0	50%
Intermediate	0	30%
Production	5,800	25%

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	Check	Tested to:
12-1/4"	13-5/8"	5M	Annular	X	50% of working pressure
			Blind Ram		5M
			Pipe Ram		
			Double Ram	X	
			Other*		
8-3/4"	13-5/8"	5M	Annular	X	50% of working pressure
			Blind Ram		5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular	X	
			Blind Ram		
			Pipe Ram		
			Double Ram	X	
			Other*		

*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.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	1300'	Water Based Mud	8.4 - 9	28-34	N/C
1300'	5353	Saturated Brine	9 - 10.5	28-34	N/C
5353	21805'	Water Based Mud	8.5 - 9.3	28-34	N/C

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 fromTD to surface (horizontal well – vertical portion of hole). Stated logs
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud Log	KOP TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5571
Abnormal Temperature	No

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

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

8. Other facets of operation

Is this a walking operation? | Yes |

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
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 cas ng? | No |

1. Spudder rig will move in and drill surface hole.
    a. Rig will utilize fresh water based mud to drill 17½" 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 13-3/8" 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 nippled up and tested on the wellhead before drilling operations commences on each well.
    a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X	Direc tional Plan
	Other, describe

Continental CONTITECH

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

PHOENIX

QUALITY DOCUMENT

PHOENIX RUBBER INDUSTRIAL LTD.

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

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

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 552	
PURCHASER: Phoenix Beattie Co.				P.O. N°: 1519FA-871	
PHOENIX RUBBER order N°: 170466		HOSE TYPE: 3" ID		Choke and Kill Hose	
HOSE SERIAL N°: 34128		NOMINAL / ACTUAL LENGTH:		11,43 m	
W.P. 68,96 MPa	10000 psi	T.P. 103,4 MPa	15000 psi	Duration: 60	min.

Pressure test with water at ambient temperature

See attachment. (1 page)

↑ 10 mm = 10 Min.
→ 10 mm = 25 MPa

COUPLINGS

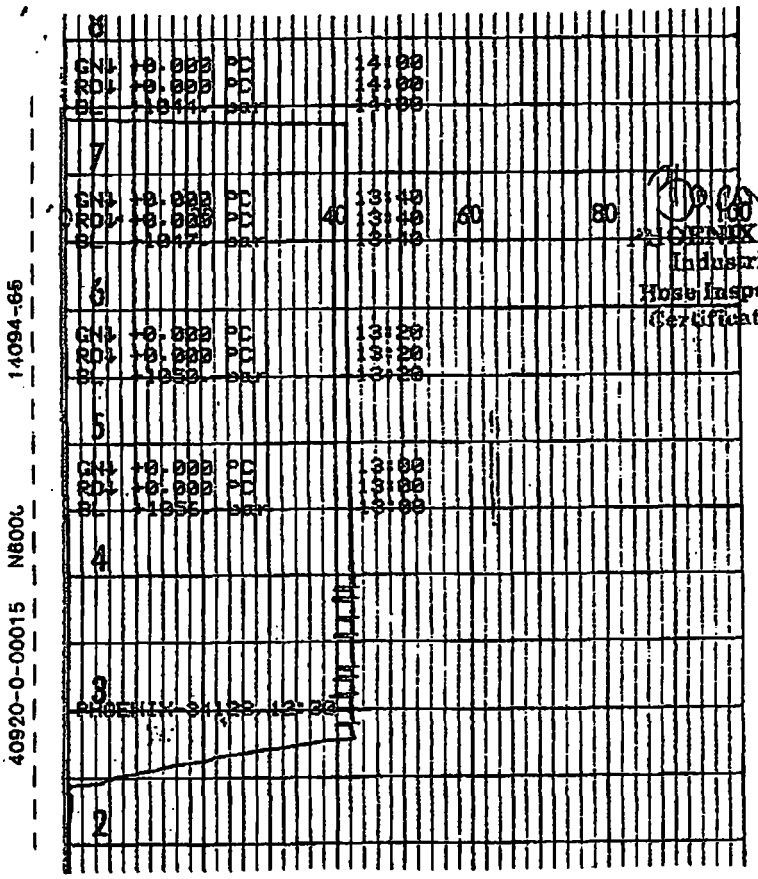
Type	Serial N°	Quality	Heat N°
3" coupling with	720 719	AISI 4130	C7626
4 1/16" Flange end		AISI 4130	47357

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 Testing Dept. PHOENIX RUBBER Q.C.



PHOENIX RUBBER
Industrial Ltd.
Hose Inspection and
Certification Dept.

VERIFIED TRUE CO.
PHOENIX RUBBER Q.C.

APD ID: 10400034509 **Submission Date:** 09/24/2018

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

Well Type: OIL WELL **Well Work Type:** Drill

[redacted]

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

RED_BULL_29_PRIMARY_ACC_ROADS_ALL_20180920123650.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:

RED_BULL_29_PRIMARY_ACC_ROADS_ALL_20180920123721.pdf

New road type: LOCAL

Length: 3532 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:

RED_BULL_29_PRIMARY_ACC_ROADS_ALL_20180920123745.pdf

Access road engineering design? YES

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

Access road engineering design attachment:

RED_BULL_29_PRIMARY_ACC_ROADS_ALL_20180920123805.pdf

Access surfacing type: GRAVEL

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: Water Drainage Ditch

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:

Red_Bull_29_20_Federal_2H_OneMileBuffer_20180924130901.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: RED BULL 29 WELLPAD 1 & CTB 2 - FIVE ATTACHMENTS - CTB PLAT, TWO BATTERY CONNECT PLATS, ELECTRIC PLAT, FLOWLINE PLAT (ALL FLOWLINES ARE BURIED)

Production Facilities map:

RED_BULL_29_CTB_2_BATCON_P_20180920123942.pdf

RED_BULL_29_CTB_2_20180920123937.pdf

RED_BULL_29_WP_1_ELE_20180920123944.pdf

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

RED_BULL_29_CTB_2_BATCON_CRUDE_20180920123940.pdf

7680008F_RED_BULL_29_WP_1_TO_CTB_2_FL_P_20190416141657.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): 270000

Source volume (acre-feet): 34.801136

Source volume (gal): 11340000

Water source and transportation map:

RED_BULL_29_20_FED_1H_2H_Water_Map_20180920124459.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:

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

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:

Red_Bull_WP_1___Caliche_Map_20180920151744.pdf

Section 7 - Methods for Handling Waste

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000 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: Various disposal locations in Lea and Eddy counties.

Waste type: PRODUCED WATER

Waste content description: Average produced BWPD over the first year of production.

Amount of waste: 1000 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Produced water will primarily be disposed of at commercial disposals connected to the Devon water system.

Waste type: FLOWBACK

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

Amount of waste: 3000 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

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

Disposal type description:

Disposal location description: Produced water will primarily be disposed of at commercial disposals connected to the Devon water system.

Waste type: DRILLING

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

Amount of waste: 2136 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.

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

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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Red_Bull_29_20_Federal_2H_Well_Layout_20180924131044.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** RED BULL 29 WELLPAD

Multiple Well Pad Number: 1

Recontouring attachment:

Red_Bull_29_20_Federal_2H_Interim_Recl_20180924131216.pdf

Drainage/Erosion control construction: All areas disturbed shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.
Drainage/Erosion control reclamation: Topsoils and subsoils 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. The disturbed area then shall be reseeded in the first favorable growing season.

Well pad proposed disturbance (acres): 8.264
Road proposed disturbance (acres): 2.3846
Powerline proposed disturbance (acres): 1.446
Pipeline proposed disturbance (acres): 1.573
Other proposed disturbance (acres): 0
Total proposed disturbance: 13.6676

Well pad interim reclamation (acres): 6.336
Road interim reclamation (acres): 0
Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0
Total interim reclamation: 6.336

Well pad long term disturbance (acres): 1.928
Road long term disturbance (acres): 2.3846
Powerline long term disturbance (acres): 1.446
Pipeline long term disturbance (acres): 1.573
Other long term disturbance (acres): 0
Total long term disturbance: 7.3316

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.

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

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?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation?

Seed harvest description:

Seed harvest description attachment:

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

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: **Last Name:**

Phone: **Email:**

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:

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

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:

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:

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

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:

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

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RED BULL 29-20 FEDERAL **Well Number:** 2H

SUPO Additional Information: See Sec 4 for Infrastructure plats.

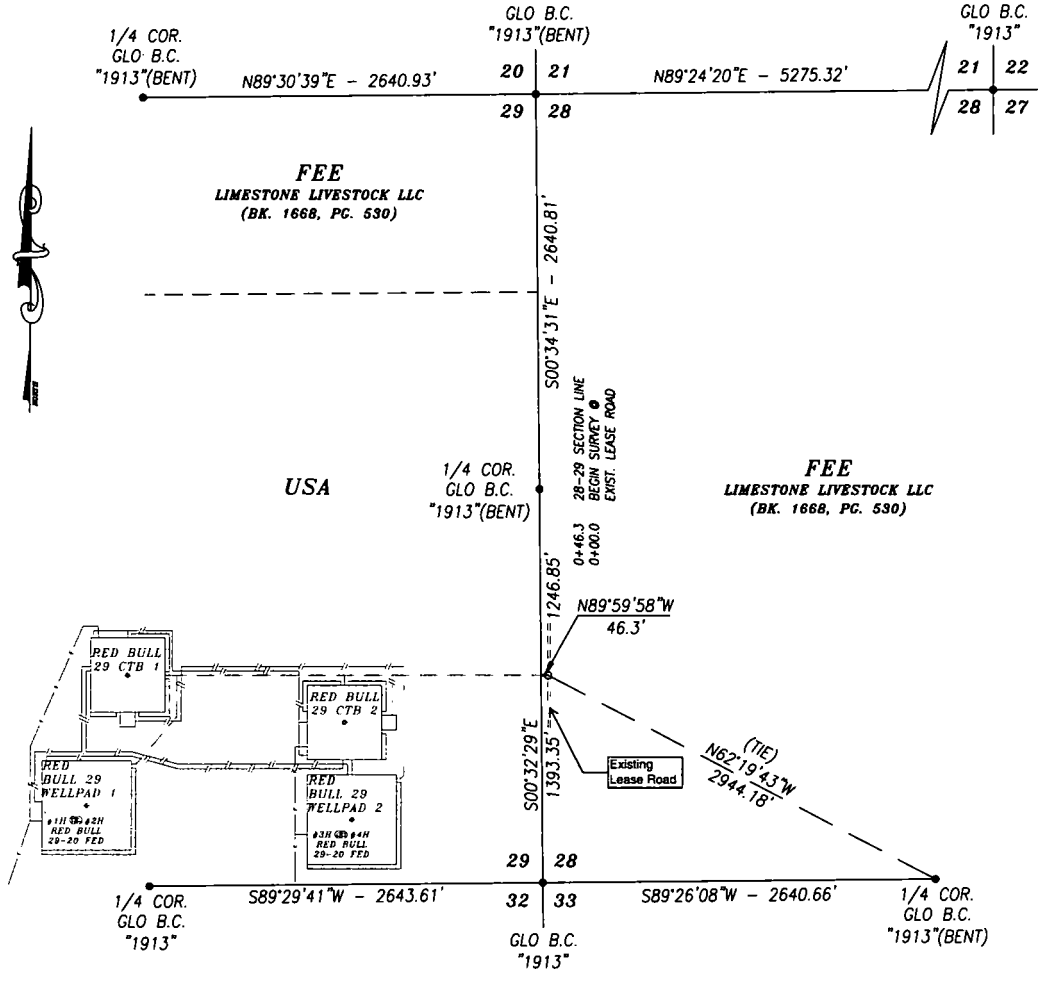
Use a previously conducted onsite? YES

Previous Onsite information: 06/25/2018

Other SUPO Attachment

ACCESS ROAD PLAT: 7680011R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
SERVICING THE "RED BULL 29 WELLPADS & CENTRAL TANK BATTERIES" IN
SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 46.3 FEET OR 2.81 RODS OR 0.009 MILES IN LENGTH CROSSING FEE LAND IN SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES N62°19'43"W 2944.18 FEET FROM THE SOUTH QUARTER CORNER; THEN N89°59'58"W 46.3 FEET TO A POINT WHICH LIES ON THE WEST LINE N00°32'29"W 1393.35 FEET FROM THE SOUTHWEST CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

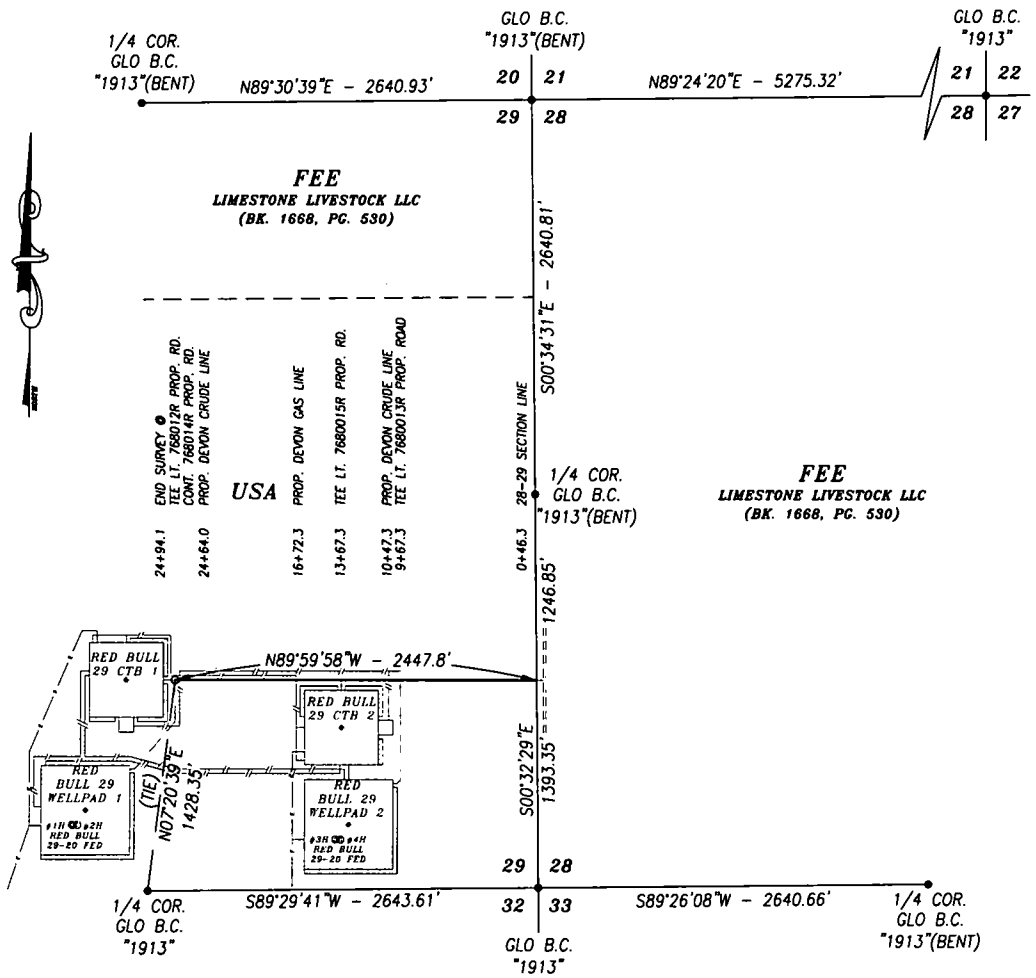
DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018		7680011R
DRAFTING DATE: AUGUST 30, 2018		PAGE 1 OF 4
APPROVED BY: CH	DRAWN BY: SP	FILE: 18-949

ACCESS ROAD PLAT: 7680011R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
SERVICING THE "RED BULL 29 WELLPADS & CENTRAL TANK BATTERIES" IN
SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2447.7 FEET OR 148.35 RODS OR 0.464 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT ON THE EAST LINE WHICH LIES N00°32'29"E 1393.35 FEET FROM THE SOUTHEAST CORNER; THEN N89°59'58"W 2447.8 FEET TO A POINT WHICH LIES N07°20'39"E 1428.35 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

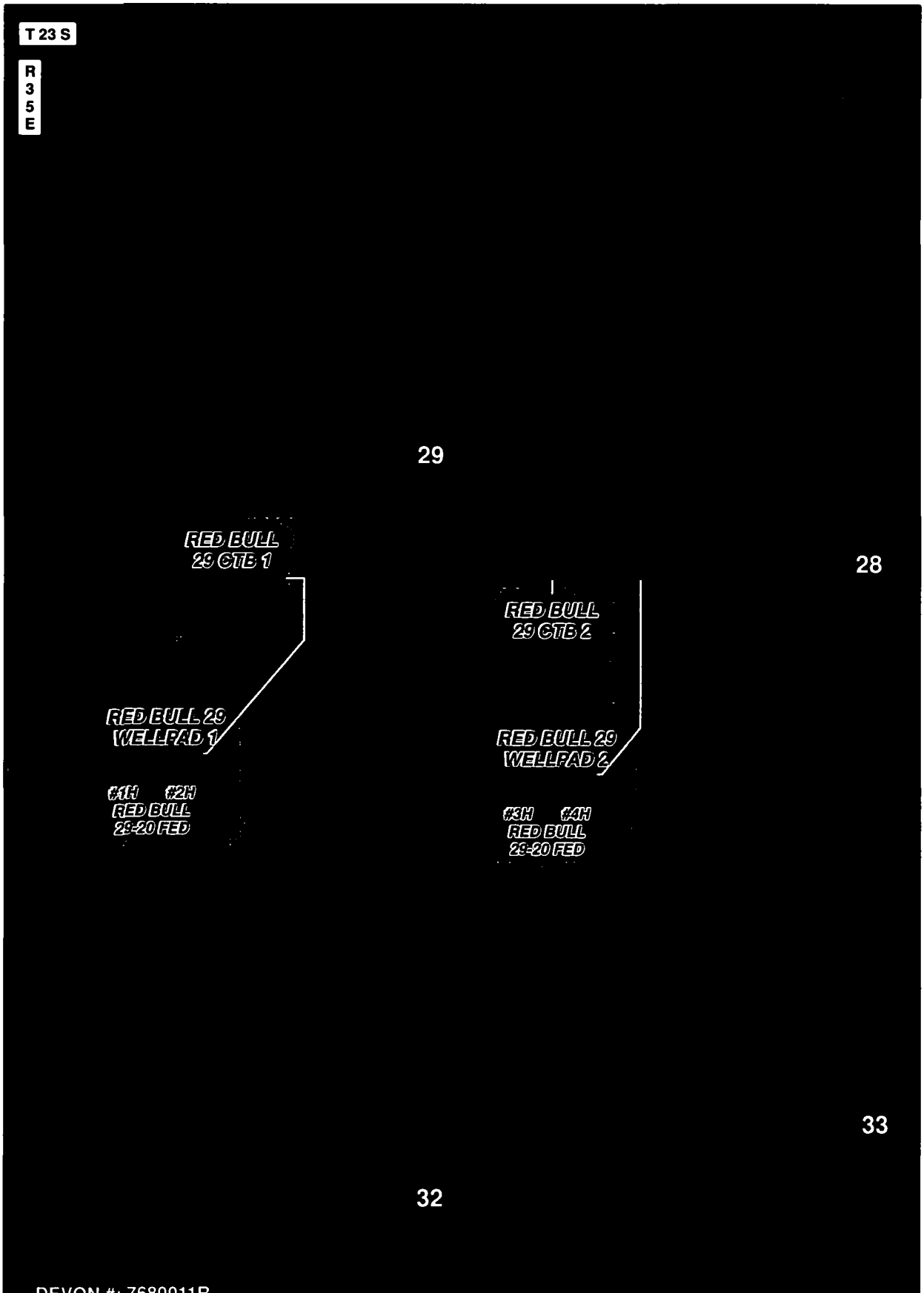
HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680011R
DRAFTING DATE: AUGUST 30, 2018	PAGE 2 OF 4
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-949



DEVON #: 7680011R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 PRIMARY ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-949		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles

1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

devon

ENERGY PRODUCTION CO. L.P.

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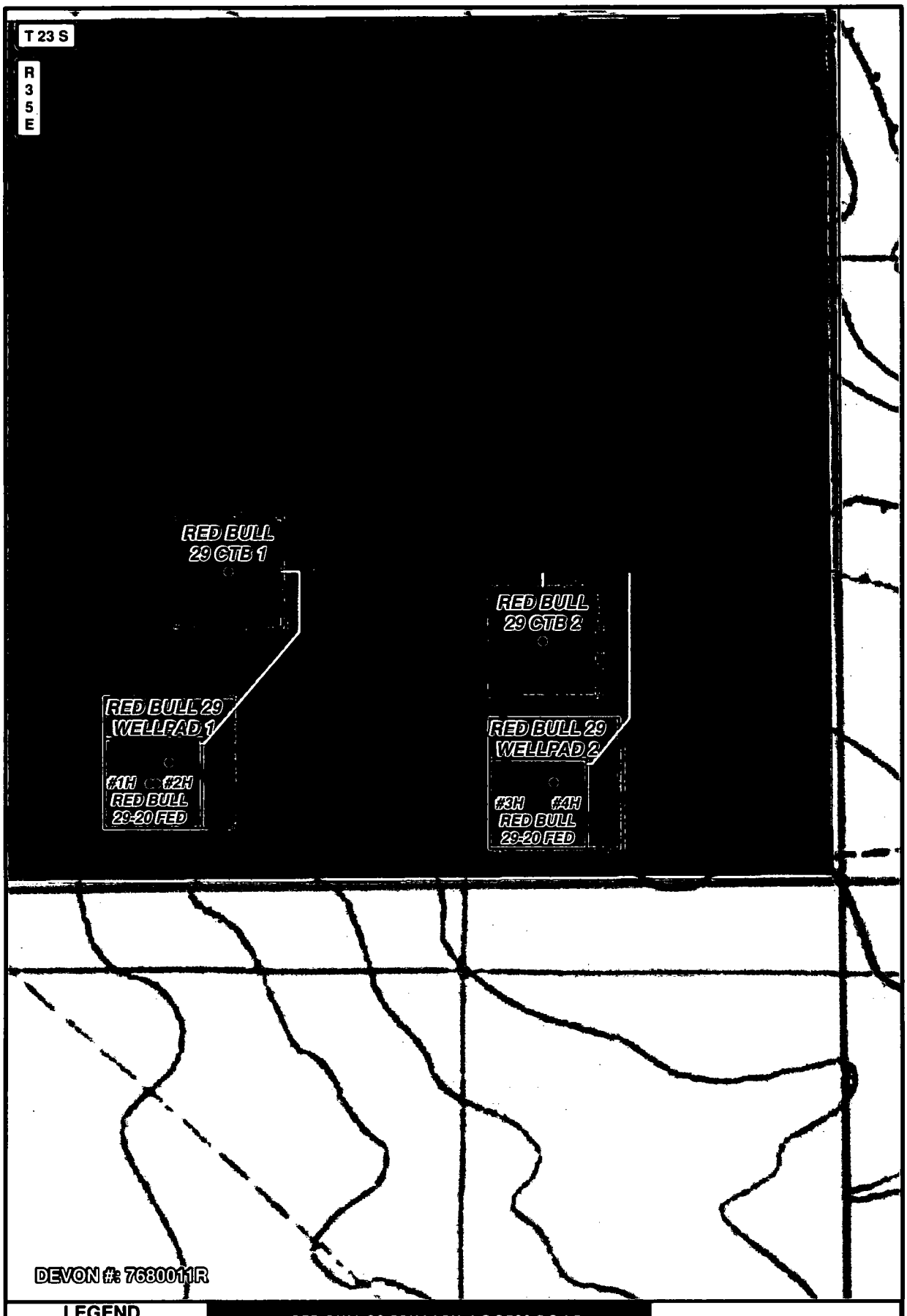
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 PRIMARY ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-949		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

devon
ENERGY PRODUCTION CO. L.P.

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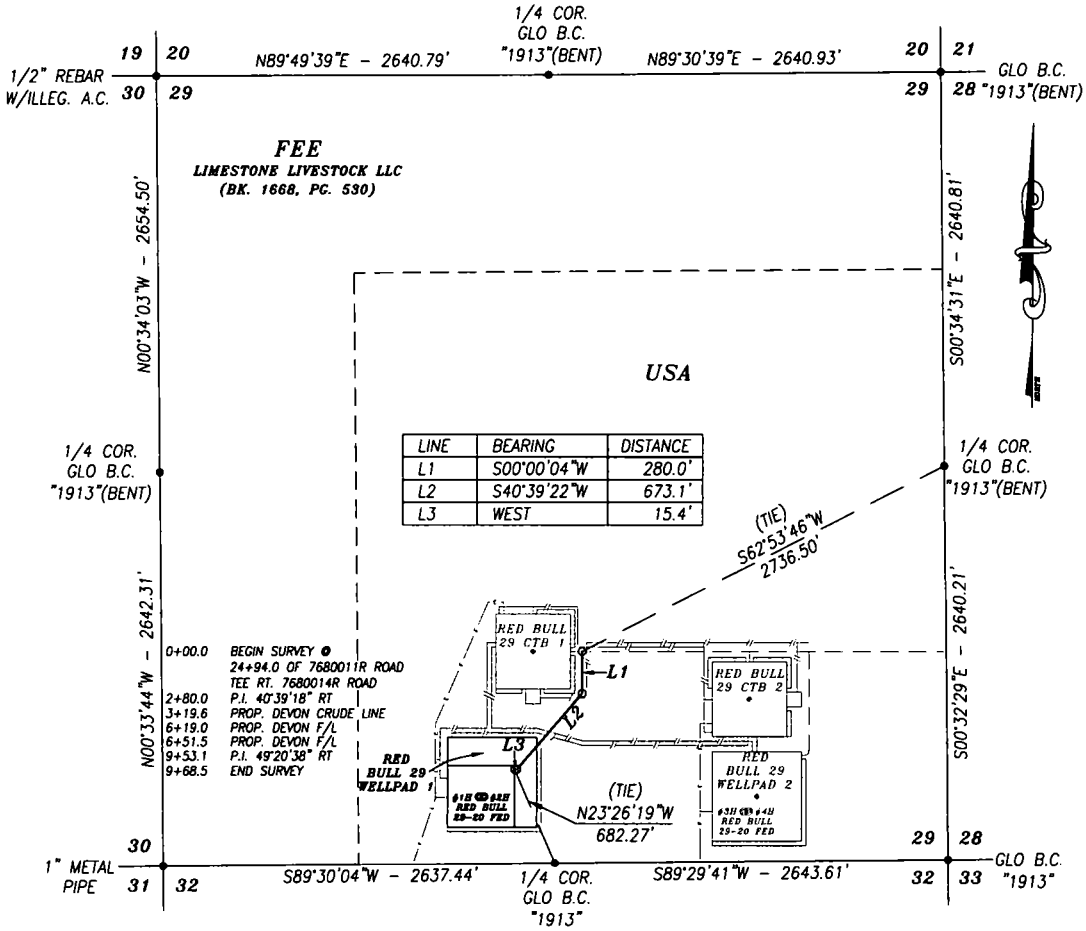
ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680012R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM THE PROPOSED "RED BULL 29 PRIMARY ACCESS ROAD" TO THE "RED BULL 29 WELLPAD #1" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



LINE	BEARING	DISTANCE
L1	S00°00'04"W	280.0'
L2	S40°39'22"W	673.1'
L3	WEST	15.4'

DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 968.5 FEET OR 58.70 RODS OR 0.183 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S62°53'46"W 2736.50 FEET FROM THE EAST QUARTER CORNER OF SAID SECTION; THEN S00°00'04"W 280.0 FEET; THEN S40°39'22"W 673.1 FEET; THEN WEST 15.4 FEET, TO A POINT WHICH LIES N23°26'19"W 682.27 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 9/13/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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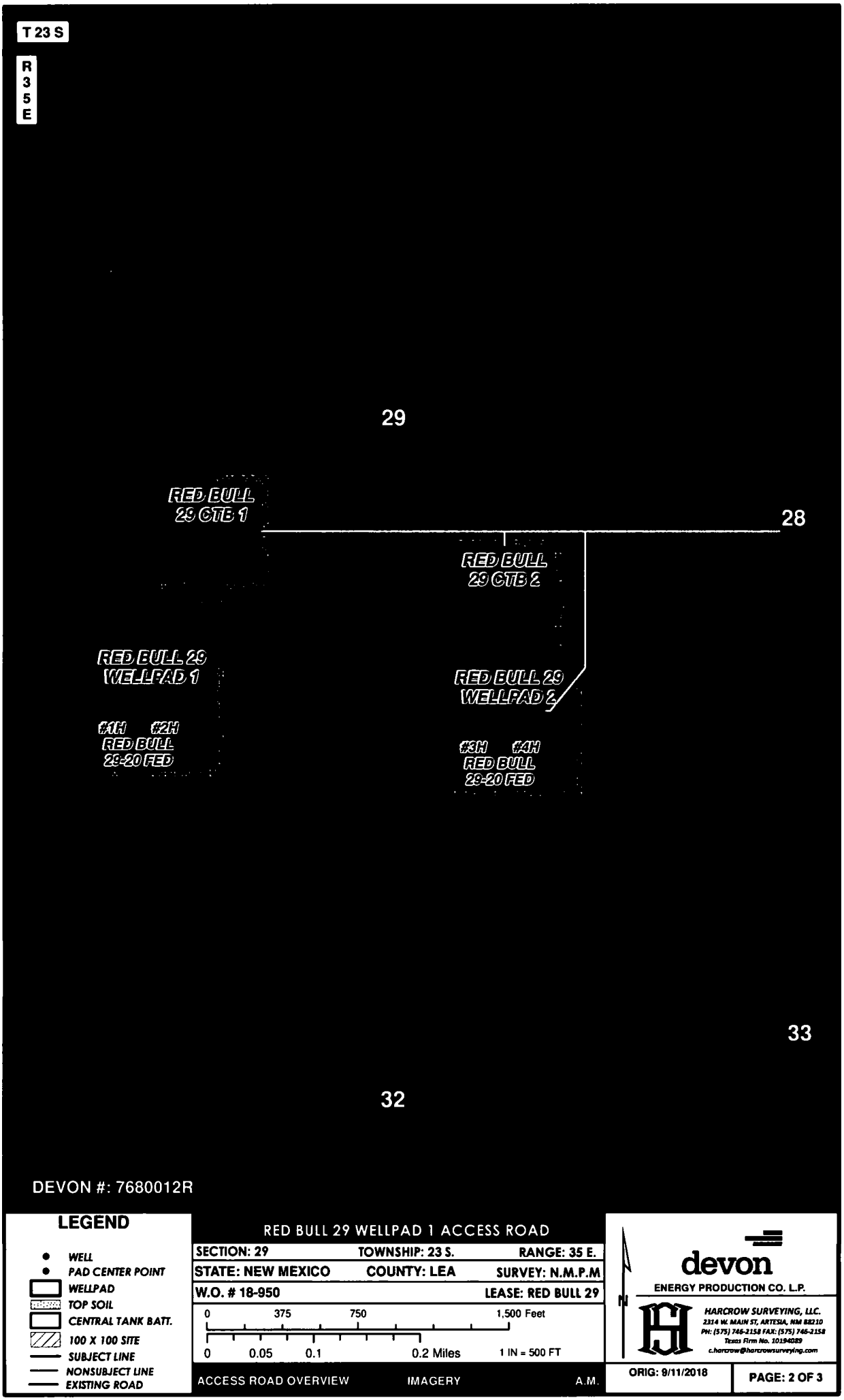
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680012R
DRAFTING DATE: SEPTEMBER 13, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-950



DEVON #: 7680012R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 WELLPAD 1 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-950		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

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ENERGY PRODUCTION CO. L.P.

