Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM115426

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.: RED BULL 30-31 FED STATE COM [329954] 4H

2. Name of Operator: DEVON ENERGY PRODUCTION COMPANY LP [6137]

9. API Well No.: 30-025-48327

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

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

10. Field and Pool, or Exploratory [2200]: WC-025 G-08 S233528D/LOWER BONE

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

At surface: NWNE / 883 FNL / 1711 FEL / LAT 32.280448 / LONG -103.403716

At proposed prod. zone: SESE / 20 FSL / 330 FEL / LAT 32.253875 / LONG -103.399215

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 30/T23S/R35E/NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: LEA

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 883 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 320.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 769 feet

19. Proposed Depth: 11660 feet / 22084 feet

20. BLM/BIA Bond No. in file: FED: NMB000801

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3409 feet

22. Approximate date work will start*: 04/01/2021

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	Name *(Printed/Typed)*	Date
(Electronic Submission)	REBECCA DEAL / Ph: (800) 583-3866	08/12/2020

Title: Regulatory Compliance Professional

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	12/18/2020

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

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

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

GCP Rec 12/29/2020

APPROVED WITH CONDITIONS

KZ
01/06/2021

SL

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 12/18/2020

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.

(Continued on page 3)

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 883 FNL / 1711 FEL / TWSP: 23S / RANGE: 35E / SECTION: 30 / LAT: 32.280448 / LONG: -103.403716 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 2630 FSL / 330 FEL / TWSP: 23S / RANGE: 35E / SECTION: 30 / LAT: 32.274995 / LONG: -103.399222 (TVD: 11660 feet, MD: 14400 feet)

PPP: NENE / 100 FNL / 330 FEL / TWSP: 23S / RANGE: 35E / SECTION: 30 / LAT: 32.282615 / LONG: -103.399251 (TVD: 11361 feet, MD: 11534 feet)

BHL: SESE / 20 FSL / 330 FEL / TWSP: 23S / RANGE: 35E / SECTION: 31 / LAT: 32.253875 / LONG: -103.399215 (TVD: 11660 feet, MD: 22084 feet)

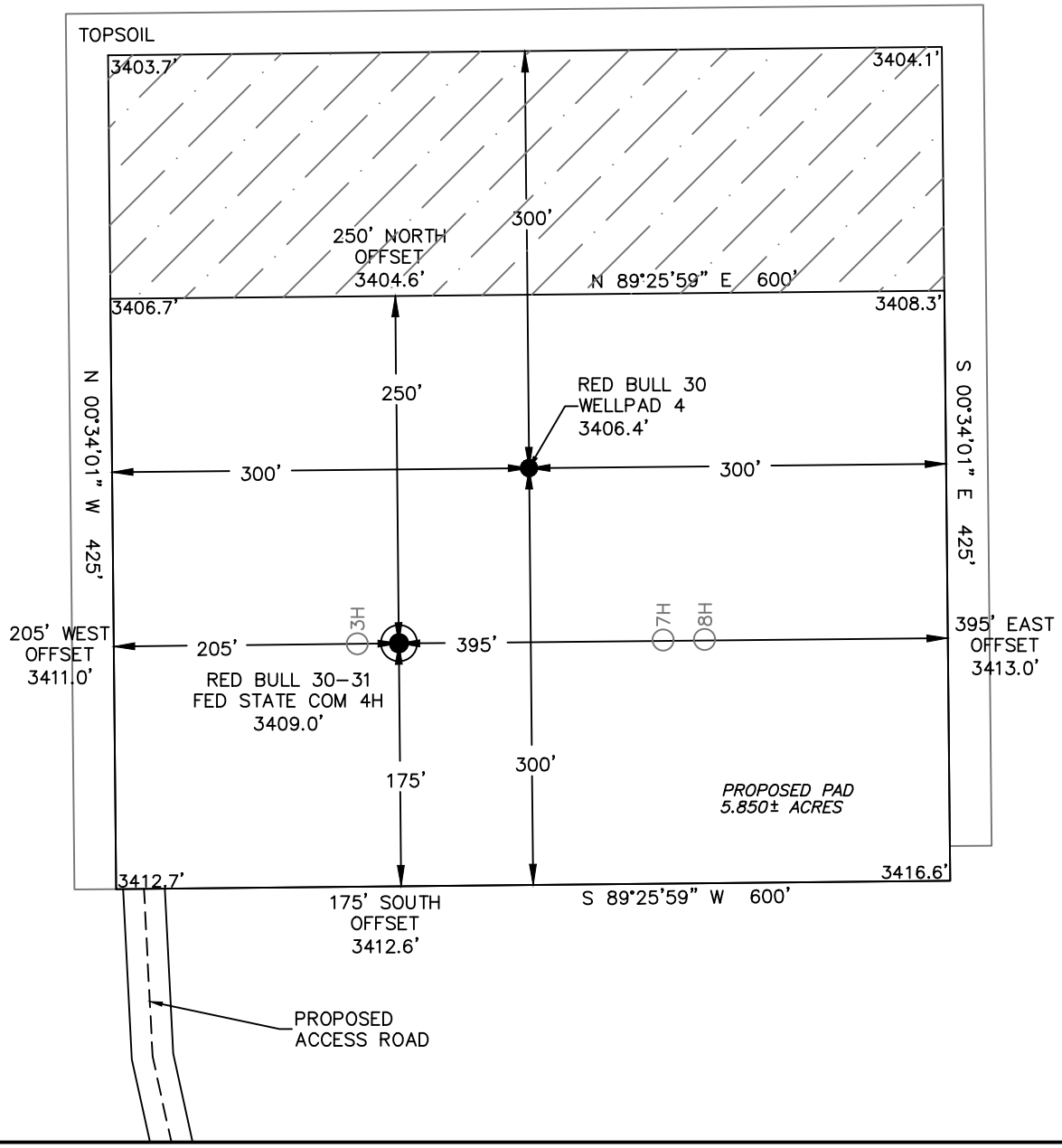
BLM Point of Contact

Name: Candy Vigil
Title: LIE
Phone: (575) 234-5982
Email: cvigil@blm.gov

Review and Appeal Rights

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

SECTION 30, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP



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

DEVON ENERGY PRODUCTION COMPANY, L.P.
RED BULL 30-31 FED STATE COM 4H
LOCATED 883 FT. FROM THE NORTH LINE
AND 1711 FT. FROM THE EAST LINE OF
SECTION 30, TOWNSHIP 23 SOUTH,
RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

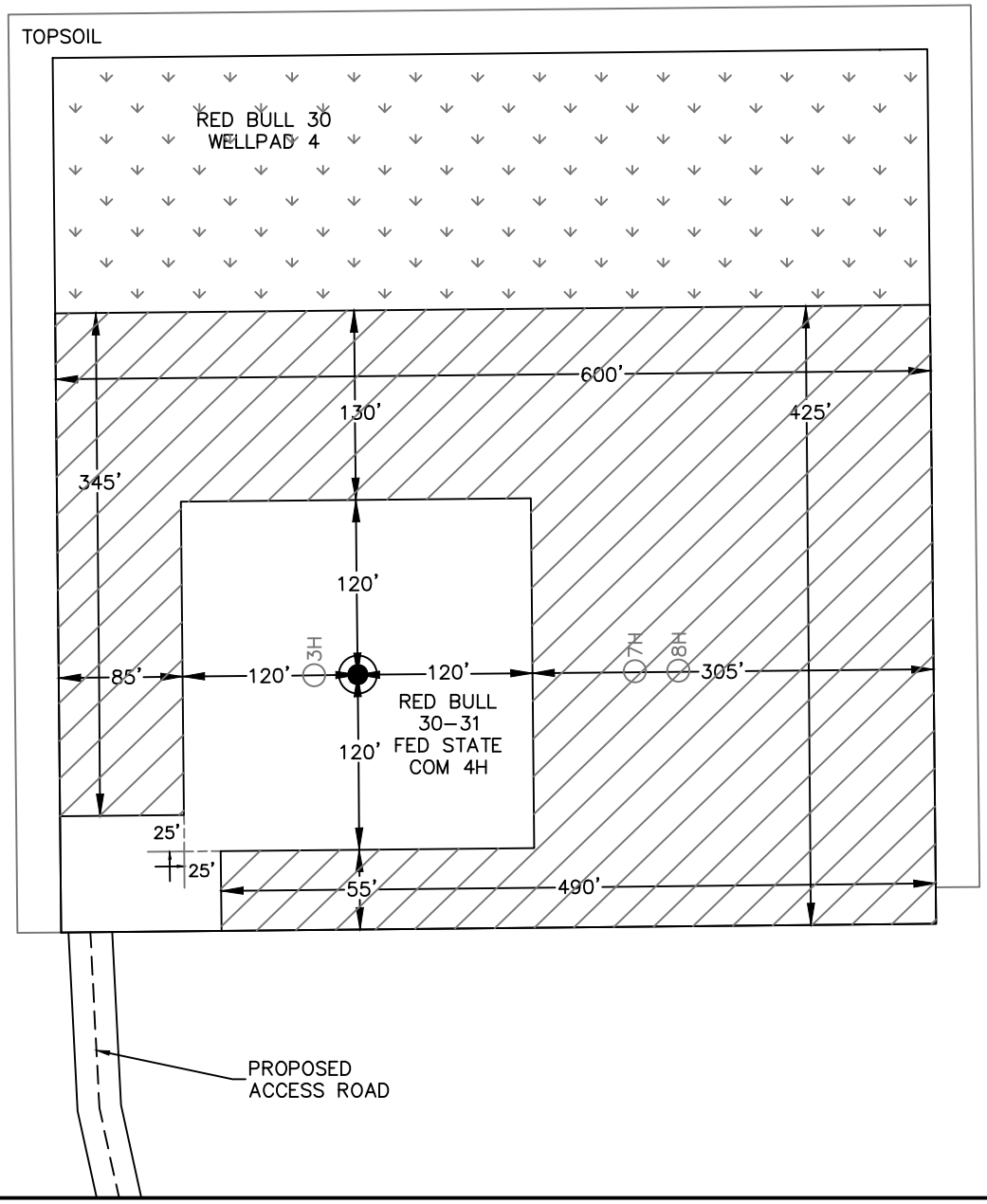
0 125 250

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NM-32 AND NM-21 (DELAWARE BASIN RD.), HEAD EAST ON NM-21 (DELAWARE BASIN RD.) FOR 2.14 MILES. TURN RIGHT ONTO AN EXISTING ACCESS ROAD AND HEAD SOUTH FOR 3.40 MILES. TURN RIGHT AND HEAD WEST ONTO RED BULL 30 PRIMARY ACCESS ROAD FOR 1.45 MILES TO THE BEGINNING OF PROPOSED ACCESS ROAD FOR 459' TO THE SOUTHWEST CORNER OF THE RED BULL 30 WELLPAD 4.

HORIZON ROW LLC		Drawn for: devon
DEVON ENERGY PRODUCTION CO., L.P.		
Drawn by: CHRIS MAAS	Date: 05/16/2020	

SECTION 30, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
INTERIM SITE BUILD PLAN



DENOTES INTERIM PAD RECLAMATION AREA

DENOTES GRADING SITE RECLAMATION AREA

4.341± ACRES INTERIM PAD RECLAMATION AREA
2.414± ACRES GRADING SITE RECLAMATION AREA
1.509± ACRES NON-RECLAIMED AREA
8.264± ACRES GRADING SITE RECLAMATION AREA

0 125 250

DEVON ENERGY PRODUCTION COMPANY, L.P.
RED BULL 30-31 FED STATE COM 4H
LOCATED 883 FT. FROM THE NORTH LINE
AND 1711 FT. FROM THE EAST LINE OF
SECTION 30, TOWNSHIP 23 SOUTH,
RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

HORIZON ROW LLC

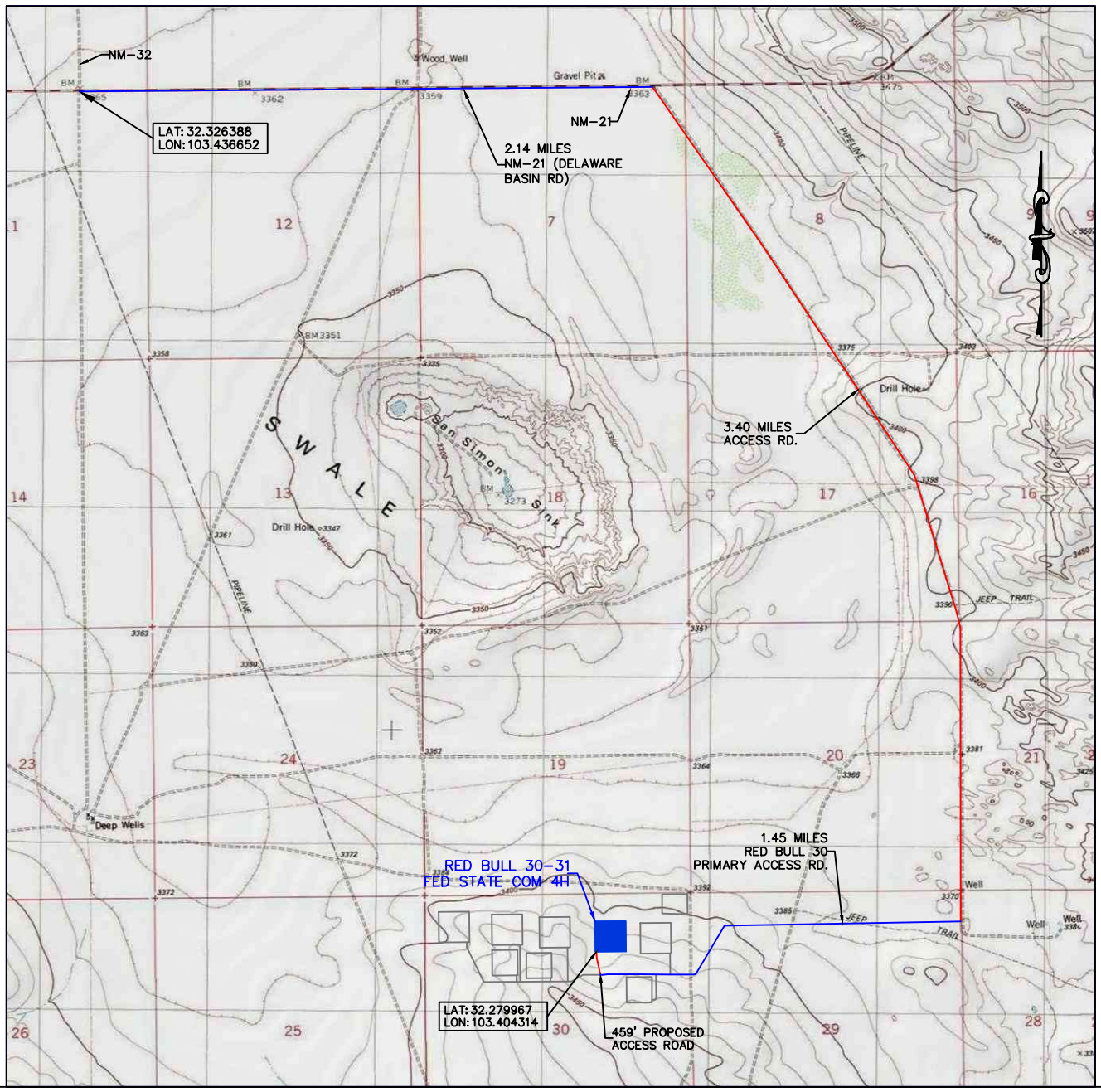
DEVON ENERGY PRODUCTION CO., L.P.