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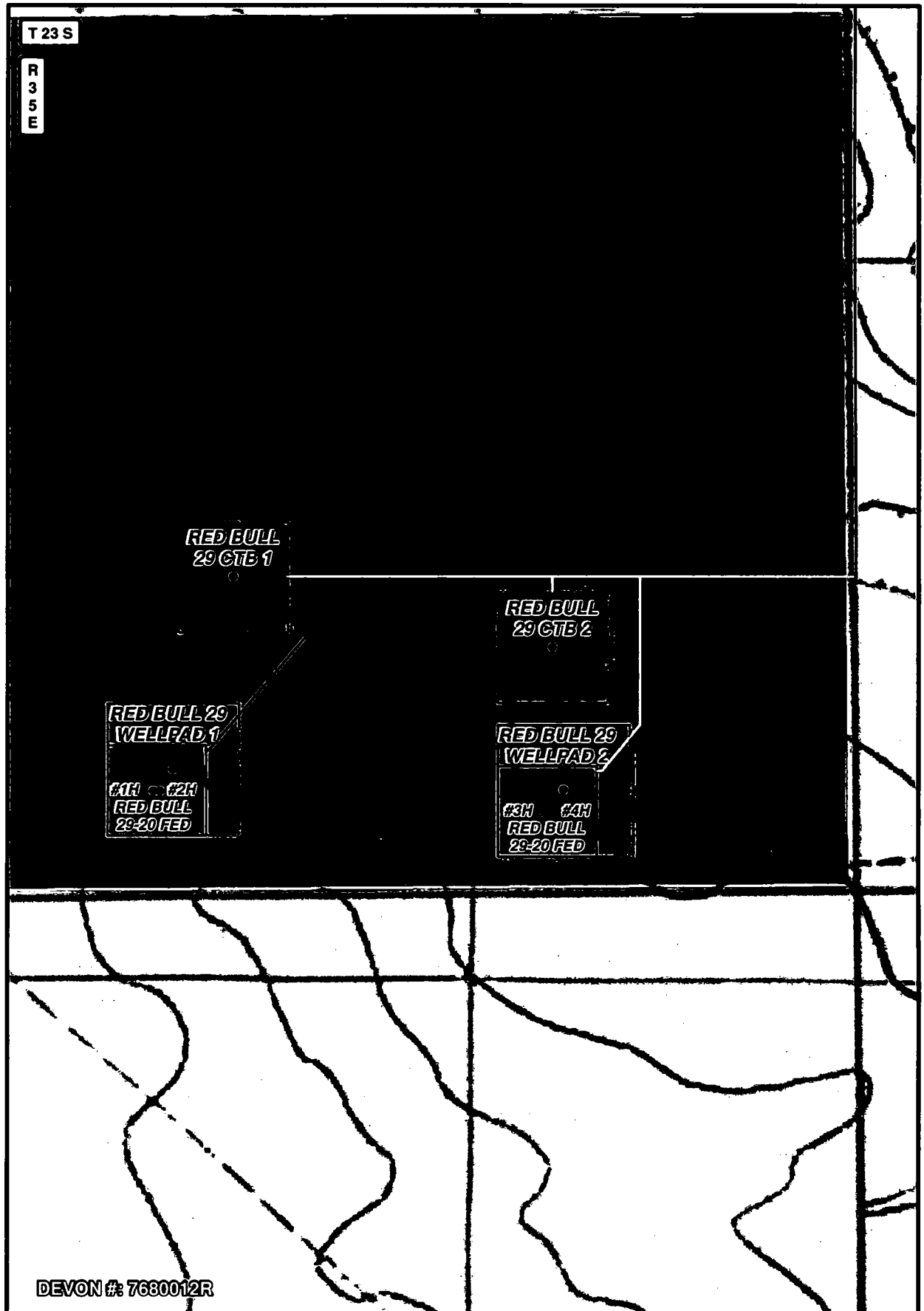
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 WELLPAD 1 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-950		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

N

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ENERGY PRODUCTION CO. L.P.

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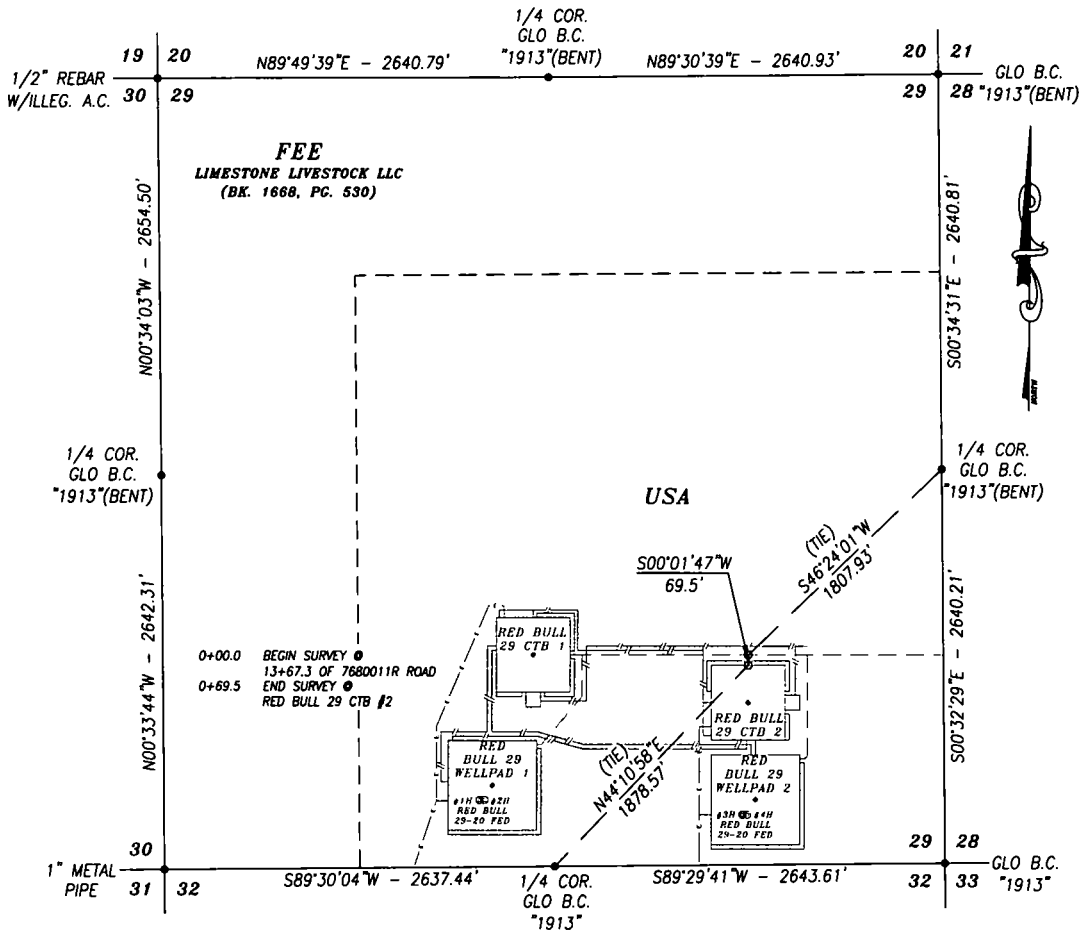
ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680015R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM THE PROPOSED "RED BULL 29 PRIMARY ACCESS ROAD" TO THE "RED BULL 29 CTB #2" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 69.5 FEET OR 4.21 RODS OR 0.013 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S46°24'01"W 1807.93 FEET FROM THE EAST QUARTER CORNER; THEN S00°01'47"W 69.5 FEET TO A POINT WHICH LIES N44°10'58"E 1878.57 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

HARCROW SURVEYING, LLC
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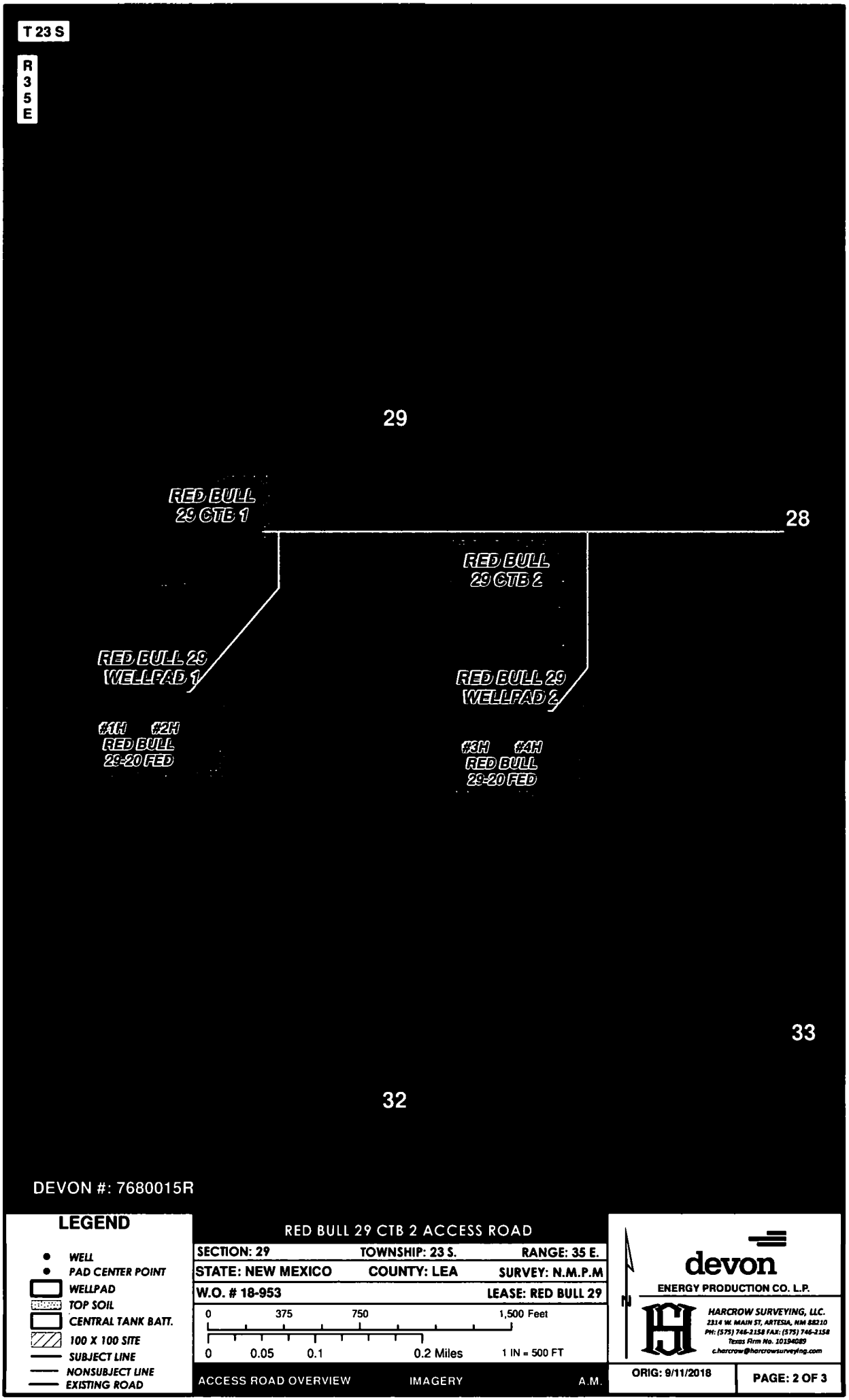
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680015R
DRAFTING DATE: AUGUST 30, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-953



DEVON #: 7680015R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 CTB 2 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-953		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

devon
ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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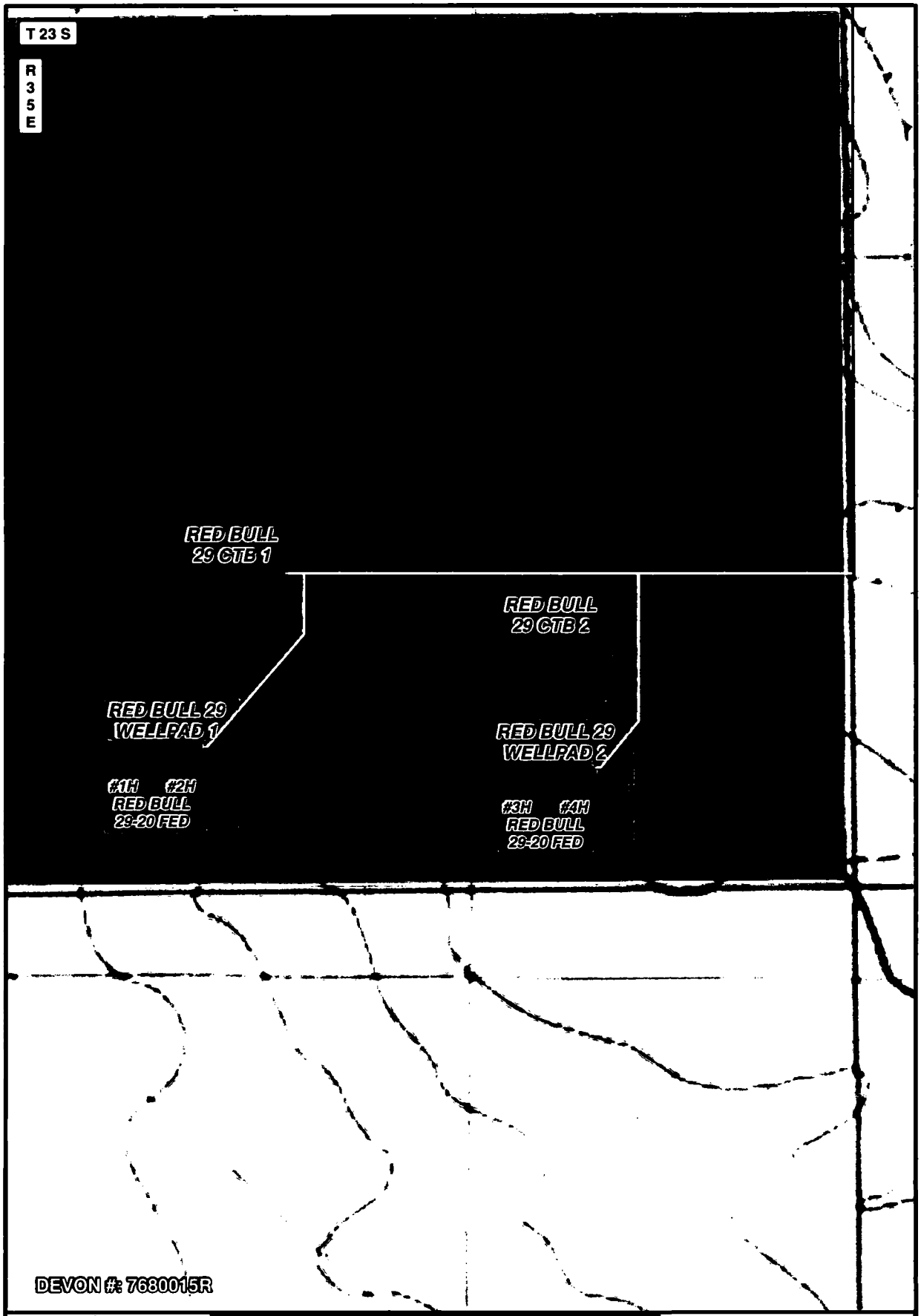
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 CTB 2 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-953		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

N

devon
ENERGY PRODUCTION CO. L.P.

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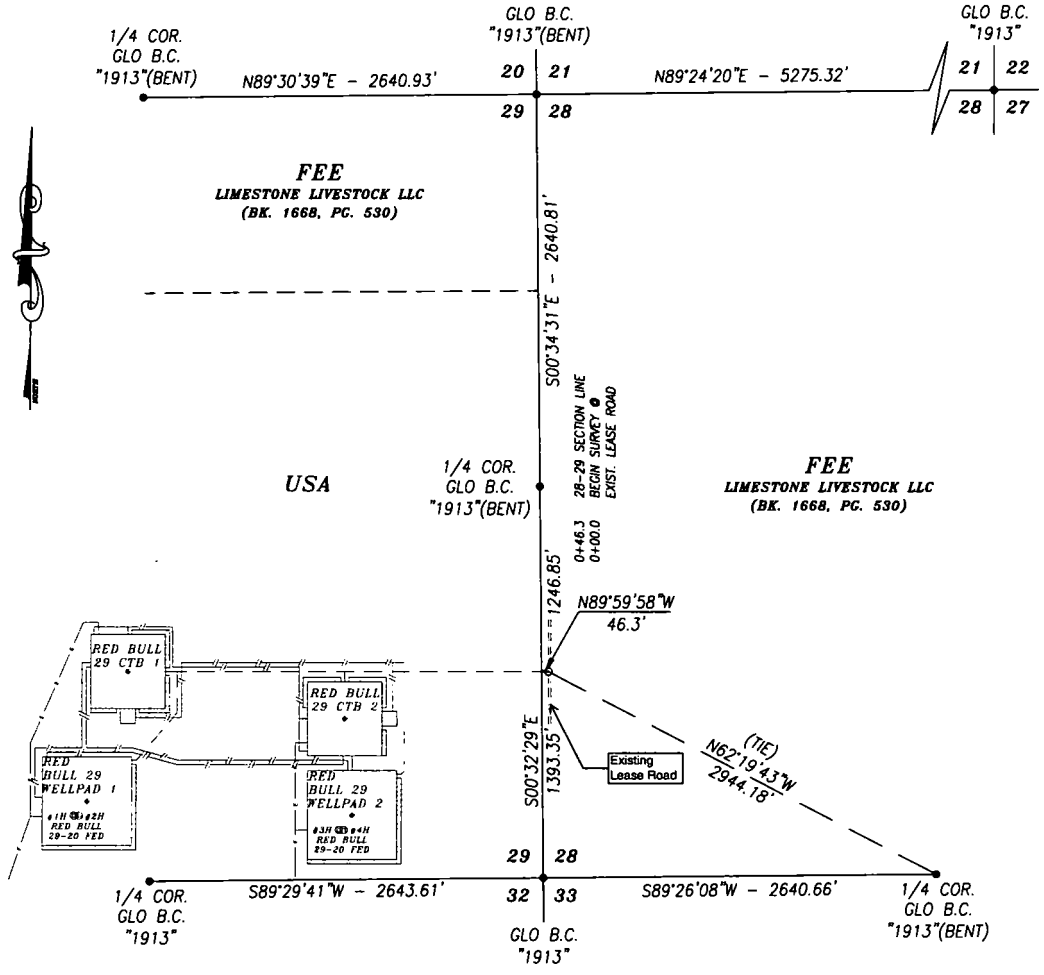
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680011R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
SERVICING THE "RED BULL 29 WELLPADS & CENTRAL TANK BATTERIES" IN
SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 46.3 FEET OR 2.81 RODS OR 0.009 MILES IN LENGTH CROSSING FEE LAND IN SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES N62°19'43"W 2944.18 FEET FROM THE SOUTH QUARTER CORNER; THEN N89°59'58"W 46.3 FEET TO A POINT WHICH LIES ON THE WEST LINE N00°32'29"W 1393.35 FEET FROM THE SOUTHWEST CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

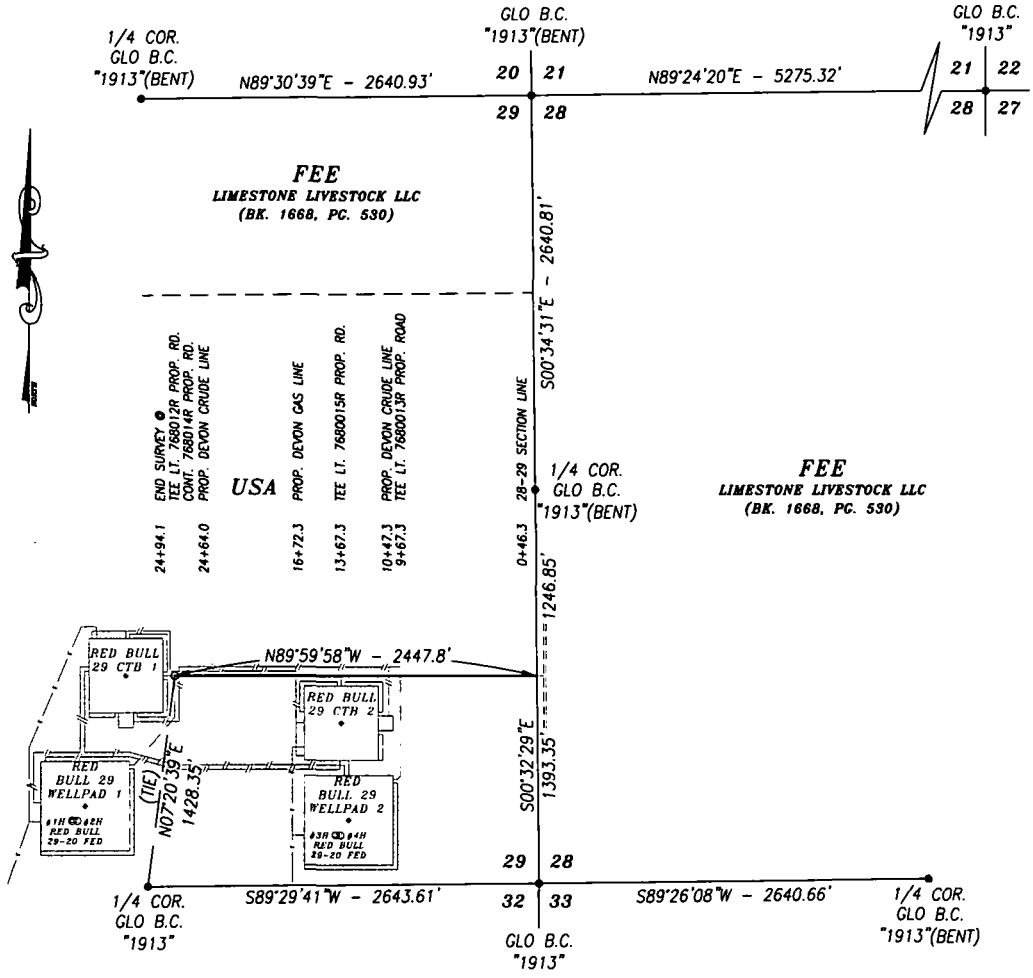
DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018		7680011R
DRAFTING DATE: AUGUST 30, 2018		PAGE 1 OF 4
APPROVED BY: CH	DRAWN BY: SP	FILE: 18-949

ACCESS ROAD PLAT: 7680011R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
SERVICING THE "RED BULL 29 WELLPADS & CENTRAL TANK BATTERIES" IN
SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2447.7 FEET OR 148.35 RODS OR 0.464 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT ON THE EAST LINE WHICH LIES N00°32'29"E 1393.35 FEET FROM THE SOUTHEAST CORNER; THEN N89°59'58"W 2447.8 FEET TO A POINT WHICH LIES N07°20'39"E 1428.35 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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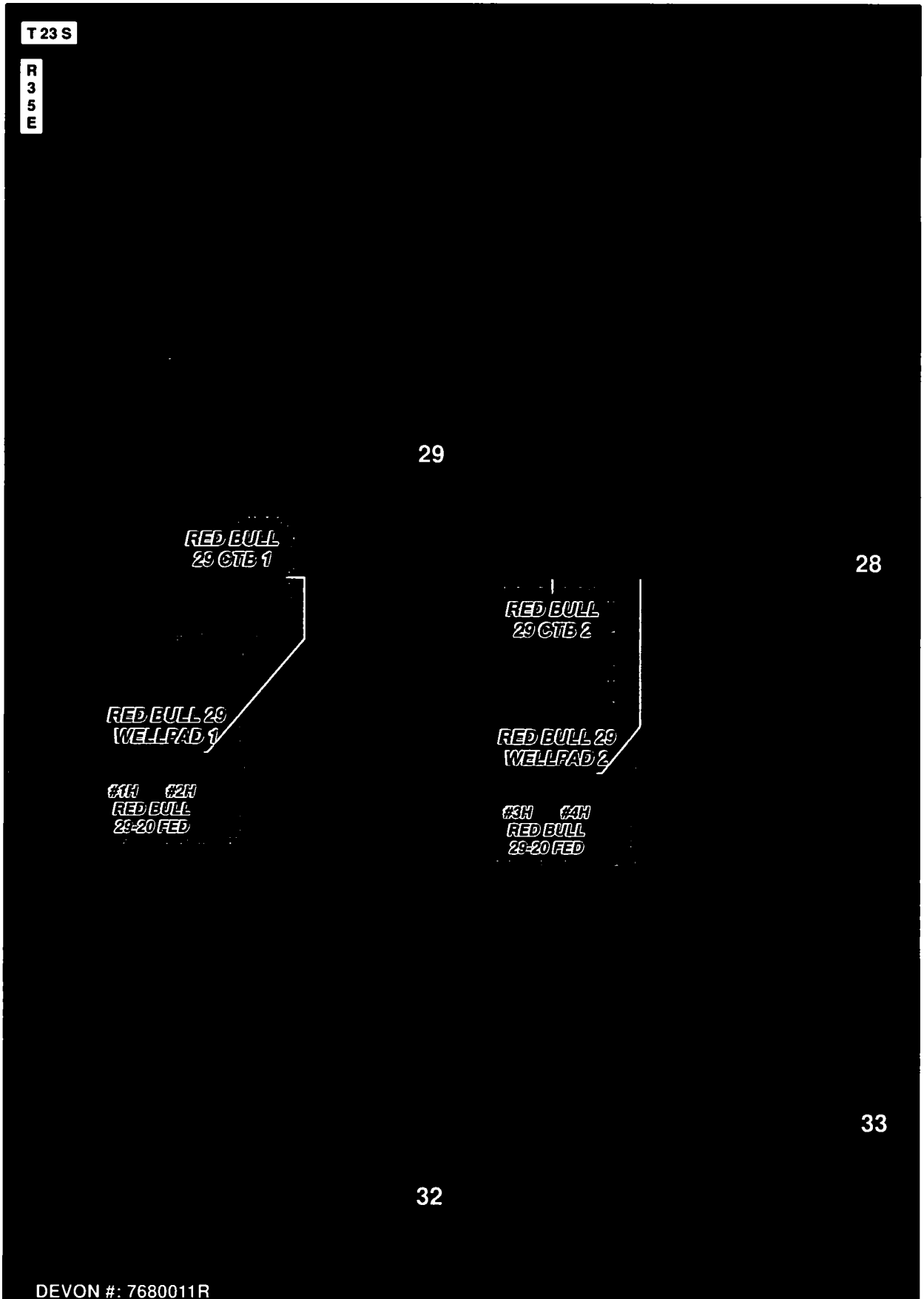
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680011R
DRAFTING DATE: AUGUST 30, 2018	PAGE 2 OF 4
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-949



DEVON #: 7680011R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 PRIMARY ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-949		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

devon

ENERGY PRODUCTION CO. L.P.

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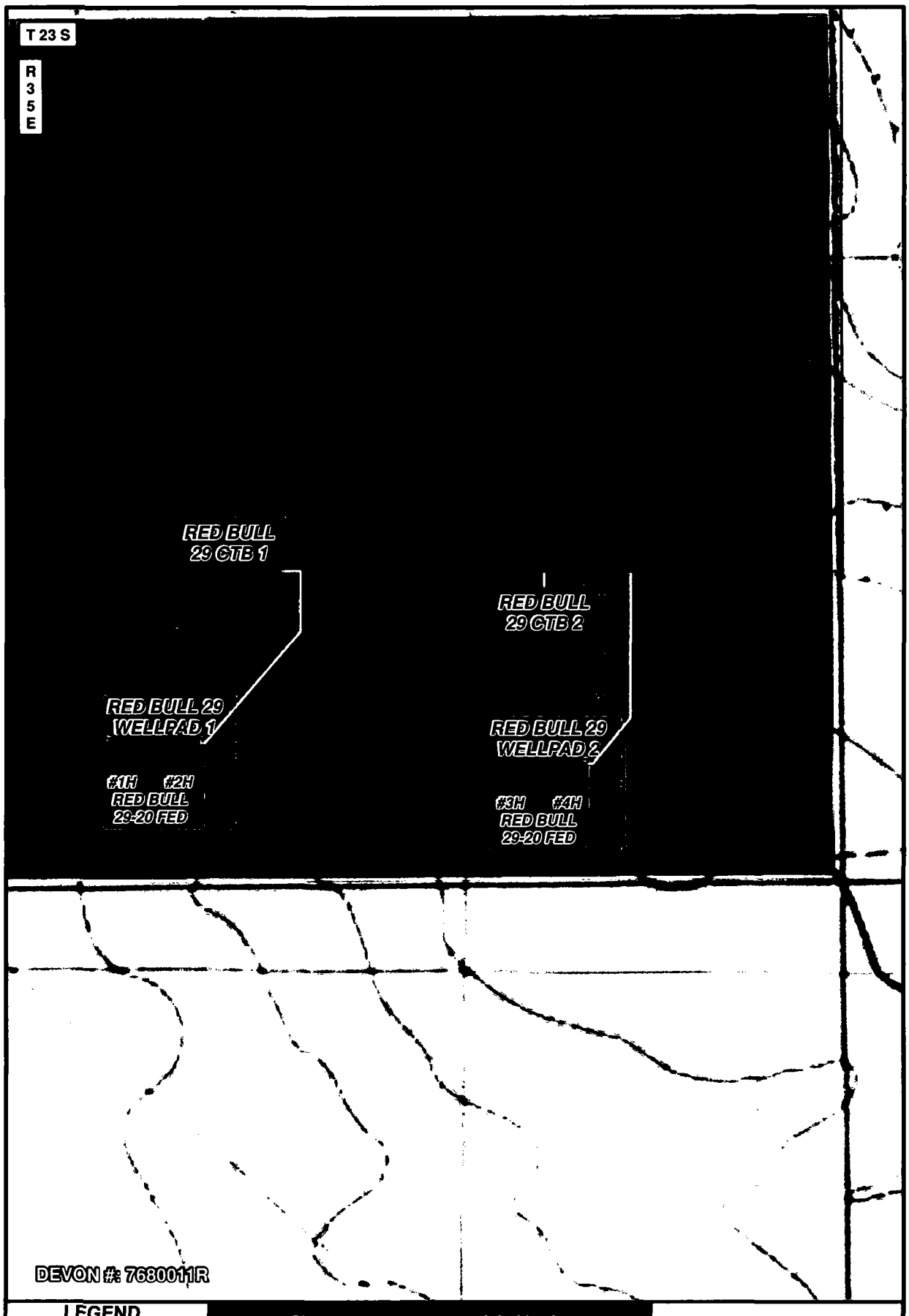
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 PRIMARY ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-949		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

devon
ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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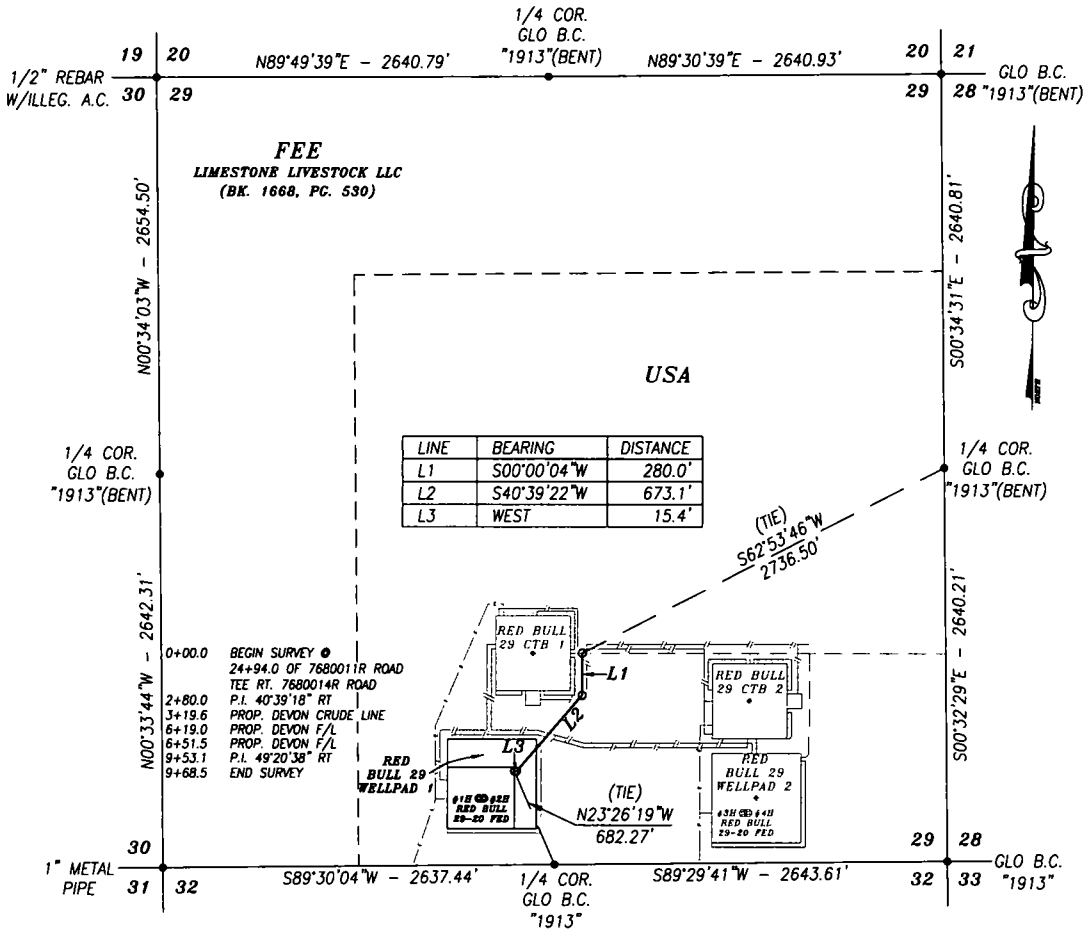
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680012R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM THE PROPOSED "RED BULL 29 PRIMARY ACCESS ROAD" TO THE "RED BULL 29 WELLPAD #1" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 968.5 FEET OR 58.70 RODS OR 0.183 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S62°53'46"W 2736.50 FEET FROM THE EAST QUARTER CORNER OF SAID SECTION; THEN S00°00'04"W 280.0 FEET; THEN S40°39'22"W 673.1 FEET; THEN WEST 15.4 FEET, TO A POINT WHICH LIES N23°26'19"W 682.27 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 9/13/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

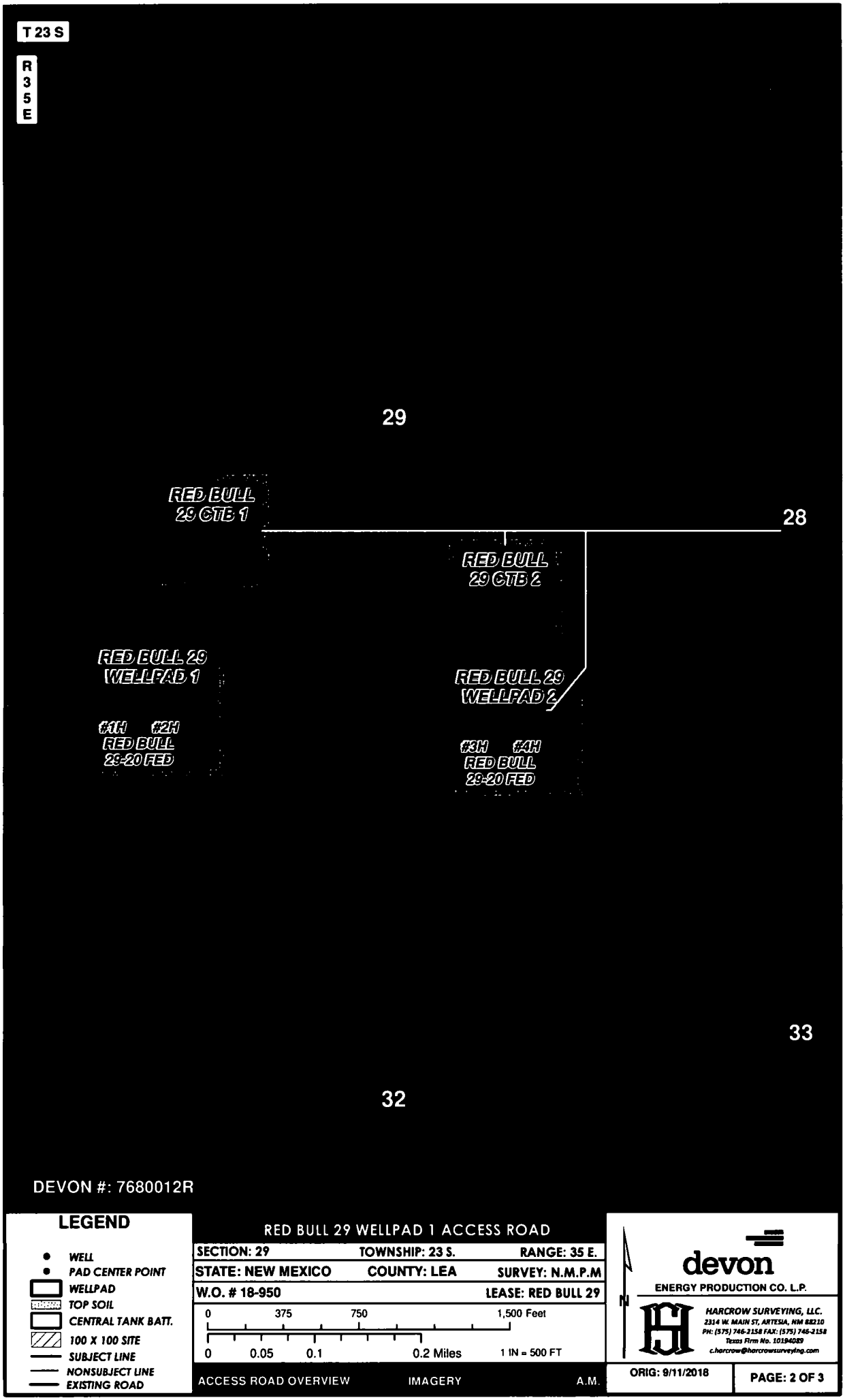
HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680012R
DRAFTING DATE: SEPTEMBER 13, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-950



DEVON #: 7680012R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 WELLPAD 1 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-950		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

devon
ENERGY PRODUCTION CO. L.P.

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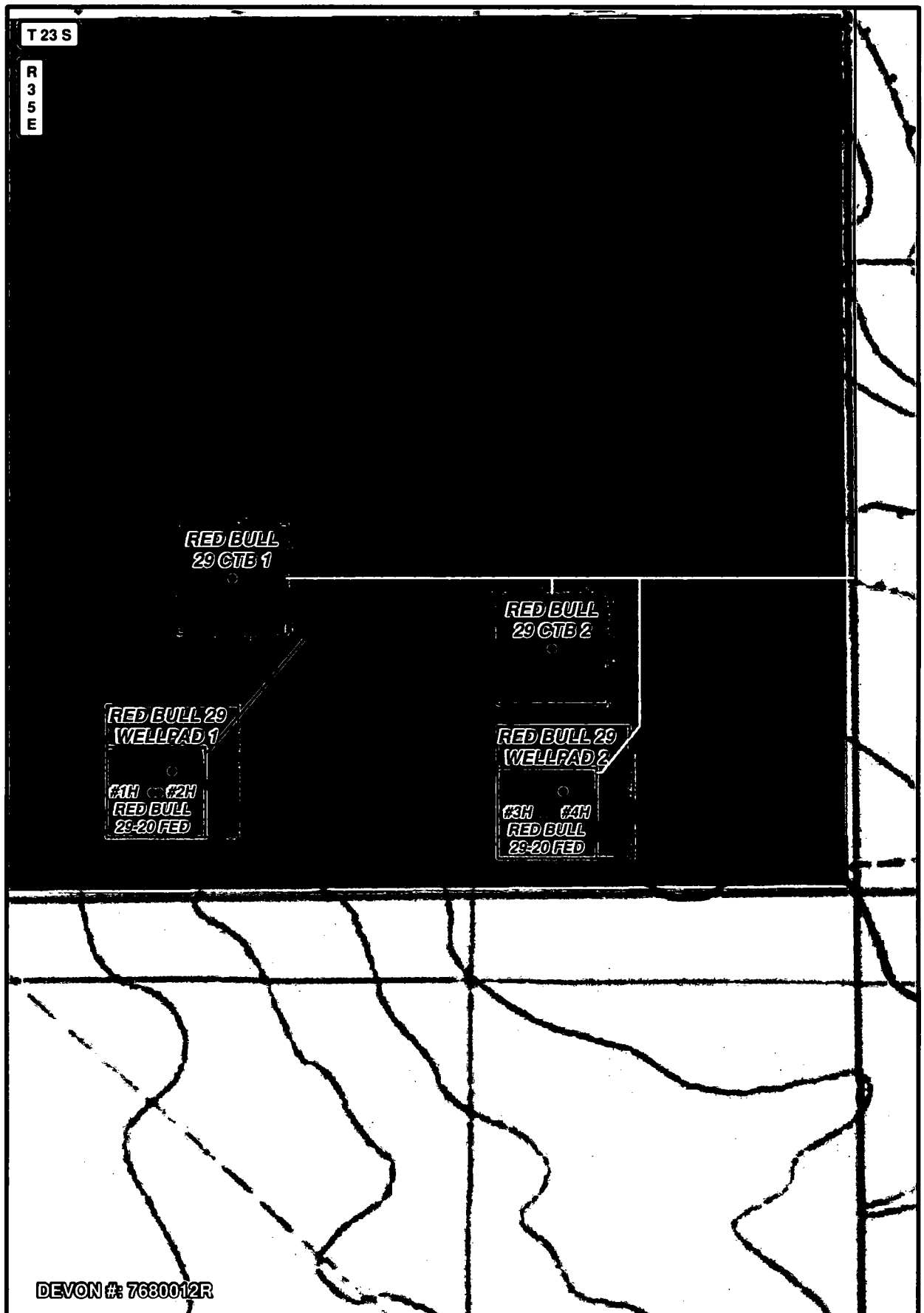
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 WELLPAD 1 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-950		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

N

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ENERGY PRODUCTION CO. L.P.

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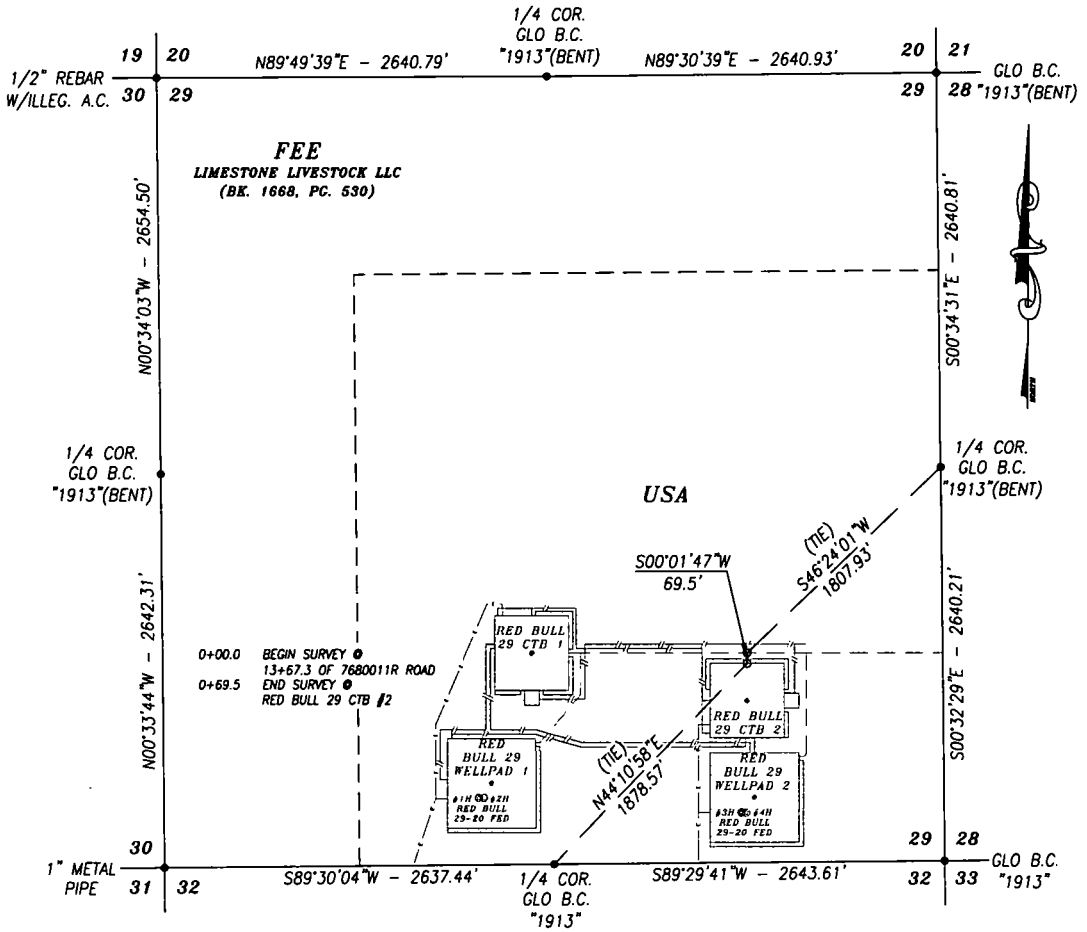
ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680015R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM THE PROPOSED "RED BULL 29 PRIMARY ACCESS ROAD" TO THE "RED BULL 29 CTB #2" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 69.5 FEET OR 4.21 RODS OR 0.013 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S46°24'01"W 1807.93 FEET FROM THE EAST QUARTER CORNER; THEN S00°01'47"W 69.5 FEET TO A POINT WHICH LIES N44°10'58"E 1878.57 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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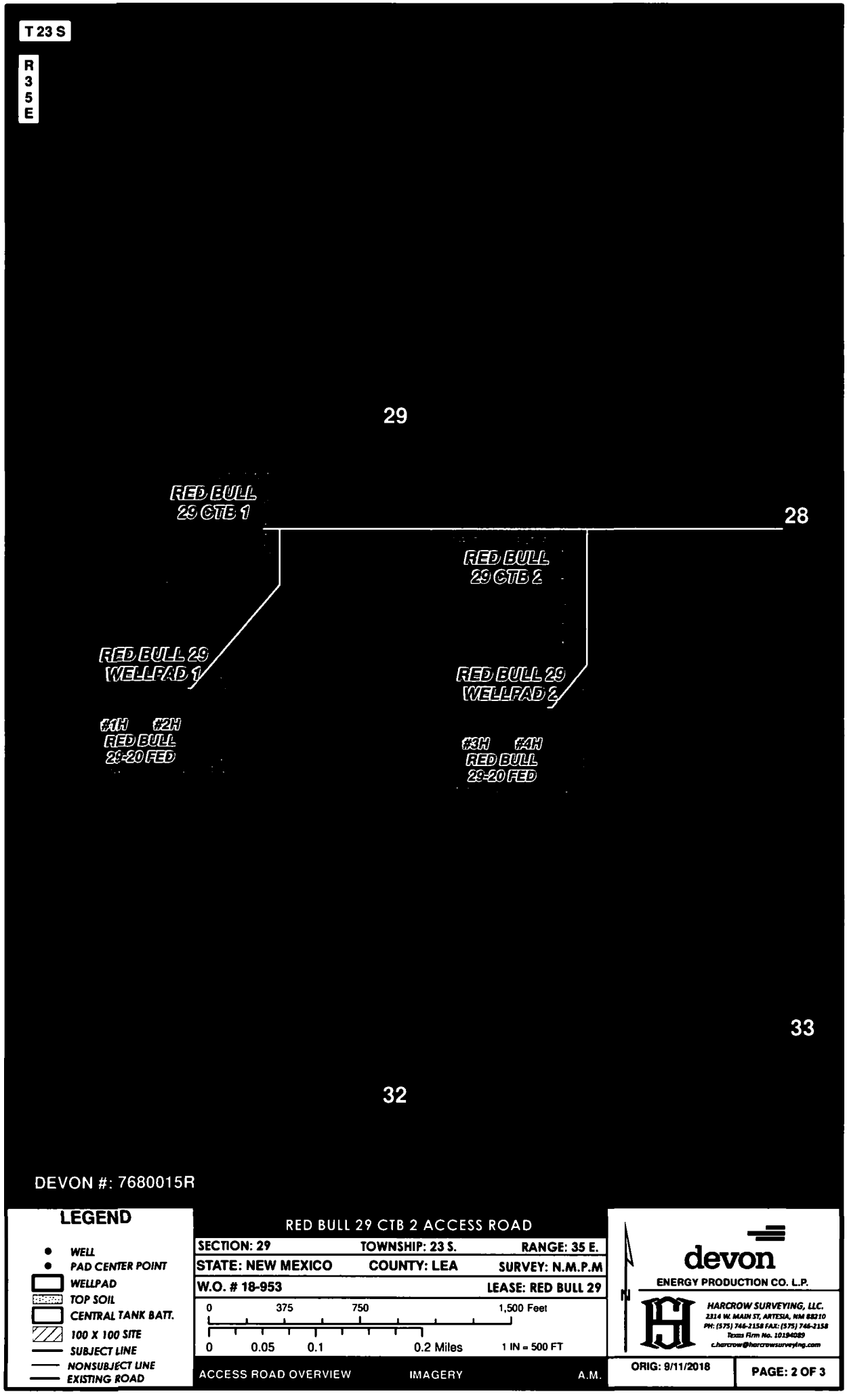
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.	
SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO	
SURVEY DATE: AUGUST 20, 2018	7680015R
DRAFTING DATE: AUGUST 30, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-953



DEVON #: 7680015R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 CTB 2 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-953		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles

1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

devon

ENERGY PRODUCTION CO. L.P.

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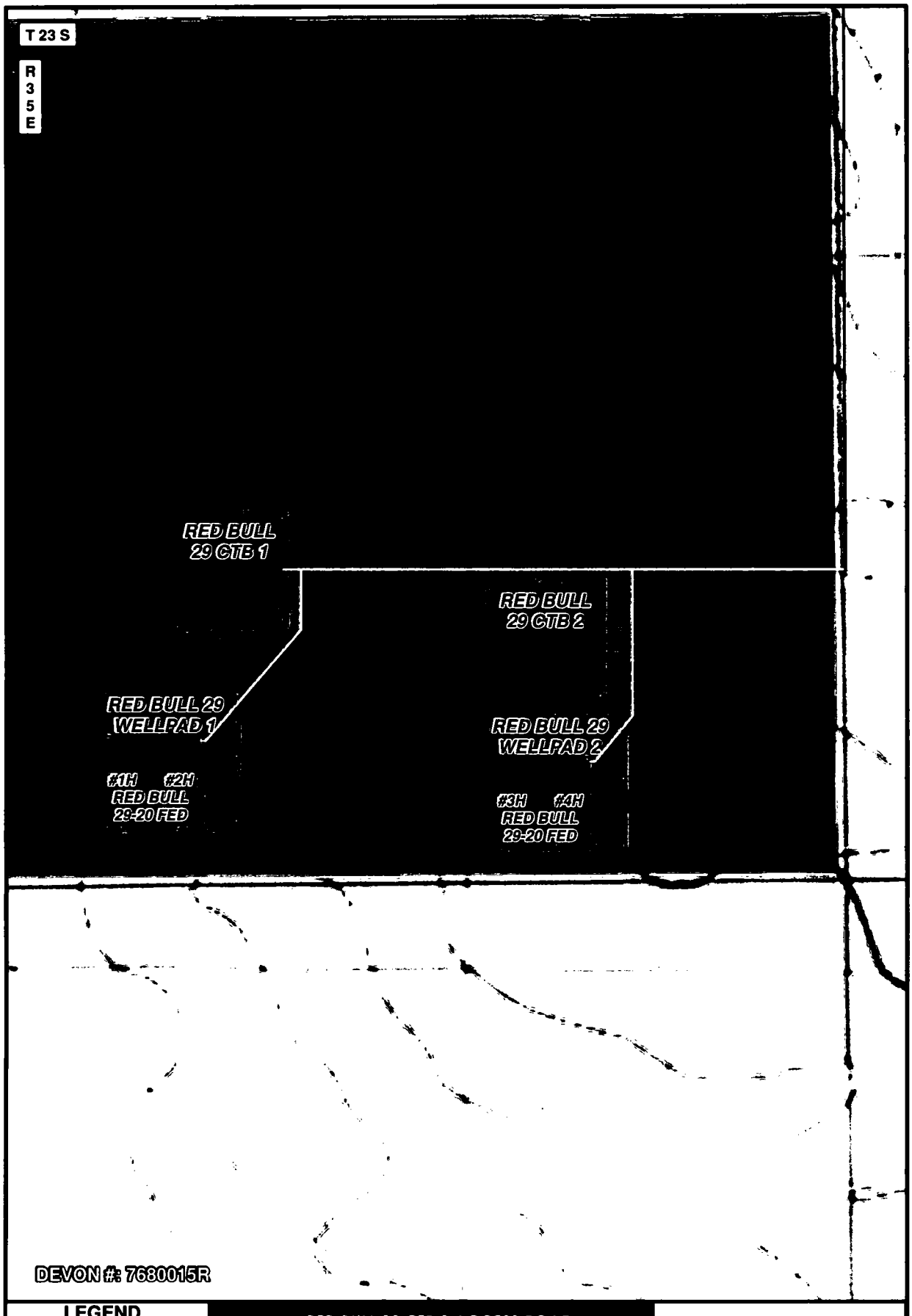
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 CTB 2 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-953		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles

1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

devon
ENERGY PRODUCTION CO. L.P.

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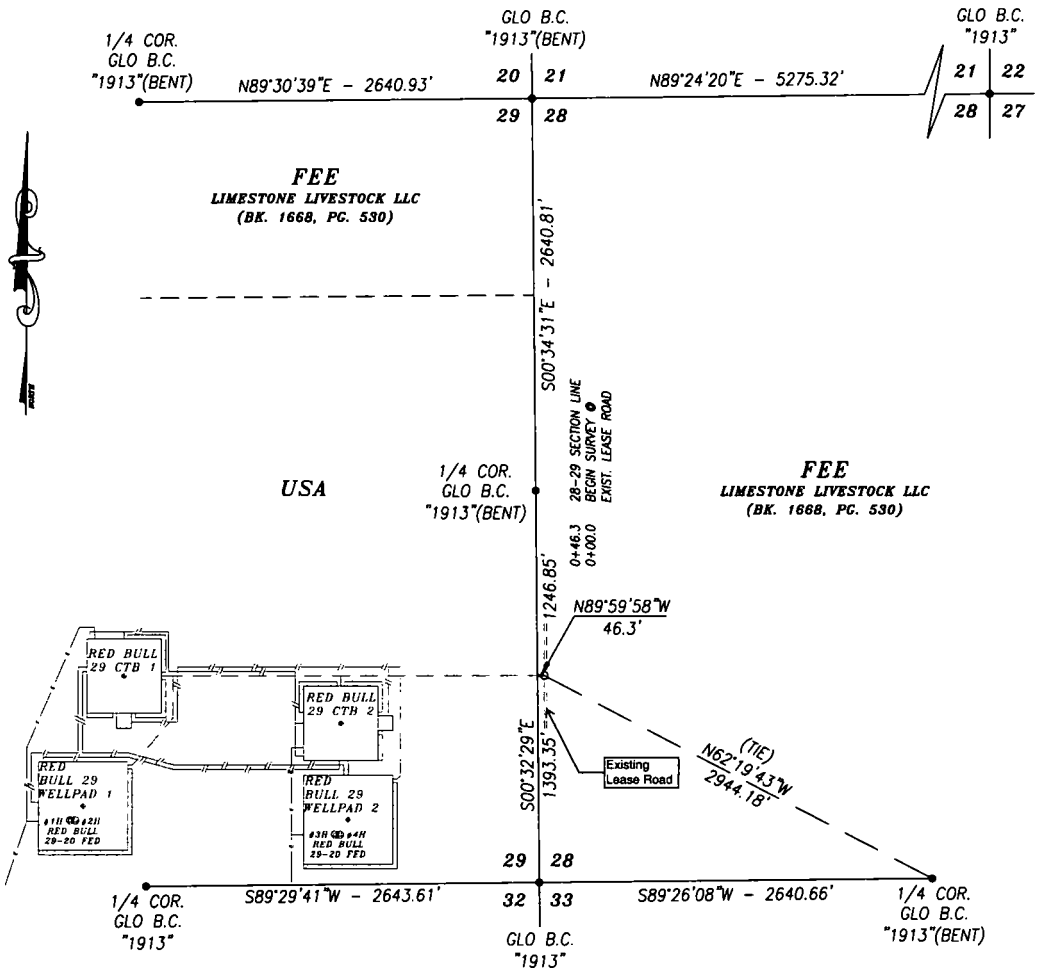
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680011R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
SERVICING THE "RED BULL 29 WELLPADS & CENTRAL TANK BATTERIES" IN
SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 46.3 FEET OR 2.81 RODS OR 0.009 MILES IN LENGTH CROSSING FEE LAND IN SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES N62°19'43"W 2944.18 FEET FROM THE SOUTH QUARTER CORNER; THEN N89°59'58"W 46.3 FEET TO A POINT WHICH LIES ON THE WEST LINE N00°32'29"W 1393.35 FEET FROM THE SOUTHWEST CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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2314 W. MAIN ST, ARTESIA, N.M. 88210
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Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

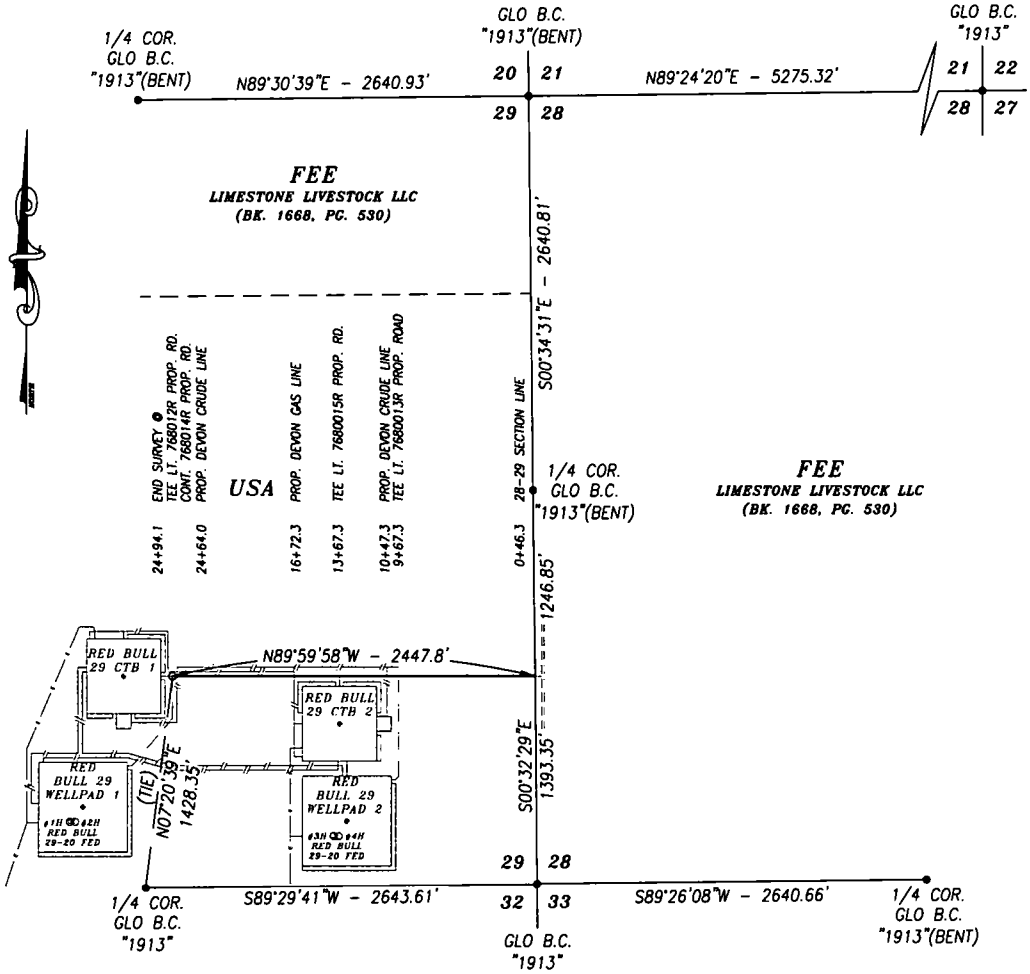
DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018		7680011R
DRAFTING DATE: AUGUST 30, 2018		PAGE 1 OF 4
APPROVED BY: CH	DRAWN BY: SP	FILE: 18-949

ACCESS ROAD PLAT: 7680011R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
SERVICING THE "RED BULL 29 WELLPADS & CENTRAL TANK BATTERIES" IN
SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2447.7 FEET OR 148.35 RODS OR 0.464 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT ON THE EAST LINE WHICH LIES N00°32'29"E 1393.35 FEET FROM THE SOUTHEAST CORNER; THEN N89°59'58"W 2447.8 FEET TO A POINT WHICH LIES N07°20'39"E 1428.35 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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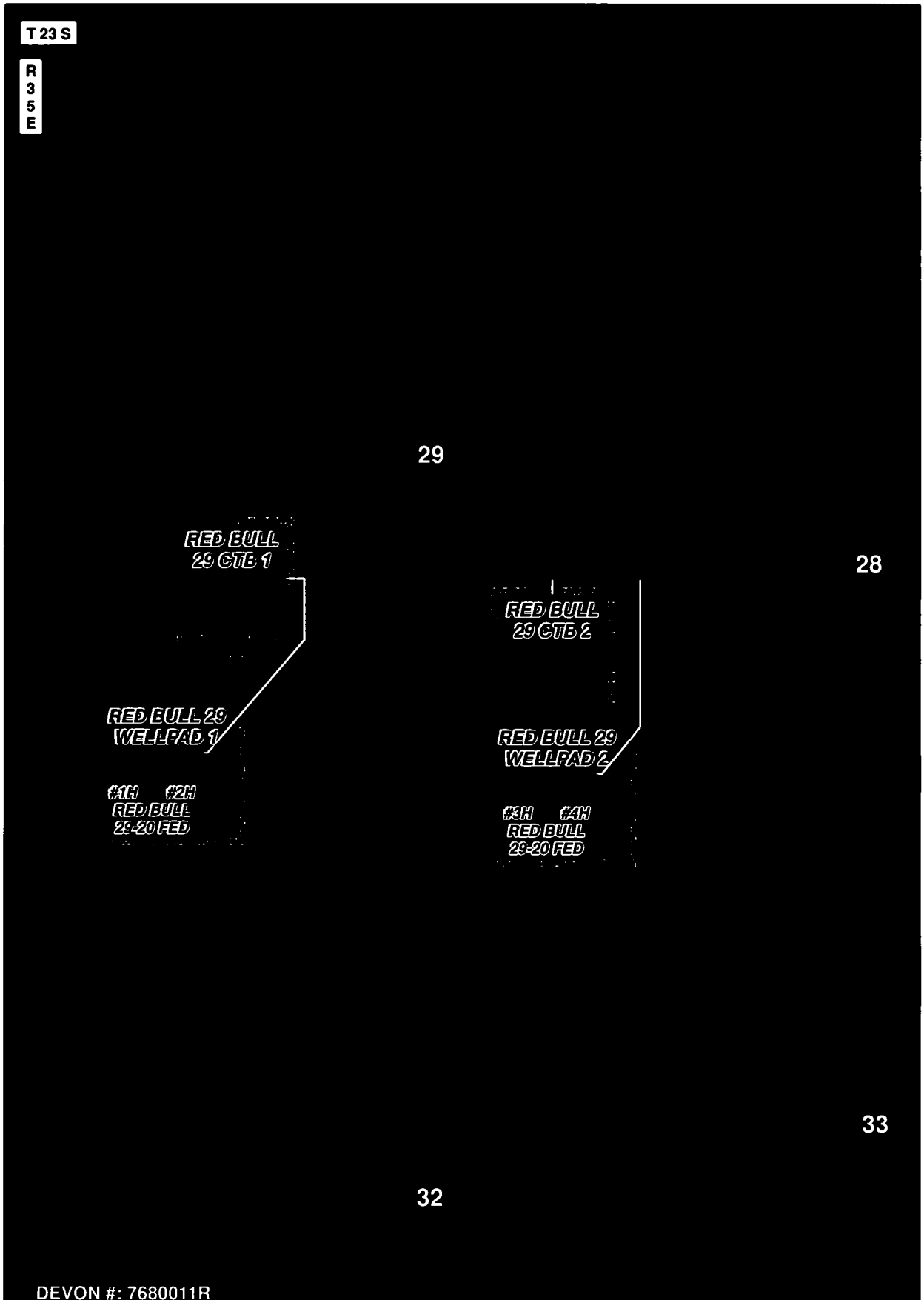
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680011R
DRAFTING DATE: AUGUST 30, 2018	PAGE 2 OF 4
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-949



DEVON #: 7680011R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 PRIMARY ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-949		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles

1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

devon

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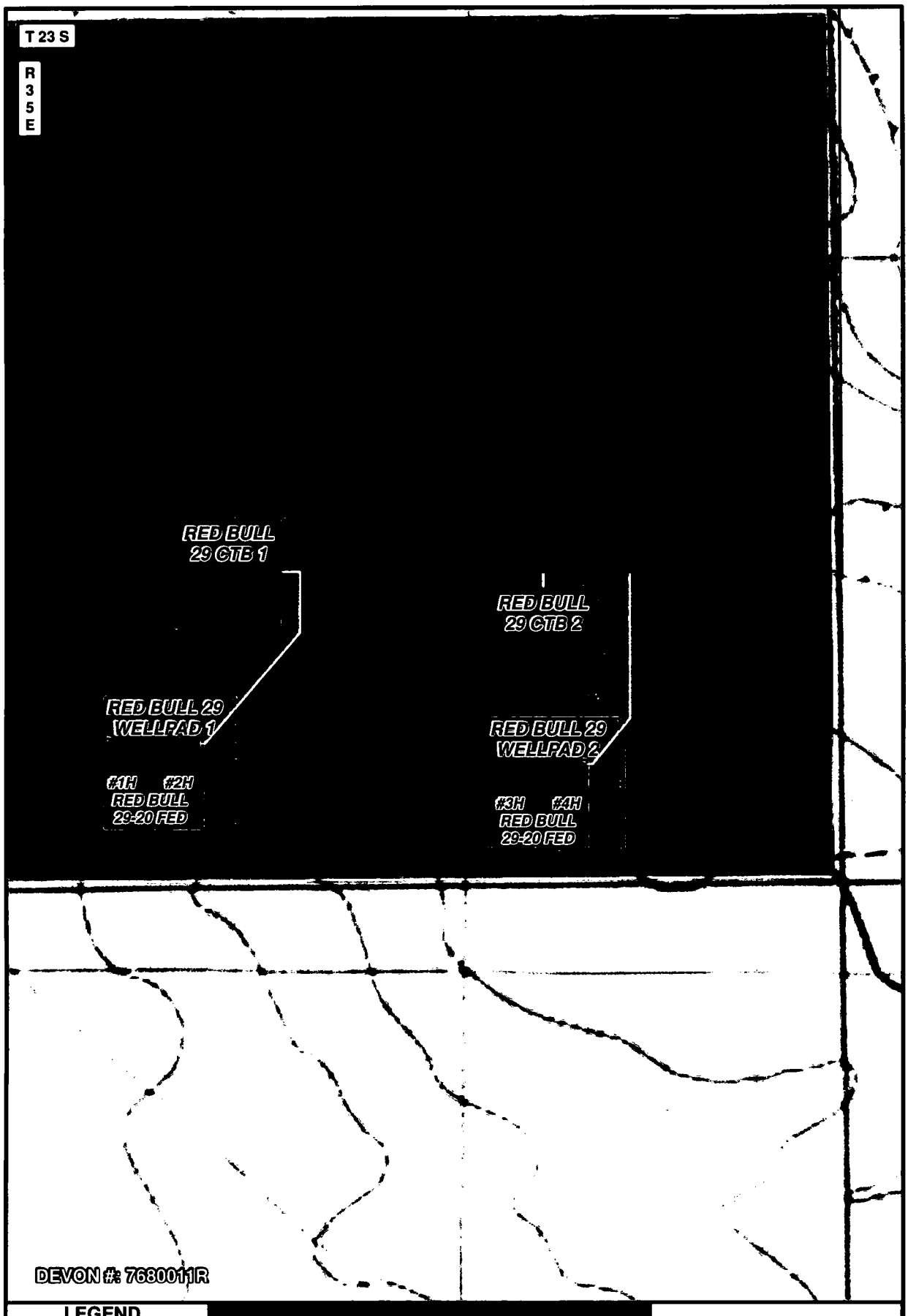
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 PRIMARY ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-949		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

N

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ENERGY PRODUCTION CO. L.P.