Drawn by: CHRIS MAAS

Date: 05/16/2020

Drawn for: devon

SECTION 30, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.
RED BULL 30-31 FED STATE COM 4H
LOCATED 883 FT. FROM THE NORTH LINE
AND 1711 FT. FROM THE EAST LINE OF
SECTION 30, TOWNSHIP 23 SOUTH,
RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

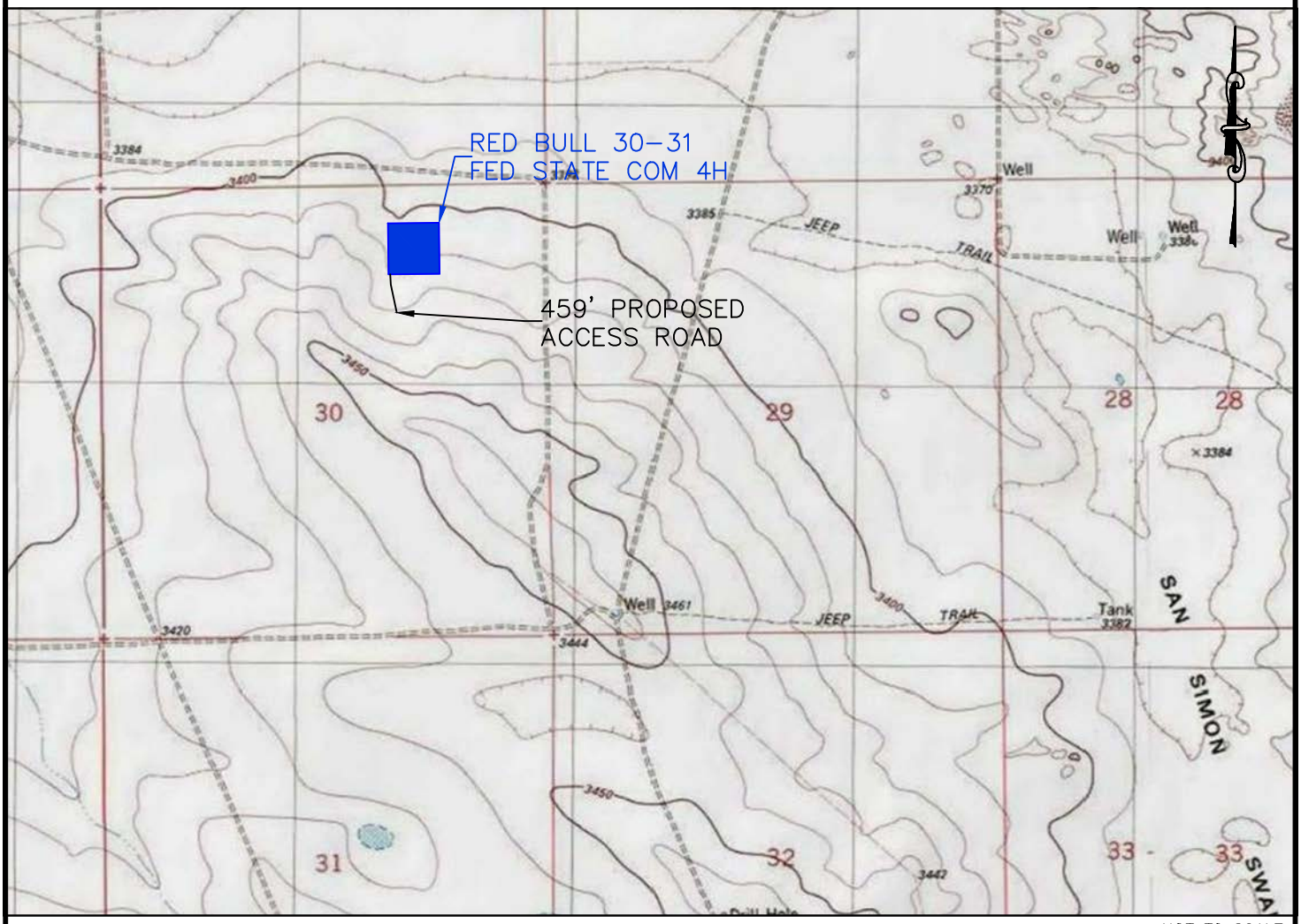
NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF NM-32 AND NM-21 (DELAWARE BASIN RD.), HEAD EAST ON NM-21 (DELAWARE BASIN RD.) FOR 2.14 MILES. TURN RIGHT ONTO AN EXISTING ACCESS ROAD AND HEAD SOUTH FOR 3.40 MILES. TURN RIGHT AND HEAD WEST ONTO RED BULL 30 PRIMARY ACCESS ROAD FOR 1.45 MILES TO THE BEGINNING OF PROPOSED ACCESS ROAD FOR 459' TO THE SOUTHWEST CORNER OF THE RED BULL 30 WELLPAD 4.

HORIZON ROW LLC		Drawn for: devon
DEVON ENERGY PRODUCTION CO., L.P.		
Drawn by: CHRIS MAAS	Date: 05/16/2020	

SECTION 30, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP

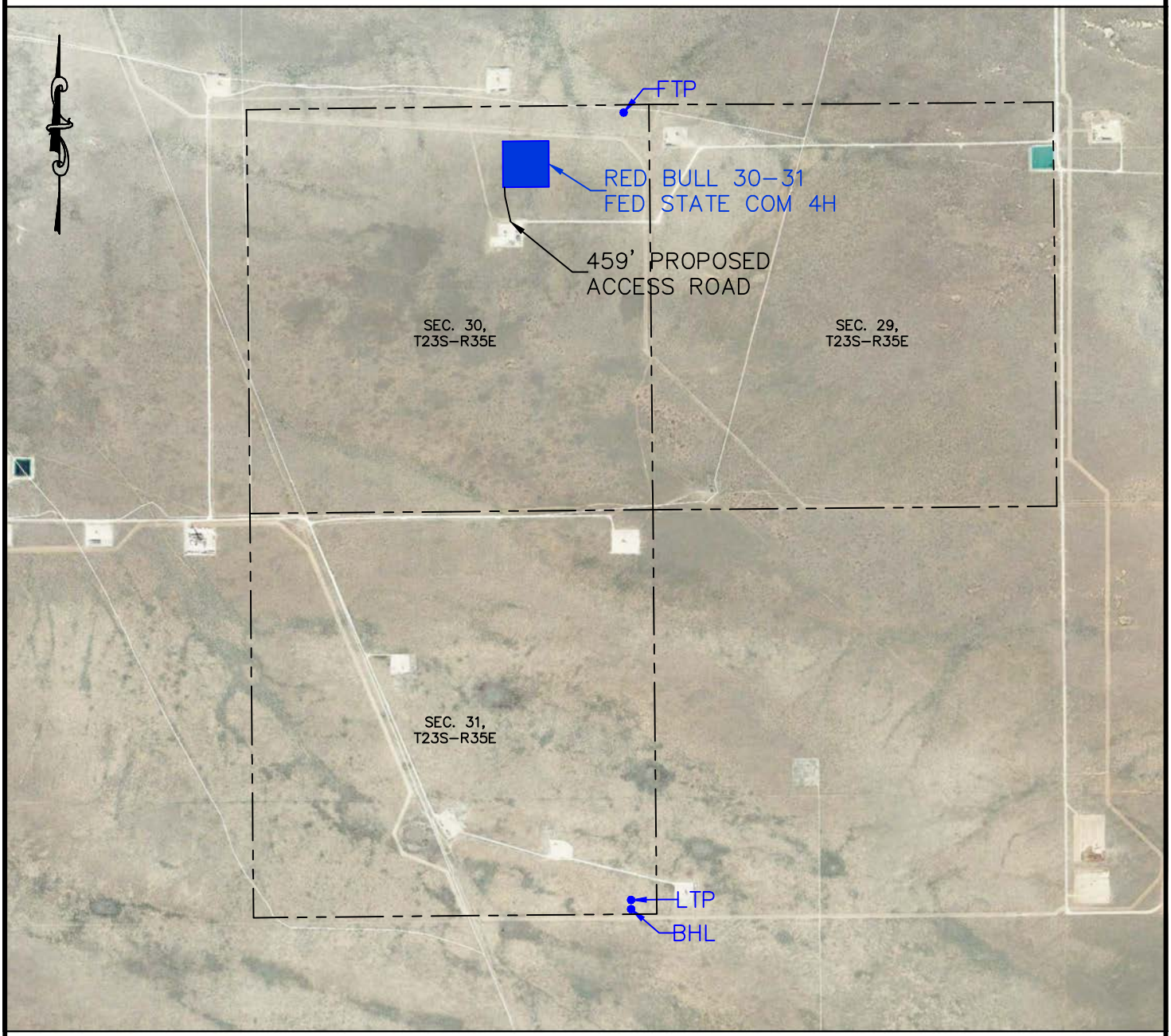


NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
RED BULL 30-31 FED STATE COM 4H
LOCATED 883 FT. FROM THE NORTH LINE
AND 1711 FT. FROM THE EAST LINE OF
SECTION 30, TOWNSHIP 23 SOUTH,
RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

HORIZON ROW LLC		Drawn for:
DEVON ENERGY PRODUCTION CO., L.P.		devon
Drawn by: CHRIS MAAS	Date: 05/16/2020	

SECTION 30, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO

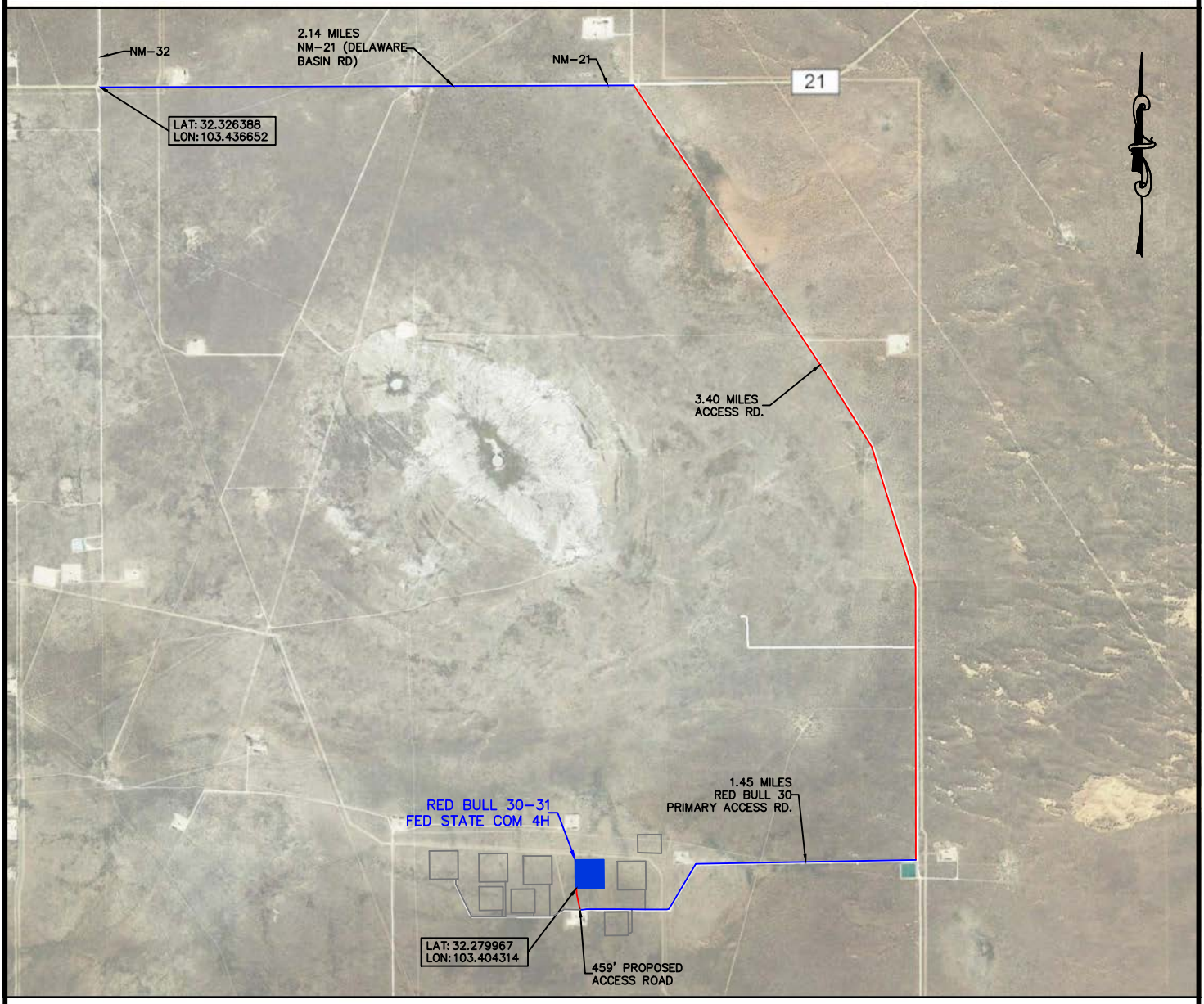


DEVON ENERGY PRODUCTION COMPANY, L.P.
RED BULL 30-31 FED STATE COM 4H
LOCATED 883 FT. FROM THE NORTH LINE
AND 1711 FT. FROM THE EAST LINE OF
SECTION 30, TOWNSHIP 23 SOUTH,
RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

HORIZON ROW LLC		Drawn for:
DEVON ENERGY PRODUCTION CO., L.P.		
Drawn by: CHRIS MAAS	Date: 05/16/2020	

SECTION 30, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP

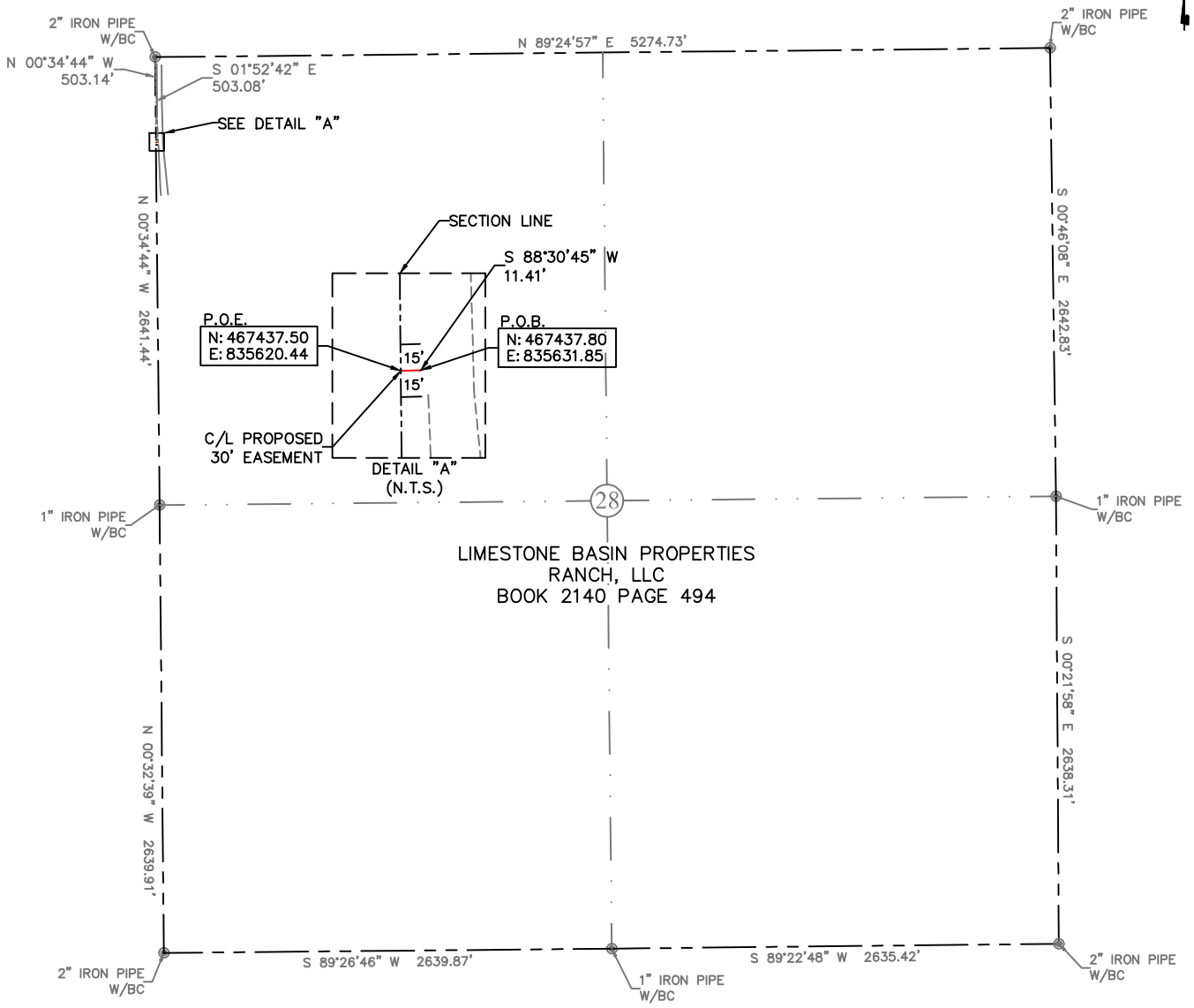


NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
RED BULL 30-31 FED STATE COM 4H
LOCATED 883 FT. FROM THE NORTH LINE
AND 1711 FT. FROM THE EAST LINE OF
SECTION 30, TOWNSHIP 23 SOUTH,
RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

HORIZON ROW LLC		Drawn for:
DEVON ENERGY PRODUCTION CO., L.P.		devon
Drawn by: CHRIS MAAS	Date: 05/16/2020	

EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 28, T23S–R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.008 ACRE(S)
11.41' FEET OR 0.69 RODS

0+00.0 P.O.B./EXISTING LEASE ROAD
0+11.4 SECTION LINE

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

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

B.L. LAMAN NEW MEXICO 22404 PROFESSIONAL SURVEYOR

B.L. Laman PLS #22404
Date Signed: 05-14-2020
Horizonrow, LLC
571 State Street Jasper, TX.
(409) 202-5111 75951
Employee of Horizonrow, LLC

0 1000 2000

HORIZON ROW LLC	DEVON ENERGY PRODUCTION COMPANY, L.P.		LINE NUMBER: 7680024R
Drawn for: devon	RED BULL 30 PRIMARY ACCESS ROAD		WBS NUMBER: XX-137660.01.SLC
			SCALE: 1" = 1000'
	PROPOSED 30' EASEMENT ON THE PROPERTY OF LIMESTONE BASIN PROPERTIES RANCH, LLC. SECTION 28, T23S-R35E, N.M.P.M.		REVISIONS:
Drawn by: CHRIS MAAS	Date: 05/12/2020		SURVEY DATE: 05/12/2020

SECTION 28, T23S-R35E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

LIMESTONE BASIN PROPERTIES RANCH, LLC.

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northwest quarter (NW ¼) of Section 28, Township 23 South, Range 35 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by Limestone Basin Properties Ranch, LLC., recorded in Book 2140, Page 494, Deed Records of Lea County. Said centerline of easement being more particularly described as follows:

Commencing from a 2" iron pipe w/BC for the northwest quarter corner of Section 28;

Thence S 01°52'42" E a distance of 503.08' to the **Point of Beginning** of this easement, having coordinates of Northing=467437.80, Easting=835631.85 feet and continuing the following course;

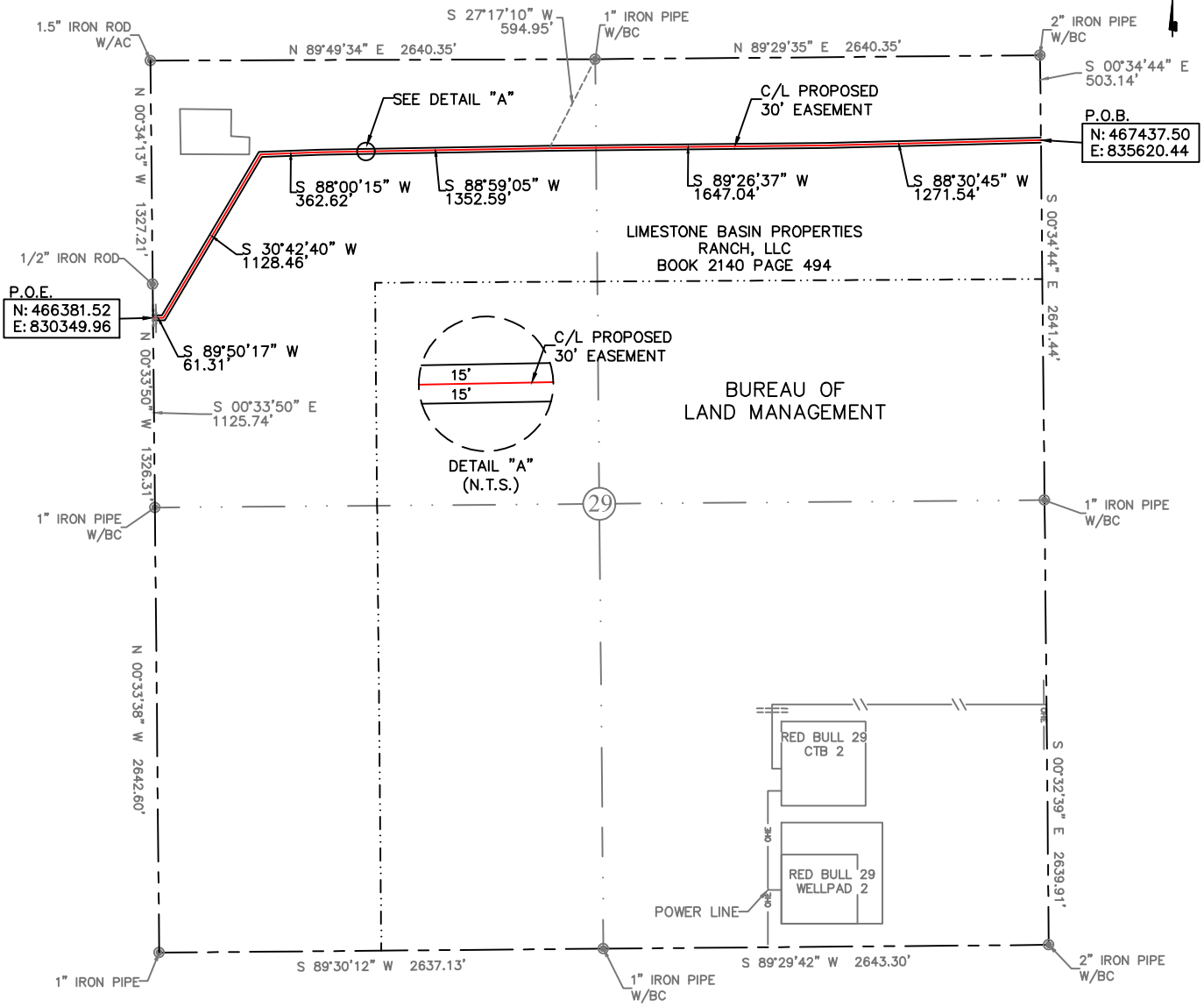
Thence S 88°30'45" W a distance of 11.41' to the **Point of Ending**, being in the west line of said Section 28 and having coordinates of Northing= 467437.50, Easting= 835620.44 feet, from said point a 2" iron pipe w/BC for the northwest corner of Section 28, T23S-R35E bears N 00°34'44" W a distance of 503.14', covering **11.41' or 0.69 rods** and having an area of **0.008 acres**.

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

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

B.L. Laman PLS 22404
Date Signed: 05/14/2020
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC

EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 29, T23S–R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 4.01 ACRE(S)
5823.56' FEET OR 352.94 RODS

0+11.4 SECTION LINE
58+14.8 BURIED PIPELINE
58+33.4 FENCE
58+35.0 SECTION LINE

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

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

B.L. LAMAN NEW MEXICO 22404 PROFESSIONAL SURVEYOR

B.L. Laman PLS #22404
Date Signed: 05-14-2020
Horizonrow, LLC
571 State Street Jasper, TX.
(409) 202-5111 75951
Employee of Horizonrow, LLC

0 1000 2000

HORIZON ROW LLC Drawn for: devon	DEVON ENERGY PRODUCTION COMPANY, LP RED BULL 30 PRIMARY ACCESS ROAD	LINE NUMBER: 7680024R	
		WBS NUMBER: XX-137660.01.SLC	
		SCALE: 1" = 1000'	
Drawn by: CHRIS MAAS	Date: 05/12/2020	PROPOSED 30' EASEMENT ON THE PROPERTY OF LIMESTONE BASIN PROPERTIES RANCH, LLC. SECTION 29, T23S–R35E, N.M.P.M.	REVISIONS:
			SURVEY DATE: 5/12/2020

SECTION 29, T23S-R35E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, LP.

LIMESTONE BASIN PROPERTIES RANCH, LLC.

30' EASEMENT DESCRIPTION:
BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northeast quarter (NE ¼) and the northwest quarter (NW ¼) of Section 29, Township 23 South, Range 35 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by Limestone Basin Properties Ranch, LLC., recorded in Book 2140, Page 494, Deed Records of Lea County. Said centerline of easement being more particularly described as follows:

Commencing from a 2" iron pipe w/BC for the northeast corner of Section 29;

Thence S 00°34'44" E a distance of 503.14' to the **Point of Beginning** of this easement in the east line of Section 29, having coordinates of Northing=467437.50, Easting=835620.44 feet and continuing the following courses;

Thence S 88°30'45" W a distance of 1271.54' to an angle point;

Thence S 89°26'37" W a distance of 1647.04' to an angle point;

Thence S 88°59'05" W a distance of 1352.59' to an angle point;

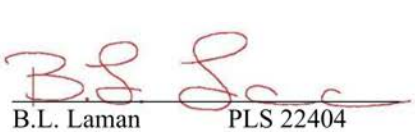
Thence S 88°00'15" W a distance of 362.62' to an angle point;

Thence S 30°42'40" W a distance of 1128.46' to an angle point;

Thence S 89°50'17" W a distance of 61.31' to the **Point of Ending** in the west line of Section 29, having coordinates of Northing=466381.52, Easting=830349.96 feet, from said point a 1" iron pipe w/BC for the west quarter corner of Section 29, T23S-R35E bears S 00°33'50" E a distance of 1125.74', covering **5823.56' or 352.94 rods** and having an area of **4.01 acres**.

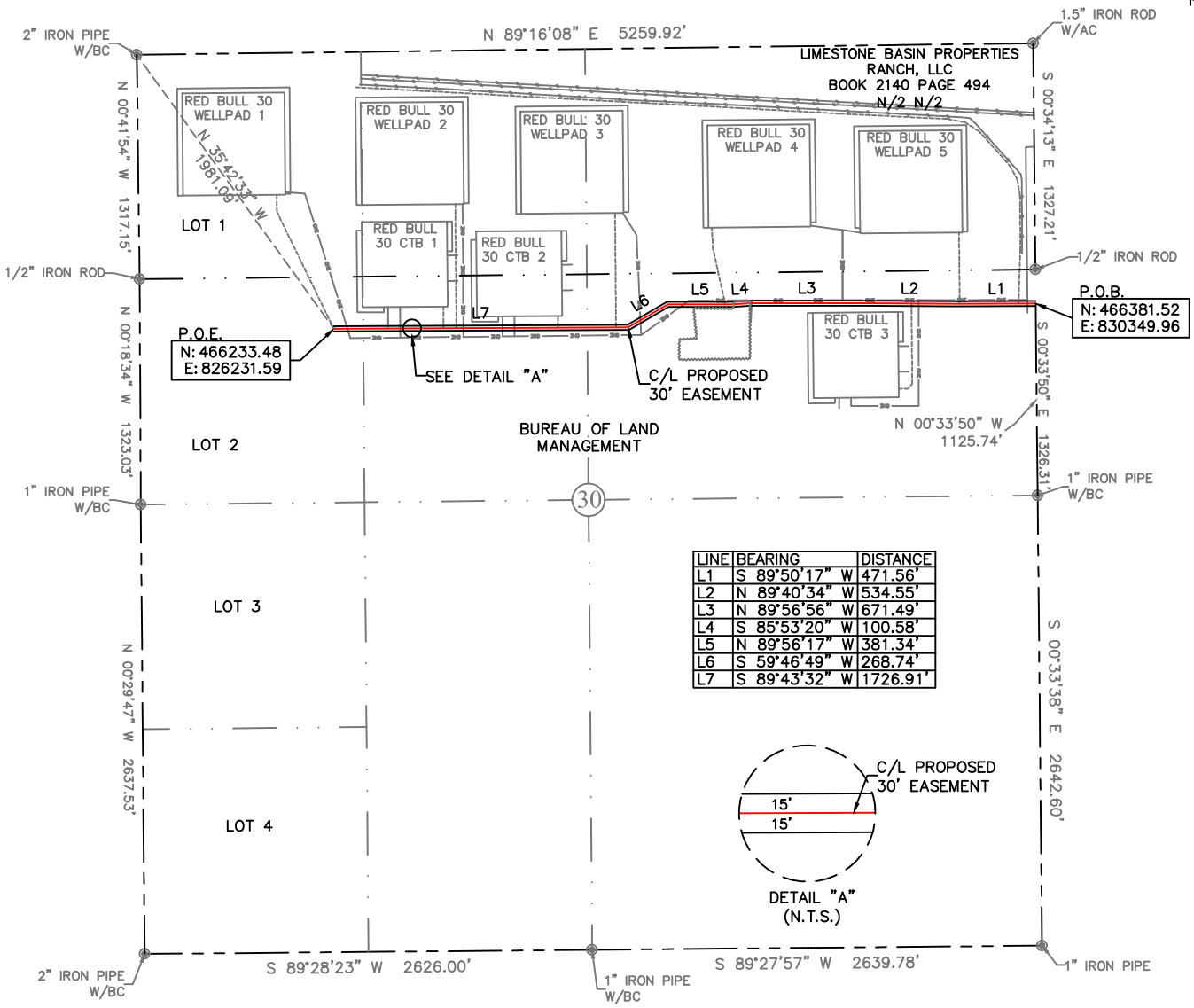
NOTES:
Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

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



B.L. Laman PLS 22404
Date Signed: 05/14/2020
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC

EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 30, T23S–R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LINE	BEARING	DISTANCE
L1	S 89°50'17" W	471.56'
L2	N 89°40'34" W	534.55'
L3	N 89°56'56" W	671.49'
L4	S 85°53'20" W	100.58'
L5	N 89°56'17" W	381.34'
L6	S 59°46'49" W	268.74'
L7	S 89°43'32" W	1726.91'

58+35.0 SECTION LINE
58+85.1 POWER LINE
59+12.4 BURIED PIPELINE
65+21.7 RED BULL 30 CTB 3 ELECTRIC LINE
65+64.1 RED BULL 30 CTB 3 ACCESS ROAD
75+01.5 POWER LINE
75+12.5 EDGE OF PAD
76+06.9 EDGE OF PAD
76+57.0 RED BULL 30 WELLPAD 4 ACCESS ROAD
79+02.3 RED BULL 30 PRIMARY ELECTRIC LINE
79+37.9 BURIED PIPELINE
81+80.1 RED BULL 30 WELLPAD 3 ELECTRIC LINE
83+34.4 RED BULL 30 WELLPAD 3 ACCESS ROAD
86+75.4 RED BULL 30 CTB 2 ACCESS ROAD
89+30.4 RED BULL 30 CTB 2 ELECTRIC LINE
92+30.3 RED BULL 30 WELLPAD 2 ELECTRIC LINE
92+71.4 RED BULL 30 WELLPAD 2 ACCESS ROAD
93+46.4 RED BULL 30 CTB 1 ACCESS ROAD

96+01.4 RED BULL 30 CTB 1 ELECTRIC LINE
99+10.4 RED BULL 30 WELLPAD 1 ELECTRIC LINE
99+90.1 P.O.E./RED BULL 30 WELLPAD 2 ACCESS ROAD

30' EASEMENT AREA = 2.86 ACRE(S)
4155.17' FEET OR 251.83 RODS

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

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

LAMAN NEW MEXICO 22404 PROFESSIONAL SURVEYOR

B.L. Laman PLS #22404
Date Signed: 05-14-2020
Horizonrow, LLC
571 State Street Jasper, TX.
(409) 202-5111 75951
Employee of Horizonrow, LLC

0 1000 2000

HORIZON ROW LLC Drawn for: devon	DEVON ENERGY PRODUCTION COMPANY, LP RED BULL 30 PRIMARY ACCESS ROAD	LINE NUMBER: 7680024R WBS NUMBER: XX-137660.01.SLC SCALE: 1" = 1000'
Drawn by: CHRIS MAAS Date: 05/12/2020	PROPOSED 30' EASEMENT ON THE PROPERTY OF BUREAU OF LAND MANAGEMENT SECTION 30, T23S–R35E, N.M.P.M.	REVISIONS: SURVEY DATE: 5/12/2020

SECTION 30, T23S-R35E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, LP.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:
BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the northeast quarter (NE ¼) and the northwest quarter (NW ¼) and Lot 2 of Section 30, Township 23 South, Range 35 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC for the east quarter corner of Section 30;

Thence N 00°33'50" W a distance of 1125.74' to the **Point of Beginning** of this easement in the east line of Section 30, having coordinates of Northing=466381.52, Easting=830349.96 feet and continuing the following courses;

Thence S 89°50'17" W a distance of 471.56' to an angle point;

Thence N 89°40'34" W a distance of 534.55' to an angle point;

Thence N 89°56'56" W a distance of 671.49' to an angle point;