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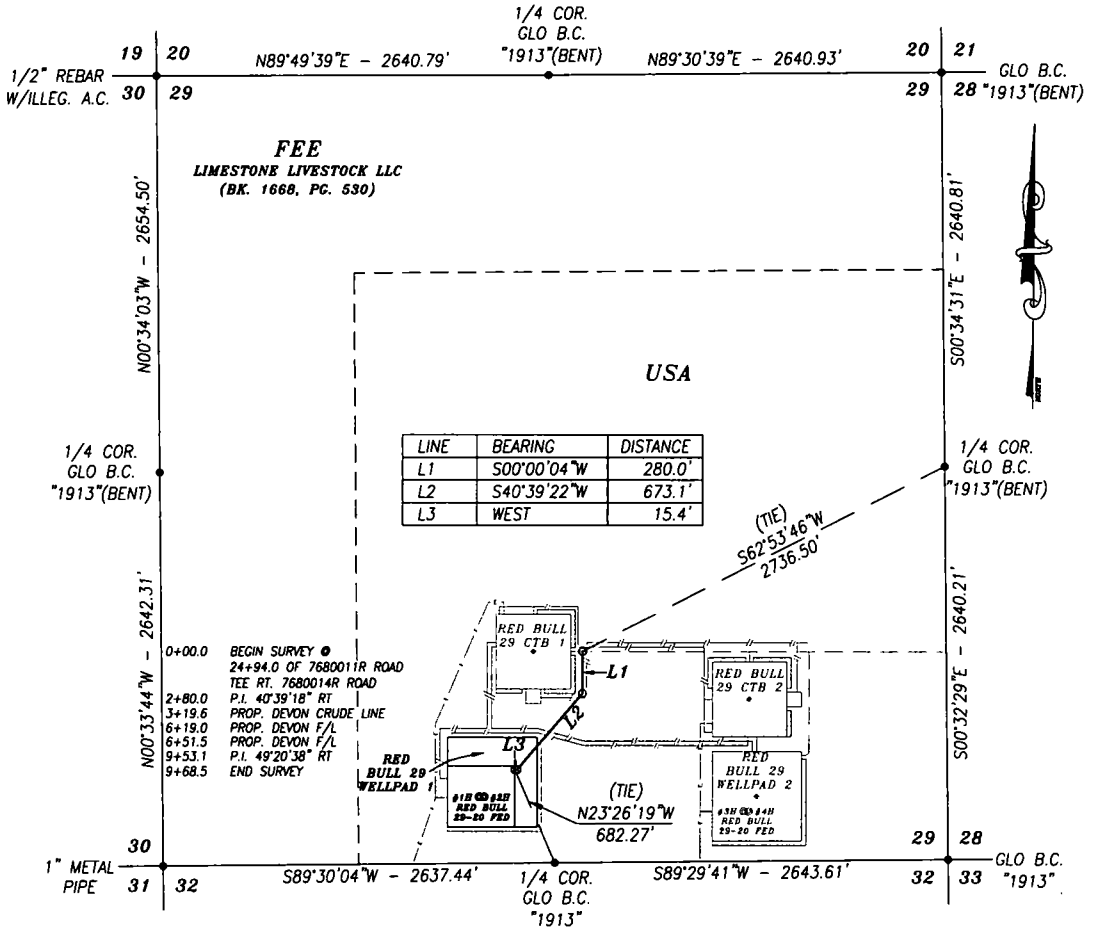
ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680012R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM THE PROPOSED "RED BULL 29 PRIMARY ACCESS ROAD" TO THE "RED BULL 29 WELLPAD #1" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 968.5 FEET OR 58.70 RODS OR 0.183 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S62°53'46"W 2736.50 FEET FROM THE EAST QUARTER CORNER OF SAID SECTION; THEN S00°00'04"W 280.0 FEET; THEN S40°39'22"W 673.1 FEET; THEN WEST 15.4 FEET, TO A POINT WHICH LIES N23°26'19"W 682.27 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 9/13/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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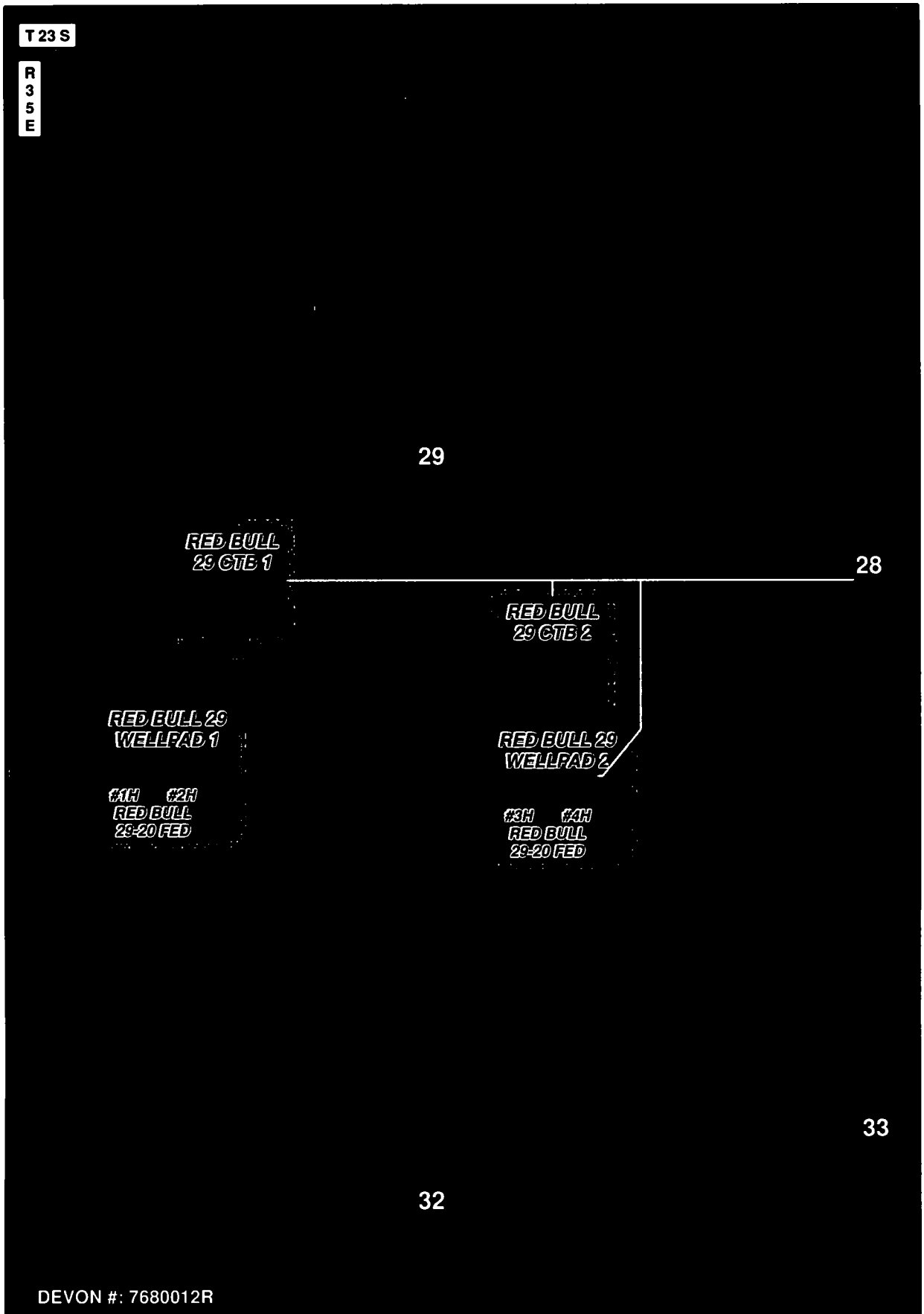
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680012R
DRAFTING DATE: SEPTEMBER 13, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-950



DEVON #: 7680012R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 WELLPAD 1 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-950		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

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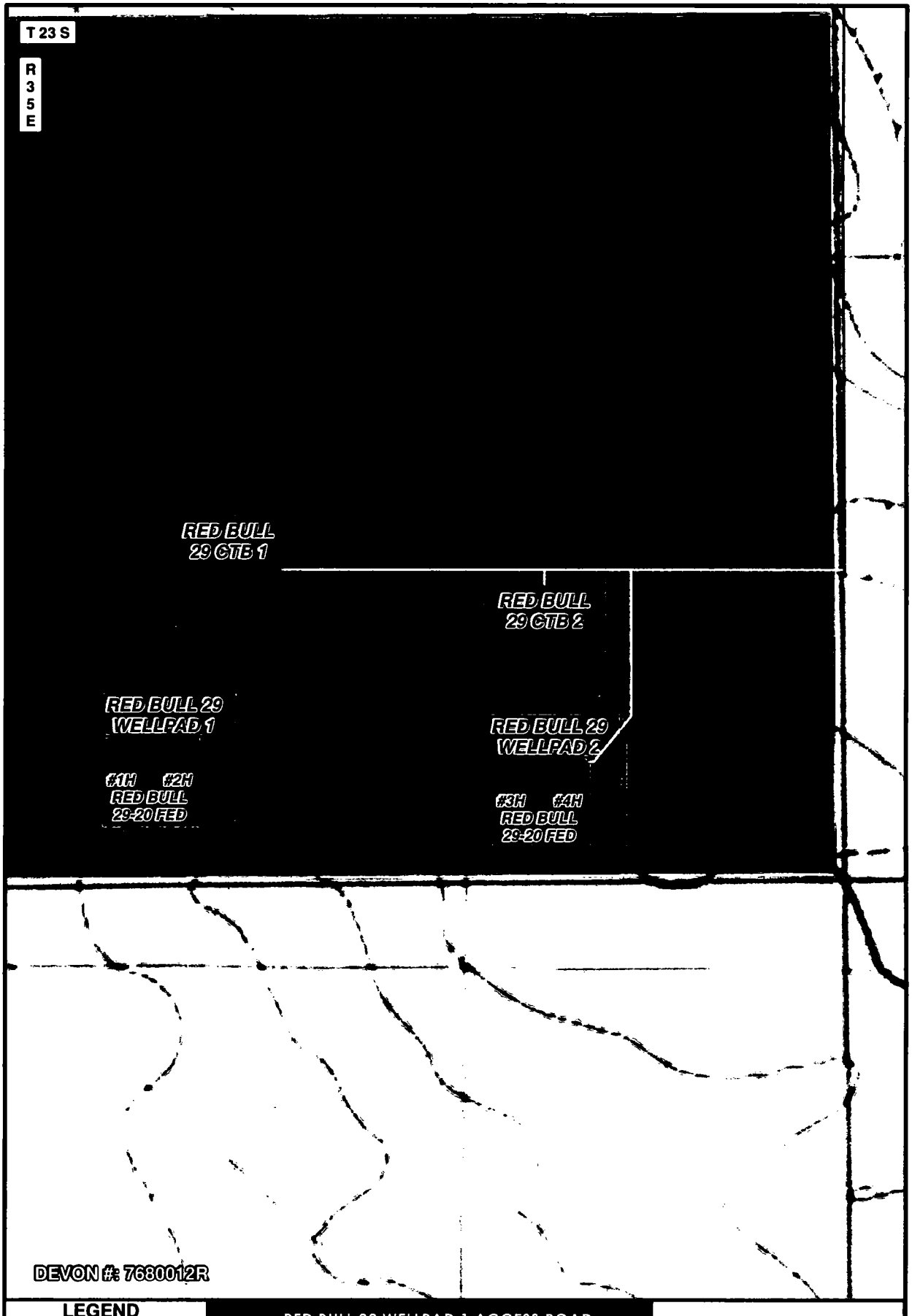
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 WELLPAD 1 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-950		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

N

devon

ENERGY PRODUCTION CO. L.P.

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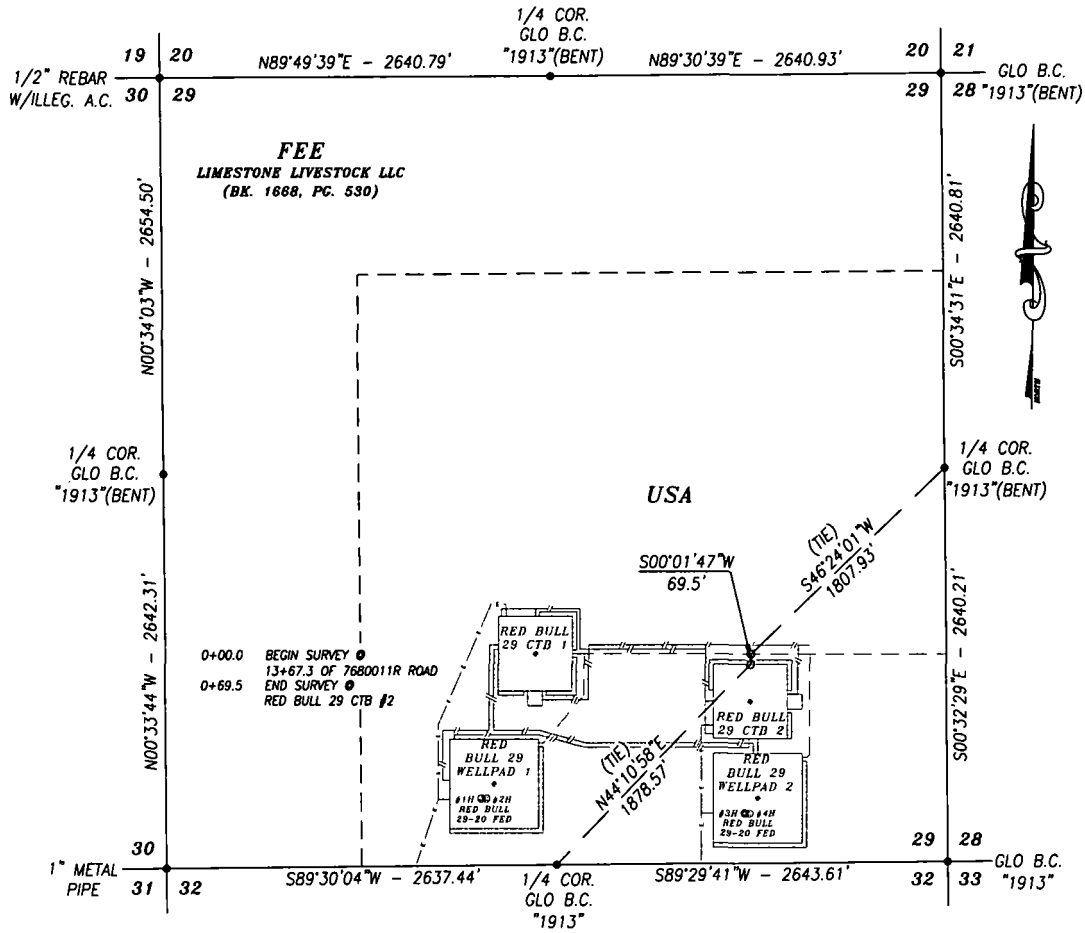
ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680015R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM THE PROPOSED "RED BULL 29 PRIMARY ACCESS ROAD" TO THE "RED BULL 29 CTB #2" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 69.5 FEET OR 4.21 RODS OR 0.013 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S46°24'01"W 1807.93 FEET FROM THE EAST QUARTER CORNER; THEN S00°01'47"W 69.5 FEET TO A POINT WHICH LIES N44°10'58"E 1878.57 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

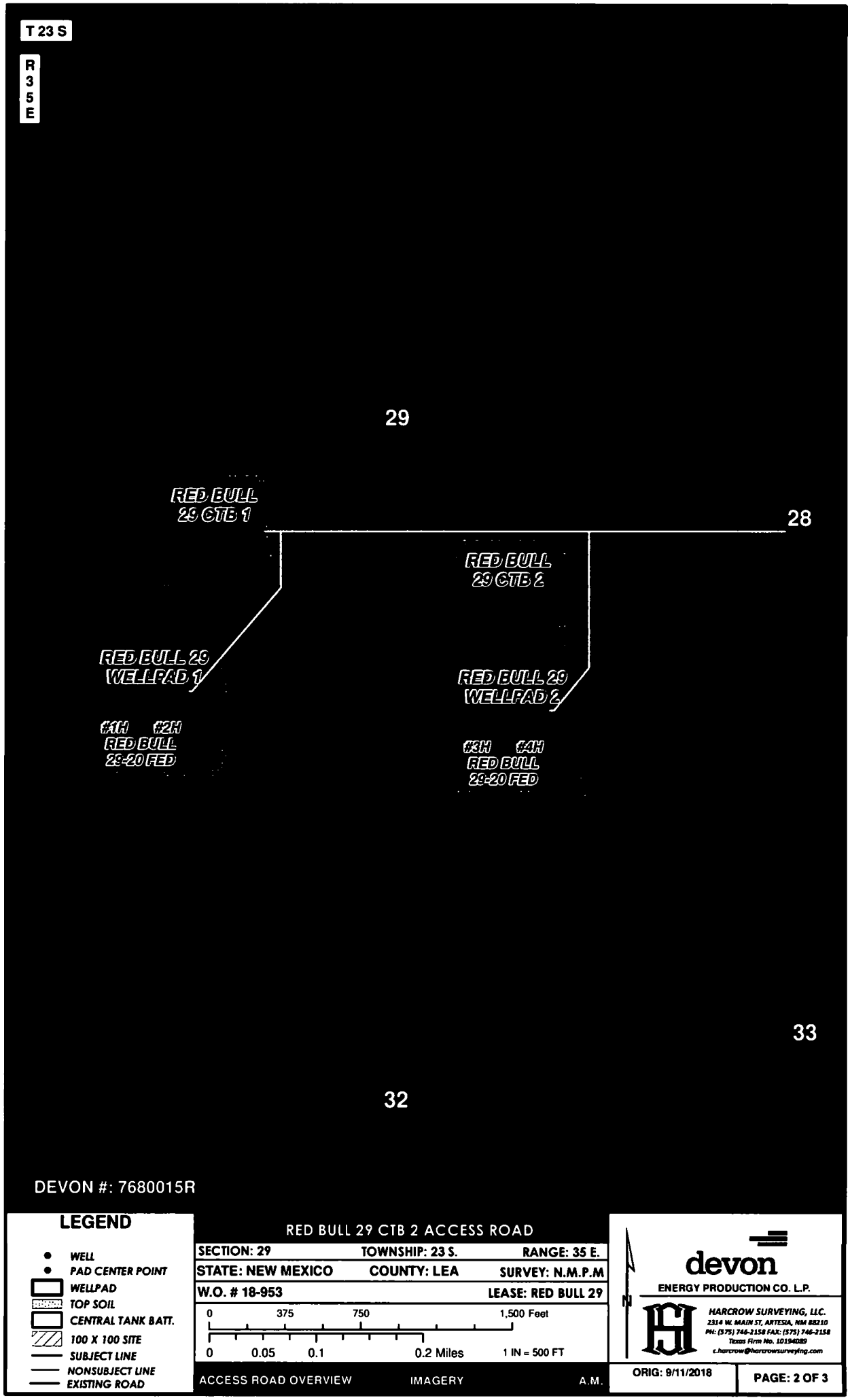
HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680015R
DRAFTING DATE: AUGUST 30, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-953



DEVON #: 7680015R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 CTB 2 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-953		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles

1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

devon

ENERGY PRODUCTION CO. L.P.

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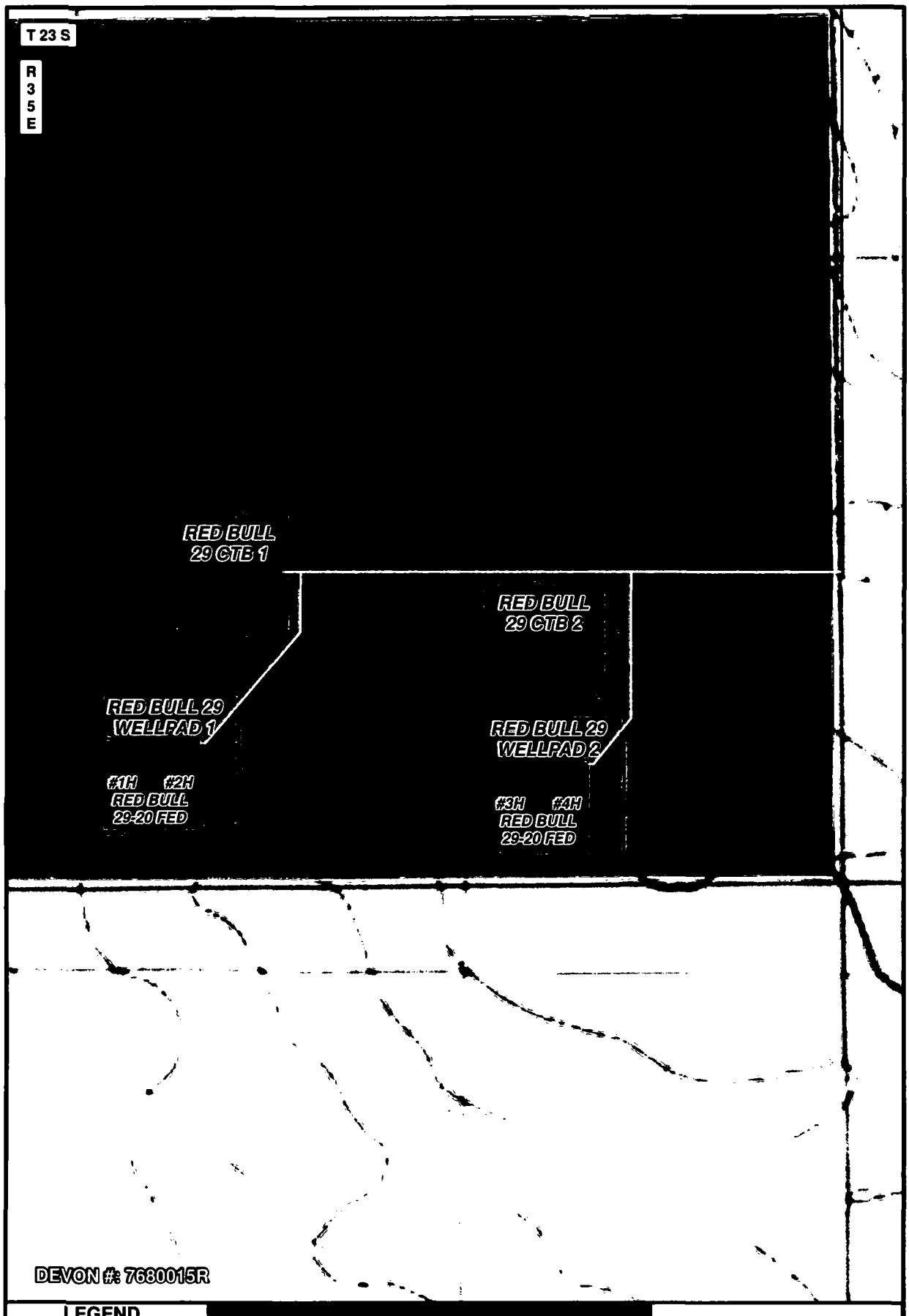
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 CTB 2 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-953		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

devon
ENERGY PRODUCTION CO. L.P.

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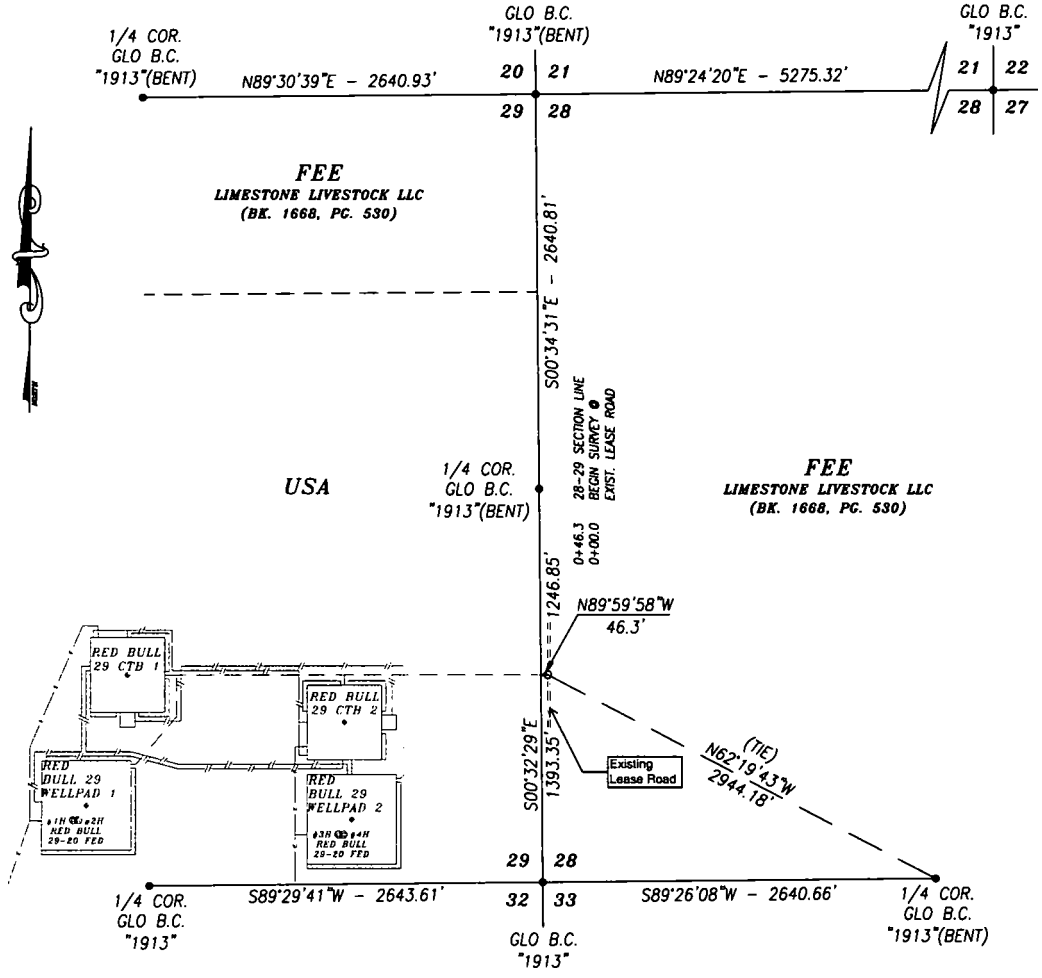
c.harcrow@harcrowsurveying.com

ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680011R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
SERVICING THE "RED BULL 29 WELLPADS & CENTRAL TANK BATTERIES" IN
SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 46.3 FEET OR 2.81 RODS OR 0.009 MILES IN LENGTH CROSSING FEE LAND IN SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES N62°19'43"W 2944.18 FEET FROM THE SOUTH QUARTER CORNER; THEN N89°59'58"W 46.3 FEET TO A POINT WHICH LIES ON THE WEST LINE N00°32'29"W 1393.35 FEET FROM THE SOUTHWEST CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

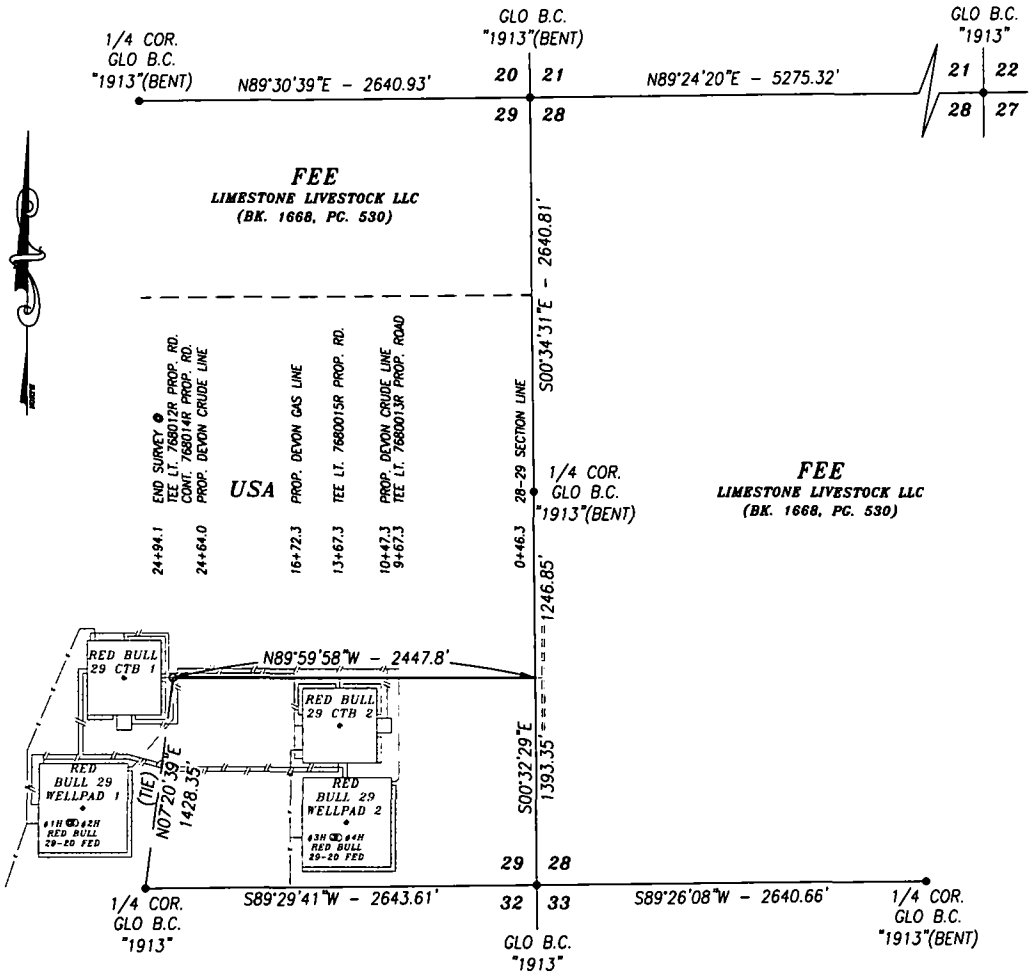
DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 28, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680011R
DRAFTING DATE: AUGUST 30, 2018	PAGE 1 OF 4
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-949

ACCESS ROAD PLAT: 7680011R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
SERVICING THE "RED BULL 29 WELLPADS & CENTRAL TANK BATTERIES" IN
SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2447.7 FEET OR 148.35 RODS OR 0.464 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT ON THE EAST LINE WHICH LIES N00°32'29"E 1393.35 FEET FROM THE SOUTHEAST CORNER; THEN N89°59'58"W 2447.8 FEET TO A POINT WHICH LIES N07°20'39"E 1428.35 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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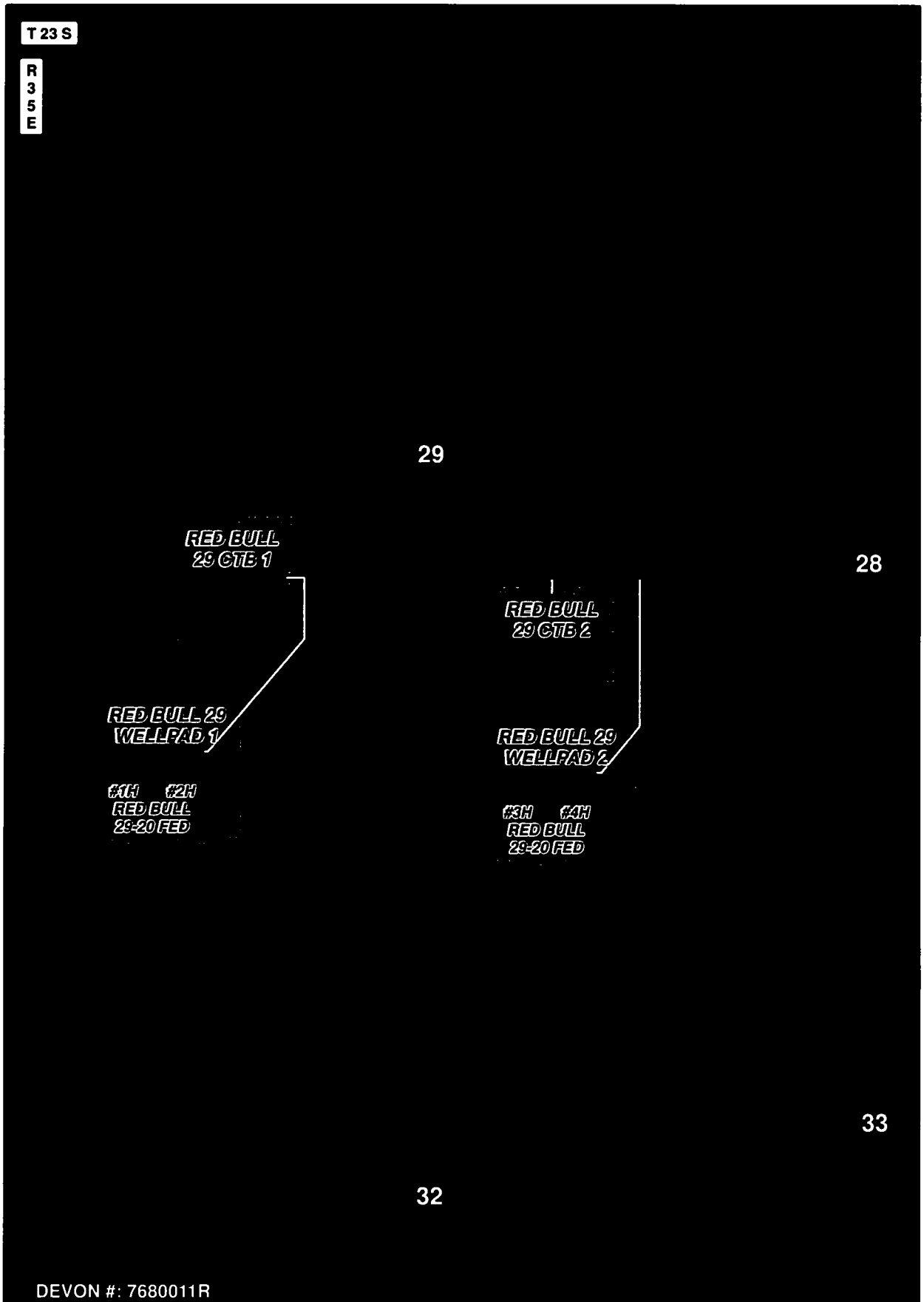
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680011R
DRAFTING DATE: AUGUST 30, 2018	PAGE 2 OF 4
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-949



DEVON #: 7680011R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 PRIMARY ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-949		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles

1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

devon

ENERGY PRODUCTION CO. L.P.