Thence S 85°53'20" W a distance of 100.58' to an angle point;

Thence N 89°56'17" W a distance of 381.34' to an angle point;

Thence S 59°46'49" W a distance of 268.74' to an angle point;

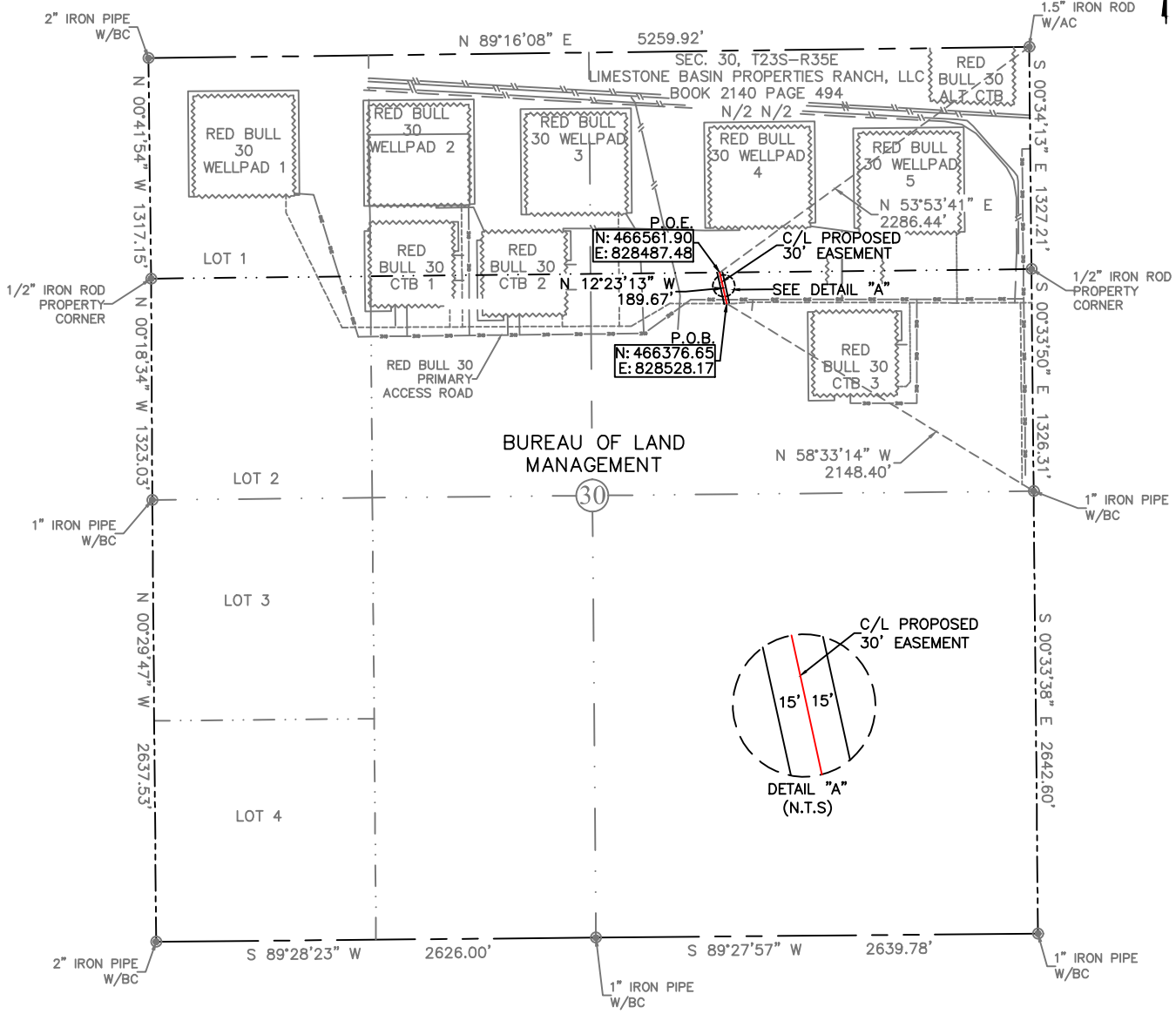
Thence S 89°43'32" W a distance of 1726.91' to the **Point of Ending**, having coordinates of Northing=466233.48, Easting=826231.59 feet, from said point a 2" iron pipe w/BC for the northwest corner of Section 30, T23S-R35E bears N 35°42'33" W a distance of 1981.09', covering **4155.17' or 251.83 rods** and having an area of **2.86 acres**.

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

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

B.L. Laman PLS 22404
Date Signed: 05/14/2020
Horizon Row, LLC
P.O. Box 548, Dry Creek, La.
(903) 388-3045 70637
Employee of Horizon Row, LLC

EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 30, T23S–R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



30' EASEMENT AREA = 0.131 ACRE(S)
189.67 FEET OR 11.50 RODS

0+00.0 P.O.B./RED BULL 30 PRIMARY ACCESS ROAD
1+89.7 PROPERTY LINE

SEE THE ATTACHED LEGAL DESCRIPTION

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

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

B.L. LAMAN
NEW MEXICO
22404
PROFESSIONAL SURVEYOR

B.L. Laman PLS #22404
Date Signed: 05-15-2020
Horizonrow, LLC
P.O. Box 548, Dry Creek, LA.
(903) 388-3045 70637
Employee of Horizonrow, LLC

0 1000 2000

HORIZON ROW LLC Drawn for: devon	DEVON ENERGY PRODUCTION COMPANY, L.P. RED BULL 30 WELLPAD 4 ACCESS ROAD		LINE NUMBER: 7680031R
			WBS NUMBER: XX-137660.01.SLC
			SCALE: 1" = 1000'
	PROPOSED 30' EASEMENT ON THE PROPERTY OF BUREAU OF LAND MANAGEMENT SECTION 30, T23S–R35E, N.M.P.M.		REVISIONS:
Drawn by: JEANNIE PERRY	Date: 05/14/2020		DATE SURVEY: 5/2020

SECTION 30, T23S-R35E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

LEGAL DESCRIPTION
FOR
DEVON ENERGY PRODUCTION COMPANY, L.P.
BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:
BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the S/2 of the N/2 of Section 30, Township 23 South, Range 35 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 1" iron pipe w/BC found for the east quarter corner of Section 30, T23S-R35E, N.M.P.M., Lea County, New Mexico;

Thence N 58°33'14" W, a distance of 2148.40' to the **Point of Beginning** of this easement, having coordinates of Northing=466376.65 feet, Easting=828528.17 feet, and continuing the following courses;

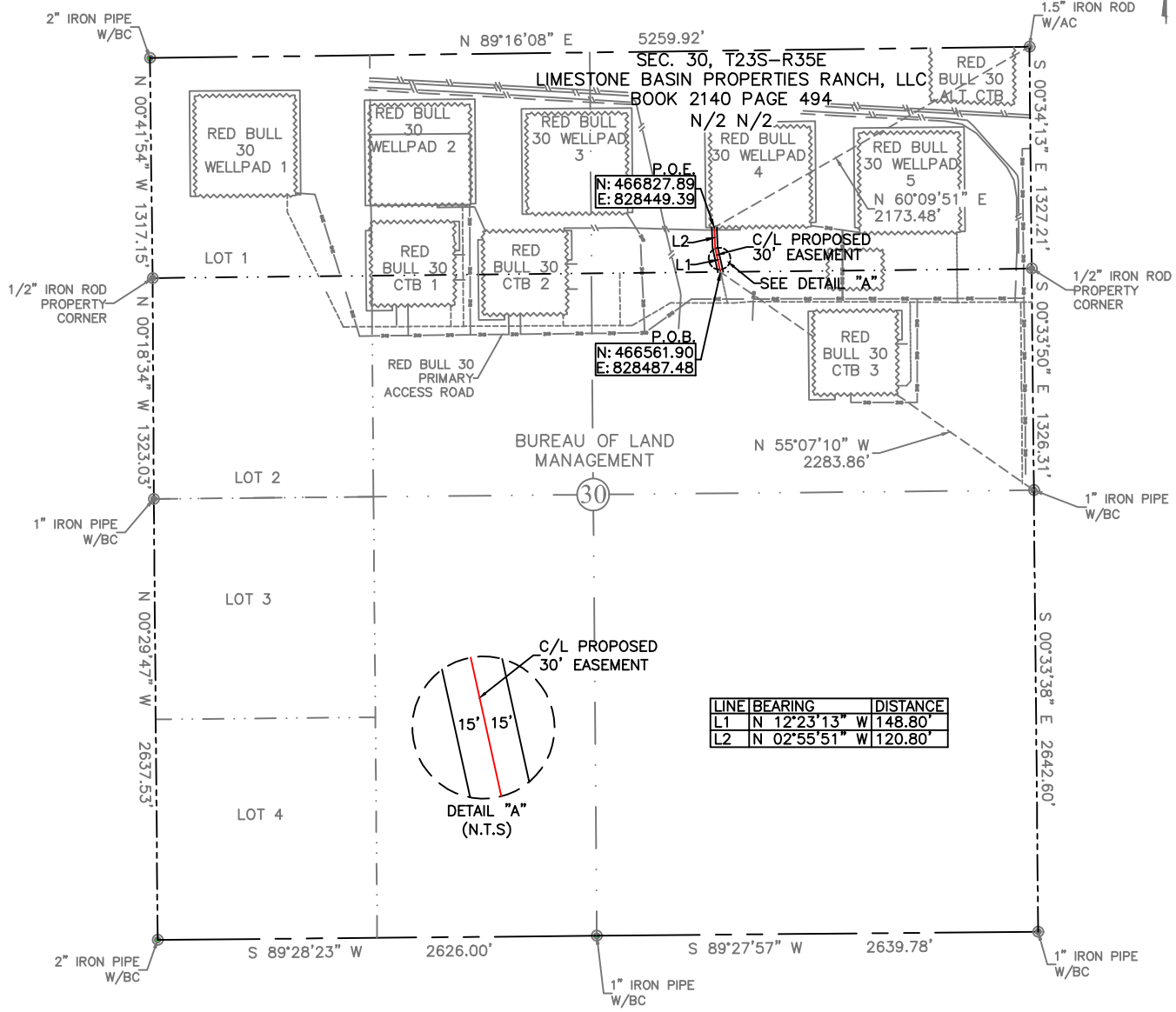
Thence N 12°23'13" W, a distance of 189.67' to the **Point of Ending** of this easement, in the north line of the S/2 of the N/2 of Section 30, having coordinates of Northing=466561.90 feet, Easting=828487.48 feet, from said point a 1.5" iron rod w/AC found for the northeast corner of Section 30, T23S-R35E, N.M.P.M., Lea County, New Mexico bears N 53°53'41" E a distance of 2286.44', covering **189.67' or 11.50 rods** and having an area of **0.131 acres**.

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

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

B.L. Laman PLS 22404
Date Signed: 05/15/2020
Horizon Row, LLC
P.O. Box 548, Dry Creek, LA
(903) 388-3045 70637
Employee of Horizon Row, LLC

EXHIBIT "A"
ACCESS ROAD PLAT
SECTION 30, T23S–R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LINE	BEARING	DISTANCE
L1	N 12°23'13" W	148.80'
L2	N 02°55'51" W	120.80'

30' EASEMENT AREA = 0.186 ACRE(S)
269.60 FEET OR 16.34 RODS

1+89.7 PROPERTY LINE
4+59.3 P.O.E./RED BULL 30 WELLPAD 4

SEE THE ATTACHED LEGAL DESCRIPTION

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

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

B.L. LAMAN NEW MEXICO 22404 PROFESSIONAL SURVEYOR

B.L. Laman PLS #22404
Date Signed: 05-15-2020
Horizonrow, LLC
P.O. Box 548, Dry Creek, LA.
(903) 388-3045 70637
Employee of Horizonrow, LLC

0 1000 2000

HORIZON ROW LLC

Drawn for: devon

Drawn by: JEANNIE PERRY

Date: 05/14/2020

DEVON ENERGY PRODUCTION COMPANY, L.P.

RED BULL 30 WELLPAD 4
ACCESS ROAD

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 30, T23S–R35E, N.M.P.M.

LINE NUMBER: 7680031R
WBS NUMBER: XX–137660.01.SLC
SCALE: 1" = 1000'
REVISIONS:
DATE SURVEY: 5/2020

SECTION 30, T23S-R35E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

LEGAL DESCRIPTION
FOR
DEVON ENERGY PRODUCTION COMPANY, L.P.
LIMESTONE BASIN PROPERTIES RANCH, LLC

30' EASEMENT DESCRIPTION:
BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the N/2 of the N/2 of Section 30, Township 23 South, Range 35 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Limestone Basin Properties Ranch, LLC, recorded in Book 2140, Page 494, Deed Records of Lea County. Said centerline of easement being more particularly described in a deed as follows:

Commencing from a 1" iron pipe w/BC found for the east quarter corner of Section 30, T23S-R35E, N.M.P.M., Lea County, New Mexico;

Thence N 55°07'10" W, a distance of 2283.86' to the **Point of Beginning** of this easement, having coordinates of Northing=466561.90 feet, Easting=828487.48 feet, in the south line of the N/2 of the N/2 of Section 30, and continuing the following courses;

Thence N 12°23'13" W, a distance of 148.80' to an angle point;

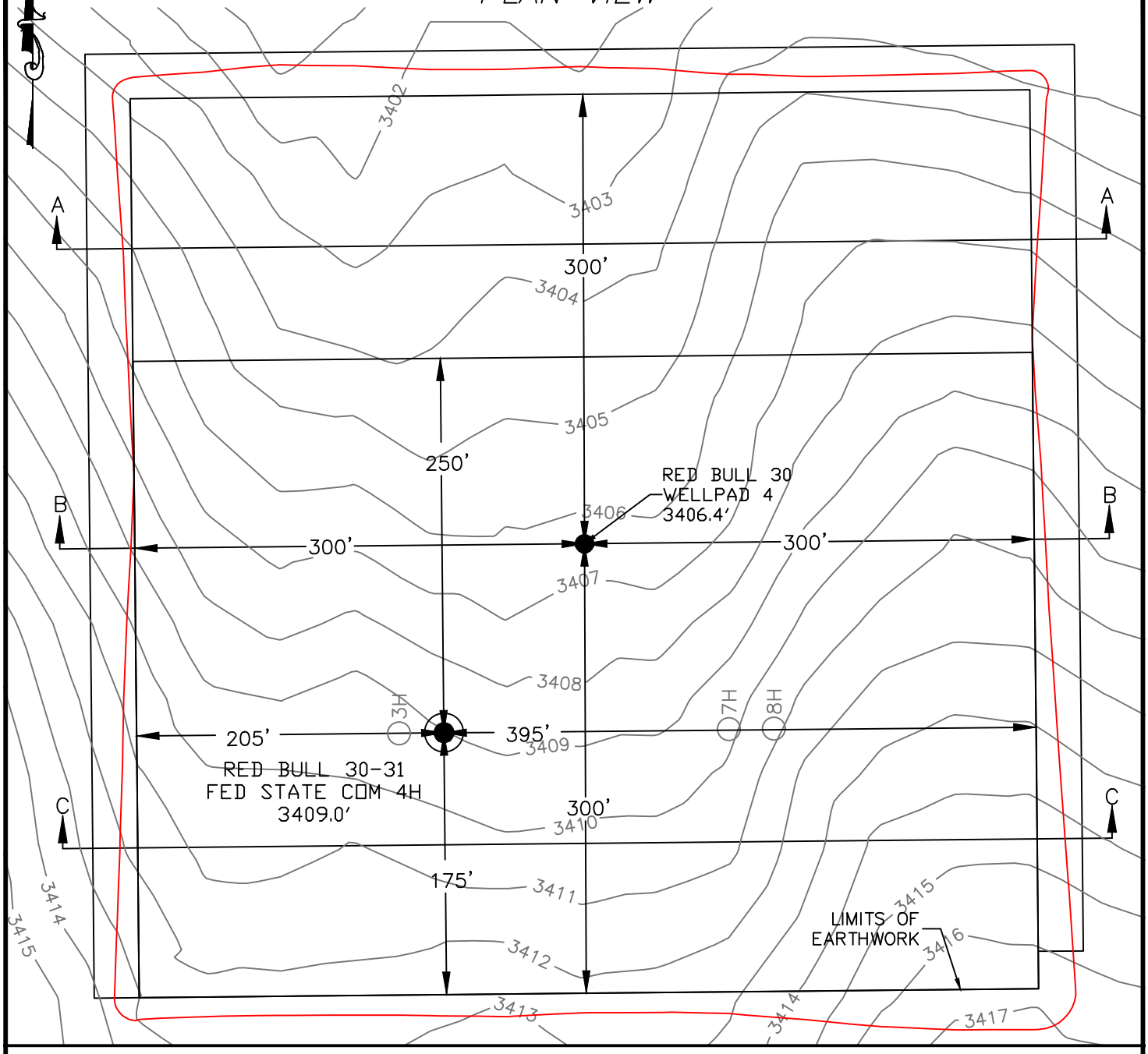
Thence N 02°55'51" W, a distance of 120.80' to the **Point of Ending** of this easement, having coordinates of 466827.89 feet, Easting=828449.39 feet, from said point a 1.5" iron rod w/AC found for the northeast corner of Section 30, T23S-R35E, N.M.P.M., Lea County, New Mexico bears N 60°09'51" E a distance of 2173.48', covering **269.60' or 16.34 rods** and having an area of **0.186 acres**.

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

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

B.L. Laman PLS 22404
Date Signed: 05/15/2020
Horizon Row, LLC
P.O. Box 548, Dry Creek, LA
(903) 388-3045 70637
Employee of Horizon Row, LLC

SECTION 30, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
PLAN VIEW



DEVON ENERGY PRODUCTION COMPANY, L.P.
RED BULL 30-31 FED STATE COM 4H
LOCATED 883 FT. FROM THE NORTH LINE
AND 1711 FT. FROM THE EAST LINE OF
SECTION 30, TOWNSHIP 23 SOUTH,
RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

0 100 200

EARTHWORK QUANTITIES FOR
RED BULL 30 WELLPAD 4

CUT	FILL	NET
20,583 CY	20,583 CY	0 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

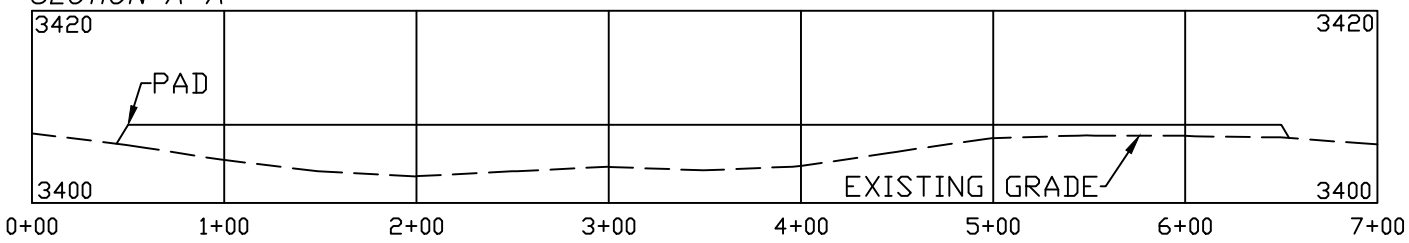
Drawn by: CHRIS MAAS

Date: 05/16/2020

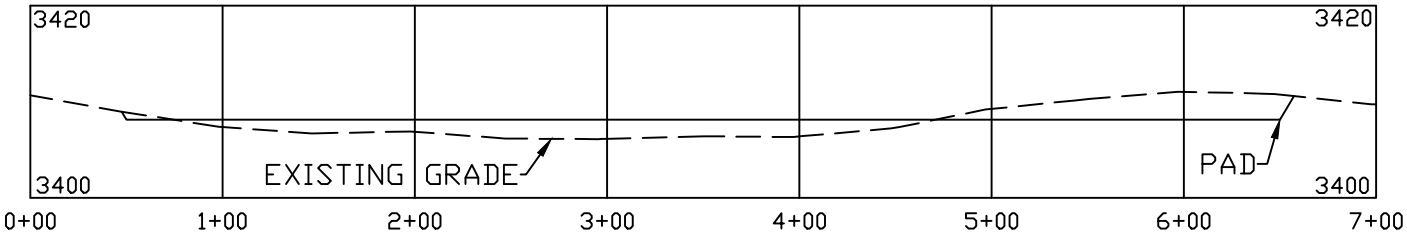
Drawn for: devon

SECTION 30, TOWNSHIP 23 SOUTH, RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
CROSS SECTIONS

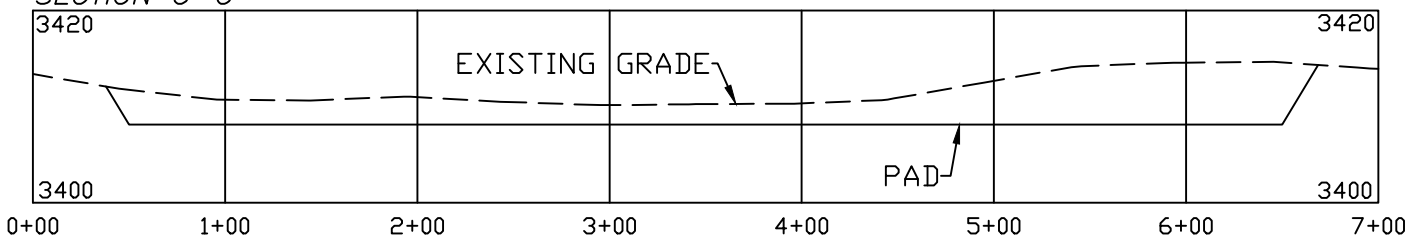
SECTION A–A



SECTION B–B



SECTION C–C



DEVON ENERGY PRODUCTION COMPANY, L.P.
RED BULL 30-31 FED STATE COM 4H
LOCATED 883 FT. FROM THE NORTH LINE
AND 1711 FT. FROM THE EAST LINE OF
SECTION 30, TOWNSHIP 23 SOUTH,
RANGE 35 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

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

EARTHWORK QUANTITIES FOR
RED BULL 30 WELLPAD 4

CUT	FILL	NET
20,583 CY	20,583 CY	0 CY

EARTHWORK QUANTITIES ARE ESTIMATED

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by: CHRIS MAAS

Date: 05/16/2020

Drawn for: devon

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LEASE NO.:	**NMNM115426**
LOCATION:	Section 30, T.23 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Red Bull 30-31 Fed State Com 3H
SURFACE HOLE FOOTAGE:	883'/N & 1741'/E
BOTTOM HOLE FOOTAGE	20'/S & 1870'/E

WELL NAME & NO.:	Red Bull 30-31 Fed State Com 4H
SURFACE HOLE FOOTAGE:	883'/N & 1711'/E
BOTTOM HOLE FOOTAGE	20'/S & 330'/E

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1236 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 **8-5/8** inch intermediate casing is:

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

❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

❖ **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 8-5/8" annulus. Operator must run a CBL from TD of the 8-5/8" 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** on top of Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. 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. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

 Approval Date: 12/18/2020

GENERAL REQUIREMENTS

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

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

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

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

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

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

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

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

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

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

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Red Bull 30-31 Fed State Com 4H

1. Geologic Formations

TVD of target	11660	Pilot hole depth	N/A
MD at TD:	22084	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	1100		
Salt	1400		
Capitan	3990		
Base of Salt	5249		
Delaware	5300		
Bone Spring 1st	9900		
Bone Spring 2nd	10350		
Bone Spring 3rd	11350		
Wolfcamp	11692		

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

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48.0	H40	STC	0	1125	0	1125
9 7/8	8 5/8	32.0	P110	TLW	0	10375	0	10375
7 7/8	5 1/2	17.0	P110	BTC	0	22084	0	11660

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	853	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	602	Surf	9	3.27	Lead: Class C Cement + additives
	67	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	602	Surf	9	3.27	Lead: Class C Cement + additives
	67	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	426	3940	9.0	3.3	Lead: Class H /C + additives
	1434	11248	13.2	1.4	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-58"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested to run a 5 M annular on a 10M system

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	8.5-9

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5457
Abnormal temperature	No

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

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

8. Other facets of operation

Is this a walking operation? Potentially

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

   NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed

from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

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

_____ Other, describe

WCDSC Permian NM

Lea County (NAD83 New Mexico East)
Sec 30-T23S-R35E
Red Bull 30-31 Fed State Com 4H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

30 June, 2020

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 30-31 Fed State Com 4H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3434.00ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3434.00ft
Site:	Sec 30-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 30-31 Fed State Com 4H	**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 30-T23S-R35E

Site Position:		**Northing:**	467,842.11 usft	**Latitude:**	32.282834
From:	Map	**Easting:**	825,075.29 usft	**Longitude:**	-103.415203
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.49 °

Well Red Bull 30-31 Fed State Com 4H

Well Position	**+N/-S**	0.00 ft	**Northing:**	467,004.44 usft	**Latitude:**	32.280448
	+E/-W	0.00 ft	**Easting:**	828,632.65 usft	**Longitude:**	-103.403716
Position Uncertainty		0.50 ft	**Wellhead Elevation:**		**Ground Level:**	3,409.00 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/29/2020	6.55	60.10	47,676.67966158

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	171.31

Plan Survey Tool Program **Date** 6/30/2020

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,083.98	Permit Plan 1 (Wellbore #1)	MWD+HDGM OWSG MWD + HDGM	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,183.32	11.83	58.30	3,174.93	63.99	103.59	1.00	1.00	0.00	58.30	
10,109.29	11.83	58.30	9,953.71	810.34	1,311.94	0.00	0.00	0.00	0.00	
10,898.18	0.00	0.00	10,737.00	853.00	1,381.00	1.50	-1.50	0.00	180.00	
11,248.22	0.00	0.00	11,087.04	853.00	1,381.00	0.00	0.00	0.00	0.00	
12,148.22	90.00	179.49	11,660.00	280.06	1,386.14	10.00	10.00	0.00	179.49	PBHL - Red Bull 30-3
22,083.98	90.00	179.49	11,660.00	-9,655.30	1,475.35	0.00	0.00	0.00	0.00	PBHL - Red Bull 30-3

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 30-31 Fed State Com 4H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3434.00ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3434.00ft
Site:	Sec 30-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 30-31 Fed State Com 4H	**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	467,004.44	828,632.65	32.280448	-103.403716
100.00	0.00	0.00	100.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
200.00	0.00	0.00	200.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
300.00	0.00	0.00	300.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
400.00	0.00	0.00	400.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
500.00	0.00	0.00	500.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
600.00	0.00	0.00	600.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
700.00	0.00	0.00	700.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
800.00	0.00	0.00	800.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
900.00	0.00	0.00	900.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,000.00	0.00	0.00	1,000.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,100.00	0.00	0.00	1,100.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,200.00	0.00	0.00	1,200.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,300.00	0.00	0.00	1,300.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,400.00	0.00	0.00	1,400.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,500.00	0.00	0.00	1,500.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,600.00	0.00	0.00	1,600.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,700.00	0.00	0.00	1,700.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,800.00	0.00	0.00	1,800.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
1,900.00	0.00	0.00	1,900.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
2,000.00	0.00	0.00	2,000.00	0.00	0.00	467,004.44	828,632.65	32.280448	-103.403716
2,100.00	1.00	58.30	2,099.99	0.46	0.74	467,004.90	828,633.39	32.280449	-103.403714
2,200.00	2.00	58.30	2,199.96	1.83	2.97	467,006.27	828,635.62	32.280453	-103.403707
2,300.00	3.00	58.30	2,299.86	4.13	6.68	467,008.57	828,639.33	32.280459	-103.403695
2,400.00	4.00	58.30	2,399.68	7.33	11.87	467,011.77	828,644.52	32.280467	-103.403678
2,500.00	5.00	58.30	2,499.37	11.46	18.55	467,015.90	828,651.20	32.280479	-103.403656
2,600.00	6.00	58.30	2,598.90	16.49	26.70	467,020.93	828,659.35	32.280492	-103.403629
2,700.00	7.00	58.30	2,698.26	22.44	36.33	467,026.88	828,668.98	32.280508	-103.403598
2,800.00	8.00	58.30	2,797.40	29.30	47.44	467,033.74	828,680.09	32.280527	-103.403562
2,900.00	9.00	58.30	2,896.30	37.07	60.02	467,041.51	828,692.66	32.280548	-103.403521
3,000.00	10.00	58.30	2,994.93	45.74	74.06	467,050.18	828,706.71	32.280572	-103.403475
3,100.00	11.00	58.30	3,093.26	55.32	89.56	467,059.76	828,722.21	32.280598	-103.403425
3,183.32	11.83	58.30	3,174.93	63.99	103.59	467,068.43	828,736.24	32.280621	-103.403379
3,200.00	11.83	58.30	3,191.25	65.78	106.50	467,070.22	828,739.15	32.280626	-103.403370
3,300.00	11.83	58.30	3,289.13	76.56	123.95	467,081.00	828,756.60	32.280655	-103.403313
3,400.00	11.83	58.30	3,387.00	87.34	141.40	467,091.78	828,774.04	32.280684	-103.403256
3,500.00	11.83	58.30	3,484.88	98.11	158.84	467,102.55	828,791.49	32.280713	-103.403200
3,600.00	11.83	58.30	3,582.75	108.89	176.29	467,113.33	828,808.94	32.280743	-103.403143
3,700.00	11.83	58.30	3,680.63	119.66	193.74	467,124.10	828,826.38	32.280772	-103.403086
3,800.00	11.83	58.30	3,778.50	130.44	211.18	467,134.88	828,843.83	32.280801	-103.403029
3,900.00	11.83	58.30	3,876.38	141.22	228.63	467,145.66	828,861.28	32.280830	-103.402973
4,000.00	11.83	58.30	3,974.25	151.99	246.08	467,156.43	828,878.72	32.280860	-103.402916
4,100.00	11.83	58.30	4,072.13	162.77	263.52	467,167.21	828,896.17	32.280889	-103.402859
4,200.00	11.83	58.30	4,170.00	173.55	280.97	467,177.99	828,913.62	32.280918	-103.402802
4,300.00	11.83	58.30	4,267.87	184.32	298.42	467,188.76	828,931.06	32.280947	-103.402746
4,400.00	11.83	58.30	4,365.75	195.10	315.86	467,199.54	828,948.51	32.280976	-103.402689
4,500.00	11.83	58.30	4,463.62	205.87	333.31	467,210.31	828,965.96	32.281006	-103.402632
4,600.00	11.83	58.30	4,561.50	216.65	350.75	467,221.09	828,983.40	32.281035	-103.402575
4,700.00	11.83	58.30	4,659.37	227.43	368.20	467,231.87	829,000.85	32.281064	-103.402519
4,800.00	11.83	58.30	4,757.25	238.20	385.65	467,242.64	829,018.30	32.281093	-103.402462
4,900.00	11.83	58.30	4,855.12	248.98	403.09	467,253.42	829,035.74	32.281122	-103.402405
5,000.00	11.83	58.30	4,953.00	259.75	420.54	467,264.19	829,053.19	32.281152	-103.402348
5,100.00	11.83	58.30	5,050.87	270.53	437.99	467,274.97	829,070.64	32.281181	-103.402292
5,200.00	11.83	58.30	5,148.75	281.31	455.43	467,285.75	829,088.08	32.281210	-103.402235
5,300.00	11.83	58.30	5,246.62	292.08	472.88	467,296.52	829,105.53	32.281239	-103.402178