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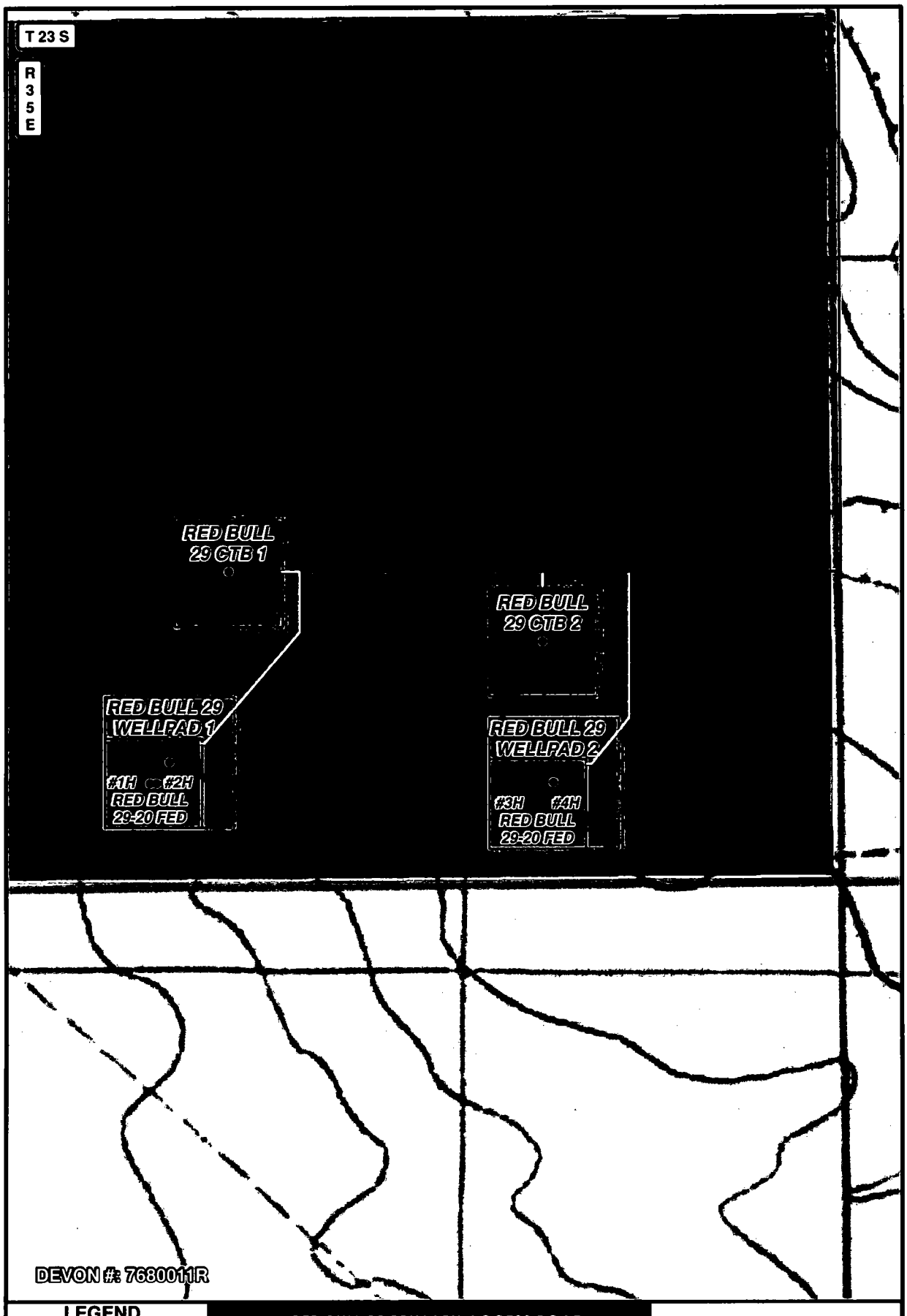
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 PRIMARY ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-949		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

N

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ENERGY PRODUCTION CO. L.P.

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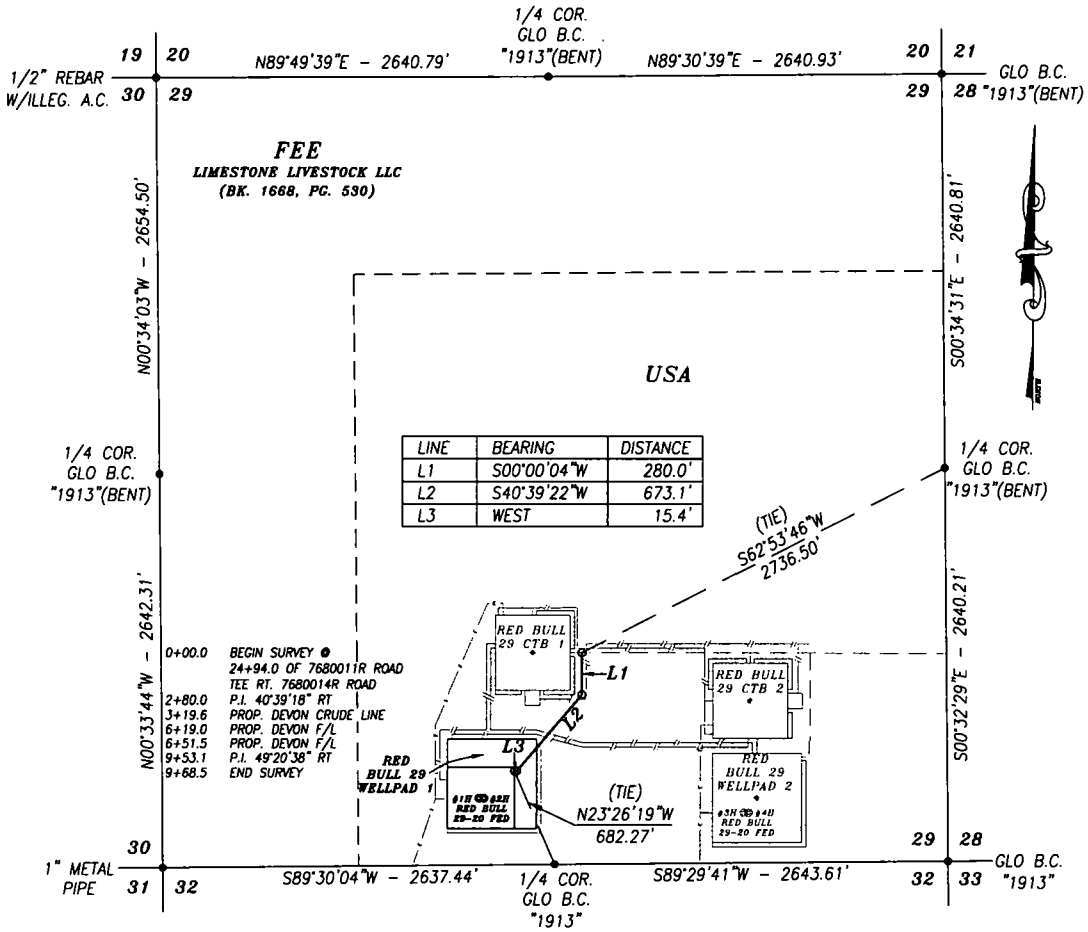
ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680012R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM THE PROPOSED "RED BULL 29 PRIMARY ACCESS ROAD" TO THE "RED BULL 29 WELLPAD #1" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 968.5 FEET OR 58.70 RODS OR 0.183 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S62°53'46"W 2736.50 FEET FROM THE EAST QUARTER CORNER OF SAID SECTION; THEN S00°00'04"W 280.0 FEET; THEN S40°39'22"W 673.1 FEET; THEN WEST 15.4 FEET, TO A POINT WHICH LIES N23°26'19"W 682.27 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 9/13/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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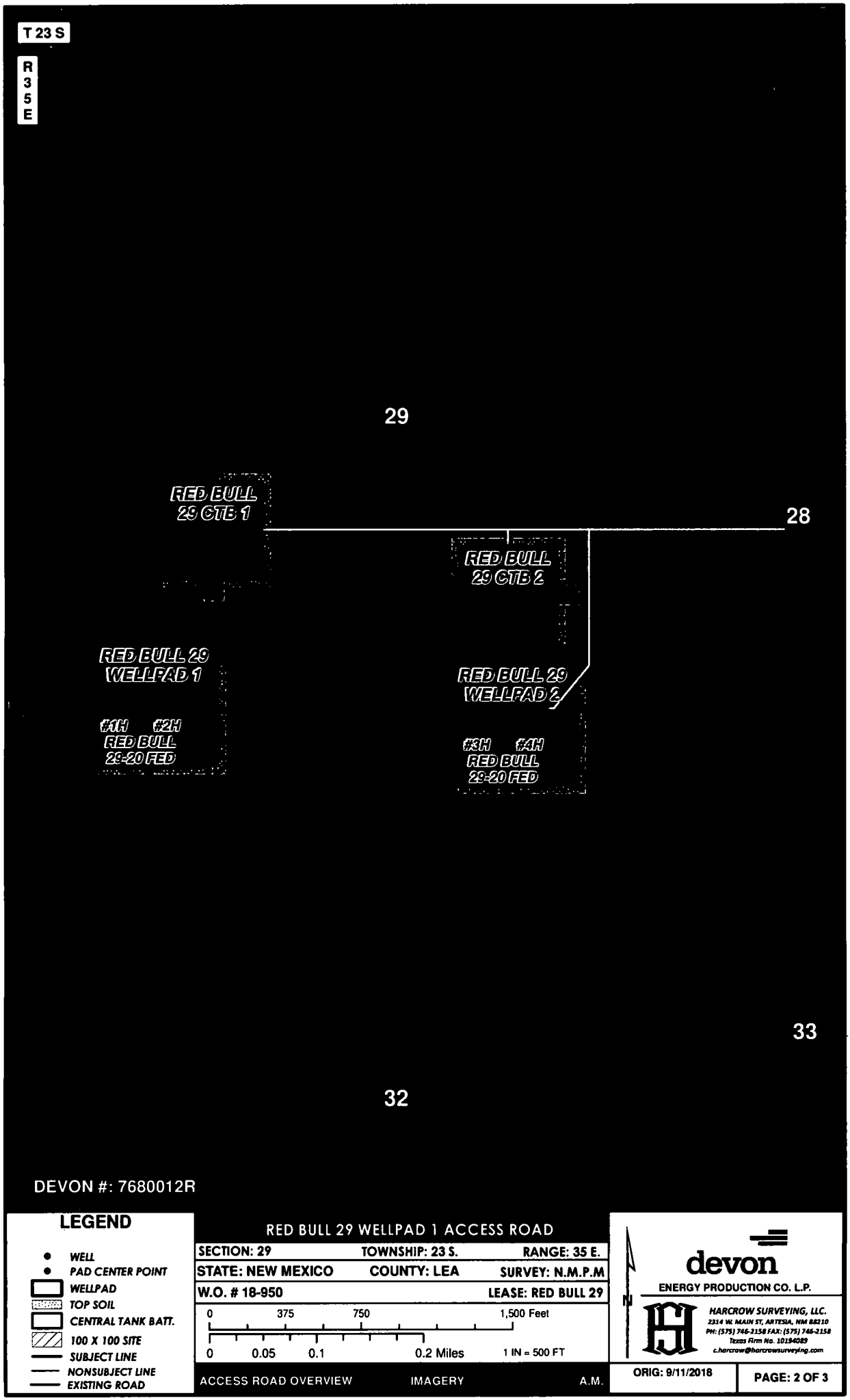
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018		7680012R
DRAFTING DATE: SEPTEMBER 13, 2018		PAGE 1 OF 3
APPROVED BY: CH	DRAWN BY: SP	FILE: 18-950



DEVON #: 7680012R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 WELLPAD 1 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-950		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

devon
ENERGY PRODUCTION CO. L.P.

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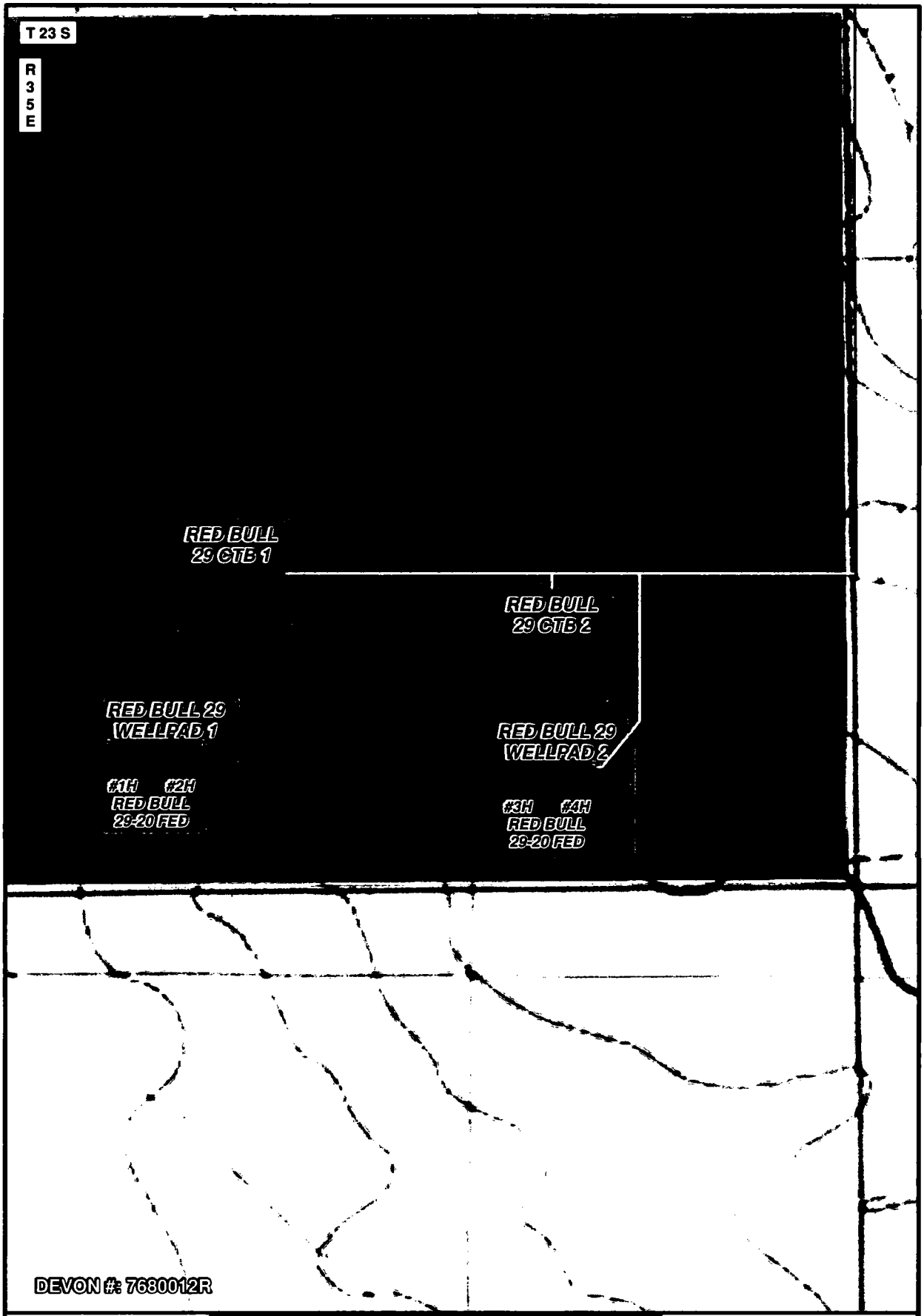
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 WELLPAD 1 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-950		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

N

devon
ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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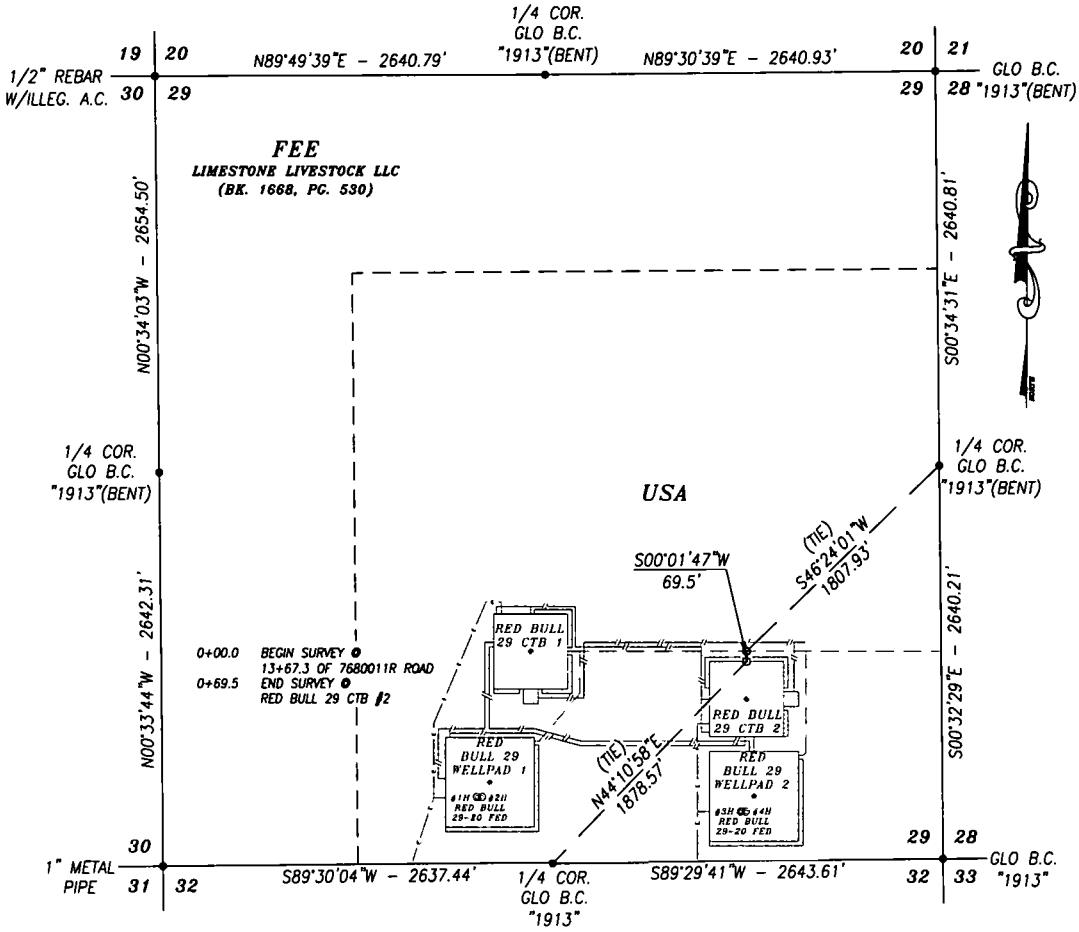
ORIG: 9/11/2018

ACCESS ROAD PLAT: 7680015R
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ACCESS ROAD FROM THE PROPOSED "RED BULL 29 PRIMARY ACCESS ROAD" TO THE "RED BULL 29 CTB #2" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 69.5 FEET OR 4.21 RODS OR 0.013 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S46°24'01"W 1807.93 FEET FROM THE EAST QUARTER CORNER; THEN S00°01'47"W 69.5 FEET TO A POINT WHICH LIES N44°10'58"E 1878.57 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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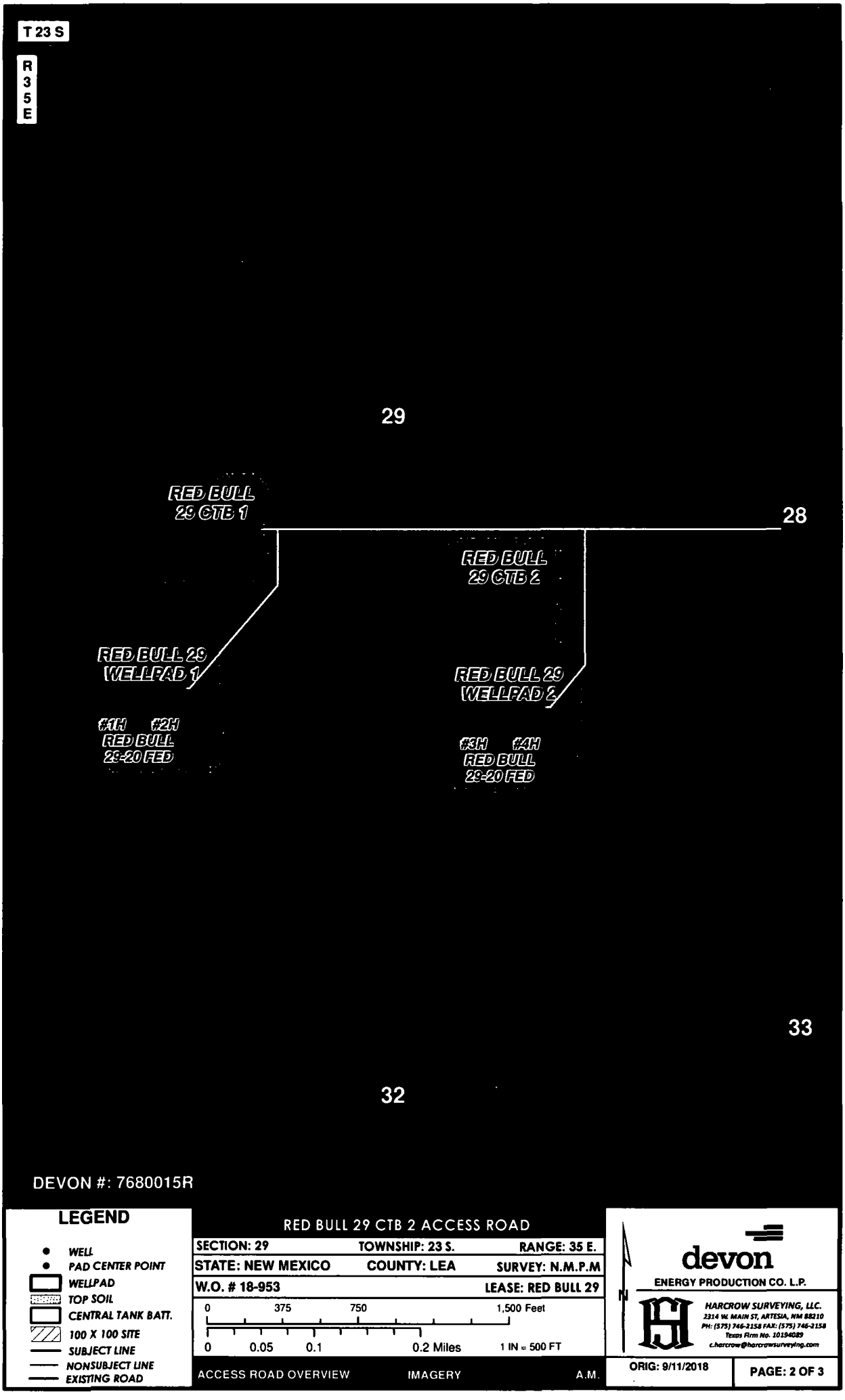
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.		
SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO		
SURVEY DATE: AUGUST 20, 2018		7680015R
DRAFTING DATE: AUGUST 30, 2018		PAGE 1 OF 3
APPROVED BY: CH	DRAWN BY: SP	FILE: 18-953



DEVON #: 7680015R

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD

RED BULL 29 CTB 2 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-953		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW IMAGERY A.M.

N

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ENERGY PRODUCTION CO. L.P.

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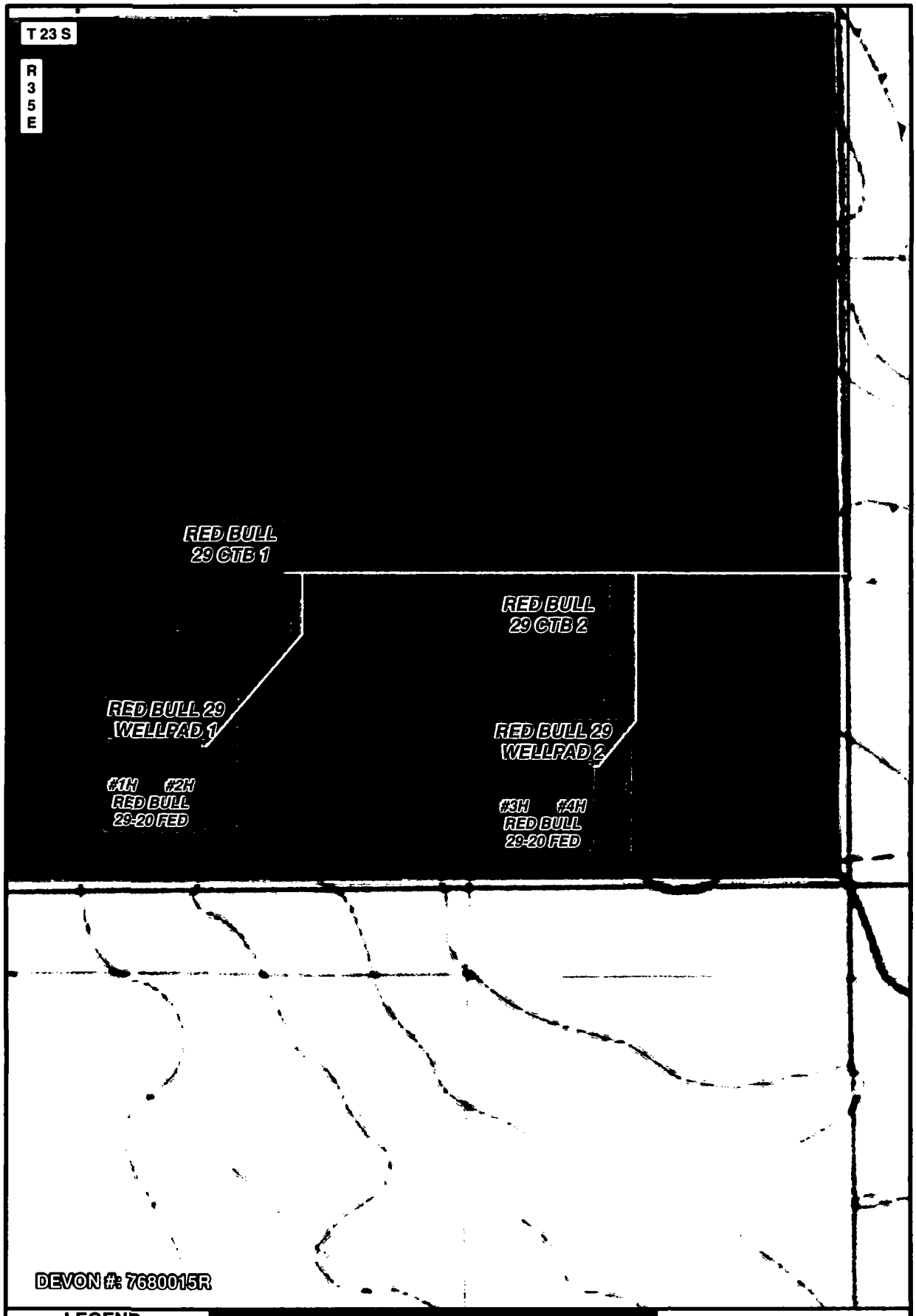
ORIG: 9/11/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- EXISTING ROAD
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 CTB 2 ACCESS ROAD

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-953		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

ACCESS ROAD OVERVIEW LAND STATUS A.M.

devon
ENERGY PRODUCTION CO. L.P.

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c.harcrow@harcrowsurveying.com

ORIG: 9/11/2018

PLAT

One Mile Radius Map

devon

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 9/18/2018

N

Miles
0 0.3

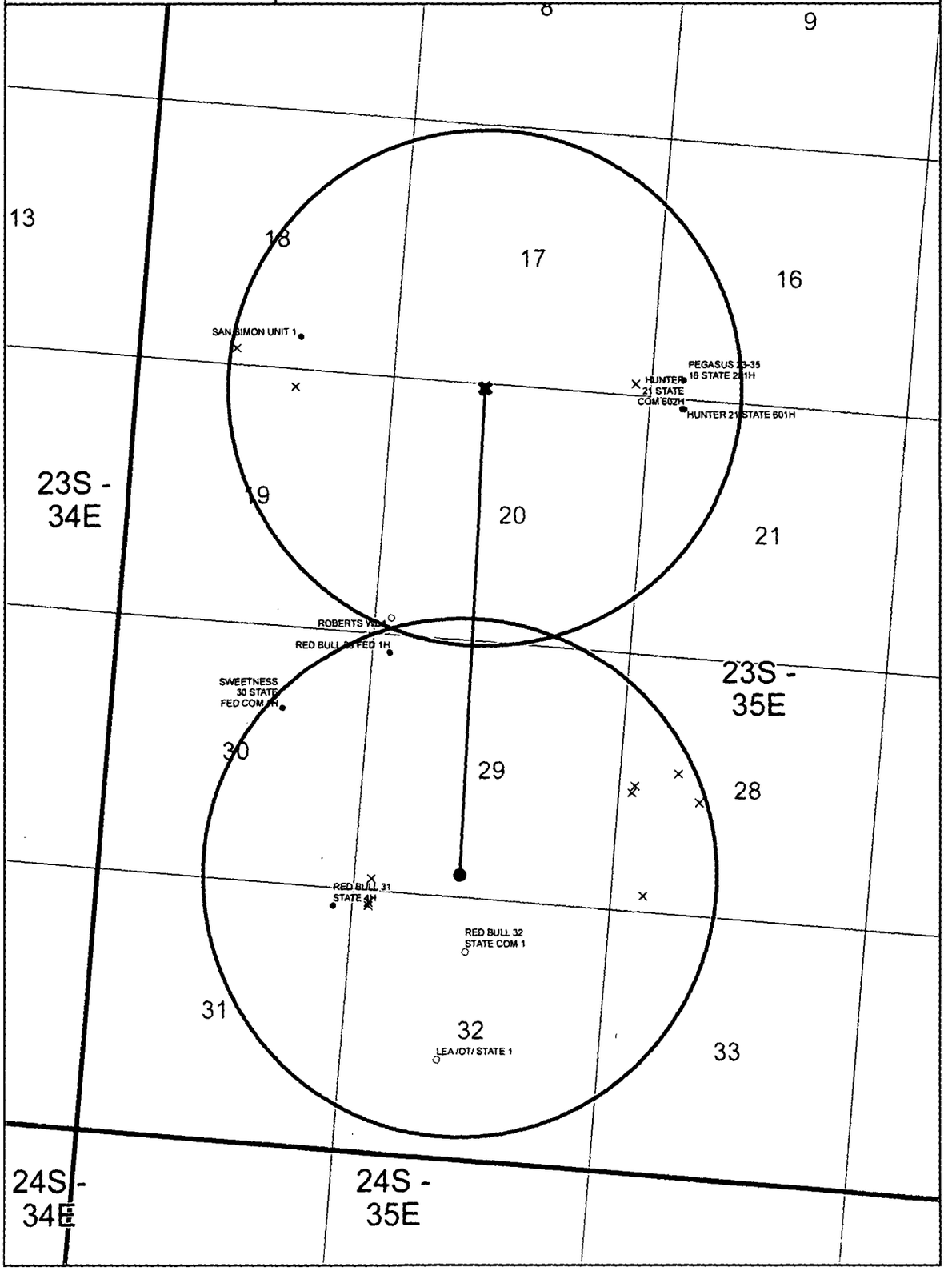
1 inch = 0.44 miles

RED BULL 29-20 FED 002H
WA017406804

RED BULL 29 FED 1H
Nearest wellbore to SHL: 1801 ft.

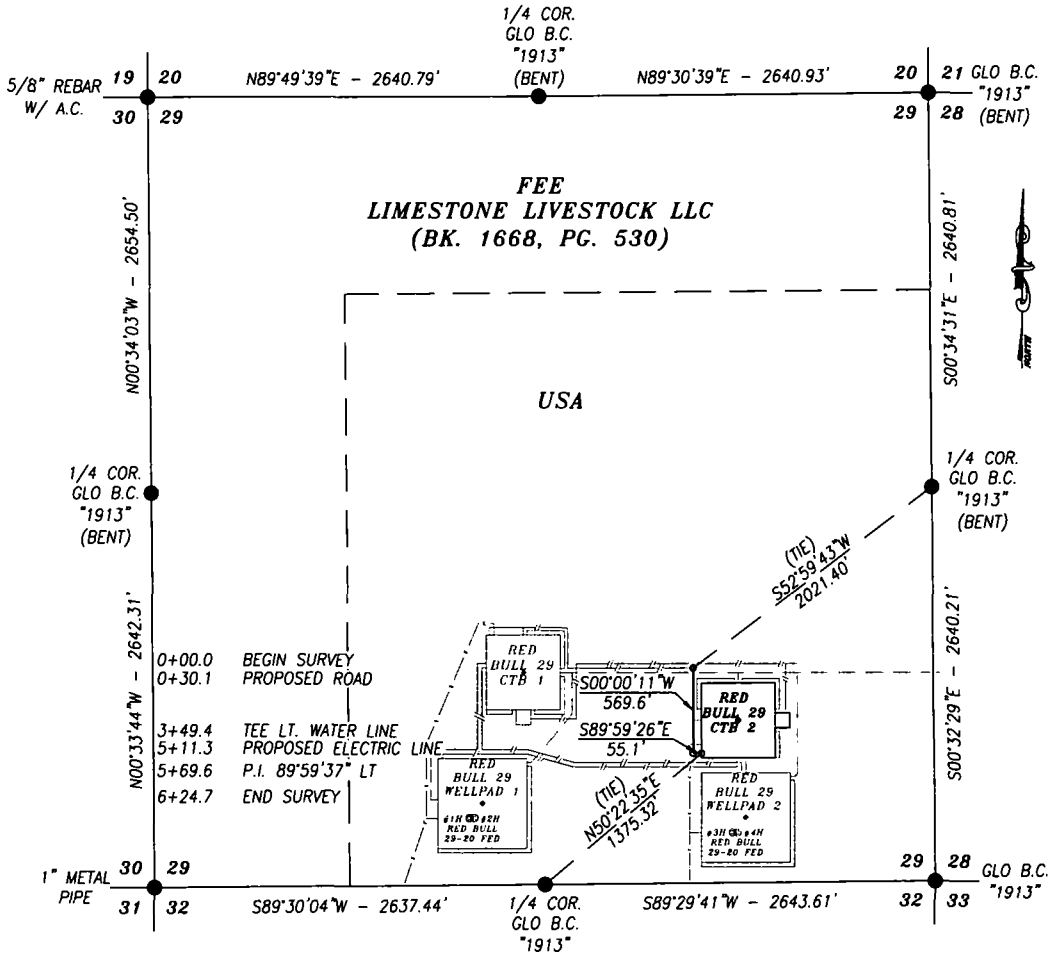
WICKED 17 STATE COM 301H
Nearest wellbore to BHL: 3101 ft.

- ○ Unknown SHL
- • Active SHL
- ○ Inactive SHL
- × BHL



PIPELINE PLAT: 7680017XZ
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED BATTERY CONNECT GAS/WATER LINE TO THE RED BULL 29 CTB 2 IN
SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 624.7 FEET OR 37.86 RODS OR 0.118 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S52°59'43"W 2021.40 FEET FROM THE EAST QUARTER CORNER; THEN S00°00'11"W 569.6 FEET; THEN S89°59'26"E 55.1 FEET TO A POINT WHICH LIES N50°22'35"E 1375.32 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

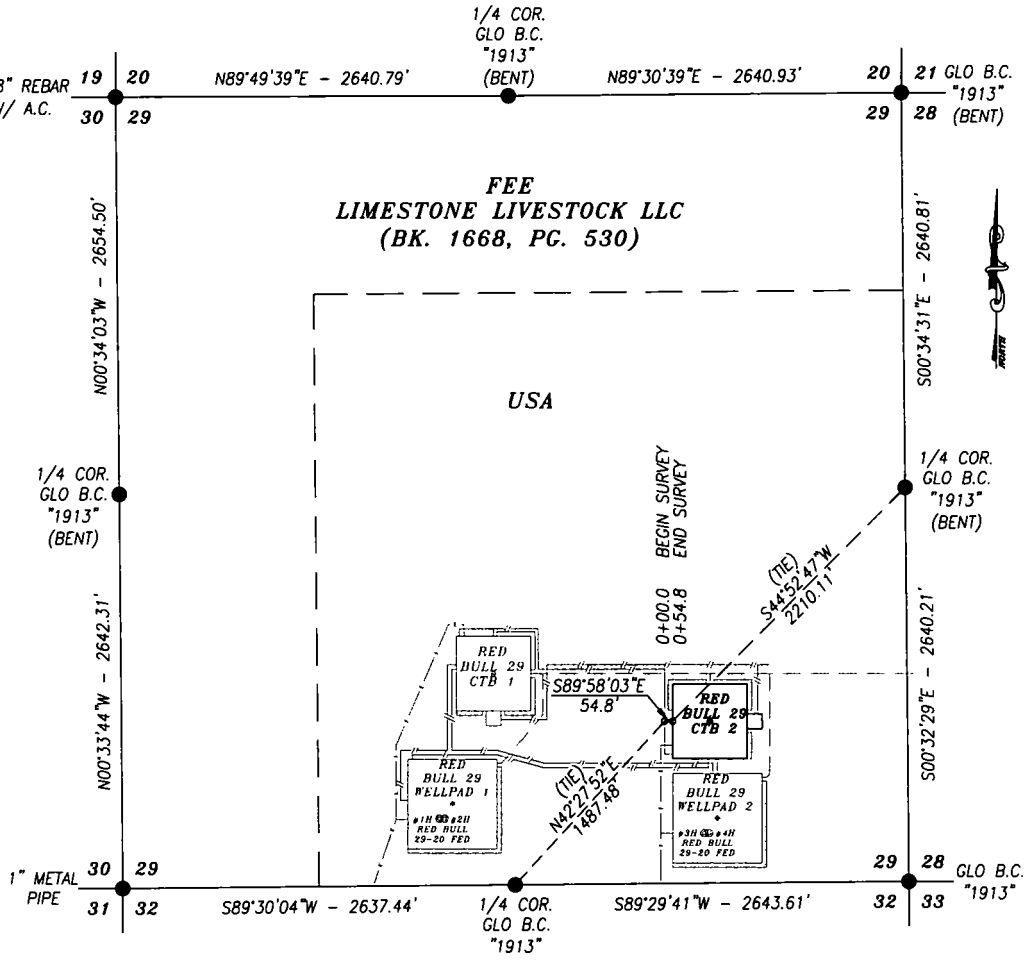
DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED PIPELINE LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680017XZ
DRAFTING DATE: AUGUST 30, 2018	PAGE 1 OF 4
APPROVED BY: CH / DRAWN BY: AM	FILE: 18-1058

PIPELINE PLAT: 7680017XZ
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED BATTERY CONNECT WATER LINE LATERAL TO THE RED BULL 29 CTB 2 IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 54.8 FEET OR 3.32 RODS OR 0.010 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S44°52'47"W 2210.11 FEET FROM THE EAST QUARTER CORNER; THEN S89°58'03"E 54.8 FEET TO A POINT WHICH LIES N42°27'52"E 1487.48 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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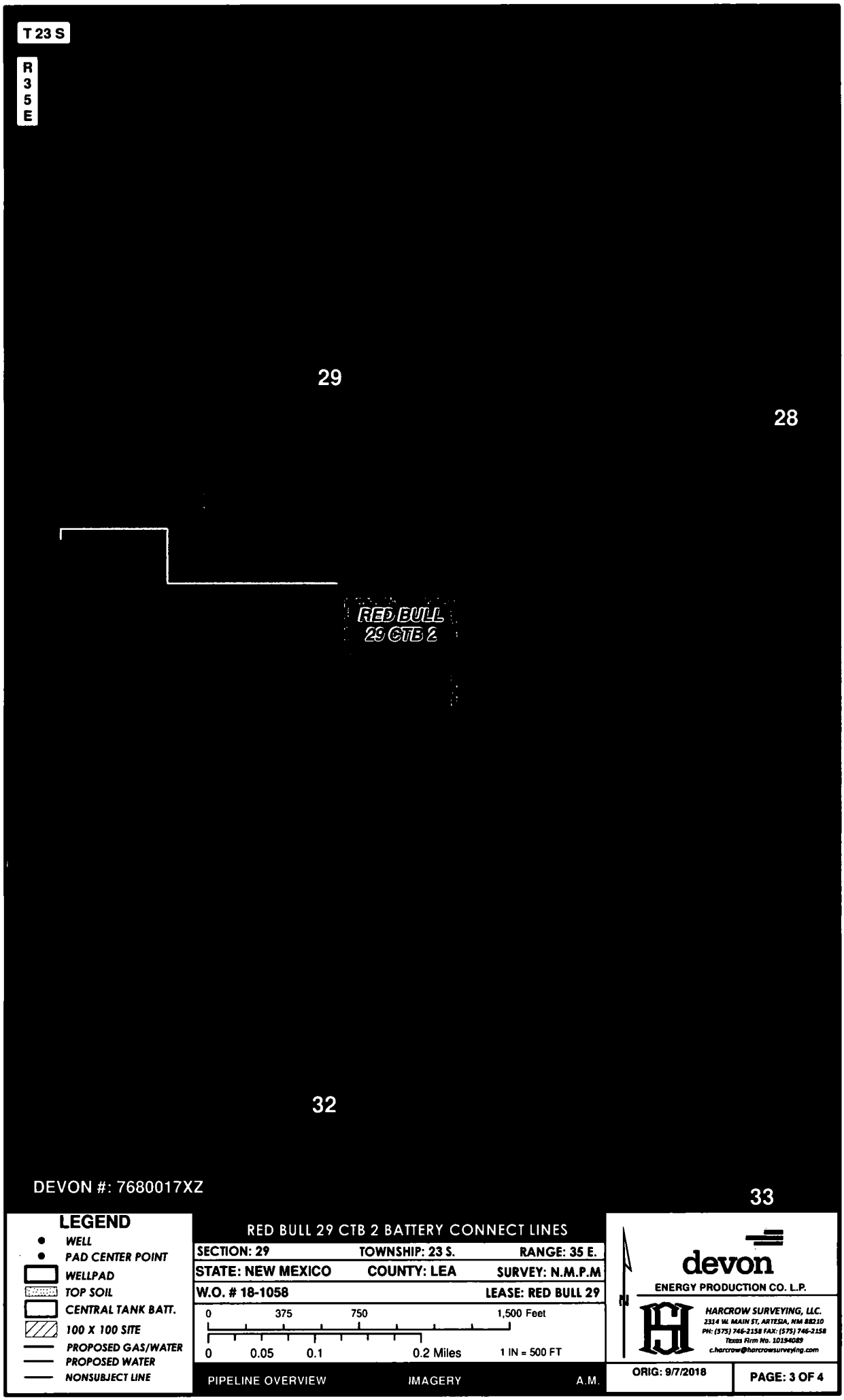
1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED PIPELINE LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018		7680017XZ
DRAFTING DATE: AUGUST 30, 2018		PAGE 2 OF 4
APPROVED BY: CH	DRAWN BY: AM	FILE: 18-1058



DEVON #: 7680017XZ

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- PROPOSED GAS/WATER
- PROPOSED WATER
- NONSUBJECT LINE

RED BULL 29 CTB 2 BATTERY CONNECT LINES

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-1058		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

PIPELINE OVERVIEW IMAGERY A.M.

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ENERGY PRODUCTION CO. L.P.

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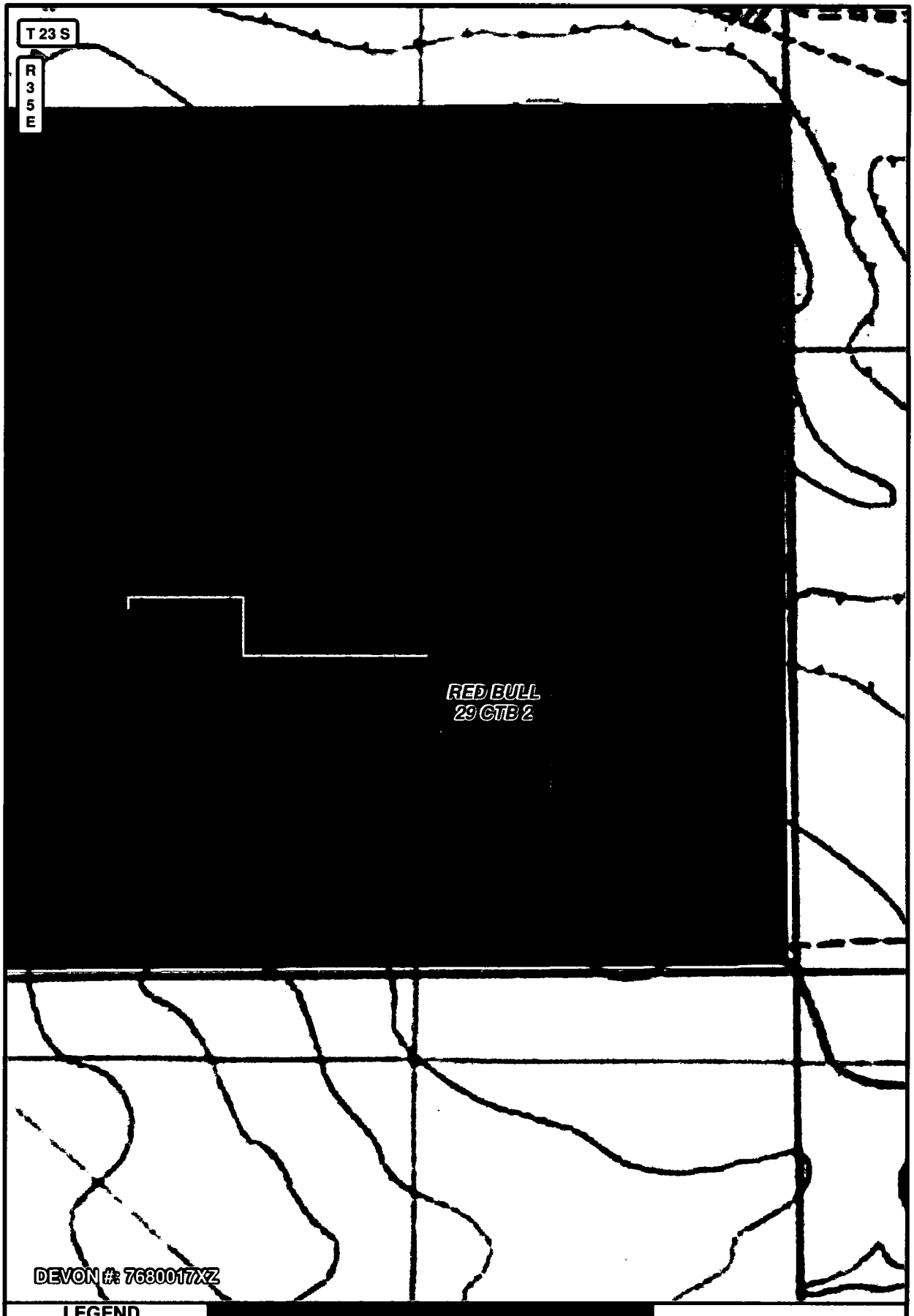
ORIG: 9/7/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- PROPOSED GAS/WATER
- PROPOSED WATER
- NONSUBJECT LINE
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 CTB 2 BATTERY CONNECT LINES

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-1058		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

PIPELINE OVERVIEW LAND STATUS A.M.

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ENERGY PRODUCTION CO. L.P.

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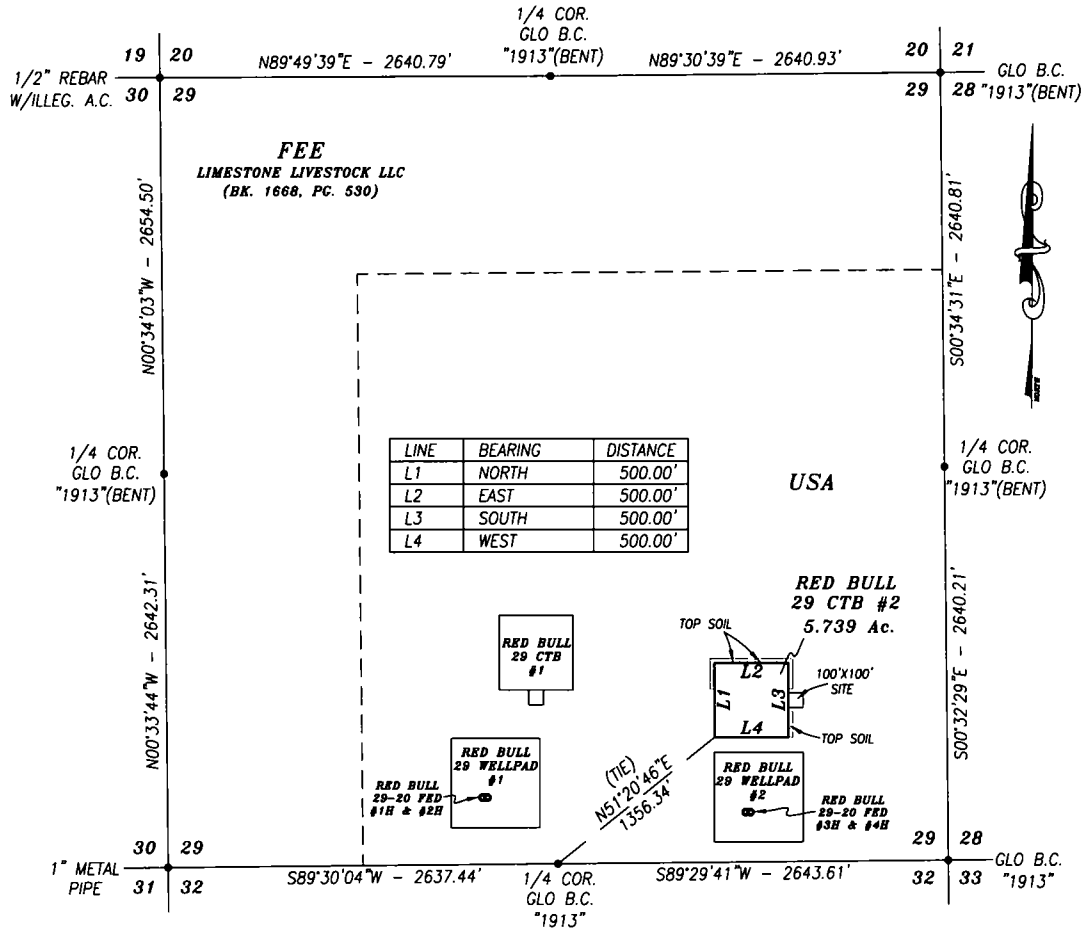
ORIG: 9/7/2018

CENTRAL TANK BATTERY PLAT: AA000189610
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED CENTRAL TANK BATTERY KNOWN AS THE "RED BULL 29 CTB #2" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



LINE	BEARING	DISTANCE
L1	NORTH	500.00'
L2	EAST	500.00'
L3	SOUTH	500.00'
L4	WEST	500.00'

DESCRIPTION

A PROPOSED CENTRAL TANK BATTERY LOCATED WITHIN USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID CENTRAL TANK BATTERY; WHICH LIES N51°20'46"E 1356.34 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION; THEN NORTH 500.00 FEET; THEN EAST 500.00 FEET; THEN SOUTH 500.00 FEET; THEN WEST 500.00 FEET, TO THE POINT OF BEGINNING.

SAID CENTRAL TANK BATTERY CONTAINING 5.739 ACRES.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 9/6/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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1000 0 1000 2000 FEET
SCALE: 1"=1000'

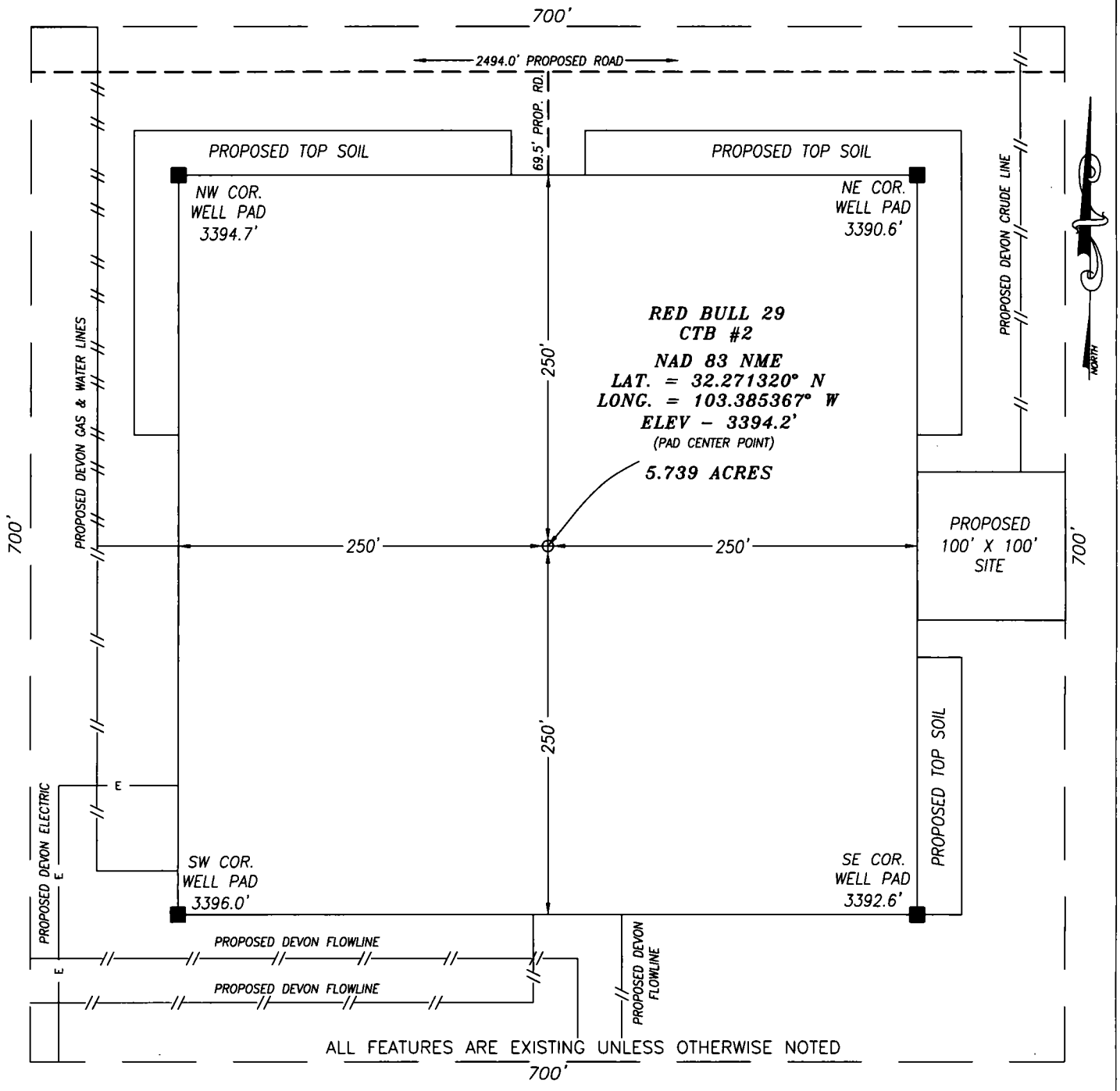
DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED CENTRAL TANK BATTERY LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 21, 2018	AA000189610
DRAFTING DATE: SEPTEMBER 4, 2018	PAGE 1 OF 5
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-1062

SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,

LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF C.R. 21 (DELAWARE BASIN RD) AND C.R. 32 HEADING EAST ON C.R. 21 GO APPROX. 2.1 MILES; GO RIGHT (SOUTH) ON A CALICHE ROAD, GO APPROX. 3.4 MILES, STAY LEFT AT Y, CONTINUE SOUTH FOR APPROX. 0.1 MILES, STAY RIGHT AT Y, CONTINUE SOUTH FOR APPROX. 0.6 TO PROPOSED ROAD

100 0 100 200 Feet

Scale: 1"=100'

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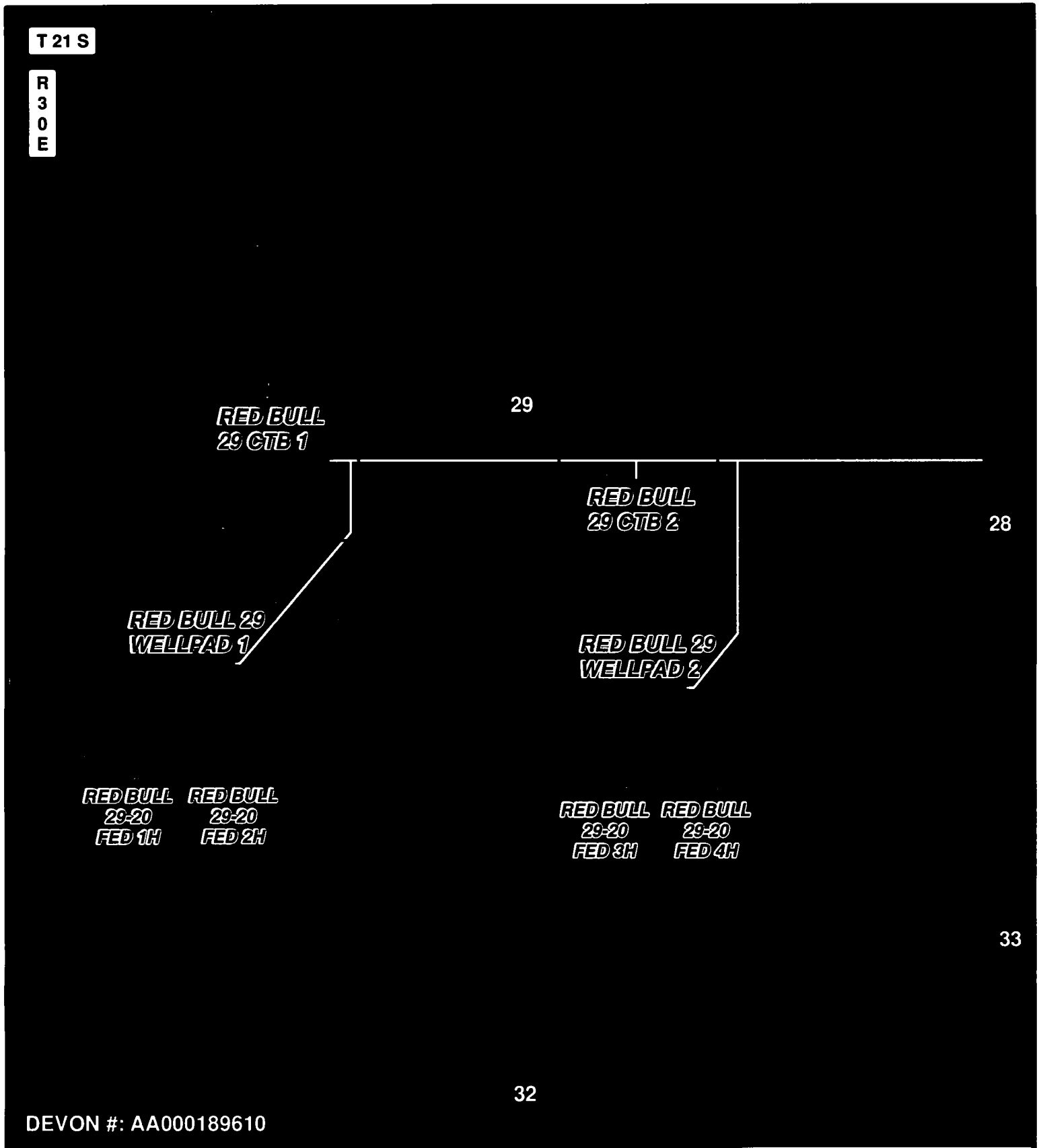
DEVON ENERGY PRODUCTION CO., L.P.

RED BULL 29 CTB #2
LOCATED 1086 FEET FROM THE SOUTH LINE AND 1324 FEET FROM THE WEST LINE OF SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 21, 2018		REV:
DRAFTING DATE: SEPTEMBER 4, 2018		
APPROVED BY: CH	DRAWN BY: SP	PAGE: 2 OF 5
FILE: 18-1062	DEVON #: AA000189610	SITE MAP



DEVON #: AA000189610

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- PROPOSED ROAD
- PROPOSED FLOWLINE
- PROPOSED CRUDE
- PROPOSED ELECTRIC
- PROPOSED GAS/WATER
- PROPOSED WATER
- EXISTING ROAD

RED BULL 29 CTB 2

SEC: 29	TWP: 23 S.	RGE: 35 E.	ELEVATION: 3394.2'
STATE: NEW MEXICO		COUNTY: LEA	1086' FSL & 1324' FWL
W.O. # 18-1062	LEASE: RED BULL 29		SURVEY: N.M.P.M

0 250 500 750 1,000 1,250 1,500 FEET

0 0.03250.065 0.13 Miles

1 IN = 500 FT

LOCATION MAP AERIAL PHOTO A.M.

N

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ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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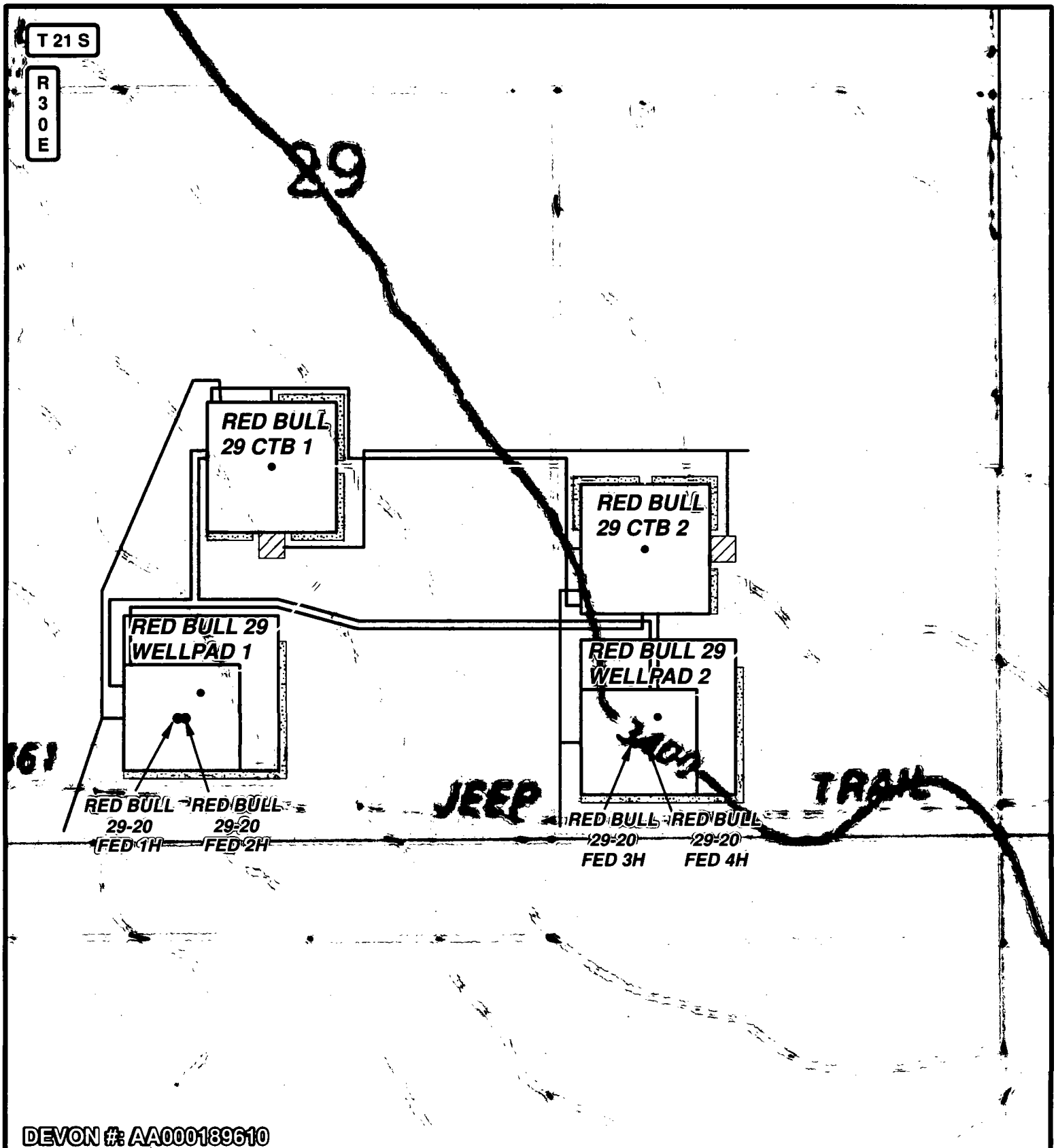
ORIG: 9/13/2018



DEVON #: AA000189610

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- PROPOSED ROAD
- PROPOSED FLOWLINE
- PROPOSED CRUDE
- PROPOSED ELECTRIC
- PROPOSED GAS/WATER
- PROPOSED WATER
- EXISTING ROAD

RED BULL 29 CTB 2

SEC: 29	TWP: 23 S.	RGE: 35 E.	ELEVATION: 3394.2'
STATE: NEW MEXICO	COUNTY: LEA		1086' FSL & 1324' FWL
W.O. # 18-1062	LEASE: RED BULL 29		SURVEY: N.M.P.M

0 250 500 750 1,000 1,250 1,500 FEET

0 0.03250.065 0.13 Miles

1 IN = 500 FT

LOCATION VERIFICATION MAP TOPO A.M.