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 30-31 Fed State Com 4H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3434.00ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3434.00ft
Site:	Sec 30-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 30-31 Fed State Com 4H	**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	11.83	58.30	5,344.50	302.86	490.33	467,307.30	829,122.97	32.281268	-103.402121
5,500.00	11.83	58.30	5,442.37	313.64	507.77	467,318.08	829,140.42	32.281298	-103.402065
5,600.00	11.83	58.30	5,540.25	324.41	525.22	467,328.85	829,157.87	32.281327	-103.402008
5,700.00	11.83	58.30	5,638.12	335.19	542.67	467,339.63	829,175.31	32.281356	-103.401951
5,800.00	11.83	58.30	5,736.00	345.96	560.11	467,350.40	829,192.76	32.281385	-103.401894
5,900.00	11.83	58.30	5,833.87	356.74	577.56	467,361.18	829,210.21	32.281414	-103.401838
6,000.00	11.83	58.30	5,931.75	367.52	595.01	467,371.96	829,227.65	32.281444	-103.401781
6,100.00	11.83	58.30	6,029.62	378.29	612.45	467,382.73	829,245.10	32.281473	-103.401724
6,200.00	11.83	58.30	6,127.50	389.07	629.90	467,393.51	829,262.55	32.281502	-103.401667
6,300.00	11.83	58.30	6,225.37	399.85	647.35	467,404.29	829,279.99	32.281531	-103.401611
6,400.00	11.83	58.30	6,323.25	410.62	664.79	467,415.06	829,297.44	32.281560	-103.401554
6,500.00	11.83	58.30	6,421.12	421.40	682.24	467,425.84	829,314.89	32.281590	-103.401497
6,600.00	11.83	58.30	6,519.00	432.17	699.69	467,436.61	829,332.33	32.281619	-103.401440
6,700.00	11.83	58.30	6,616.87	442.95	717.13	467,447.39	829,349.78	32.281648	-103.401384
6,800.00	11.83	58.30	6,714.75	453.73	734.58	467,458.17	829,367.23	32.281677	-103.401327
6,900.00	11.83	58.30	6,812.62	464.50	752.03	467,468.94	829,384.67	32.281706	-103.401270
7,000.00	11.83	58.30	6,910.50	475.28	769.47	467,479.72	829,402.12	32.281736	-103.401213
7,100.00	11.83	58.30	7,008.37	486.06	786.92	467,490.49	829,419.57	32.281765	-103.401157
7,200.00	11.83	58.30	7,106.25	496.83	804.37	467,501.27	829,437.01	32.281794	-103.401100
7,300.00	11.83	58.30	7,204.12	507.61	821.81	467,512.05	829,454.46	32.281823	-103.401043
7,400.00	11.83	58.30	7,302.00	518.38	839.26	467,522.82	829,471.91	32.281852	-103.400986
7,500.00	11.83	58.30	7,399.87	529.16	856.71	467,533.60	829,489.35	32.281882	-103.400930
7,600.00	11.83	58.30	7,497.75	539.94	874.15	467,544.38	829,506.80	32.281911	-103.400873
7,700.00	11.83	58.30	7,595.62	550.71	891.60	467,555.15	829,524.25	32.281940	-103.400816
7,800.00	11.83	58.30	7,693.50	561.49	909.05	467,565.93	829,541.69	32.281969	-103.400759
7,900.00	11.83	58.30	7,791.37	572.26	926.49	467,576.70	829,559.14	32.281998	-103.400703
8,000.00	11.83	58.30	7,889.25	583.04	943.94	467,587.48	829,576.58	32.282028	-103.400646
8,100.00	11.83	58.30	7,987.12	593.82	961.38	467,598.26	829,594.03	32.282057	-103.400589
8,200.00	11.83	58.30	8,085.00	604.59	978.83	467,609.03	829,611.48	32.282086	-103.400532
8,300.00	11.83	58.30	8,182.87	615.37	996.28	467,619.81	829,628.92	32.282115	-103.400476
8,400.00	11.83	58.30	8,280.74	626.15	1,013.72	467,630.58	829,646.37	32.282144	-103.400419
8,500.00	11.83	58.30	8,378.62	636.92	1,031.17	467,641.36	829,663.82	32.282174	-103.400362
8,600.00	11.83	58.30	8,476.49	647.70	1,048.62	467,652.14	829,681.26	32.282203	-103.400305
8,700.00	11.83	58.30	8,574.37	658.47	1,066.06	467,662.91	829,698.71	32.282232	-103.400249
8,800.00	11.83	58.30	8,672.24	669.25	1,083.51	467,673.69	829,716.16	32.282261	-103.400192
8,900.00	11.83	58.30	8,770.12	680.03	1,100.96	467,684.47	829,733.60	32.282290	-103.400135
9,000.00	11.83	58.30	8,867.99	690.80	1,118.40	467,695.24	829,751.05	32.282320	-103.400078
9,100.00	11.83	58.30	8,965.87	701.58	1,135.85	467,706.02	829,768.50	32.282349	-103.400022
9,200.00	11.83	58.30	9,063.74	712.36	1,153.30	467,716.79	829,785.94	32.282378	-103.399965
9,300.00	11.83	58.30	9,161.62	723.13	1,170.74	467,727.57	829,803.39	32.282407	-103.399908
9,400.00	11.83	58.30	9,259.49	733.91	1,188.19	467,738.35	829,820.84	32.282436	-103.399851
9,500.00	11.83	58.30	9,357.37	744.68	1,205.64	467,749.12	829,838.28	32.282466	-103.399795
9,600.00	11.83	58.30	9,455.24	755.46	1,223.08	467,759.90	829,855.73	32.282495	-103.399738
9,700.00	11.83	58.30	9,553.12	766.24	1,240.53	467,770.68	829,873.18	32.282524	-103.399681
9,800.00	11.83	58.30	9,650.99	777.01	1,257.98	467,781.45	829,890.62	32.282553	-103.399624
9,900.00	11.83	58.30	9,748.87	787.79	1,275.42	467,792.23	829,908.07	32.282582	-103.399568
10,000.00	11.83	58.30	9,846.74	798.56	1,292.87	467,803.00	829,925.52	32.282612	-103.399511
10,100.00	11.83	58.30	9,944.62	809.34	1,310.32	467,813.78	829,942.96	32.282641	-103.399454
10,109.29	11.83	58.30	9,953.71	810.34	1,311.94	467,814.78	829,944.58	32.282644	-103.399449
10,200.00	10.47	58.30	10,042.71	819.56	1,326.86	467,824.00	829,959.51	32.282669	-103.399400
10,300.00	8.97	58.30	10,141.27	828.44	1,341.23	467,832.88	829,973.88	32.282693	-103.399354
10,400.00	7.47	58.30	10,240.24	835.95	1,353.40	467,840.39	829,986.05	32.282713	-103.399314
10,500.00	5.97	58.30	10,339.54	842.10	1,363.36	467,846.54	829,996.01	32.282730	-103.399282
10,600.00	4.47	58.30	10,439.13	846.89	1,371.10	467,851.33	830,003.75	32.282743	-103.399256
10,700.00	2.97	58.30	10,538.91	850.30	1,376.63	467,854.74	830,009.27	32.282752	-103.399238

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 30-31 Fed State Com 4H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3434.00ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3434.00ft
Site:	Sec 30-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 30-31 Fed State Com 4H	**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
10,800.00	1.47	58.30	10,638.83	852.34	1,379.93	467,856.78	830,012.57	32.282757	-103.399228
10,898.18	0.00	0.00	10,737.00	853.00	1,381.00	467,857.44	830,013.65	32.282759	-103.399224
10,900.00	0.00	0.00	10,738.82	853.00	1,381.00	467,857.44	830,013.65	32.282759	-103.399224
11,000.00	0.00	0.00	10,838.82	853.00	1,381.00	467,857.44	830,013.65	32.282759	-103.399224
11,100.00	0.00	0.00	10,938.82	853.00	1,381.00	467,857.44	830,013.65	32.282759	-103.399224
11,200.00	0.00	0.00	11,038.82	853.00	1,381.00	467,857.44	830,013.65	32.282759	-103.399224
11,248.00	0.00	0.00	11,086.82	853.00	1,381.00	467,857.44	830,013.65	32.282759	-103.399224
KOP @ 11248' MD, 50' FNL, 330' FEL									
11,248.22	0.00	0.00	11,087.04	853.00	1,381.00	467,857.44	830,013.65	32.282759	-103.399224
11,300.00	5.18	179.49	11,138.75	850.66	1,381.02	467,855.10	830,013.67	32.282753	-103.399224
11,400.00	15.18	179.49	11,237.05	833.01	1,381.18	467,837.45	830,013.83	32.282704	-103.399224
11,500.00	25.18	179.49	11,330.80	798.56	1,381.49	467,803.00	830,014.13	32.282609	-103.399224
11,534.00	28.58	179.49	11,361.12	783.20	1,381.63	467,787.63	830,014.27	32.282567	-103.399224
FTP @ 11534' MD, 100' FNL, 330' FEL									
11,600.00	35.18	179.49	11,417.13	748.36	1,381.94	467,752.80	830,014.59	32.282471	-103.399224
11,700.00	45.18	179.49	11,493.44	683.93	1,382.52	467,688.37	830,015.16	32.282294	-103.399224
11,800.00	55.18	179.49	11,557.40	607.22	1,383.21	467,611.66	830,015.85	32.282084	-103.399224
11,900.00	65.18	179.49	11,607.07	520.58	1,383.98	467,525.02	830,016.63	32.281845	-103.399224
12,000.00	75.18	179.49	11,640.93	426.63	1,384.83	467,431.07	830,017.47	32.281587	-103.399224
12,100.00	85.18	179.49	11,657.97	328.22	1,385.71	467,332.66	830,018.36	32.281317	-103.399224
12,148.22	90.00	179.49	11,660.00	280.06	1,386.14	467,284.50	830,018.79	32.281184	-103.399224
12,200.00	90.00	179.49	11,660.00	228.28	1,386.61	467,232.72	830,019.26	32.281042	-103.399224
12,300.00	90.00	179.49	11,660.00	128.29	1,387.51	467,132.73	830,020.15	32.280767	-103.399224
12,400.00	90.00	179.49	11,660.00	28.29	1,388.40	467,032.73	830,021.05	32.280492	-103.399223
12,500.00	90.00	179.49	11,660.00	-71.70	1,389.30	466,932.74	830,021.95	32.280217	-103.399223
12,600.00	90.00	179.49	11,660.00	-171.70	1,390.20	466,832.74	830,022.85	32.279943	-103.399223
12,700.00	90.00	179.49	11,660.00	-271.70	1,391.10	466,732.75	830,023.74	32.279668	-103.399223
12,800.00	90.00	179.49	11,660.00	-371.69	1,392.00	466,632.75	830,024.64	32.279393	-103.399223
12,865.00	90.00	179.49	11,660.00	-436.69	1,392.58	466,567.75	830,025.23	32.279214	-103.399223
Cross NM115426 @ 12865' MD, 1320' FNL, 330' FEL									
12,900.00	90.00	179.49	11,660.00	-471.69	1,392.89	466,532.75	830,025.54	32.279118	-103.399223
13,000.00	90.00	179.49	11,660.00	-571.68	1,393.79	466,432.76	830,026.44	32.278843	-103.399223
13,100.00	90.00	179.49	11,660.00	-671.68	1,394.69	466,332.76	830,027.34	32.278568	-103.399223
13,200.00	90.00	179.49	11,660.00	-771.68	1,395.59	466,232.77	830,028.23	32.278293	-103.399223
13,300.00	90.00	179.49	11,660.00	-871.67	1,396.49	466,132.77	830,029.13	32.278018	-103.399223
13,400.00	90.00	179.49	11,660.00	-971.67	1,397.38	466,032.78	830,030.03	32.277744	-103.399223
13,500.00	90.00	179.49	11,660.00	-1,071.66	1,398.28	465,932.78	830,030.93	32.277469	-103.399222
13,600.00	90.00	179.49	11,660.00	-1,171.66	1,399.18	465,832.78	830,031.82	32.277194	-103.399222
13,700.00	90.00	179.49	11,660.00	-1,271.66	1,400.08	465,732.79	830,032.72	32.276919	-103.399222
13,800.00	90.00	179.49	11,660.00	-1,371.65	1,400.97	465,632.79	830,033.62	32.276644	-103.399222
13,900.00	90.00	179.49	11,660.00	-1,471.65	1,401.87	465,532.80	830,034.52	32.276369	-103.399222
14,000.00	90.00	179.49	11,660.00	-1,571.64	1,402.77	465,432.80	830,035.42	32.276094	-103.399222
14,100.00	90.00	179.49	11,660.00	-1,671.64	1,403.67	465,332.80	830,036.31	32.275820	-103.399222
14,185.00	90.00	179.49	11,660.00	-1,756.64	1,404.43	465,247.81	830,037.08	32.275586	-103.399222
Cross NM138884 @ 14185' MD, 2643' FSL, 330' FEL									
14,200.00	90.00	179.49	11,660.00	-1,771.64	1,404.57	465,232.81	830,037.21	32.275545	-103.399222
14,300.00	90.00	179.49	11,660.00	-1,871.63	1,405.46	465,132.81	830,038.11	32.275270	-103.399222
14,400.00	90.00	179.49	11,660.00	-1,971.63	1,406.36	465,032.82	830,039.01	32.274995	-103.399222
14,500.00	90.00	179.49	11,660.00	-2,071.62	1,407.26	464,932.82	830,039.91	32.274720	-103.399222
14,600.00	90.00	179.49	11,660.00	-2,171.62	1,408.16	464,832.83	830,040.80	32.274445	-103.399222
14,700.00	90.00	179.49	11,660.00	-2,271.61	1,409.06	464,732.83	830,041.70	32.274170	-103.399221
14,800.00	90.00	179.49	11,660.00	-2,371.61	1,409.95	464,632.83	830,042.60	32.273896	-103.399221
14,900.00	90.00	179.49	11,660.00	-2,471.61	1,410.85	464,532.84	830,043.50	32.273621	-103.399221
15,000.00	90.00	179.49	11,660.00	-2,571.60	1,411.75	464,432.84	830,044.39	32.273346	-103.399221

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 30-31 Fed State Com 4H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3434.00ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3434.00ft
Site:	Sec 30-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 30-31 Fed State Com 4H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,100.00	90.00	179.49	11,660.00	-2,671.60	1,412.65	464,332.85	830,045.29	32.273071	-103.399221
15,200.00	90.00	179.49	11,660.00	-2,771.59	1,413.54	464,232.85	830,046.19	32.272796	-103.399221
15,300.00	90.00	179.49	11,660.00	-2,871.59	1,414.44	464,132.86	830,047.09	32.272521	-103.399221
15,400.00	90.00	179.49	11,660.00	-2,971.59	1,415.34	464,032.86	830,047.99	32.272246	-103.399221
15,500.00	90.00	179.49	11,660.00	-3,071.58	1,416.24	463,932.86	830,048.88	32.271972	-103.399221
15,600.00	90.00	179.49	11,660.00	-3,171.58	1,417.14	463,832.87	830,049.78	32.271697	-103.399221
15,700.00	90.00	179.49	11,660.00	-3,271.57	1,418.03	463,732.87	830,050.68	32.271422	-103.399221
15,800.00	90.00	179.49	11,660.00	-3,371.57	1,418.93	463,632.88	830,051.58	32.271147	-103.399220
15,900.00	90.00	179.49	11,660.00	-3,471.57	1,419.83	463,532.88	830,052.48	32.270872	-103.399220
16,000.00	90.00	179.49	11,660.00	-3,571.56	1,420.73	463,432.89	830,053.37	32.270597	-103.399220
16,100.00	90.00	179.49	11,660.00	-3,671.56	1,421.63	463,332.89	830,054.27	32.270322	-103.399220
16,200.00	90.00	179.49	11,660.00	-3,771.55	1,422.52	463,232.89	830,055.17	32.270047	-103.399220
16,300.00	90.00	179.49	11,660.00	-3,871.55	1,423.42	463,132.90	830,056.07	32.269773	-103.399220
16,400.00	90.00	179.49	11,660.00	-3,971.55	1,424.32	463,032.90	830,056.96	32.269498	-103.399220
16,500.00	90.00	179.49	11,660.00	-4,071.54	1,425.22	462,932.91	830,057.86	32.269223	-103.399220
16,600.00	90.00	179.49	11,660.00	-4,171.54	1,426.11	462,832.91	830,058.76	32.268948	-103.399220
16,700.00	90.00	179.49	11,660.00	-4,271.53	1,427.01	462,732.91	830,059.66	32.268673	-103.399220
16,800.00	90.00	179.49	11,660.00	-4,371.53	1,427.91	462,632.92	830,060.56	32.268398	-103.399220
16,841.00	90.00	179.49	11,660.00	-4,412.53	1,428.28	462,591.92	830,060.92	32.268286	-103.399220
Cross section @ 16841' MD, 0' FNL, 330' FEL									
16,900.00	90.00	179.49	11,660.00	-4,471.53	1,428.81	462,532.92	830,061.45	32.268123	-103.399219
17,000.00	90.00	179.49	11,660.00	-4,571.52	1,429.71	462,432.93	830,062.35	32.267849	-103.399219
17,100.00	90.00	179.49	11,660.00	-4,671.52	1,430.60	462,332.93	830,063.25	32.267574	-103.399219
17,200.00	90.00	179.49	11,660.00	-4,771.51	1,431.50	462,232.94	830,064.15	32.267299	-103.399219
17,300.00	90.00	179.49	11,660.00	-4,871.51	1,432.40	462,132.94	830,065.05	32.267024	-103.399219
17,400.00	90.00	179.49	11,660.00	-4,971.51	1,433.30	462,032.94	830,065.94	32.266749	-103.399219
17,500.00	90.00	179.49	11,660.00	-5,071.50	1,434.20	461,932.95	830,066.84	32.266474	-103.399219
17,600.00	90.00	179.49	11,660.00	-5,171.50	1,435.09	461,832.95	830,067.74	32.266199	-103.399219
17,700.00	90.00	179.49	11,660.00	-5,271.49	1,435.99	461,732.96	830,068.64	32.265925	-103.399219
17,800.00	90.00	179.49	11,660.00	-5,371.49	1,436.89	461,632.96	830,069.53	32.265650	-103.399219
17,900.00	90.00	179.49	11,660.00	-5,471.49	1,437.79	461,532.97	830,070.43	32.265375	-103.399219
18,000.00	90.00	179.49	11,660.00	-5,571.48	1,438.68	461,432.97	830,071.33	32.265100	-103.399218
18,100.00	90.00	179.49	11,660.00	-5,671.48	1,439.58	461,332.97	830,072.23	32.264825	-103.399218
18,200.00	90.00	179.49	11,660.00	-5,771.47	1,440.48	461,232.98	830,073.13	32.264550	-103.399218
18,300.00	90.00	179.49	11,660.00	-5,871.47	1,441.38	461,132.98	830,074.02	32.264275	-103.399218
18,400.00	90.00	179.49	11,660.00	-5,971.47	1,442.28	461,032.99	830,074.92	32.264001	-103.399218
18,500.00	90.00	179.49	11,660.00	-6,071.46	1,443.17	460,932.99	830,075.82	32.263726	-103.399218
18,600.00	90.00	179.49	11,660.00	-6,171.46	1,444.07	460,832.99	830,076.72	32.263451	-103.399218
18,700.00	90.00	179.49	11,660.00	-6,271.45	1,444.97	460,733.00	830,077.62	32.263176	-103.399218
18,800.00	90.00	179.49	11,660.00	-6,371.45	1,445.87	460,633.00	830,078.51	32.262901	-103.399218
18,900.00	90.00	179.49	11,660.00	-6,471.45	1,446.77	460,533.01	830,079.41	32.262626	-103.399218
19,000.00	90.00	179.49	11,660.00	-6,571.44	1,447.66	460,433.01	830,080.31	32.262351	-103.399218
19,100.00	90.00	179.49	11,660.00	-6,671.44	1,448.56	460,333.02	830,081.21	32.262076	-103.399218
19,200.00	90.00	179.49	11,660.00	-6,771.43	1,449.46	460,233.02	830,082.10	32.261802	-103.399217
19,300.00	90.00	179.49	11,660.00	-6,871.43	1,450.36	460,133.02	830,083.00	32.261527	-103.399217
19,400.00	90.00	179.49	11,660.00	-6,971.43	1,451.25	460,033.03	830,083.90	32.261252	-103.399217
19,500.00	90.00	179.49	11,660.00	-7,071.42	1,452.15	459,933.03	830,084.80	32.260977	-103.399217
19,600.00	90.00	179.49	11,660.00	-7,171.42	1,453.05	459,833.04	830,085.70	32.260702	-103.399217
19,700.00	90.00	179.49	11,660.00	-7,271.41	1,453.95	459,733.04	830,086.59	32.260427	-103.399217
19,800.00	90.00	179.49	11,660.00	-7,371.41	1,454.85	459,633.05	830,087.49	32.260152	-103.399217
19,900.00	90.00	179.49	11,660.00	-7,471.41	1,455.74	459,533.05	830,088.39	32.259878	-103.399217
20,000.00	90.00	179.49	11,660.00	-7,571.40	1,456.64	459,433.05	830,089.29	32.259603	-103.399217
20,100.00	90.00	179.49	11,660.00	-7,671.40	1,457.54	459,333.06	830,090.19	32.259328	-103.399217
20,200.00	90.00	179.49	11,660.00	-7,771.39	1,458.44	459,233.06	830,091.08	32.259053	-103.399217

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	**Local Co-ordinate Reference:**	Well Red Bull 30-31 Fed State Com 4H
Company:	WCDSC Permian NM	**TVD Reference:**	RKB @ 3434.00ft
Project:	Lea County (NAD83 New Mexico East)	**MD Reference:**	RKB @ 3434.00ft
Site:	Sec 30-T23S-R35E	**North Reference:**	Grid
Well:	Red Bull 30-31 Fed State Com 4H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,300.00	90.00	179.49	11,660.00	-7,871.39	1,459.34	459,133.07	830,091.98	32.258778	-103.399216
20,400.00	90.00	179.49	11,660.00	-7,971.39	1,460.23	459,033.07	830,092.88	32.258503	-103.399216
20,500.00	90.00	179.49	11,660.00	-8,071.38	1,461.13	458,933.08	830,093.78	32.258228	-103.399216
20,600.00	90.00	179.49	11,660.00	-8,171.38	1,462.03	458,833.08	830,094.67	32.257954	-103.399216
20,700.00	90.00	179.49	11,660.00	-8,271.37	1,462.93	458,733.08	830,095.57	32.257679	-103.399216
20,800.00	90.00	179.49	11,660.00	-8,371.37	1,463.82	458,633.09	830,096.47	32.257404	-103.399216
20,900.00	90.00	179.49	11,660.00	-8,471.37	1,464.72	458,533.09	830,097.37	32.257129	-103.399216
21,000.00	90.00	179.49	11,660.00	-8,571.36	1,465.62	458,433.10	830,098.27	32.256854	-103.399216
21,100.00	90.00	179.49	11,660.00	-8,671.36	1,466.52	458,333.10	830,099.16	32.256579	-103.399216
21,200.00	90.00	179.49	11,660.00	-8,771.35	1,467.42	458,233.10	830,100.06	32.256304	-103.399216
21,300.00	90.00	179.49	11,660.00	-8,871.35	1,468.31	458,133.11	830,100.96	32.256030	-103.399216
21,400.00	90.00	179.49	11,660.00	-8,971.35	1,469.21	458,033.11	830,101.86	32.255755	-103.399215
21,500.00	90.00	179.49	11,660.00	-9,071.34	1,470.11	457,933.12	830,102.76	32.255480	-103.399215
21,600.00	90.00	179.49	11,660.00	-9,171.34	1,471.01	457,833.12	830,103.65	32.255205	-103.399215
21,700.00	90.00	179.49	11,660.00	-9,271.33	1,471.91	457,733.13	830,104.55	32.254930	-103.399215
21,800.00	90.00	179.49	11,660.00	-9,371.33	1,472.80	457,633.13	830,105.45	32.254655	-103.399215
21,900.00	90.00	179.49	11,660.00	-9,471.32	1,473.70	457,533.13	830,106.35	32.254380	-103.399215
22,000.00	90.00	179.49	11,660.00	-9,571.32	1,474.60	457,433.14	830,107.24	32.254105	-103.399215
22,004.00	90.00	179.49	11,660.00	-9,575.32	1,474.63	457,429.14	830,107.28	32.254094	-103.399215
LTP @ 22004' MD, 100' FSL, 330' FEL									
22,083.97	90.00	179.49	11,660.00	-9,655.29	1,475.35	457,349.17	830,108.00	32.253875	-103.399215
PBHL; 20' FSL, 330' FEL									
22,083.98	90.00	179.49	11,660.00	-9,655.30	1,475.35	457,349.16	830,108.00	32.253875	-103.399215

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 30-31 F	0.00	0.00	0.00	-9,655.30	1,475.35	457,349.16	830,108.00	32.253875	-103.399215
- plan misses target center by 9767.37ft 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
11,248.00	11,086.82	853.00	1,381.00	KOP @ 11248' MD, 50' FNL, 330' FEL
11,534.00	11,361.12	783.20	1,381.63	FTP @ 11534' MD, 100' FNL, 330' FEL
12,865.00	11,660.00	-436.69	1,392.58	Cross NM115426 @ 12865' MD, 1320' FNL, 330' FEL
14,185.00	11,660.00	-1,756.64	1,404.43	Cross NM138884 @ 14185' MD, 2643' FSL, 330' FEL
16,841.00	11,660.00	-4,412.53	1,428.28	Cross section @ 16841' MD, 0' FNL, 330' FEL
22,004.00	11,660.00	-9,575.32	1,474.63	LTP @ 22004' MD, 100' FSL, 330' FEL
22,083.97	11,660.00	-9,655.29	1,475.35	PBHL; 20' FSL, 330' FEL

Devon Energy

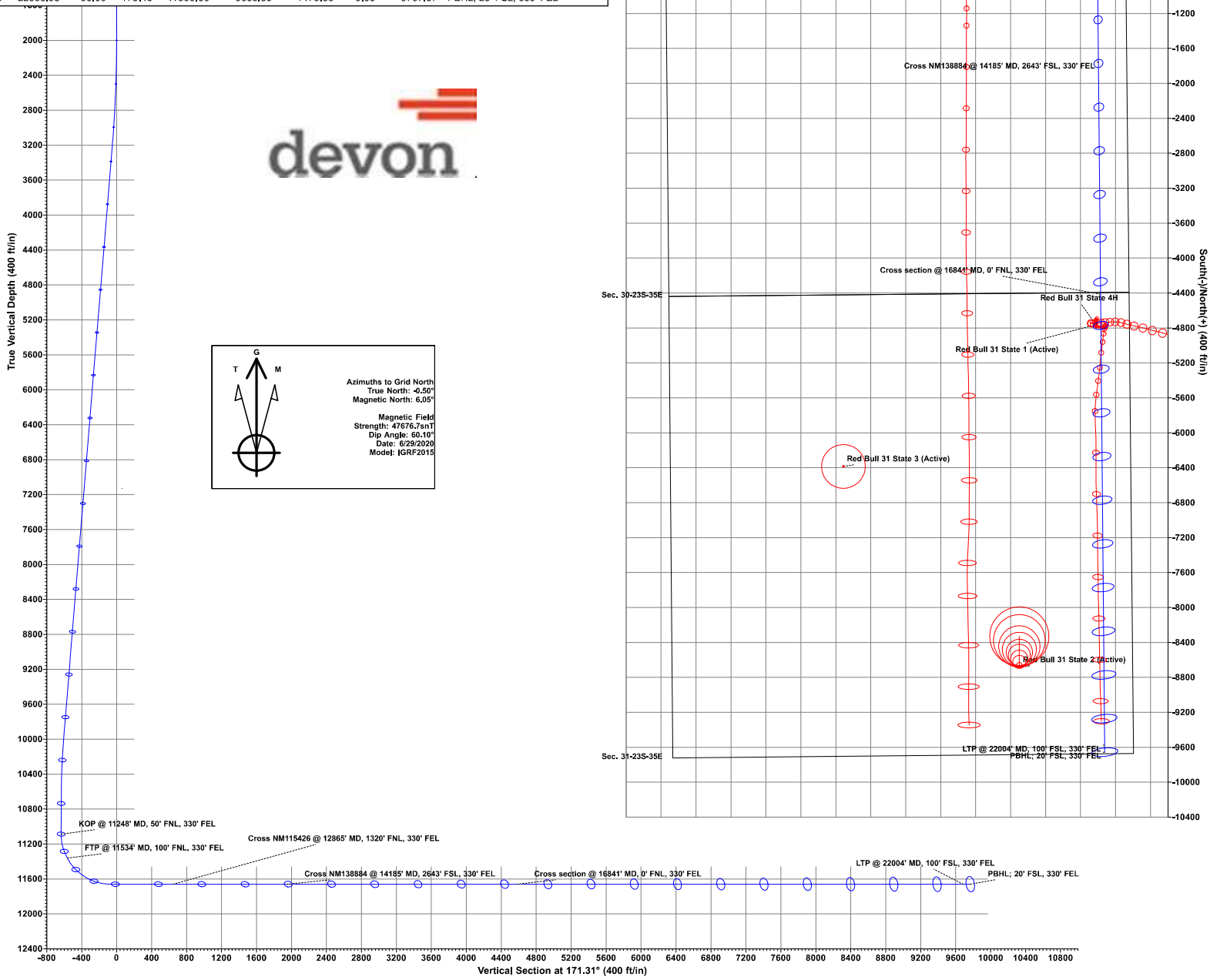
WELL DETAILS: Red Bull 30-31 Fed State Com 4H

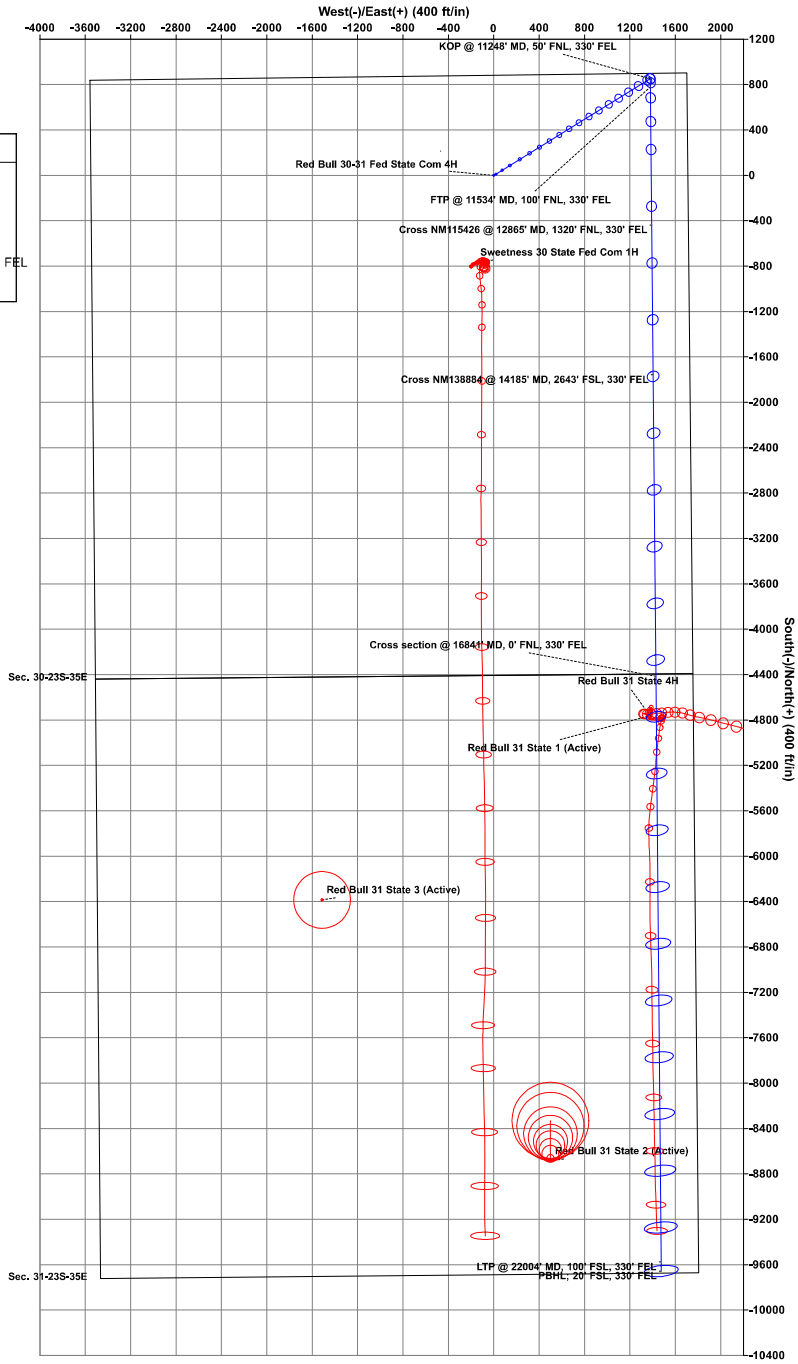
RKB @ 3434.00ft
3409.00

Northing	Easting	Latitude	Longitude
467004.44	828632.65	32.280448	-103.403716

SECTION DETAILS Permit Plan 1

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	
	3183.32	11.83	58.30	3174.93	63.99	103.59	1.00	-47.60	
	10109.29	11.83	58.30	9953.71	810.34	1311.94	0.00	-602.88	
5	10898.18	0.00	0.00	10737.00	853.00	1381.00	1.50	-634.61	
6	11248.22	0.00	0.00	11087.04	853.00	1381.00	0.00	-634.61	KOP @ 11248' MD, 50' FNL, 330' FEL
7	12148.22	90.00	179.49	11660.00	280.06	1386.14	10.00	-67.47	
8	22083.98	90.00	179.49	11660.00	-9655.30	1475.35	0.00	9767.37	PBHL; 20' FSL, 330' FEL





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.

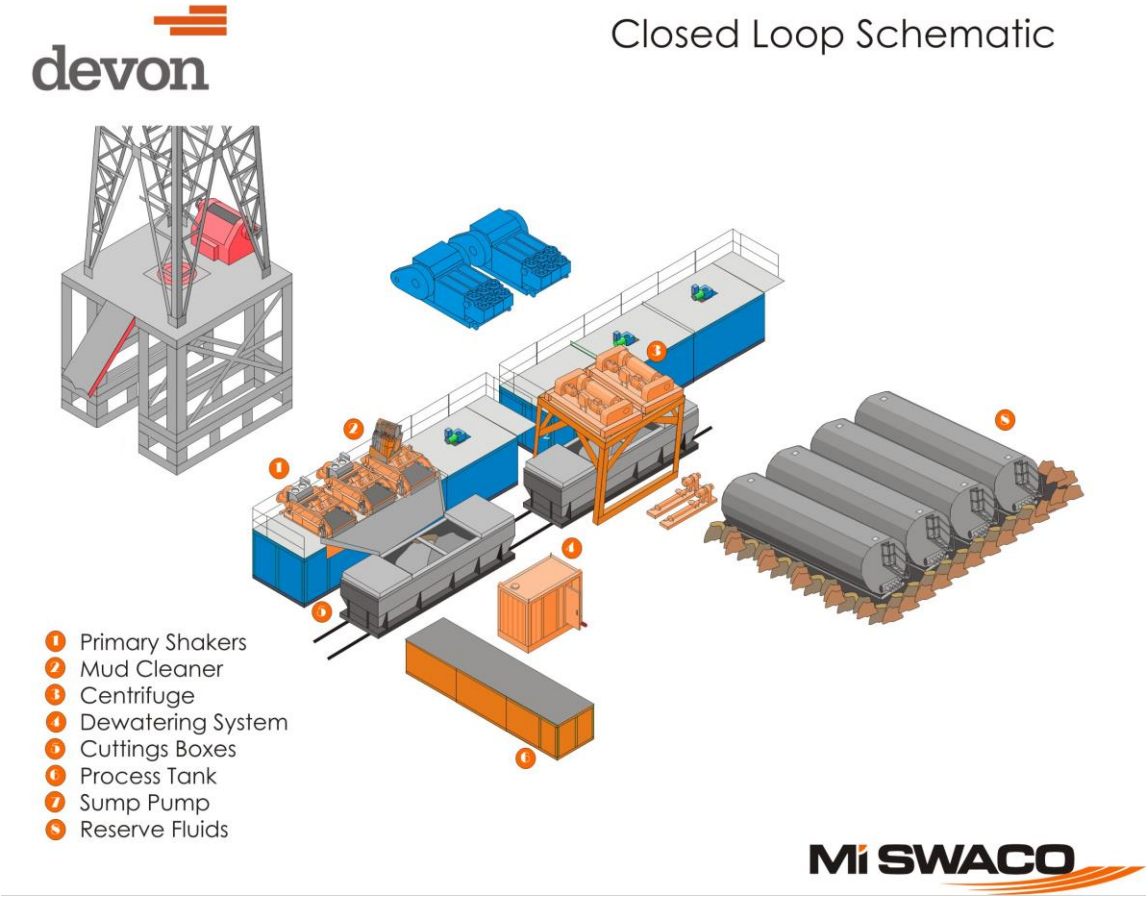
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.

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

Hydrogen Sulfide (H_2S) Contingency Plan

For

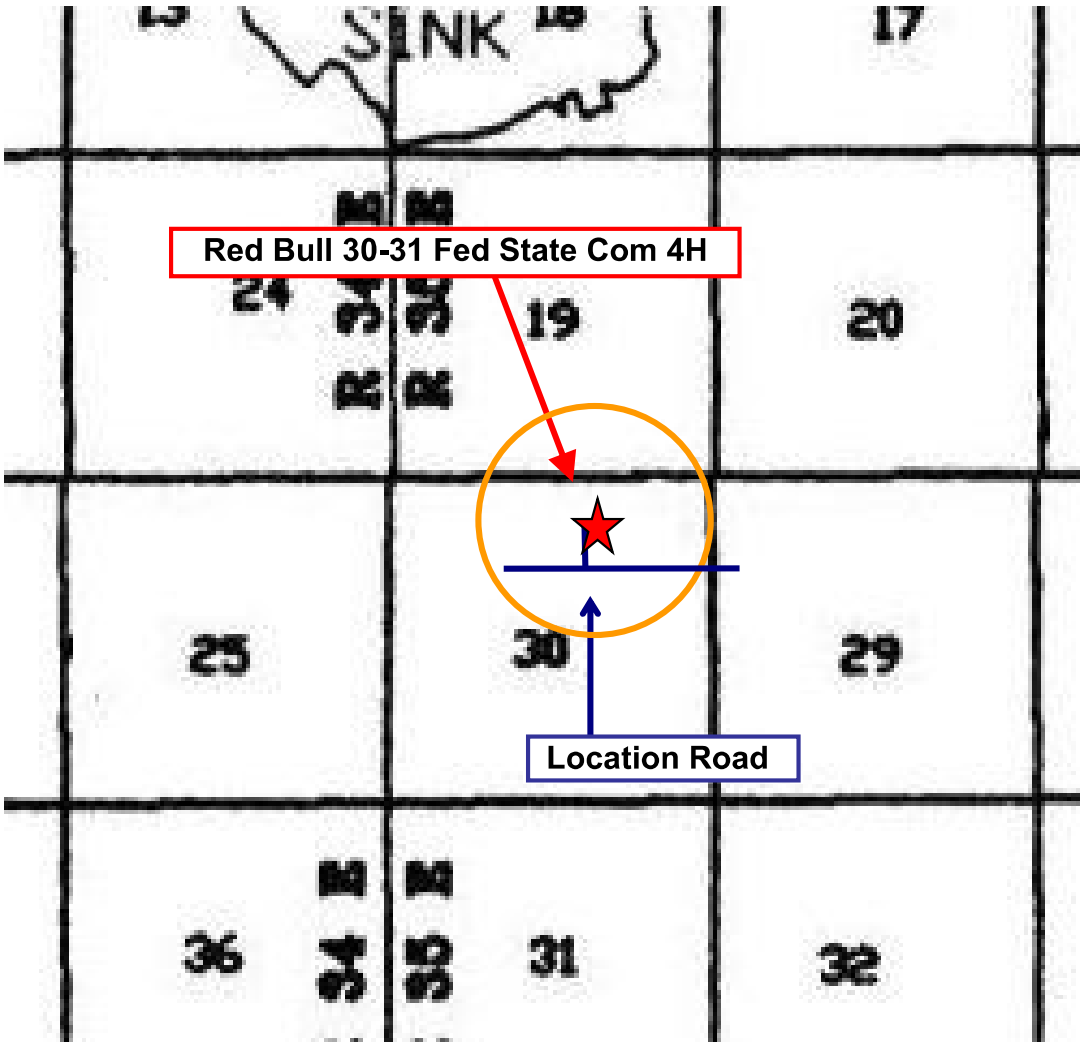
Red Bull 30-31 Fed State Com 4H

Sec-30 T-23S R-35E
883 FNL & 1711' FEL
LAT. = 32.280448' N (NAD83)
LONG = 103.403716' W

Lea County NM

Red Bull 30-31 Fed State Com 4H

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:**

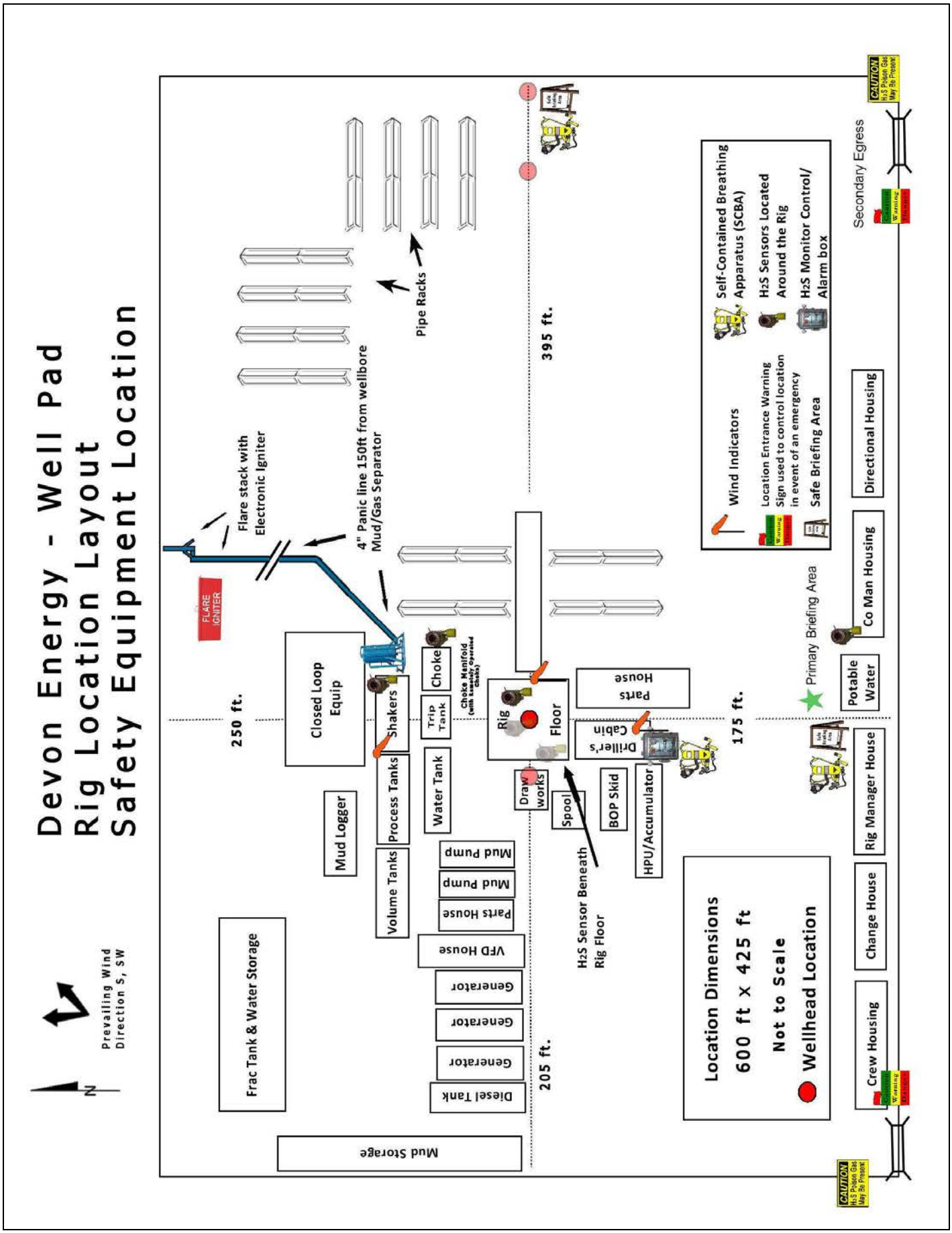
   A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing 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 (TX & NM)	(800) 642-7828
	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Prepared in conjunction with
Dave Small

SHARP communications and consulting



Devon Energy Corp. Cont Plan. Page 8

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-48327	2200	ANTELOPE RIDGE;BONE SPRING

Property Code	Property Name	Well Number
329954	RED BULL 30-31 FED STATE COM	4H

OGRID No.	Operator Name	Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3409.0'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	30	23-S	35-E		883	NORTH	1711	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	23-S	35-E		20	SOUTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

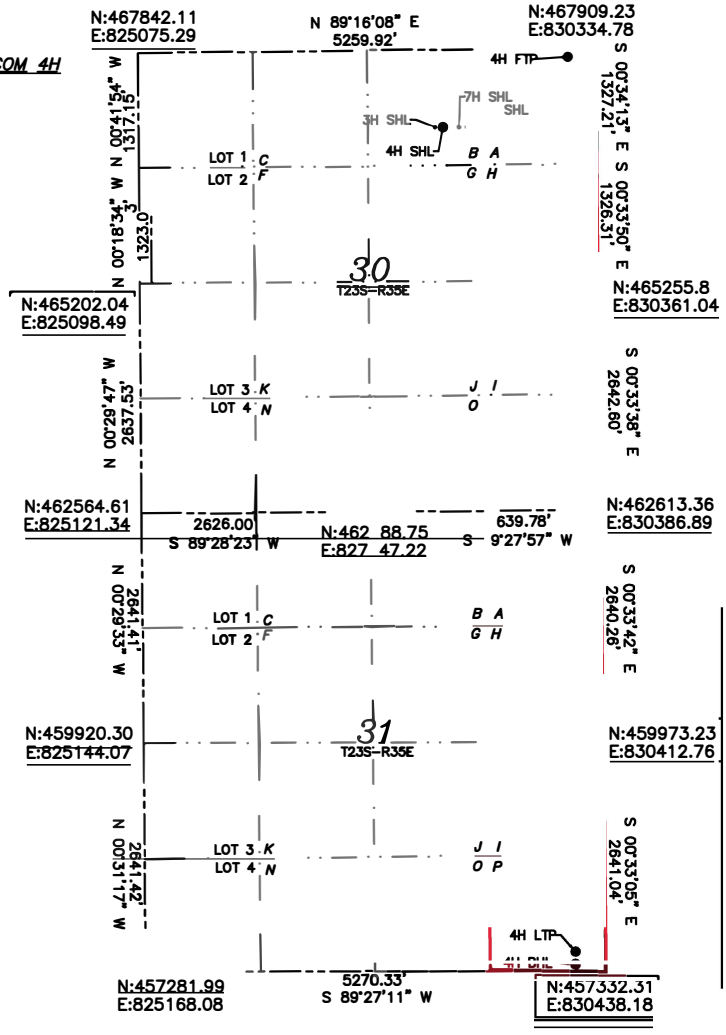
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

RED BULL 30-31 FED STATE COM 4H
EL: 3409.0'
LAT:32.280448
LON:103.403716
N:467004.44
E:828632.65

FIRST TAKE POINT
100' FNL 330' FEL SEC. 30
LAT:32.282615
LON:103.399251
N:467805.02
E:830005.79

LAST TAKE POINT
100' FSL 330' FEL SEC. 31
LAT:32.254094
LON:103.399215
N:457429.16
E:830107.23

BOTTOM OF HOLE
LAT:32.253875
LON:103.399215
N:457349.16
E:830108.00



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

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 6/29/2020
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

05/09/2020
Date of Survey

Signature & Seal of Professional Surveyor

B. L. LAMAN
NEW MEXICO
22404
PROFESSIONAL SURVEYOR

05/28/20
Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent [x] As Drilled [ ]

API #
30-025-48327

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, LP.	RED BULL 30-31 FED STATE COM	4H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	30	23S	35E		50	FNL	330	FEL	LEA

Latitude	Longitude	NAD
32.282759	-103.399224	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	30	23-S	35-E		100	NORTH	330	EAST	LEA

Latitude	Longitude	NAD
32.282615	103.399215	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	31	23-S	35-E		100	SOUTH	330	EAST	LEA

Latitude	Longitude	NAD
32.254094	103.399215	83

Is this well the defining well for the Horizontal Spacing Unit? [Y]

Is this well an infill well? [N]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: 7/1/2020

☒ Original Operator & OGRID No.: 6137
☐ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Red Bull 30-31 Fed State Com 3H		30-23S-35E	883 FNL & 1741 FEL			Will connect to Red Bull 30 CTB 2
Red Bull 30-31 Fed State Com 4H		30-23S-35E	883 FNL & 1711 FEL			Will connect to Red Bull 30 CTB 2
Red Bull 30 Fed 7H		30-23S-35E	883 FNL & 1521 FEL			Will connect to Red Bull 30 CTB 2
Red Bull 30 Fed 8H		30-23S-35E	883 FNL & 1491 FEL			Will connect to Red Bull 30 CTB 2

30-025-48327

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Lucid and will be connected to Lucid low/high pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. Devon Energy Production Co. provides (periodically) to Lucid a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Devon Energy Production Co. and Lucid have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Red Hills Processing Plant located in Sec.13, Twn.24S, Rng.34E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Lucid's system at that time. Based on current information, it is Devon Energy Production Co.'s belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 13212

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
DEVON ENERGY PRODUCTION COMPAN	333 West Sheridan Ave.	Oklahoma City, OK73102	6137	13212	FORM 3160-3

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing &cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string