N

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ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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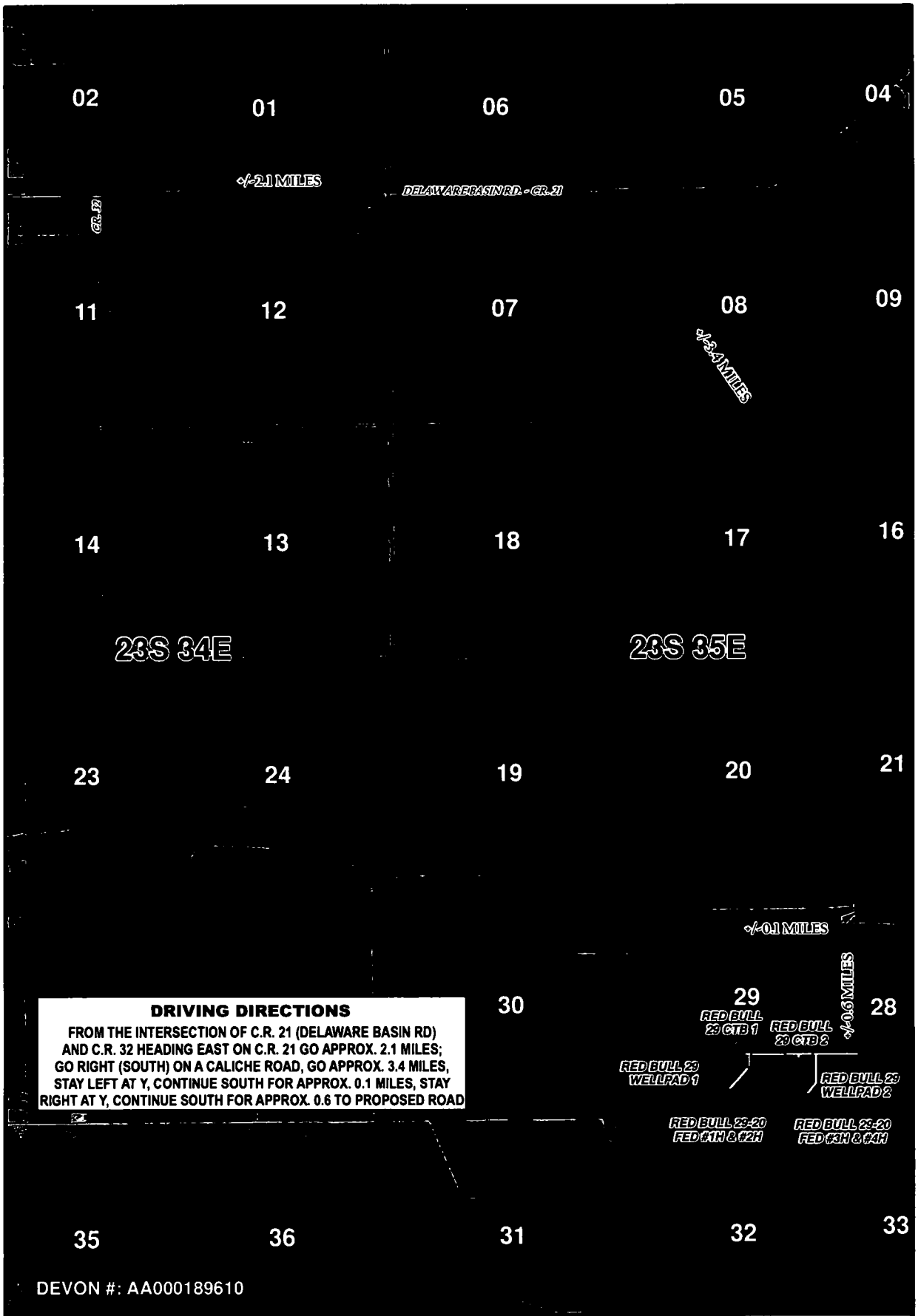
ORIG: 9/13/2018



DRIVING DIRECTIONS

FROM THE INTERSECTION OF C.R. 21 (DELAWARE BASIN RD) AND C.R. 32 HEADING EAST ON C.R. 21 GO APPROX. 2.1 MILES; GO RIGHT (SOUTH) ON A CALICHE ROAD, GO APPROX. 3.4 MILES, STAY LEFT AT Y, CONTINUE SOUTH FOR APPROX. 0.1 MILES, STAY RIGHT AT Y, CONTINUE SOUTH FOR APPROX. 0.6 TO PROPOSED ROAD

DEVON #: AA000189610

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- PROPOSED ROAD
- PROPOSED FLOWLINE
- PROPOSED CRUDE
- PROPOSED ELECTRIC
- PROPOSED GAS
- PROPOSED WATER
- EXISTING ROAD

RED BULL 29 CTB 2

SEC: 29	TWP: 23 S.	RGE: 35 E.	ELEVATION: 3411.4'
STATE: NEW MEXICO		COUNTY: LEA	1418' FSL & 2504' FWL
W.O. # 18-1062		LEASE: RED BULL 29	SURVEY: N.M.P.M

0 0.4 0.8 1.6 Miles

1 IN = 2,500 FT

AERIAL ACCESS ROUTE MAP DRIVING DIRECTIONS A.M.

N

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ENERGY PRODUCTION CO. L.P.

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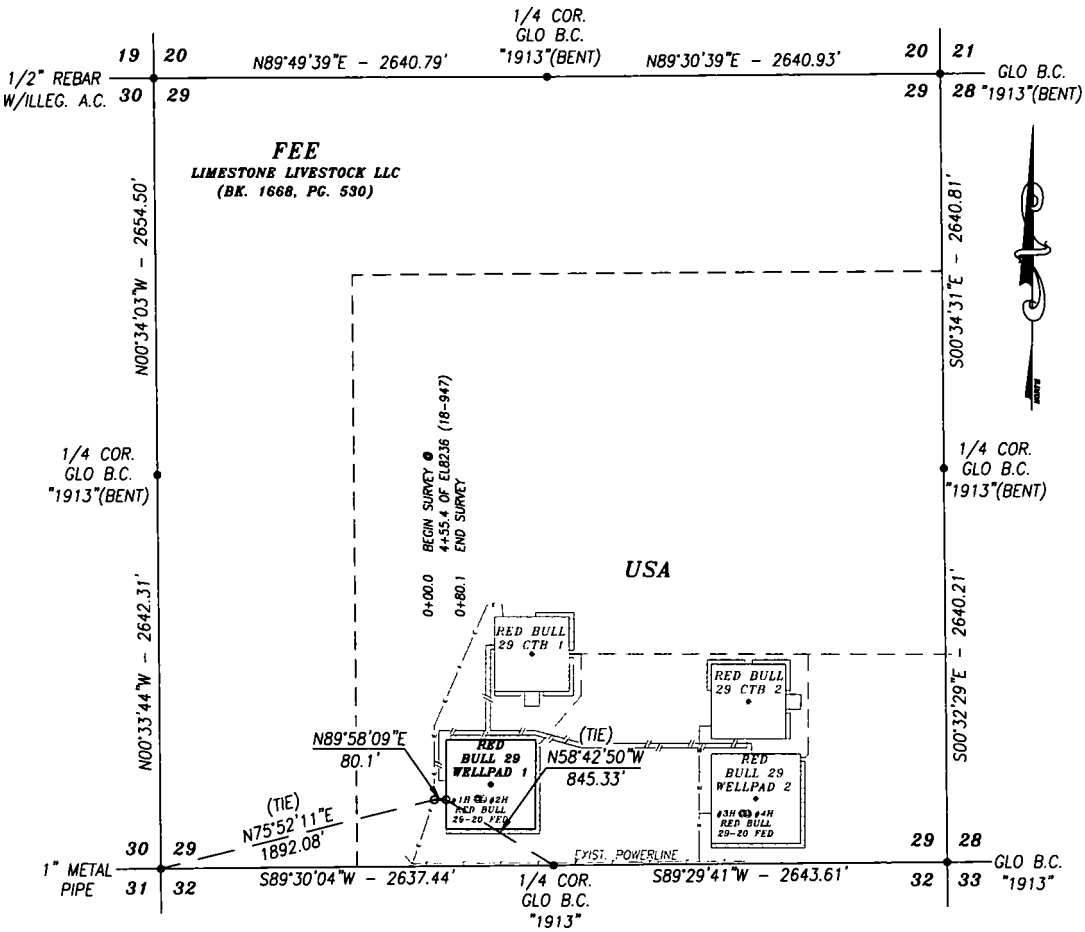
ORIG: 9/13/2018

ELECTRIC LINE PLAT: EL8234
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ELECTRIC LINE FROM THE PROPOSED "EL8236 ELECTRIC LINE"
TO THE "RED BULL 29 WELLPAD #1" IN
SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 80.1 FEET OR 4.85 RODS OR 0.015 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES N75°52'11"E 1892.08 FEET FROM THE SOUTHWEST CORNER; THEN N89°58'09"E 80.1 FEET TO A POINT WHICH LIES N58°42'50"W 845.33 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/29/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

HARCROW SURVEYING, LLC
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c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ELECTRIC LINE LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 21, 2018		EL8234
DRAFTING DATE: AUGUST 29, 2018		PAGE 1 OF 3
APPROVED BY: CH	DRAWN BY: SP	FILE: 18-945

T 23 S

R 35 E

29

32

DEVON #: EL8234

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE

RED BULL 29 WELLPAD 1 ELECTRIC LINE

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-945		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles

1 IN = 500 FT

POWERLINE OVERVIEW IMAGERY A.M.

N

devon

ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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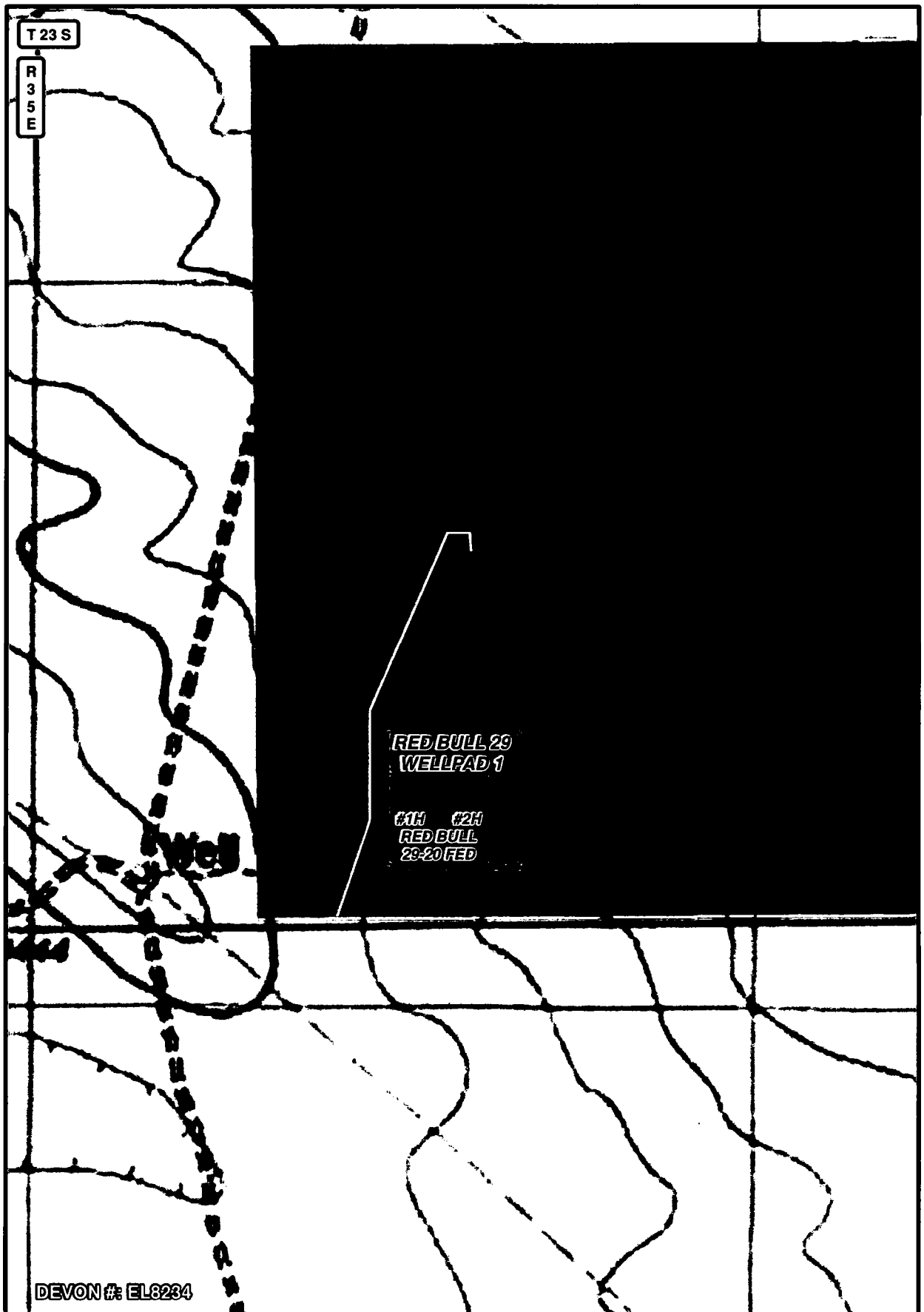
ORIG: 9/7/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 WELLPAD 1 ELECTRIC LINE

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-945		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

POWERLINE OVERVIEW LAND STATUS A.M.

N

devon
ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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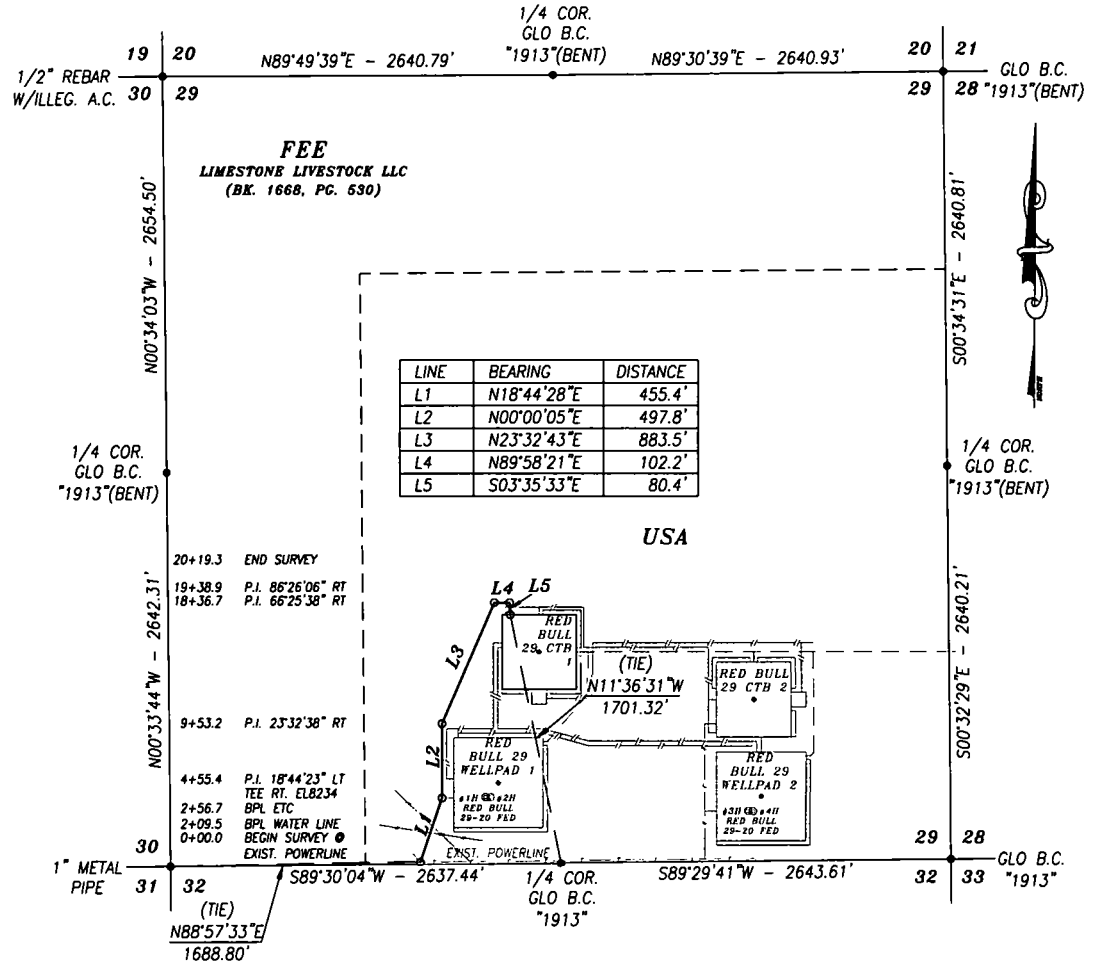
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

ORIG: 9/7/2018

ELECTRIC LINE PLAT: EL8236
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED ELECTRIC LINE FROM AN EXISTING ELECTRIC LINE
TO THE "RED BULL 29 CTB #1" IN
SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



LINE	BEARING	DISTANCE
L1	N18°44'28"E	455.4'
L2	N00°00'05"E	497.8'
L3	N23°32'43"E	883.5'
L4	N89°58'21"E	102.2'
L5	S03°35'33"E	80.4'

DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2019.3 FEET OR 122.38 RODS OR 0.382 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES N88°57'33"E 1688.80 FEET FROM THE SOUTHWEST CORNER; THEN N18°44'28"E 455.4 FEET; THEN N00°0'05"E 497.8 FEET; THEN N23°32'43"E 883.5 FEET; THEN N89°58'21"E 102.2 FEET; THEN S03°35'33"E 80.4 FEET TO A POINT WHICH LIES N11°36'31"W 1701.32 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/30/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

HARCROW SURVEYING, LLC
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PH: (575) 746-2158 FAX: (575) 746-2158
Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED ELECTRIC LINE LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 21, 2018	EL8236
DRAFTING DATE: AUGUST 29, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-947

T 23 S

R 35 E

29

RED BULL 29 CTB 1

32

DEVON #: EL8236

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE

RED BULL 29 CTB 1 ELECTRIC LINE

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-947		LEASE: RED BULL 29

0 310 620 1,240 Feet

0 0.04 0.08 0.16 Miles

1 IN = 417 FT

POWERLINE OVERVIEW IMAGERY A.M.

N

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ENERGY PRODUCTION CO. L.P.

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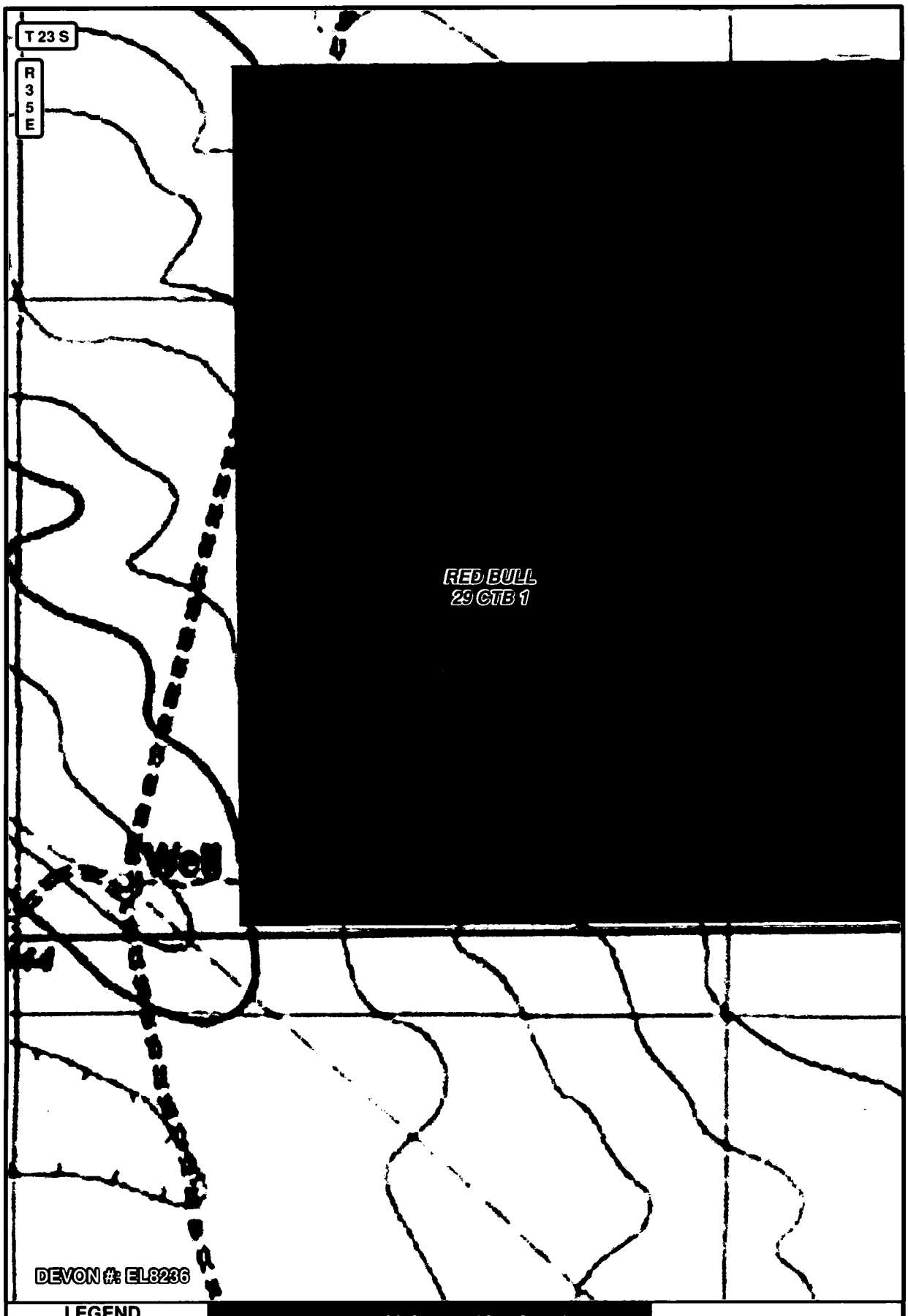
ORIG: 9/10/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 CTB 1 ELECTRIC LINE

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-947		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

POWERLINE OVERVIEW LAND STATUS A.M.

N

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ENERGY PRODUCTION CO. L.P.

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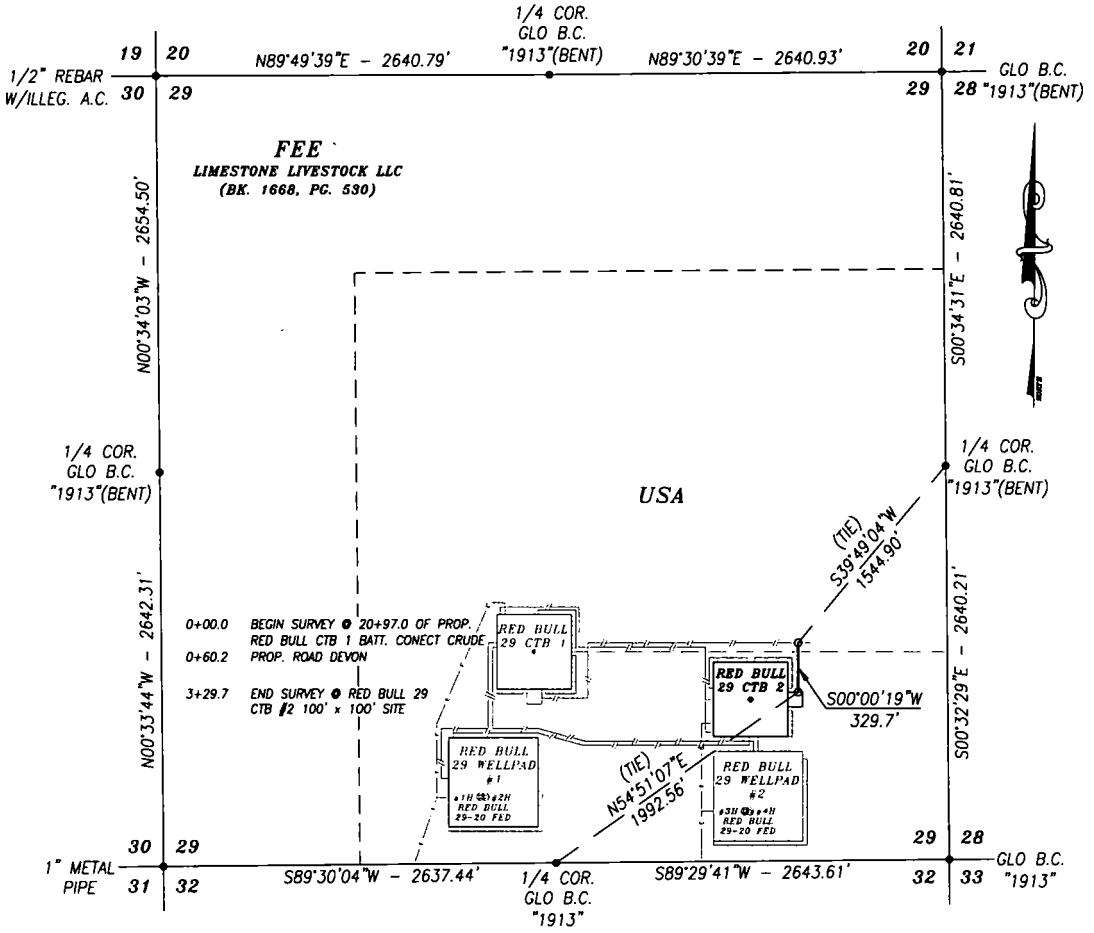
c.harcrow@harcrowsurveying.com

ORIG: 9/6/2018

BATTERY CONNECT CRUDE PLAT: 7680019Y
DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED BATTERY CONNECT CRUDE LINE SERVICING THE "RED BULL 29 CTB #2" IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 329.7 FEET OR 119.98 RODS OR 0.062 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S39°49'04"W 1544.90 FEET FROM THE EAST QUARTER CORNER; THEN S00°00'19"W 329.7 FEET TO A POINT WHICH LIES N54°51'07"E 1992.56 FEET FROM THE SOUTH QUARTER CORNER.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 8/31/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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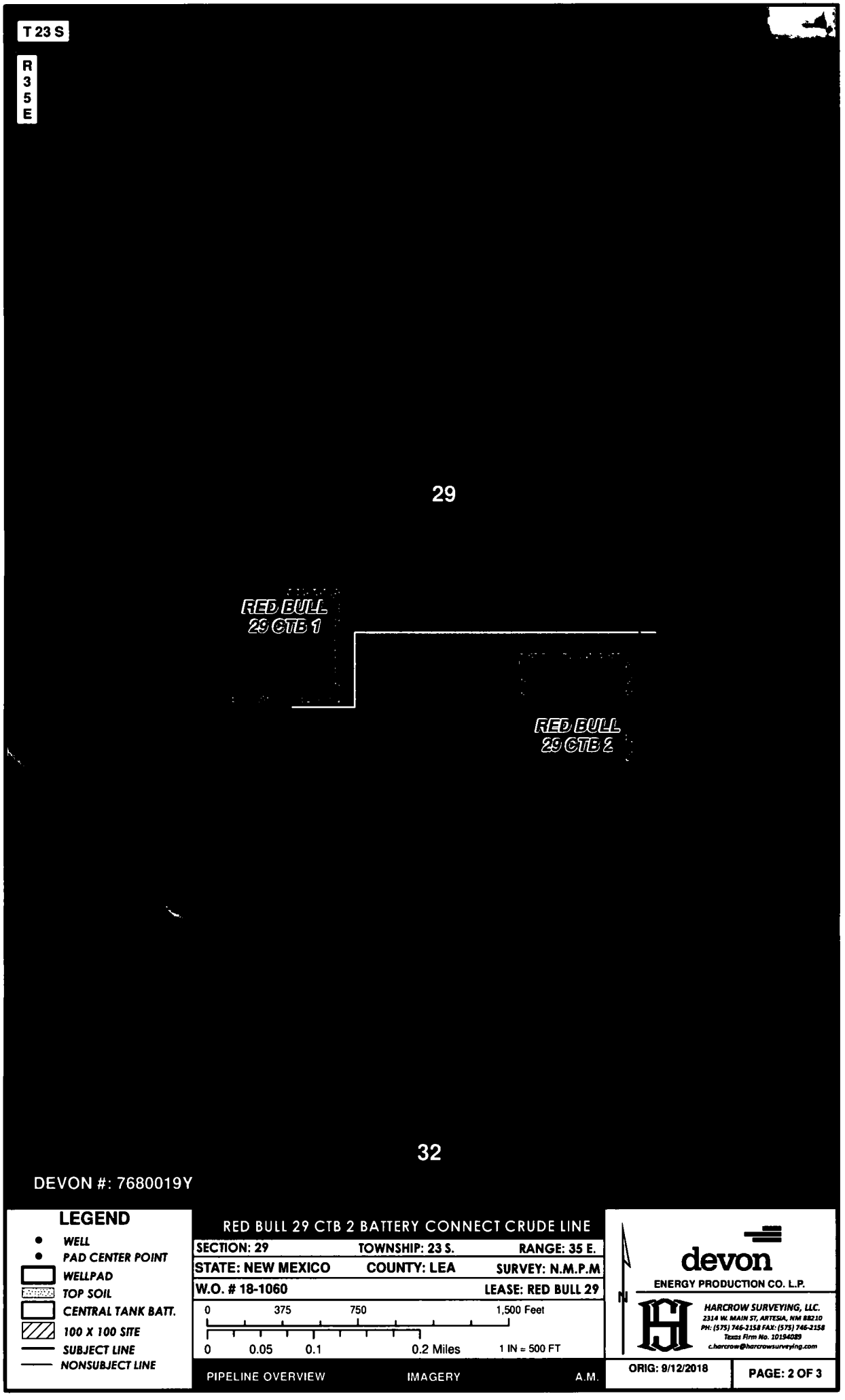
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED BATTERY CONNECT CRUDE LINE LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680019Y
DRAFTING DATE: AUGUST 31, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-1060



DEVON #: 7680019Y

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE

RED BULL 29 CTB 2 BATTERY CONNECT CRUDE LINE

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-1060		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

PIPELINE OVERVIEW IMAGERY A.M.

N

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ENERGY PRODUCTION CO. L.P.

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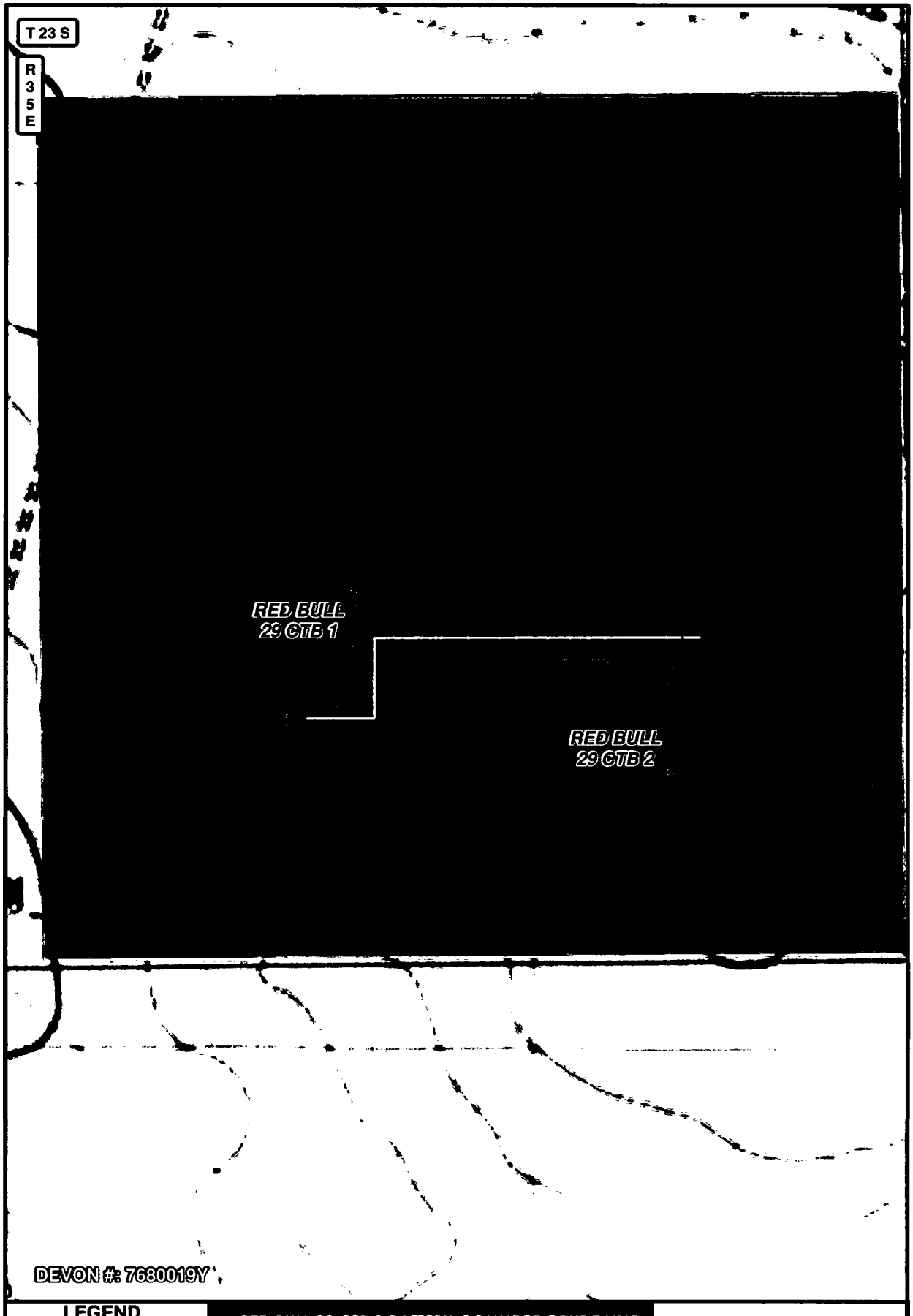
c.harcrow@harcrowsurveying.com

ORIG: 9/12/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT LINE
- NONSUBJECT LINE
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 CTB 2 BATTERY CONNECT CRUDE LINE

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-1060		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

PIPELINE OVERVIEW LAND STATUS A.M.

N

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ENERGY PRODUCTION CO. L.P.

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ORIG: 9/12/2018

TWO (8") BURIED COMPOSITE FLOW LINES AND ONE (8") BURIED COMPOSITE GAS LIFT LINE

ALL FLOWLINES ARE BURIED

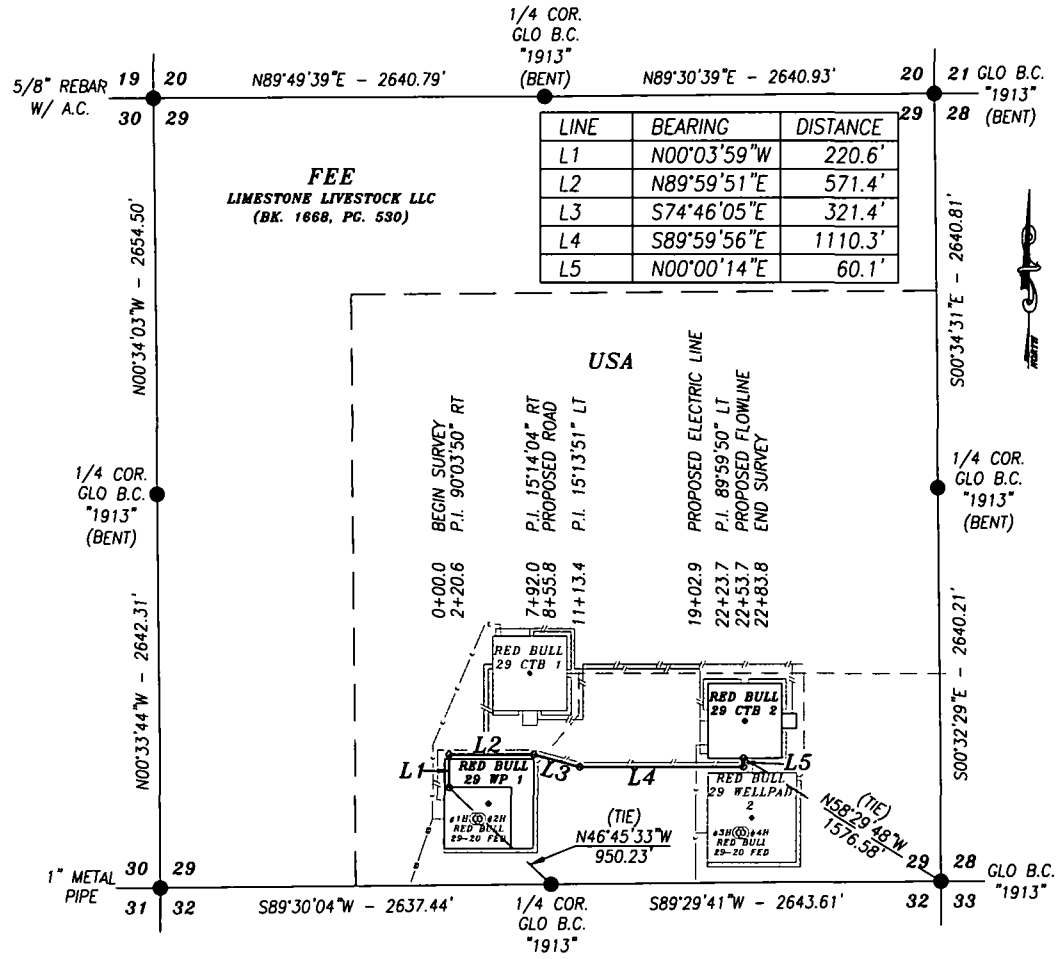
FLOWLINE PLAT: 7680008F

DEVON ENERGY PRODUCTION CO., L.P.

A PROPOSED FLOWLINE FROM THE RED BULL 29 WELLPAD 1 TO CTB 2 IN

SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,

LEA COUNTY, NEW MEXICO.



LINE	BEARING	DISTANCE
L1	N00°03'59"W	220.6'
L2	N89°59'51"E	571.4'
L3	S74°46'05"E	321.4'
L4	S89°59'56"E	1110.3'
L5	N00°00'14"E	60.1'

DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2283.8 FEET OR 138.41 RODS OR 0.433 MILES IN LENGTH CROSSING USA LAND IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES N46°45'33"W 950.23 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION; THEN N00°03'59"W 220.6 FEET; THEN N89°59'51"E 571.4 FEET; THEN S74°46'05"E 321.4 FEET; THEN S89°59'56"E 1110.3 FEET; THEN N00°00'14"E 60.1 FEET; TO A POINT WHICH LIES N58°29'48"W 1576.58 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION.

BASIS OF BEARING:
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

CERTIFICATION
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CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 9/13/18
CHAD HARCROW N.M.P.S. NO. 17777 DATE

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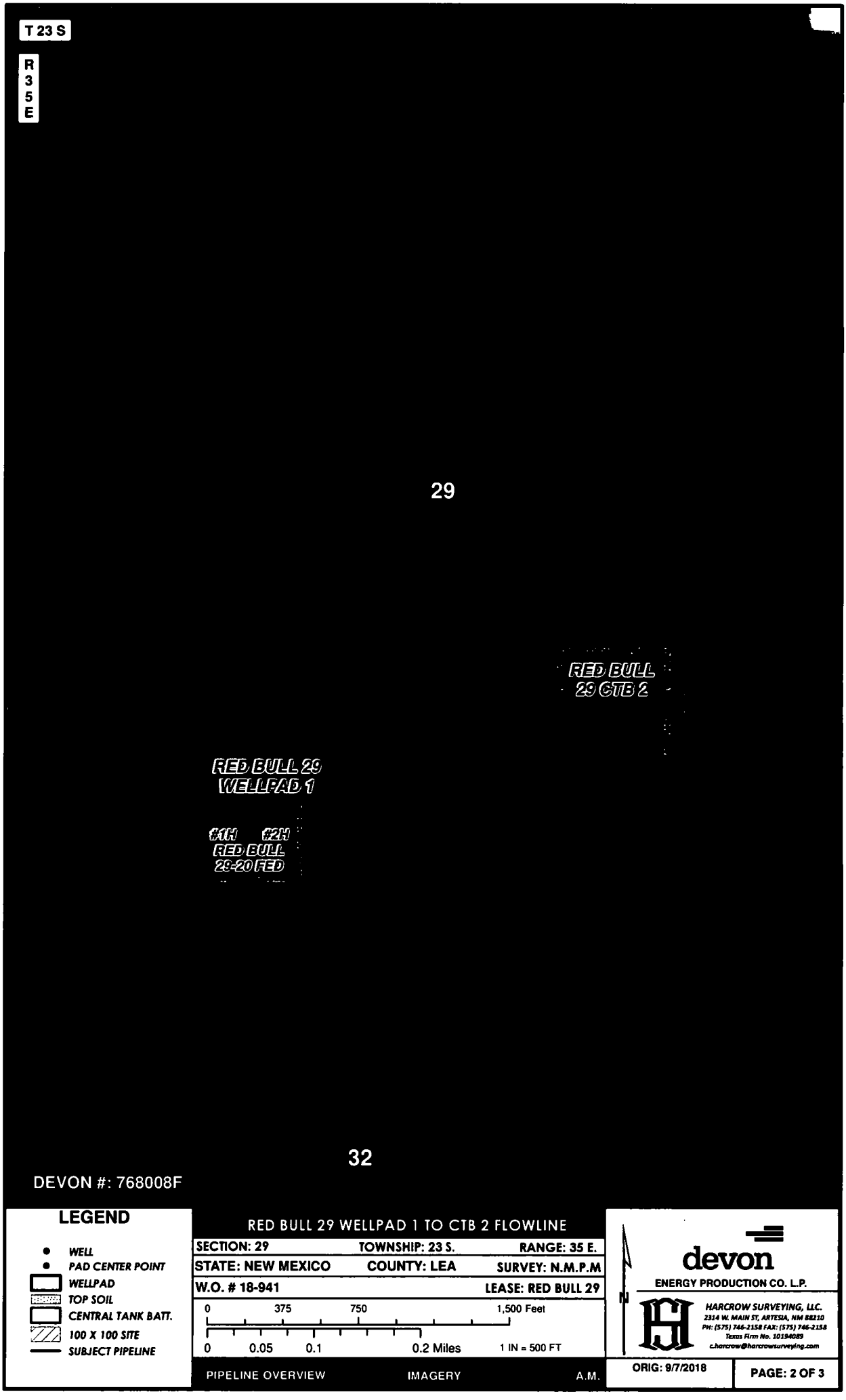
c.harcrow@harcrowsurveying.com

1000 0 1000 2000 FEET
SCALE: 1"=1000'

DEVON ENERGY PRODUCTION CO., L.P.

SURVEY OF A PROPOSED FLOWLINE LOCATED IN SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, NMPM, LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 20, 2018	7680008F
DRAFTING DATE: SEPTEMBER 13, 2018	PAGE 1 OF 3
APPROVED BY: CH / DRAWN BY: SP	FILE: 18-941



DEVON #: 768008F

LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT PIPELINE

RED BULL 29 WELLPAD 1 TO CTB 2 FLOWLINE

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-941		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles

1 IN = 500 FT

PIPELINE OVERVIEW IMAGERY A.M.

N

devon

ENERGY PRODUCTION CO. L.P.

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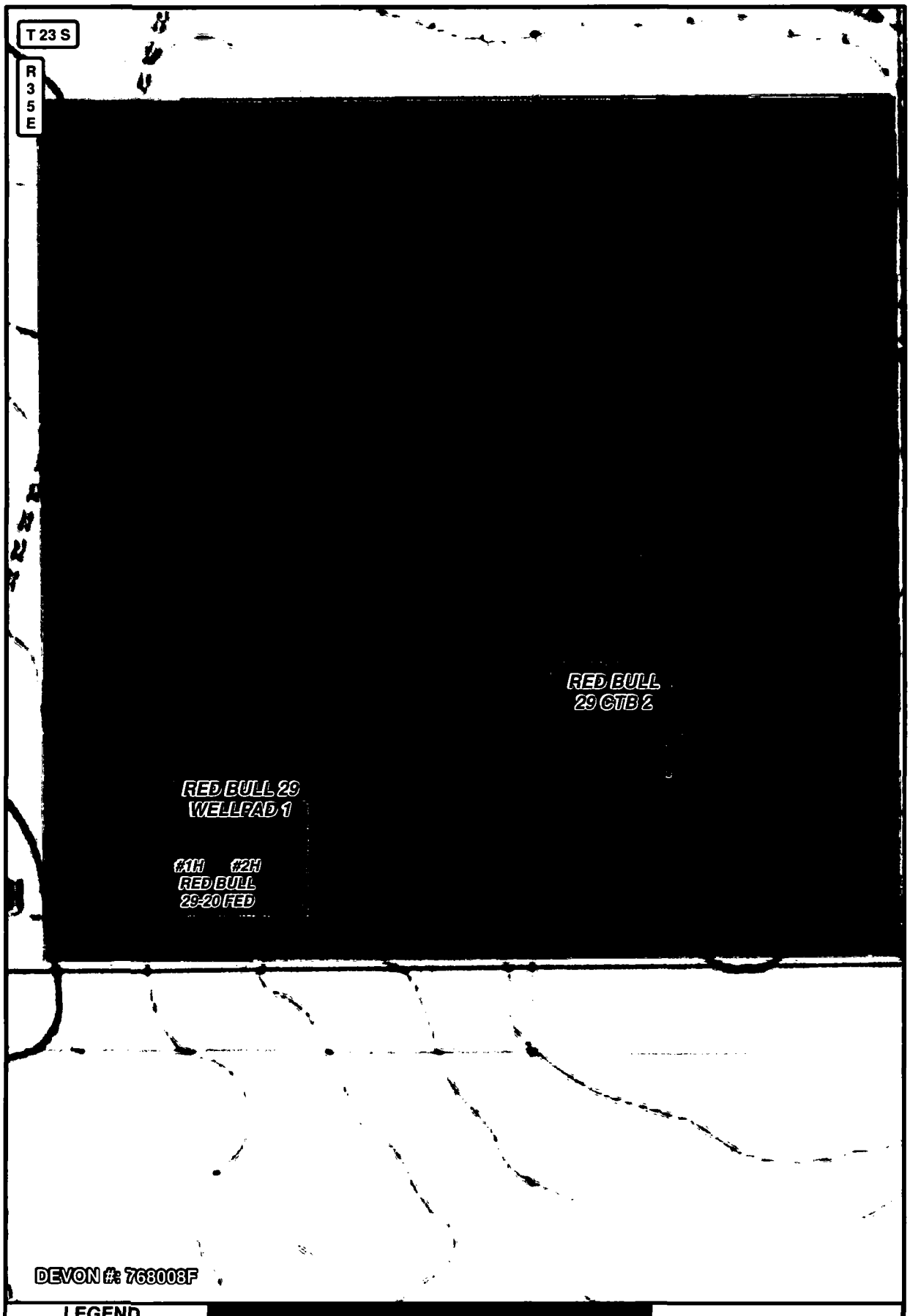
ORIG: 9/7/2018



LEGEND

- WELL
- PAD CENTER POINT
- WELLPAD
- TOP SOIL
- CENTRAL TANK BATT.
- 100 X 100 SITE
- SUBJECT PIPELINE
- PRIVATE
- STATE OF NM
- US BLM

RED BULL 29 WELLPAD 1 TO CTB 2 FLOWLINE

SECTION: 29	TOWNSHIP: 23 S.	RANGE: 35 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 18-941		LEASE: RED BULL 29

0 375 750 1,500 Feet

0 0.05 0.1 0.2 Miles 1 IN = 500 FT

PIPELINE OVERVIEW LAND STATUS A.M.

N

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ENERGY PRODUCTION CO. L.P.

HARCROW SURVEYING, LLC.
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ORIG: 9/7/2018

RED BULL 29-20 FED 1H/2H

devon

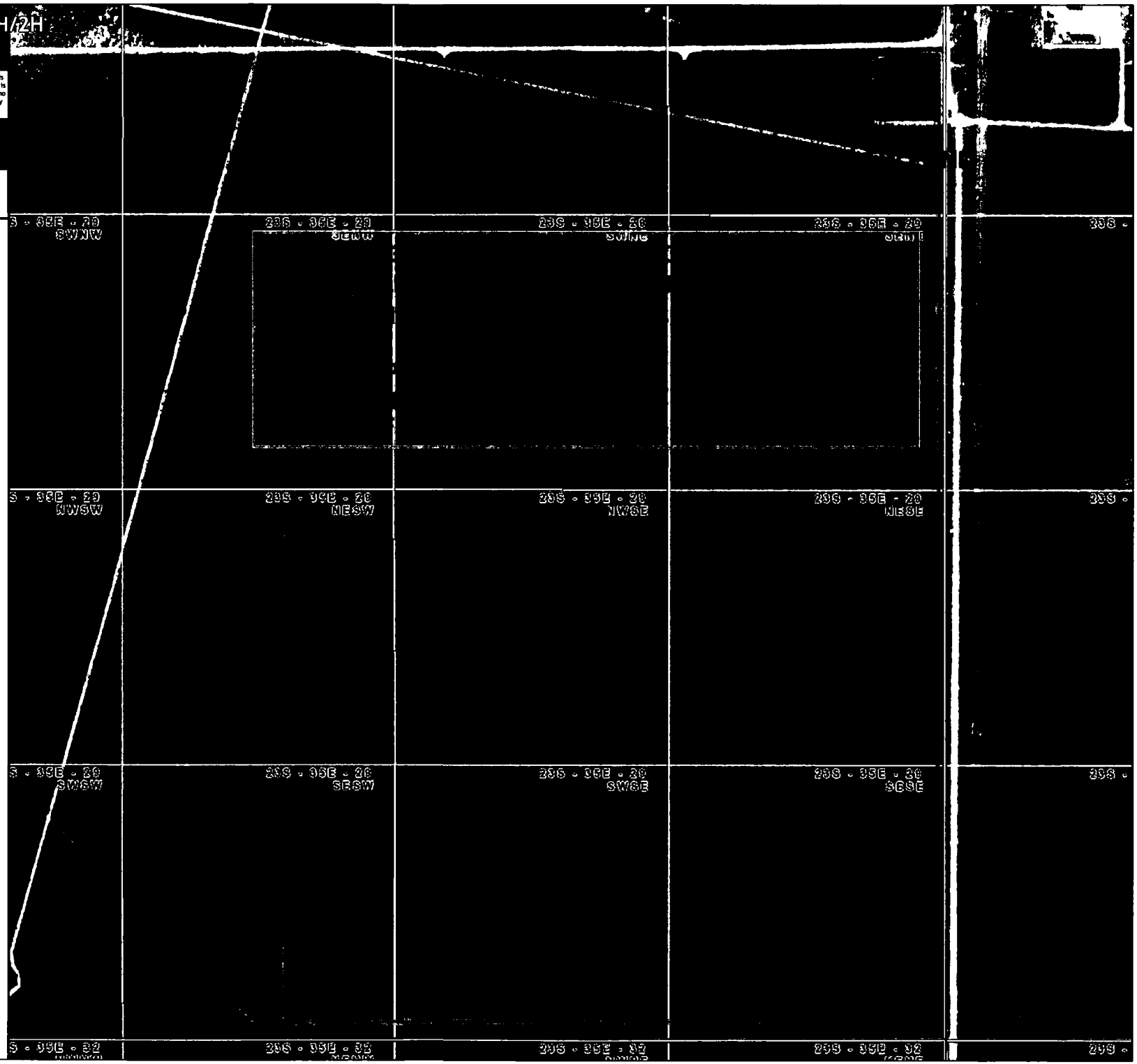
This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

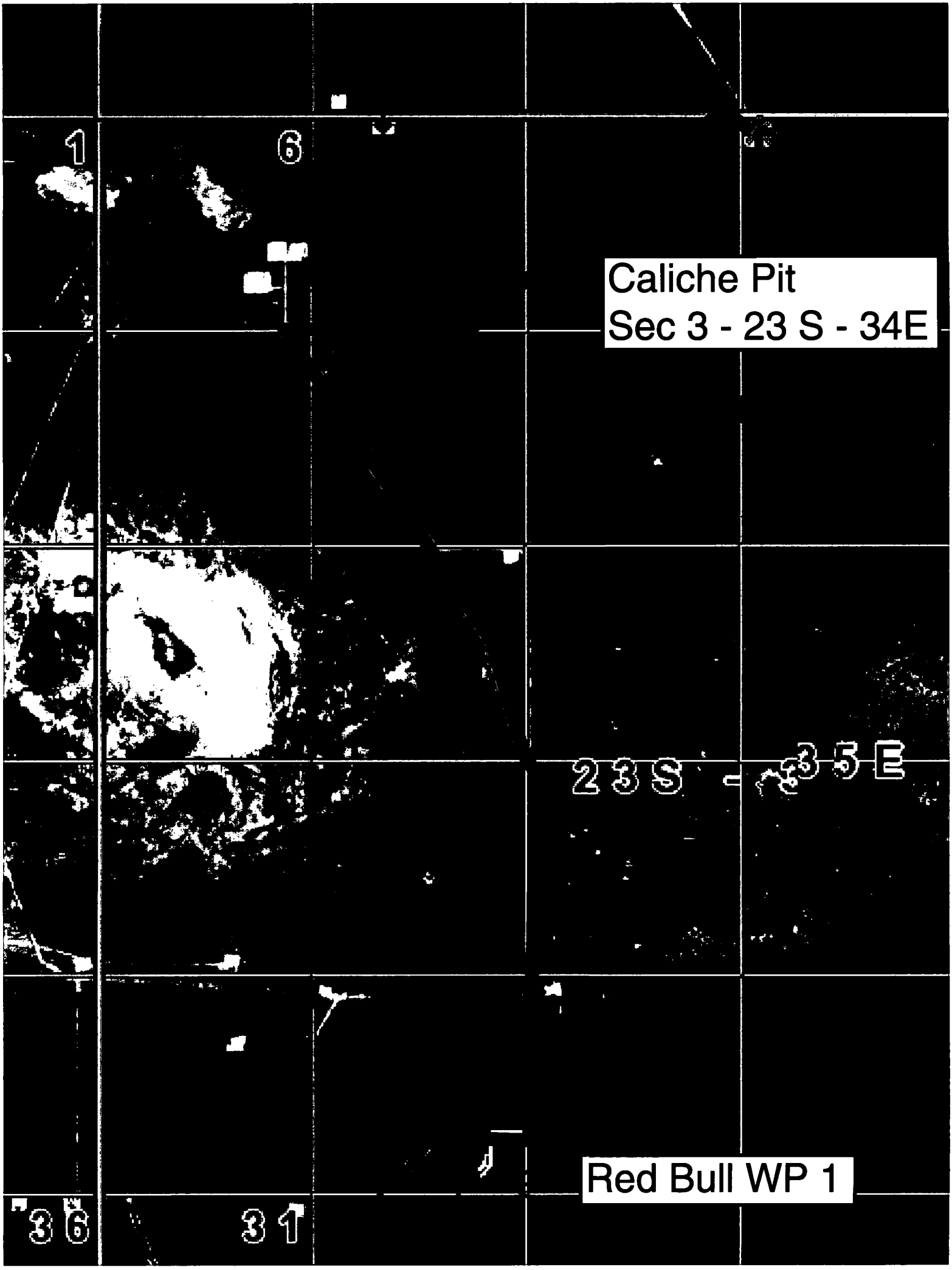
WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: _User
Map is current as of: 17-Sep-2018

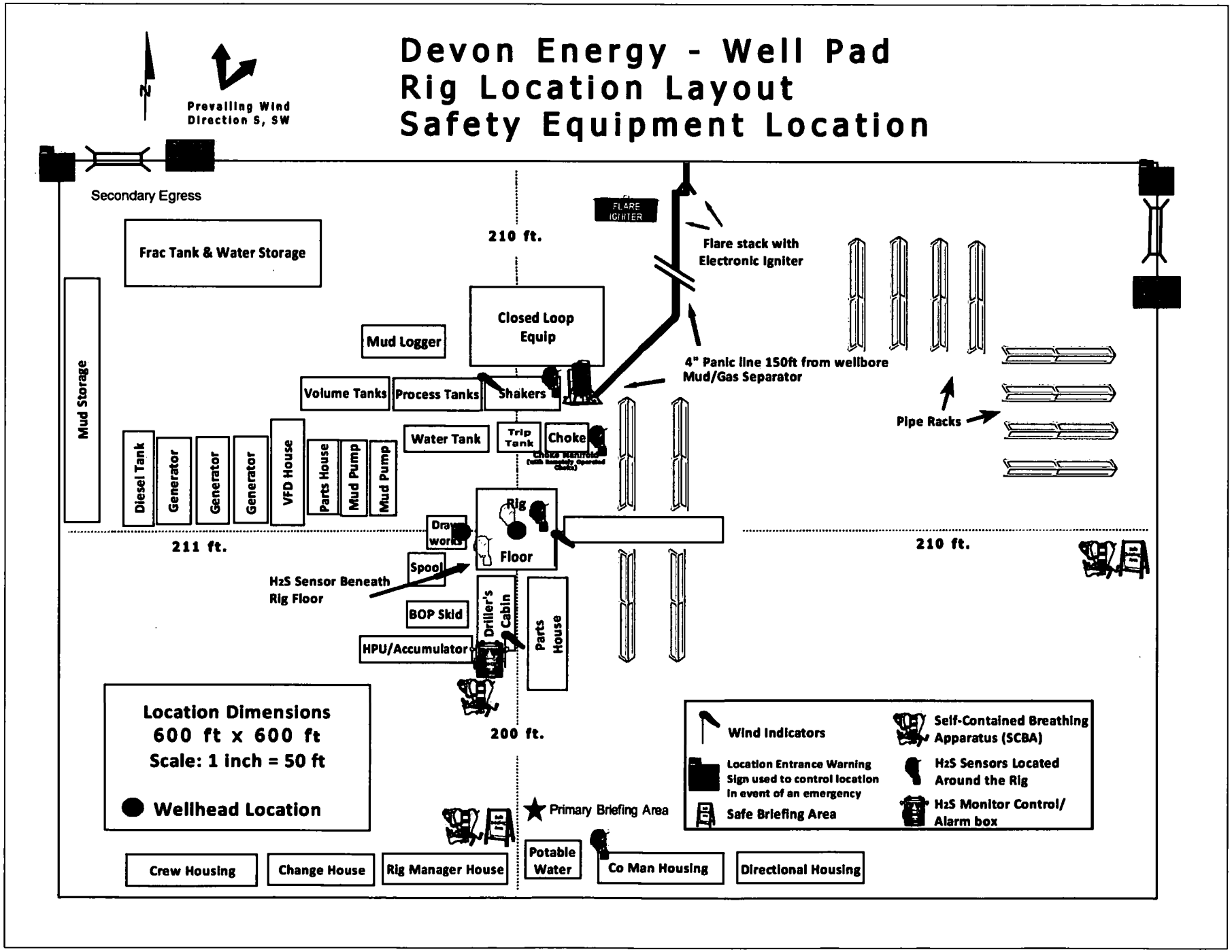
N

Miles
0 0.04 0.07 0.14 1:7,114

- DVN Currently Drilling
- DVN Currently Fracing

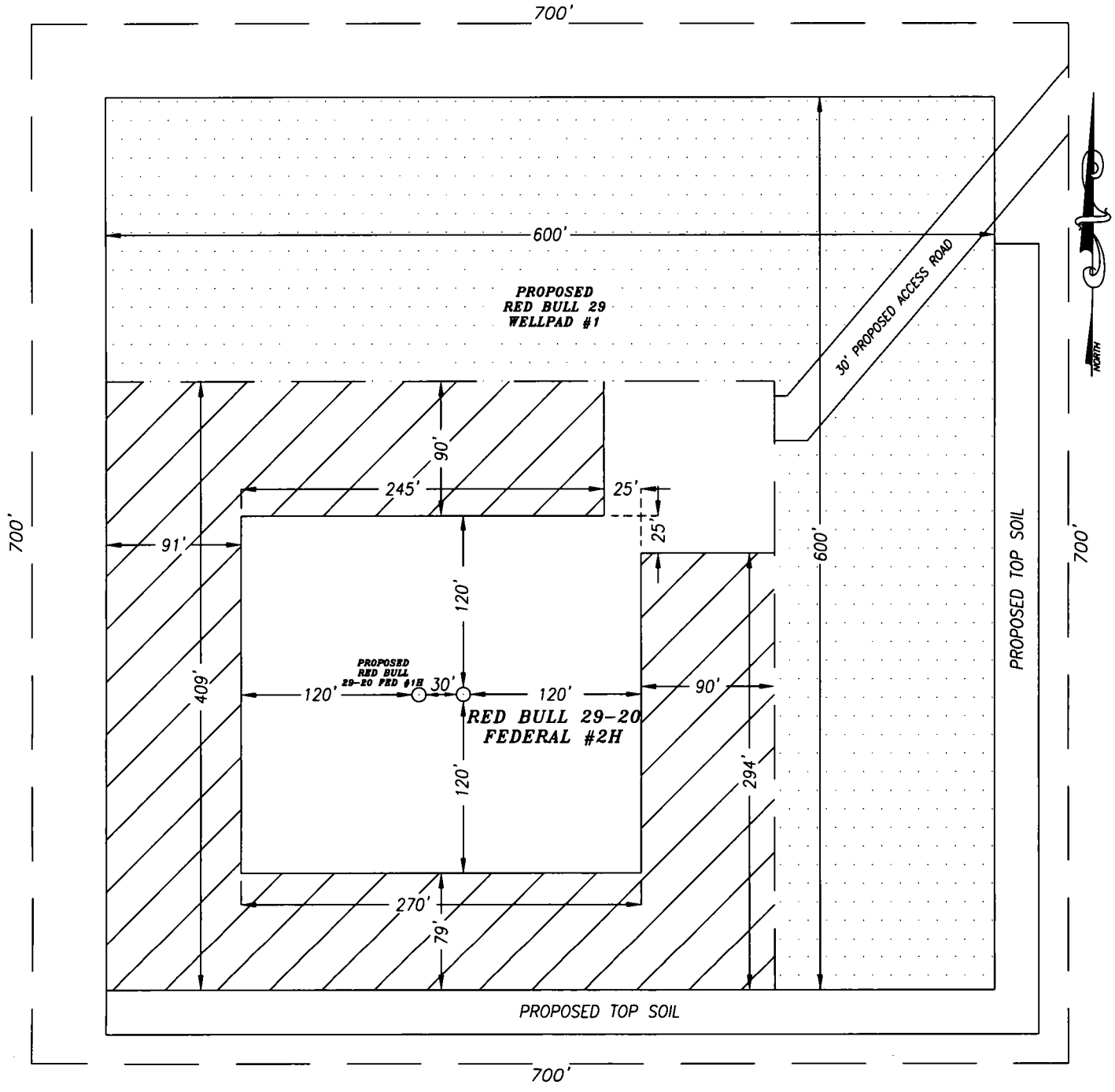



Caliche Pit
Sec 3 - 23 S - 34E
1
6
23S - 35E
Red Bull WP 1
36
31


Devon Energy - Well Pad
Rig Location Layout
Safety Equipment Location
N
Prevailing Wind Direction S, SW
Secondary Egress
Frac Tank & Water Storage
Mud Storage
Diesel Tank
Generator
Generator
Generator
VFD House
Parts House
Mud Pump
Mud Pump
Mud Logger
Closed Loop Equip
Volume Tanks
Process Tanks
Shakers
Water Tank
Trip Tank
Choke
Choke Manifold (with remotely operated Choke)
FLARE IGNITER
Flare stack with Electronic Igniter
4" Panic line 150ft from wellbore Mud/Gas Separator
Pipe Racks
210 ft.
211 ft.
210 ft.
200 ft.
Rig
Floor
Draw works
Spool
H2S Sensor Beneath Rig Floor
BOP Skid
HPU/Accumulator
Driller's Cabin
Parts House
Location Dimensions
600 ft x 600 ft
Scale: 1 inch = 50 ft
Wellhead Location
Primary Briefing Area
Wind Indicators
Location Entrance Warning Sign used to control location in event of an emergency
Safe Briefing Area
Self-Contained Breathing Apparatus (SCBA)
H2S Sensors Located Around the Rig
H2S Monitor Control/ Alarm box
Crew Housing
Change House
Rig Manager House
Potable Water
Co Man Housing
Directional Housing

SECTION 29, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,

LEA COUNTY NEW MEXICO



DENOTES INTERIM PAD RECLAMATION AREA

DENOTES GRADING SITE RECLAMATION AREA

100 0 100 200 Feet

Scale: 1"=100'

+/- 2.461 ACRES INTERIM PAD RECLAMATION AREA
+/- 3.875 ACRES GRADING SITE RECLAMATION AREA
+/- 1.928 ACRES NON-RECLAIMED AREA

+/- 8.264 ACRES RED BULL 29 WELLPAD 1

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Texas Firm No. 10194089
c.harcrow@harcrowsurveying.com

DEVON ENERGY PRODUCTION CO., L.P.

RED BULL 29-20 FEDERAL #2H
LOCATED 445 FEET FROM THE SOUTH LINE
AND 2160 FEET FROM THE WEST LINE OF SECTION 29,
TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: AUGUST 6, 2018		REV:
DRAFTING DATE: AUGUST 28, 2018		FILE: 18-904
APPROVED BY: CH	DRAWN BY: AM	PAGE: 4 OF 12
DEVON #: WA017406804		INTERIM SITE BUILD PLAN

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:

Decribe 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:

Decribe 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:

AFMSS

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: