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Form 3160-4
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2021

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.

1a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Competion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing
Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator

8. Well Name and Well No.

3. Address

3a. Phone No. *(Include area code)*

9. API Well No.

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At surface

At top prod. interval reported below

At total depth

10. Field and Pool or Exploratory

11. Sec., T., R., M., on Block and Survey or Area

12. County or Parish

13. State

14. Date Spudded

15. Date T.D. Reached

16. Date Completed
☐ D & A ☐ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*

18. Total Depth: MD
TVD

19. Plug Back T.D.: MD
TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☐ No ☐ Yes (Submit analysis)
Was DST run? ☐ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☐ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom
A)		
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org when required by state or federal regulation

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org as applicable

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

*(See instructions and spaces for additional data on page 2)

Released to Imaging: 12/18/2023 1:13:07 PM

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* _____ Title _____

Signature _____ Date _____

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.

(Continued on page 3)

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, 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, the local Federal office.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.
ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.
ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

NOTICES

The Privacy Act of 1974 and the 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., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.
ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.
This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.
Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting 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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Information
Location information: 00S1

SHL: NESE / 2346 FSL / 738 FEL / TWSP: 26S / RNG: 30E / SEC: 12 / LAT: 32.056431 / LONG: -103.828546
KOP: NESE / 2593 FSL / 338 FEL / TWSP: 26S / RNG: 30E / SEC: 12 / LAT: 32.057111 / LONG: -103.827255
PPP: NESE / 2322 FSL / 370 FEL / TWSP: 26S / RNG: 30E / SEC: 12 / LAT: 32.056365 / LONG: -103.827358
EXIT: SESE / 383 FSL / 368 FEL / TWSP: 26S / RNG: 30E / SEC: 13 / LAT: 32.036386 / LONG: -103.827339
BHL: SESE / 342 FSL / 371 FEL / TWSP: 26S / RNG: 30E / SEC: 13 / LAT: 32.036274 / LONG: -103.827351

Summary of Porous Zones Information:

Formation: BONE SPRING 2ND, Descriptions, Contents, etc: null, Bottom: 9329
Formation: BONE SPRING 3RD, Descriptions, Contents, etc: null, Bottom: 10678
Formation: WOLFCAMP, Descriptions, Contents, etc: null, Bottom: 11951

Attachments: 00S1

Log Attachments:
1) Final_Dire_Wolf_12_Fed_721H_5in_MD_20211011101638.pdf
2) DIRE_WOLF_12_FED_721H_CBL_20230823092727.pdf
3) Dire_Wolf_12_Fed_721H_Final_OH_Surveys_20211011101652.pdf
4) Dire_Wolf_12_Fed_721H_Final_PVA_20211011101710.pdf
5) DIRE_WOLF_12_FED_721H_PLATS_20211011101726.pdf

Dove Wolf 12 Fed #7Z2H

Operator: Devon Energy Production Co., L.P.
Rig: Ensign 724
Spud: 10/12/2021 - 10:00 CST
TD: 10/22/2021 - 18:00 CST
Surface Location: 1,000' FSL & 1,000' FEL
Section 12, T-26-N, R-7-E
San Juan, New Mexico
Bottom Hole Location: 1,000' FSL & 1,000' FWL
Section 7, T-26-N, R-8-E
San Juan, New Mexico
Elevation: 6,346' (KB)
Vertical Section: 0.00 ft
Azimuth: 0.00°
Dip: 0.00°
Total Corrected Distance: 0.00 ft

Survey Calculation Method:	Minimum Curvature					
Vertical Section Plane:						0.00
Surface Location:						0.00
Measured Depth	**Inclination**	**Azimuth**	**True Vertical Depth**	**Vertical Section**	**Northing**	**Easting**
0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00
11,000.00	0.00	0.00	11,000.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,100.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,200.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,300.00	0.00	0.00	0.00
11,400.00	0.00	0.00	11,400.00	0.00	0.00	0.00
11,500.00	0.00	0.00	11,500.00	0.00	0.00	0.00
11,600.00	0.00	0.00	11,600.00	0.00	0.00	0.00
11,700.00	0.00	0.00	11,700.00	0.00	0.00	0.00
11,800.00	0.00	0.00	11,800.00	0.00	0.00	0.00
11,900.00	0.00	0.00	11,900.00	0.00	0.00	0.00
12,000.00	0.00	0.00	12,000.00	0.00	0.00	0.00
12,100.00	0.00	0.00	12,100.00	0.00	0.00	0.00
12,200.00	0.00	0.00	12,200.00	0.00	0.00	0.00
12,300.00	0.00	0.00	12,300.00	0.00	0.00	0.00
12,400.00	0.00	0.00	12,400.00	0.00	0.00	0.00
12,500.00	0.00	0.00	12,500.00	0.00	0.00	0.00
12,600.00	0.00	0.00	12,600.00	0.00	0.00	0.00
12,700.00	0.00	0.00	12,700.00	0.00	0.00	0.00
12,800.00	0.00	0.00	12,800.00	0.00	0.00	0.00
12,900.00	0.00	0.00	12,900.00	0.00	0.00	0.00
13,000.00	0.00	0.00	13,000.00	0.00	0.00	0.00
13,100.00	0.00	0.00	13,100.00	0.00	0.00	0.00
13,200.00	0.00	0.00	13,200.00	0.00	0.00	0.00
13,300.00	0.00	0.00	13,300.00	0.00	0.00	0.00
13,400.00	0.00	0.00	13,400.00	0.00	0.00	0.00
13,500.00	0.00	0.00	13,500.00	0.00	0.00	0.00
13,600.00	0.00	0.00	13,600.00	0.00	0.00	0.00
13,700.00	0.00	0.00	13,700.00	0.00	0.00	0.00
13,800.00	0.00	0.00	13,800.00	0.00	0.00	0.00
13,900.00	0.00	0.00	13,900.00	0.00	0.00	0.00
14,000.00	0.00	0.00	14,000.00	0.00	0.00	0.00
14,100.00	0.00	0.00	14,100.00	0.00	0.00	0.00
14,200.00	0.00	0.00	14,200.00	0.00	0.00	0.00
14,300.00	0.00	0.00	14,300.00	0.00	0.00	0.00
14,400.00	0.00	0.00	14,400.00	0.00	0.00	0.00
14,500.00	0.00	0.00	14,500.00	0.00	0.00	0.00
14,600.00	0.00	0.00	14,600.00	0.00	0.00	0.00
14,700.00	0.00	0.00	14,700.00	0.00	0.00	0.00
14,800.00	0.00	0.00	14,800.00	0.00	0.00	0.00
14,900.00	0.00	0.00	14,900.00	0.00	0.00	0.00
15,000.00	0.00	0.00	15,000.00	0.00	0.00	0.00
15,100.00	0.00	0.00	15,100.00	0.00	0.00	0.00
15,200.00	0.00	0.00	15,200.00	0.00	0.00	0.00
15,300.00	0.00	0.00	15,300.00	0.00	0.00	0.00
15,400.00	0.00	0.00	15,400.00	0.00	0.00	0.00
15,500.00	0.00	0.00	15,500.00	0.00	0.00	0.00
15,600.00	0.00	0.00	15,600.00	0.00	0.00	0.00
15,700.00	0.00	0.00	15,700.00	0.00	0.00	0.00
15,800.00	0.00	0.00	15,800.00	0.00	0.00	0.00
15,900.00	0.00	0.00	15,900.00	0.00	0.00	0.00
16,000.00	0.00	0.00	16,000.00	0.00	0.00	0.00
16,100.00	0.00	0.00	16,100.00	0.00	0.00	0.00
16,200.00	0.00	0.00	16,200.00	0.00	0.00	0.00
16,300.00	0.00	0.00	16,300.00	0.00	0.00	0.00
16,400.00	0.00	0.00	16,400.00	0.00	0.00	0.00
16,500.00	0.00	0.00	16,500.00	0.00	0.00	0.00
16,600.00	0.00	0.00	16,600.00	0.00	0.00	0.00
16,700.00	0.00	0.00	16,700.00	0.00	0.00	0.00
16,800.00	0.00	0.00	16,800.00	0.00	0.00	0.00
16,900.00	0.00	0.00	16,900.00	0.00	0.00	0.00
17,000.00	0.00	0.00	17,000.00	0.00	0.00	0.00
17,100.00	0.00	0.00	17,100.00	0.00	0.00	0.00
17,200.00	0.00	0.00	17,200.00	0.00	0.00	0.00
17,300.00	0.00	0.00	17,300.00	0.00	0.00	0.00
17,400.00	0.00	0.00	17,400.00	0.00	0.00	0.00
17,500.00	0.00	0.00	17,500.00	0.00	0.00	0.00
17,600.00	0.00	0.00	17,600.00	0.00	0.00	0.00
17,700.00	0.00	0.00	17,700.00	0.00	0.00	0.00
17,800.00	0.00	0.00	17,800.00	0.00	0.00	0.00
17,900.00	0.00	0.00	17,900.00	0.00	0.00	0.00
18,000.00	0.00	0.00	18,000.00	0.00	0.00	0.00
18,100.00	0.00	0.00	18,100.00	0.00	0.00	0.00
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18,300.00	0.00	0.00	18,300.00	0.00	0.00	0.00
18,400.00	0.00	0.00	18,400.00	0.00	0.00	0.00
18,500.00	0.00	0.00	18,500.00	0.00	0.00	0.00
18,600.00	0.00	0.00	18,600.00	0.00	0.00	0.00
18,700.00	0.00	0.00	18,700.00	0.00	0.00	0.00
18,800.00	0.00	0.00	18,800.00	0.00	0.00	0.00
18,900.00	0.00	0.00	18,900.00	0.00	0.00	0.00
19,000.00	0.00	0.00	19,000.00	0.00	0.00	0.00
19,100.00	0.00	0.00	19,100.00	0.00	0.00	0.00
19,200.00	0.00	0.00	19,200.00	0.00	0.00	0.00
19,300.00	0.00	0.00	19,300.00	0.00	0.00	0.00
19,400.00	0.00	0.00	19,400.00	0.00	0.00	0.00
19,500.00	0.00	0.00	19,500.00	0.00	0.00	0.00
19,600.00	0.00	0.00	19,600.00	0.00	0.00	0.00
19,700.00	0.00	0.00	19,700.00	0.00	0.00	0.00
19,800.00	0.00	0.00	19,800.00	0.00	0.00	0.00
19,900.00	0.00	0.00	19,900.00	0.00	0.00	0.00
20,000.00	0.00	0.00	20,000.00	0.00	0.00	0.00
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20,200.00	0.00	0.00	20,200.00	0.00	0.00	0.00
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20,400.00	0.00	0.00	20,400.00	0.00	0.00	0.00
20,500.00	0.00	0.00	20,500.00	0.00	0.00	0.00
20,600.00	0.00	0.00	20,600.00	0.00	0.00	0.00
20,700.00	0.00	0.00	20,700.00	0.00	0.00	0.00
20,800.00	0.00	0.00	20,800.00	0.00	0.00	0.00
20,900.00	0.00	0.00	20,900.00	0.00	0.00	0.00
21,000.00	0.00	0.00	21,000.00	0.00	0.00	0.00
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21,200.00	0.00	0.00	21,200.00	0.00	0.00	0.00
21,300.00	0.00	0.00	21,300.00	0.00	0.00	0.00
21,400.00	0.00	0.00	21,400.00	0.00	0.00	0.00
21,500.00	0.00	0.00	21,500.00	0.00	0.00	0.00
21,600.00	0.00	0.00	21,600.00	0.00	0.00	0.00
21,700.00	0.00	0.00	21,700.00	0.00	0.00	0.00
21,800.00	0.00	0.00	21,800.00	0.00	0.00	0.00
21,900.00	0.00	0.00	21,900.00	0.00	0.00	0.00
22,000.00	0.00	0.00	22,000.00	0.00	0.00	0.00
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22,500.00	0.00	0.00	22,500.00	0.00	0.00	0.00
22,600.00	0.00	0.00	22,600.00	0.00	0.00	0.00
22,700.00	0.00	0.00	22,700.00	0.00	0.00	0.00
22,800.00	0.00	0.00	22,800.00	0.00	0.00	0.00
22,900.00	0.00	0.00	22,900.00	0.00	0.00	0.00
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23,600.00	0.00	0.00	23,600.00	0.00	0.00	0.00
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23,800.00	0.00	0.00	23,800.00	0.00	0.00	0.00
23,900.00	0.00	0.00	23,900.00	0.00	0.00	0.00
24,000.00	0.00	0.00	24,000.00	0.00	0.00	0.00
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24,300.00	0.00	0.00	24,300.00	0.00	0.00	0.00
24,400.00	0.00	0.00	24,400.00	0.00	0.00	0.00
24,500.00	0.00	0.00	24,500.00	0.00	0.00	0.00
24,600.00	0.00	0.00	24,600.00	0.00	0.00	0.00
24,700.00	0.00	0.00	24,700.00	0.00	0.00	0.00
24,800.00	0.00	0.00	24,800.00	0.00	0.00	0.00
24,900.00	0.00	0.00	24,900.00	0.00	0.00	0.00
25,000.00	0.00	0.00	25,000.00	0.00	0.00	0.00
25,100.00	0.00	0.00	25,100.00	0.00	0.00	0.00
25,200.00	0.00	0.00	25,200.00	0.00	0.00	0.00
25,300.00	0.00	0.00	25,300.00	0.00	0.00	0.00
25,400.00	0.00	0.00	25,400.00	0.00	0.00	0.00
25,500.00	0.00	0.00	25,500.00	0.00	0.00	0.00
25,600.00	0.00	0.00	25,600.00	0.00	0.00	0.00
25,700.00	0.00	0.00	25,700.00	0.00	0.00	0.00
25,800.00	0.00	0.00	25,800.00	0.00	0.00	0.00
25,900.00	0.00	0.00	25,900.00	0.00	0.00	0.00
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26,100.00	0.00	0.00	26,100.00	0.00	0.00	0.00
26,200.00	0.00	0.00	26,200.00	0.00	0.00	0.00
26,300.00	0.00	0.00	26,300.00	0.00	0.00	0.00
26,400.00	0.00	0.00	26,400.00	0.00	0.00	0.00
26,500.00	0.00	0.00	26,500.00	0.00	0.00	0.00
26,600.00	0.00	0.00	26,600.00	0.00	0.00	0.00
26,700.00	0.00	0.00	26,700.00	0.00	0.00	0.00
26,800.00	0.00	0.00	26,800.00	0.00	0.00	0.00
26,900.00	0.00	0.00	26,900.00	0.00	0.00	0.00
27,000.00	0.00	0.00	27,000.00	0.00	0.00	0.00
27,100.00	0.00	0.00	27,100.00	0.00	0.00	0.00
27,200.00	0.00	0.00	27,200.00	0.00	0.00	0.00
27,300.00	0.00	0.00	27,300.00	0.00	0.00	0.00
27,400.00	0.00	0.00	27,400.00	0.00	0.00	0.00
27,500.00	0.00	0.00	27,500.00	0.00	0.00	0.00
27,600.00	0.00	0.00	27,600.00	0.00	0.00	0.00
27,700.00	0.00	0.00	27,700.00	0.00	0.00	0.00
27,800.00	0.00	0.00	27,800.00	0.00	0.00	0.00
27,900.00	0.00	0.00	27,900.00	0.00	0.00	0.00
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28,200.00	0.00	0.00	28,200.00	0.00	0.00	0.00
28,300.00	0.00	0.00	28,300.00	0.00	0.00	0.00
28,400.00	0.00	0.00	28,400.00	0.00	0.00	0.00
28,500.00	0.00	0.00	28,500.00	0.00	0.00	0.00
28,600.00	0.00	0.00	28,600.00	0.00	0.00	0.00
28,700.00	0.00	0.00	28,700.00	0.00	0.00	0.00
28,800.00	0.00	0.00	28,800.00	0.00	0.00	0.00
28,900.00	0.00	0.00	28,900.00	0.00	0.00	0.00
29,000.00	0.00	0.00	29,000.00	0.00	0.00	0.00
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29,200.00	0.00	0.00	29,200.00	0.00	0.00	0.00
29,300.00	0.00	0.00	29,300.00	0.00	0.00	0.00
29,400.00	0.00	0.00	29,400.00	0.00	0.00	0.00
29,500.00	0.00	0.00	29,500.00	0.00	0.00	0.00
29,600.00	0.00	0.00	29,600.00	0.00	0.00	0.00
29,700.00	0.00	0.00	29,700.00	0.00	0.00	0.00
29,800.00	0.00	0.00	29,800.00	0.00	0.00	0.00
29,900.00	0.00	0.00	29,900.00	0.00	0.00	0.00
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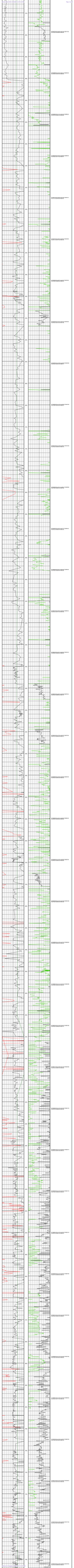

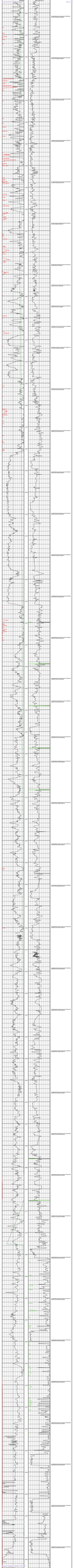

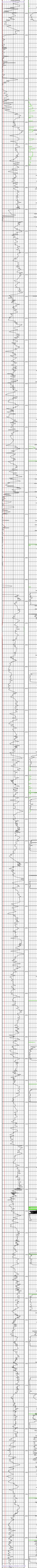

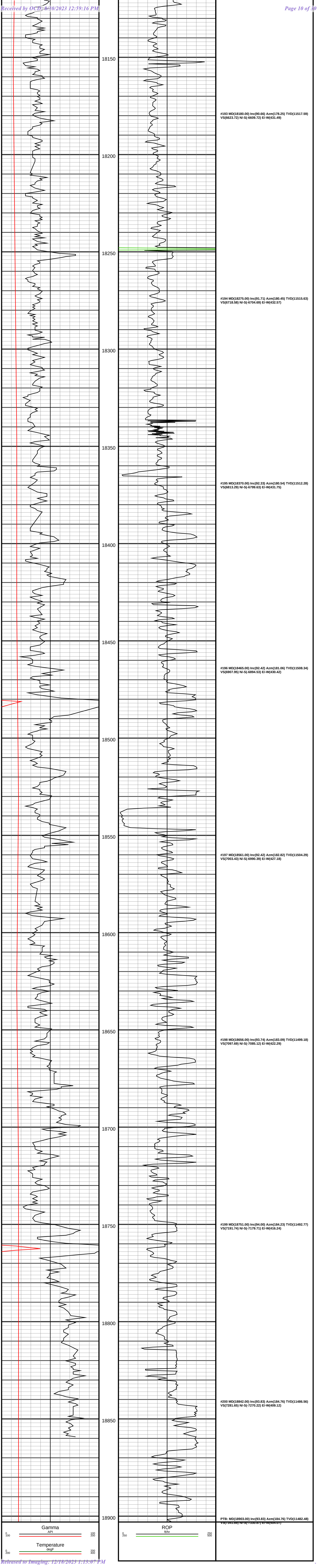
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18200
18250
18300
18350
18400
18450
18500
18550
18600
18650
18700
18750
18800
18850
18900
#193 MD(18180.00) Inc(90.66) Azm(178.25) TVD(11517.59) VS(6623.72) N/-S(-6608.72) E/-W(431.49)
#194 MD(18275.00) Inc(91.71) Azm(180.45) TVD(11515.63) VS(6718.58) N/-S(-6704.69) E/-W(432.57)
#195 MD(18370.00) Inc(92.33) Azm(180.54) TVD(11512.28) VS(6813.29) N/-S(-6799.63) E/-W(431.75)
#196 MD(18465.00) Inc(92.42) Azm(181.06) TVD(11508.34) VS(6907.95) N/-S(-6894.53) E/-W(430.42)
#197 MD(18561.00) Inc(92.42) Azm(182.82) TVD(11504.29) VS(7003.43) N/-S(-6990.39) E/-W(427.18)
#198 MD(18656.00) Inc(93.74) Azm(183.09) TVD(11499.18) VS(7097.69) N/-S(-7085.12) E/-W(422.29)
#199 MD(18751.00) Inc(94.00) Azm(184.23) TVD(11492.77) VS(7191.74) N/-S(-7179.71) E/-W(416.24)
#200 MD(18842.00) Inc(93.83) Azm(184.76) TVD(11486.56) VS(7281.85) N/-S(-7270.22) E/-W(409.12)
PTB: MD(18903.00) Inc(93.83) Azm(184.76) TVD(11482.48)
Gamma
API
0
200
Temperature
degF
0
200
ROP
ft/hr
0
200

Company	ENERGY SERVICES		
Well	15/9-19 A		
Field	SNORRE		
Date	1-Jun-2010		
Time	00:00		
Depth Reference	RKB		
Log Type	PRESSURE		
Log Number	1		
Run Number	1		
Logging Speed	30 m/min		
Tool Type	MDT		
Tool Serial Number	1		
Tool Length	0.00 m		
Tool Weight	0.00 kg		
Tool Diameter	0.00 mm		
Tool Position	0.00 m		
Sensor Offset	0.00 m		
Sensor Type			
Sensor Serial Number			
Sensor Range			
Sensor Resolution			
Sensor Accuracy			
Sensor Precision			
Sensor Calibration Date			
Sensor Calibration Method			
Sensor Calibration Temperature			
Sensor Calibration Pressure			
Sensor Calibration Offset			
Sensor Calibration Slope			
Sensor Calibration Coefficient			
Sensor Calibration Error			
Sensor Calibration Uncertainty			
Sensor Calibration Traceability			
Sensor Calibration Certificate			
Sensor Calibration Report			
Sensor Calibration Date			
Sensor Calibration Method			
Sensor Calibration Temperature			
Sensor Calibration Pressure			
Sensor Calibration Offset			
Sensor Calibration Slope			
Sensor Calibration Coefficient			
Sensor Calibration Error			
Sensor Calibration Uncertainty			
Sensor Calibration Traceability			
Sensor Calibration Certificate			
Sensor Calibration Report			

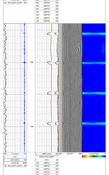
Comments

MARKER JOINT @ 10.00 T COAT

10 DEPTH CORRECTION

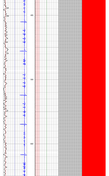
FREE PIPE PASS

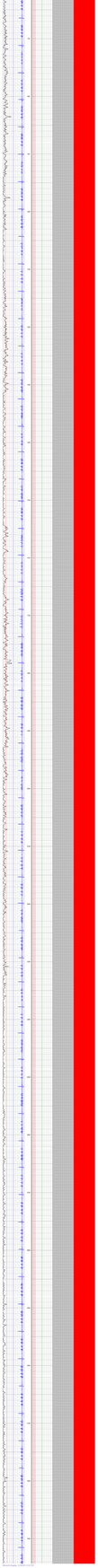
Company	ENERGY SERVICES		
Well	15/9-19 A		
Field	SNORRE		
Date	1-Jun-2010		
Time	00:00		
Depth Reference	RKB		
Log Type	PRESSURE		
Log Number	1		
Run Number	1		
Logging Speed	30 m/min		
Tool Type	MDT		
Tool Serial Number	1		
Tool Length	0.00 m		
Tool Weight	0.00 kg		
Tool Diameter	0.00 mm		
Tool Position	0.00 m		
Sensor Offset	0.00 m		
Sensor Type			
Sensor Serial Number			
Sensor Range			
Sensor Resolution			
Sensor Accuracy			
Sensor Precision			
Sensor Calibration Date			
Sensor Calibration Method			
Sensor Calibration Temperature			
Sensor Calibration Pressure			
Sensor Calibration Offset			
Sensor Calibration Slope			
Sensor Calibration Coefficient			
Sensor Calibration Error			
Sensor Calibration Uncertainty			
Sensor Calibration Traceability			
Sensor Calibration Certificate			
Sensor Calibration Report			
Sensor Calibration Date			
Sensor Calibration Method			
Sensor Calibration Temperature			
Sensor Calibration Pressure			
Sensor Calibration Offset			
Sensor Calibration Slope			
Sensor Calibration Coefficient			
Sensor Calibration Error			
Sensor Calibration Uncertainty			
Sensor Calibration Traceability			
Sensor Calibration Certificate			
Sensor Calibration Report			

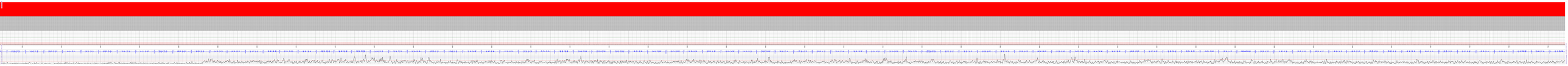


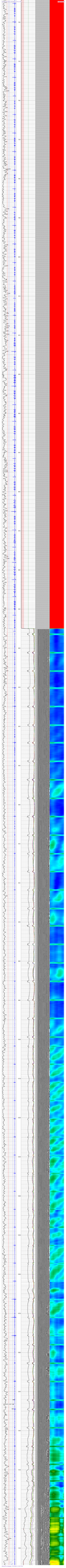
MAIN PASS 1500 PSI

Company	ENERGY SERVICES		
Well	15/9-19 A		
Field	SNORRE		
Date	1-Jun-2010		
Time	00:00		
Depth Reference	RKB		
Log Type	PRESSURE		
Log Number	1		
Run Number	1		
Logging Speed	30 m/min		
Tool Type	MDT		
Tool Serial Number	1		
Tool Length	0.00 m		
Tool Weight	0.00 kg		
Tool Diameter	0.00 mm		
Tool Position	0.00 m		
Sensor Offset	0.00 m		
Sensor Type			
Sensor Serial Number			
Sensor Range			
Sensor Resolution			
Sensor Accuracy			
Sensor Precision			
Sensor Calibration Date			
Sensor Calibration Method			
Sensor Calibration Temperature			
Sensor Calibration Pressure			
Sensor Calibration Offset			
Sensor Calibration Slope			
Sensor Calibration Coefficient			
Sensor Calibration Error			
Sensor Calibration Uncertainty			
Sensor Calibration Traceability			
Sensor Calibration Certificate			
Sensor Calibration Report			
Sensor Calibration Date			
Sensor Calibration Method			
Sensor Calibration Temperature			
Sensor Calibration Pressure			
Sensor Calibration Offset			
Sensor Calibration Slope			
Sensor Calibration Coefficient			
Sensor Calibration Error			
Sensor Calibration Uncertainty			
Sensor Calibration Traceability			
Sensor Calibration Certificate			
Sensor Calibration Report			









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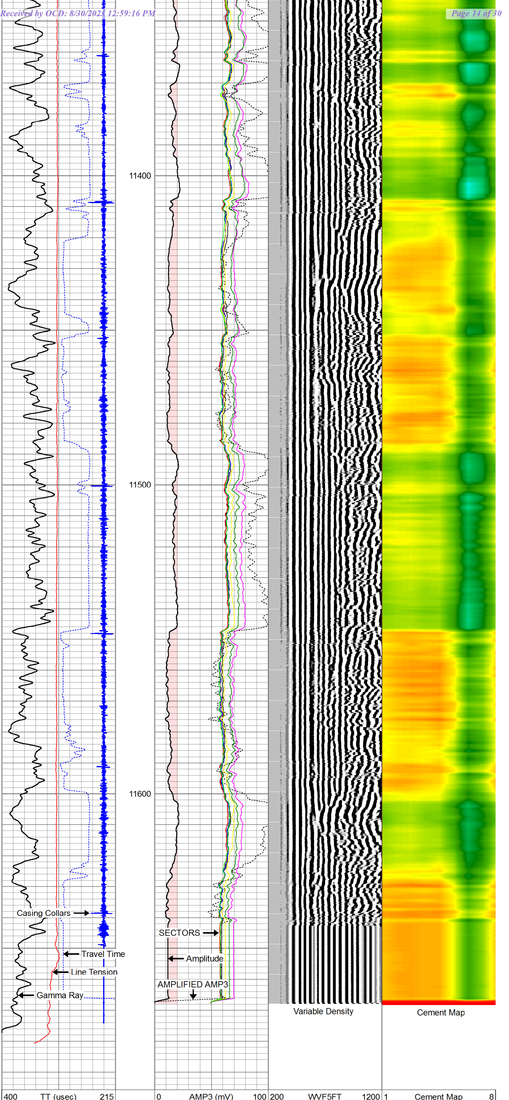


400	TT (usec)	215	0	AMP3 (mV)	100	200	WVF5FT	1200	1	Cement Map	8
9	CCL	-1		AMPLIFIED AMP3							
0	GR (GAPI)	150	0	(mV)	20						
0	LTEN (lb)	4000	-100	AMPS1	100						
150	GR (GAPI) (GAPI)	300	-100	AMPS2	100						
			-100	AMPS3	100						
			-100	AMPS4	100						
			-100	AMPS5	100						
			-100	AMPS6	100						
			-100	AMPS7	100						
			-100	AMPS8	100						

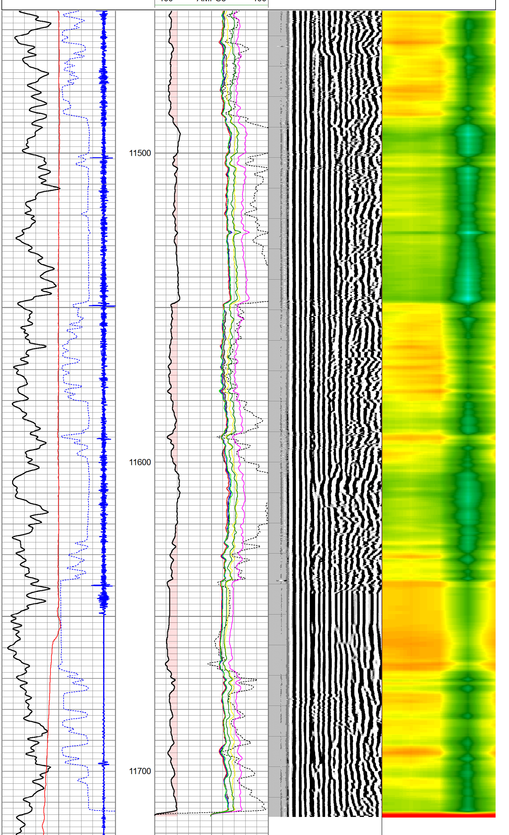
BC Services

CasedHole Services
830-379-6898

REPEAT PASS 0 PSI

Database File: 4-13-21-1.db
Dataset Pathname: pass9
Presentation Format: scbl02
Dataset Creation: Tue Apr 13 07:53:15 2021 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

400	TT (usec)	215	0	AMP3 (mV)	100	200	WVF5FT	1200	1	Cement Map	8
9	CCL	-1		AMPLIFIED AMP3							
0	GR (GAPI)	150	0	(mV)	20						
0	LTEN (lb)	4000	-100	AMPS1	100						
150	GR (GAPI) (GAPI)	300	-100	AMPS2	100						
			-100	AMPS3	100						
			-100	AMPS4	100						
			-100	AMPS5	100						
			-100	AMPS6	100						
			-100	AMPS7	100						
			-100	AMPS8	100						



400	TT (usec)	215	0	AMP3 (mV)	100	200	WVF5FT	1200	1	Cement Map	8
9	CCL	-1		AMPLIFIED AMP3							
0	GR (GAPI)	150	0	(mV)	20						
0	LTEN (lb)	4000	-100	AMPS1	100						
150	GR (GAPI) (GAPI)	300	-100	AMPS2	100						
			-100	AMPS3	100						
			-100	AMPS4	100						
			-100	AMPS5	100						
			-100	AMPS6	100						
			-100	AMPS7	100						
			-100	AMPS8	100						

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EOG Resources - Midland

Eddy County, NM (NAD 83 NME)
Dire Wolf 12 Fed
#721H
OH

Design: OH

Midland PVA

10 April, 2021

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EOG Resources
Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Project Eddy County, NM (NAD 83 NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Dire Wolf 12 Fed

Site Position:		**Northing:**	384,633.00 usft	**Latitude:**	32° 3' 23.153 N
From:	Map	**Easting:**	697,688.00 usft	**Longitude:**	103° 49' 43.144 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.27 °

Well #721H

Well Position	**+N/-S**	0.0 usft	**Northing:**	384,633.00 usft	**Latitude:**	32° 3' 23.151 N
	+E/-W	0.0 usft	**Easting:**	697,721.00 usft	**Longitude:**	103° 49' 42.760 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,201.0 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	4/4/2021	6.67	59.72	47,390.08383383

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	176.53

Survey Program **Date** 4/10/2021

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
199.0	18,903.0	Driltech MWD (OH)	EOG MWD+IFR1	MWD + IFR1

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EOG Resources

Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
199.0	0.62	283.50	199.0	0.3	-1.0	0.31	0.31	0.00	-1.1	0.0
294.0	0.70	267.85	294.0	0.3	-2.1	0.21	0.08	-16.47	-2.1	-0.4
379.0	0.70	292.46	379.0	0.5	-3.1	0.35	0.00	28.95	-3.1	0.7
564.0	0.70	238.76	564.0	0.4	-5.1	0.34	0.00	-29.03	-4.2	-3.0
659.0	1.06	241.04	659.0	-0.4	-6.4	0.38	0.38	2.40	-5.8	-2.8
754.0	1.49	260.91	753.9	-1.0	-8.4	0.64	0.45	20.92	-8.4	-0.4
849.0	1.49	270.93	848.9	-1.1	-10.8	0.27	0.00	10.55	-10.8	1.3
944.0	1.49	258.89	943.9	-1.4	-13.3	0.33	0.00	-12.67	-13.3	-1.2
990.0	1.23	270.22	989.9	-1.5	-14.4	0.81	-0.57	24.63	-14.4	1.5
1,135.0	1.23	176.62	1,134.8	-3.0	-15.8	1.24	0.00	-64.55	-2.1	-16.0
1,229.0	2.37	91.63	1,228.8	-4.1	-13.8	2.74	1.21	-90.41	13.7	-4.5
1,324.0	3.25	71.86	1,323.7	-3.3	-9.3	1.37	0.93	-20.81	10.0	-0.3
1,419.0	5.98	84.60	1,418.4	-2.0	-1.8	3.05	2.87	13.41	4.2	-3.0
1,514.0	7.65	94.00	1,512.7	-2.0	9.4	2.11	1.76	9.89	-3.2	-6.2
1,609.0	7.74	82.40	1,606.9	-1.6	22.1	1.63	0.09	-12.21	-6.8	-11.8
1,704.0	8.09	73.53	1,701.0	1.2	34.8	1.34	0.37	-9.34	-7.8	-16.8
1,799.0	7.21	49.71	1,795.1	6.9	45.8	3.44	-0.93	-25.07	-1.8	-20.0
1,894.0	7.47	52.52	1,889.4	14.5	55.2	0.47	0.27	2.96	-4.2	-18.9
1,989.0	7.30	42.24	1,983.6	22.8	64.2	1.40	-0.18	-10.82	-2.6	-17.8
2,084.0	7.39	36.70	2,077.8	32.1	71.9	0.75	0.09	-5.83	-2.9	-15.0
2,179.0	7.21	28.70	2,172.0	42.3	78.4	1.09	-0.19	-8.42	-3.3	-11.1
2,274.0	6.95	42.76	2,266.3	51.7	85.2	1.84	-0.27	14.80	-7.0	-6.0
2,369.0	6.07	42.06	2,360.7	59.7	92.4	0.93	-0.93	-0.74	-7.3	-3.5
2,464.0	4.66	34.94	2,455.3	66.5	98.0	1.64	-1.48	-7.49	-5.7	-1.1
2,559.0	6.51	49.27	2,549.8	73.2	104.3	2.42	1.95	15.08	-4.3	2.6
2,654.0	7.03	49.79	2,644.2	80.5	112.8	0.55	0.55	0.55	-4.8	3.9

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EOG Resources

Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,749.0	5.63	39.25	2,738.6	87.9	120.2	1.91	-1.47	-11.09	-5.5	5.0
2,844.0	4.92	31.69	2,833.2	94.9	125.3	1.04	-0.75	-7.96	-5.1	8.1
2,939.0	6.86	36.17	2,927.7	103.0	130.8	2.10	2.04	4.72	-4.1	12.5
3,034.0	7.03	36.08	3,022.0	112.3	137.6	0.18	0.18	-0.09	-5.6	16.2
3,129.0	5.89	28.61	3,116.4	121.2	143.3	1.49	-1.20	-7.86	-8.8	19.5
3,224.0	5.10	36.35	3,210.9	128.9	148.2	1.14	-0.83	8.15	-5.0	24.8
3,319.0	5.36	50.32	3,305.5	135.1	154.1	1.36	0.27	14.71	3.2	27.5
3,415.0	6.95	48.39	3,401.0	141.9	161.9	1.67	1.66	-2.01	2.7	28.9
3,509.0	6.24	62.01	3,494.4	148.0	170.6	1.82	-0.76	14.49	9.3	27.7
3,604.0	6.16	81.17	3,588.8	151.2	180.2	2.17	-0.08	20.17	17.6	20.4
3,700.0	6.33	85.57	3,684.3	152.4	190.6	0.53	0.18	4.58	18.2	14.0
3,794.0	6.86	57.35	3,777.7	155.9	200.5	3.46	0.56	-30.02	9.8	18.3
3,889.0	6.33	51.11	3,872.0	162.2	209.3	0.94	-0.56	-6.57	7.6	19.6
3,984.0	7.74	54.10	3,966.3	169.3	218.6	1.53	1.48	3.15	7.7	19.9
4,079.0	8.79	49.00	4,060.3	177.8	229.3	1.35	1.11	-5.37	2.9	21.3
4,175.0	9.06	47.86	4,155.2	187.7	240.4	0.34	0.28	-1.19	-1.8	22.8
4,270.0	8.97	46.81	4,249.0	197.8	251.4	0.20	-0.09	-1.11	-6.5	24.4
4,365.0	8.97	45.22	4,342.8	208.0	262.0	0.26	0.00	-1.67	-11.5	26.0
4,460.0	9.76	62.10	4,436.6	217.0	274.4	3.00	0.83	17.77	-8.1	29.3
4,555.0	10.82	67.99	4,530.1	224.1	289.8	1.57	1.12	6.20	-11.6	28.7
4,650.0	11.26	63.95	4,623.3	231.5	306.4	0.94	0.46	-4.25	-21.1	25.8
4,745.0	11.08	62.01	4,716.5	239.9	322.8	0.44	-0.19	-2.04	-29.8	23.7
4,840.0	10.11	59.11	4,809.9	248.5	338.0	1.16	-1.02	-3.05	-37.8	21.2
4,935.0	9.23	57.27	4,903.5	256.9	351.5	0.98	-0.93	-1.94	-43.7	19.5
5,029.0	8.71	54.45	4,996.4	265.1	363.7	0.72	-0.55	-3.00	-48.7	17.3
5,124.0	8.53	50.94	5,090.3	273.7	375.0	0.59	-0.19	-3.69	-53.3	14.8
5,219.0	8.71	49.44	5,184.2	282.8	385.9	0.30	0.19	-1.58	-57.3	14.6

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EOG Resources

Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,315.0	8.27	70.62	5,279.2	289.8	398.0	3.27	-0.46	22.06	-51.5	34.1
5,410.0	7.03	81.87	5,373.4	292.9	410.2	2.04	-1.31	11.84	-46.7	40.1
5,505.0	5.45	84.60	5,467.8	294.2	420.4	1.69	-1.66	2.87	-45.6	37.5
5,600.0	5.01	85.04	5,562.4	295.0	429.0	0.47	-0.46	0.46	-44.6	32.7
5,695.0	4.48	86.88	5,657.1	295.5	436.9	0.58	-0.56	1.94	-42.4	29.0
5,790.0	1.32	115.36	5,751.9	295.3	441.6	3.56	-3.33	29.98	-23.7	40.8
5,885.0	1.49	127.23	5,846.9	294.0	443.6	0.35	0.18	12.49	-15.5	40.6
5,981.0	1.41	132.32	5,942.9	292.5	445.4	0.16	-0.08	5.30	-13.9	40.3
6,076.0	1.49	126.79	6,037.9	291.0	447.3	0.17	0.08	-5.82	-20.1	38.7
6,171.0	1.58	111.36	6,132.8	289.7	449.5	0.44	0.09	-16.24	-32.2	31.6
6,266.0	1.32	124.55	6,227.8	288.6	451.6	0.44	-0.27	13.88	-26.5	38.4
6,361.0	1.41	135.97	6,322.8	287.2	453.3	0.30	0.09	12.02	-20.6	43.1
6,456.0	1.23	133.16	6,417.7	285.7	454.9	0.20	-0.19	-2.96	-24.8	42.0
6,551.0	1.32	140.19	6,512.7	284.1	456.3	0.19	0.09	7.40	-21.6	44.9
6,646.0	1.14	135.97	6,607.7	282.6	457.7	0.21	-0.19	-4.44	-26.9	43.1
6,741.0	1.06	141.95	6,702.7	281.2	458.9	0.15	-0.08	6.29	-24.1	45.7
6,836.0	1.32	144.59	6,797.7	279.6	460.0	0.28	0.27	2.78	-23.9	46.8
6,931.0	1.49	144.94	6,892.6	277.7	461.4	0.18	0.18	0.37	-26.0	47.0
7,026.0	1.58	148.72	6,987.6	275.6	462.8	0.14	0.09	3.98	-25.4	48.7
7,121.0	1.23	149.42	7,082.6	273.6	464.0	0.37	-0.37	0.74	-27.1	49.0
7,216.0	1.49	150.48	7,177.5	271.7	465.1	0.27	0.27	1.12	-28.4	49.5
7,312.0	1.49	148.72	7,273.5	269.5	466.4	0.05	0.00	-1.83	-32.4	48.6
7,407.0	1.41	163.31	7,368.5	267.3	467.3	0.40	-0.08	15.36	-21.5	55.5
7,502.0	1.58	169.55	7,463.4	264.9	467.9	0.25	0.18	6.57	-17.8	57.6
7,597.0	1.49	161.55	7,558.4	262.5	468.5	0.24	-0.09	-8.42	-28.2	54.4
7,692.0	1.41	174.56	7,653.4	260.1	469.0	0.36	-0.08	13.69	-17.6	59.6
7,787.0	1.06	163.04	7,748.4	258.1	469.4	0.45	-0.37	-12.13	-31.2	54.7

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EOG Resources

Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,882.0	0.88	123.93	7,843.3	256.9	470.3	0.71	-0.19	-41.17	-60.1	22.2
7,977.0	0.35	185.54	7,938.3	256.2	470.9	0.82	-0.56	64.85	-9.7	64.1
8,072.0	0.09	215.34	8,033.3	255.8	470.8	0.29	-0.27	31.37	23.1	60.6
8,167.0	0.79	278.00	8,128.3	255.9	470.1	0.79	0.74	65.96	63.7	7.3
8,262.0	0.70	240.21	8,223.3	255.7	468.9	0.52	-0.09	-39.78	44.8	44.5
8,357.0	0.97	232.13	8,318.3	254.9	467.8	0.31	0.28	-8.51	36.7	50.2
8,452.0	0.62	213.76	8,413.3	254.0	466.9	0.45	-0.37	-19.34	17.7	59.0
8,547.0	1.23	185.10	8,508.3	252.5	466.5	0.79	0.64	-30.17	-14.2	60.0
8,642.0	1.14	277.13	8,603.3	251.6	465.5	1.80	-0.09	96.87	59.6	13.1
8,737.0	1.85	288.64	8,698.3	252.2	463.1	0.81	0.75	12.12	58.5	1.1
8,832.0	1.58	308.68	8,793.2	253.5	460.6	0.69	-0.28	21.09	52.6	-18.5
8,927.0	1.06	286.09	8,888.2	254.6	458.7	0.76	-0.55	-23.78	53.6	2.7
9,022.0	1.58	272.56	8,983.2	254.9	456.6	0.63	0.55	-14.24	49.3	14.9
9,117.0	1.41	265.88	9,078.1	254.9	454.1	0.26	-0.18	-7.03	44.8	20.4
9,212.0	1.58	259.72	9,173.1	254.6	451.7	0.25	0.18	-6.48	39.8	25.0
9,307.0	1.67	267.90	9,268.1	254.3	449.0	0.26	0.09	8.61	40.3	19.2
9,402.0	1.76	256.56	9,363.0	253.9	446.2	0.37	0.09	-11.94	32.9	26.5
9,497.0	2.02	273.00	9,458.0	253.6	443.1	0.63	0.27	17.31	36.0	16.5
9,591.0	1.76	257.88	9,551.9	253.4	440.0	0.60	-0.28	-16.09	27.4	24.9
9,686.0	2.29	259.72	9,646.9	252.8	436.7	0.56	0.56	1.94	24.8	24.1
9,781.0	2.02	243.29	9,741.8	251.7	433.4	0.71	-0.28	-17.29	13.5	29.6
9,876.0	1.85	252.69	9,836.7	250.5	430.4	0.38	-0.18	9.89	15.0	27.2
9,971.0	2.02	231.69	9,931.7	249.0	427.6	0.76	0.18	-22.11	1.1	30.2
10,066.0	2.20	260.16	10,026.6	247.6	424.5	1.11	0.19	29.97	12.1	26.8
10,161.0	2.29	258.67	10,121.5	246.9	420.9	0.11	0.09	-1.57	7.7	27.1
10,256.0	1.93	259.64	10,216.5	246.3	417.4	0.38	-0.38	1.02	4.7	27.0
10,351.0	1.93	284.42	10,311.4	246.4	414.3	0.87	0.00	26.08	12.5	23.2

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EOG Resources

Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,447.0	1.93	286.00	10,407.4	247.2	411.2	0.06	0.00	1.65	9.9	22.9
10,575.0	1.76	281.52	10,535.3	248.2	407.2	0.17	-0.13	-3.50	4.0	23.5
10,674.0	1.49	295.93	10,634.3	249.1	404.5	0.49	-0.27	14.56	6.9	22.1
10,769.0	1.14	295.23	10,729.2	250.0	402.6	0.37	-0.37	-0.74	4.5	22.2
10,865.0	0.97	287.23	10,825.2	250.7	400.9	0.23	-0.18	-8.33	-0.4	22.5
10,959.0	0.97	257.35	10,919.2	250.7	399.4	0.53	0.00	-31.79	-13.0	18.9
11,042.0	1.98	197.41	11,002.2	249.2	398.3	2.07	1.22	-72.21	-24.6	-2.4
KOP, MD:11042.0', TVD:11002.2',N/S:249.2', E/W:398.3', INC:1.98										
11,054.0	2.20	194.25	11,014.2	248.8	398.2	2.07	1.83	-26.36	-24.9	-3.8
11,149.0	14.07	202.33	11,108.1	236.3	393.3	12.52	12.49	8.51	-29.6	-4.0
11,244.0	25.59	192.66	11,197.3	205.5	384.4	12.57	12.13	-10.18	-32.1	-17.7
11,339.0	34.21	187.92	11,279.6	158.9	376.2	9.40	9.07	-4.99	-30.7	-28.9
11,434.0	45.99	183.00	11,352.1	98.1	370.7	12.83	12.40	-5.18	-25.1	-37.2
11,529.0	62.26	181.33	11,407.6	21.5	367.9	17.18	17.13	-1.76	-24.4	-41.0
11,561.8	66.49	180.08	11,421.8	-8.1	367.6	13.33	12.89	-3.80	-25.3	-41.7
FTP Crossing, MD:11561.8', TVD:11421.8',N/S:-8.1', E/W:367.6', INC:66.49										
11,576.0	68.32	179.57	11,427.3	-21.2	367.6	13.33	12.91	-3.62	-25.8	-41.8
11,624.0	70.70	176.93	11,444.1	-66.1	369.0	7.15	4.96	-5.50	-25.6	-41.0
11,671.0	73.34	178.07	11,458.6	-110.8	370.9	6.07	5.62	2.43	-23.5	-39.1
11,719.0	74.74	177.63	11,471.8	-156.9	372.7	3.05	2.92	-0.92	-17.6	-37.6
11,814.0	84.42	178.78	11,488.9	-250.2	375.6	10.26	10.19	1.21	-3.0	-35.0
11,910.0	92.24	179.48	11,491.7	-346.1	377.0	8.18	8.15	0.73	0.9	-34.0
12,005.0	92.07	176.67	11,488.2	-440.9	380.2	2.96	-0.18	-2.96	-1.7	-31.2
12,100.0	89.25	176.23	11,487.1	-535.7	386.1	3.00	-2.97	-0.46	-1.6	-25.8
12,195.0	87.58	178.51	11,489.7	-630.6	390.5	2.97	-1.76	2.40	2.1	-21.9
12,290.0	87.76	177.55	11,493.6	-725.5	393.7	1.03	0.19	-1.01	7.1	-19.1
12,385.0	86.70	178.25	11,498.2	-820.3	397.2	1.34	-1.12	0.74	12.8	-16.1

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EOG Resources

Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,479.0	87.32	178.07	11,503.1	-914.1	400.2	0.69	0.66	-0.19	18.8	-13.6
12,531.0	85.65	179.13	11,506.2	-966.0	401.5	3.80	-3.21	2.04	22.5	-12.6
12,613.0	87.67	177.28	11,511.0	-1,047.8	404.1	3.34	2.46	-2.26	28.3	-10.4
12,669.0	88.90	177.11	11,512.7	-1,103.7	406.8	2.22	2.20	-0.30	30.6	-7.9
12,764.0	90.40	177.19	11,513.3	-1,198.6	411.5	1.58	1.58	0.08	32.3	-3.6
12,859.0	91.01	177.99	11,512.1	-1,293.5	415.5	1.06	0.64	0.84	32.2	-0.1
12,954.0	93.30	179.48	11,508.5	-1,388.4	417.6	2.88	2.41	1.57	29.7	1.5
13,049.0	91.45	177.46	11,504.6	-1,483.3	420.1	2.88	-1.95	-2.13	26.9	3.6
13,144.0	89.16	176.05	11,504.1	-1,578.1	425.5	2.83	-2.41	-1.48	27.5	8.5
13,239.0	90.40	175.79	11,504.5	-1,672.9	432.3	1.33	1.31	-0.27	29.0	14.8
13,334.0	86.79	178.34	11,506.8	-1,767.7	437.1	4.65	-3.80	2.68	32.4	19.3
13,429.0	87.76	179.57	11,511.3	-1,862.6	438.9	1.65	1.02	1.29	38.0	20.5
13,524.0	85.56	177.55	11,516.8	-1,957.4	441.3	3.14	-2.32	-2.13	44.6	22.5
13,618.0	91.01	181.41	11,519.7	-2,051.3	442.1	7.10	5.80	4.11	48.5	22.8
13,713.0	88.20	181.15	11,520.3	-2,146.2	440.0	2.97	-2.96	-0.27	50.3	20.2
13,808.0	91.45	182.29	11,520.6	-2,241.2	437.1	3.63	3.42	1.20	51.7	16.9
13,903.0	92.68	182.29	11,517.2	-2,336.0	433.3	1.29	1.29	0.00	49.3	12.7
13,998.0	91.80	182.47	11,513.5	-2,430.9	429.4	0.95	-0.93	0.19	46.7	8.3
14,093.0	91.98	181.94	11,510.3	-2,525.7	425.7	0.59	0.19	-0.56	44.7	4.2
14,188.0	93.47	182.12	11,505.8	-2,620.6	422.4	1.58	1.57	0.19	41.3	0.3
14,283.0	92.24	181.68	11,501.1	-2,715.4	419.2	1.37	-1.29	-0.46	37.7	-3.3
14,378.0	90.92	180.97	11,498.5	-2,810.3	417.0	1.58	-1.39	-0.75	36.1	-5.9
14,473.0	90.13	180.01	11,497.6	-2,905.3	416.2	1.31	-0.83	-1.01	36.4	-7.2
14,568.0	87.85	178.78	11,499.3	-3,000.3	417.2	2.73	-2.40	-1.29	39.1	-6.7
14,663.0	87.49	177.46	11,503.1	-3,095.2	420.3	1.44	-0.38	-1.39	44.1	-4.1
14,758.0	87.58	178.16	11,507.2	-3,190.0	424.0	0.74	0.09	0.74	49.3	-0.9
14,853.0	88.90	178.86	11,510.1	-3,284.9	426.4	1.57	1.39	0.74	53.3	1.1

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EOG Resources
Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,948.0	89.43	179.13	11,511.5	-3,379.9	428.1	0.63	0.56	0.28	55.8	2.3
15,043.0	90.04	179.30	11,512.0	-3,474.9	429.4	0.67	0.64	0.18	57.3	3.2
15,138.0	90.22	179.04	11,511.7	-3,569.9	430.8	0.33	0.19	-0.27	58.2	4.1
15,233.0	88.37	177.55	11,512.9	-3,664.8	433.6	2.50	-1.95	-1.57	60.5	6.4
15,329.0	89.25	178.60	11,514.9	-3,760.8	436.8	1.43	0.92	1.09	63.6	9.2
15,424.0	88.72	179.13	11,516.6	-3,855.7	438.7	0.79	-0.56	0.56	66.4	10.6
15,519.0	89.25	180.36	11,518.3	-3,950.7	439.1	1.41	0.56	1.29	69.2	10.6
15,614.0	89.78	181.15	11,519.1	-4,045.7	437.9	1.00	0.56	0.83	71.1	8.9
15,709.0	90.22	181.94	11,519.1	-4,140.7	435.3	0.95	0.46	0.83	72.2	5.9
15,804.0	90.22	184.31	11,518.7	-4,235.5	430.1	2.49	0.00	2.49	72.9	0.3
15,899.0	91.36	181.59	11,517.4	-4,330.4	425.3	3.10	1.20	-2.86	72.7	-5.1
15,994.0	91.98	180.71	11,514.6	-4,425.3	423.4	1.13	0.65	-0.93	71.0	-7.5
16,088.0	90.66	180.27	11,512.5	-4,519.3	422.5	1.48	-1.40	-0.47	69.9	-8.7
16,184.0	90.92	181.86	11,511.1	-4,615.2	420.8	1.68	0.27	1.66	69.7	-11.0
16,279.0	90.57	182.12	11,509.9	-4,710.2	417.5	0.46	-0.37	0.27	69.6	-14.7
16,374.0	90.92	179.57	11,508.7	-4,805.1	416.1	2.71	0.37	-2.68	69.5	-16.6
16,469.0	90.48	179.04	11,507.5	-4,900.1	417.2	0.73	-0.46	-0.56	69.4	-15.9
16,564.0	88.72	178.87	11,508.2	-4,995.1	418.9	1.86	-1.85	-0.18	71.2	-14.7
16,659.0	89.43	179.83	11,509.7	-5,090.1	420.0	1.26	0.75	1.01	73.8	-14.0
16,754.0	90.13	180.10	11,510.1	-5,185.1	420.1	0.79	0.74	0.28	75.3	-14.4
16,850.0	91.28	181.33	11,508.9	-5,281.1	418.9	1.75	1.20	1.28	75.2	-16.1
16,945.0	91.36	179.66	11,506.7	-5,376.0	418.1	1.76	0.08	-1.76	74.1	-17.4
17,040.0	89.69	178.87	11,505.8	-5,471.0	419.3	1.94	-1.76	-0.83	74.3	-16.7
17,135.0	90.22	180.10	11,505.9	-5,566.0	420.1	1.41	0.56	1.29	75.5	-16.2
17,230.0	92.07	179.75	11,504.0	-5,661.0	420.3	1.98	1.95	-0.37	74.7	-16.6
17,325.0	91.36	181.42	11,501.2	-5,755.9	419.3	1.91	-0.75	1.76	73.0	-18.0
17,420.0	90.57	181.68	11,499.6	-5,850.9	416.7	0.88	-0.83	0.27	72.5	-21.0

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EOG Resources

Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,515.0	89.78	182.03	11,499.3	-5,945.8	413.6	0.91	-0.83	0.37	73.3	-24.5
17,610.0	91.98	181.50	11,497.8	-6,040.8	410.7	2.38	2.32	-0.56	72.9	-27.9
17,705.0	88.55	179.39	11,497.4	-6,135.8	410.0	4.24	-3.61	-2.22	73.6	-29.2
17,724.0	88.90	178.43	11,497.8	-6,154.7	410.3	5.38	1.84	-5.05	74.2	-28.9
17,800.0	87.05	177.11	11,500.5	-6,230.6	413.3	2.99	-2.43	-1.74	77.8	-26.4
17,895.0	86.00	177.11	11,506.2	-6,325.3	418.1	1.11	-1.11	0.00	84.6	-22.1
17,990.0	86.97	177.29	11,512.1	-6,420.0	422.7	1.04	1.02	0.19	91.5	-17.9
18,085.0	87.85	176.93	11,516.4	-6,514.8	427.5	1.00	0.93	-0.38	96.9	-13.6
18,180.0	90.66	178.25	11,517.6	-6,609.7	431.5	3.27	2.96	1.39	99.3	-10.0
18,275.0	91.71	180.45	11,515.6	-6,704.7	432.6	2.57	1.11	2.32	98.4	-9.3
18,336.0	91.71	180.45	11,513.8	-6,765.7	432.1	0.00	0.00	0.00	97.3	-10.1
18,370.0	92.33	180.54	11,512.6	-6,799.6	431.8	1.84	1.82	0.26	96.5	-10.6
18,465.0	92.42	181.06	11,508.7	-6,894.5	430.5	0.56	0.09	0.55	93.7	-12.4
18,561.0	92.42	182.82	11,504.6	-6,990.4	427.2	1.83	0.00	1.83	91.6	-16.0
18,656.0	93.74	183.09	11,499.5	-7,085.1	422.3	1.42	1.39	0.28	88.8	-21.3
18,751.0	94.00	184.23	11,493.1	-7,179.7	416.3	1.23	0.27	1.20	84.6	-27.7
18,842.0	93.83	184.76	11,486.9	-7,270.2	409.2	0.61	-0.19	0.58	80.5	-35.2
Last MWD Survey (MD=18842.0')										
18,903.0	93.83	184.76	11,482.8	-7,330.9	404.1	0.00	0.00	0.00	77.9	-40.6
Projection to Bit (MD=18903.0')										

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EOG Resources

Midland PVA

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #721H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3227.0usft
Site:	Dire Wolf 12 Fed	**MD Reference:**	KB = 26' @ 3227.0usft
Well:	#721H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
11,042.0	11,002.2	249.2	398.3	KOP, MD:11042.0', TVD:11002.2',N/S:249.2', E/W:398.3', INC:1.98
11,561.8	11,421.8	-8.1	367.6	FTP Crossing, MD:11561.8', TVD:11421.8',N/S:-8.1', E/W:367.6', INC:66.49
18,842.0	11,486.9	-7,270.2	409.2	Last MWD Survey (MD=18842.0')
18,903.0	11,482.8	-7,330.9	404.1	Projection to Bit (MD=18903.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.
Kay Maddox 09/28/2021

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Eddy County, NM (NAD 83 NME)

Dire Wolf 12 Fed #721H

Plan #1

PROJECT DETAILS: Eddy County, NM (NAD 83 NME)

Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level

G T M

Azimuths to Grid North
True North: -0.27°
Magnetic North: 6.41°

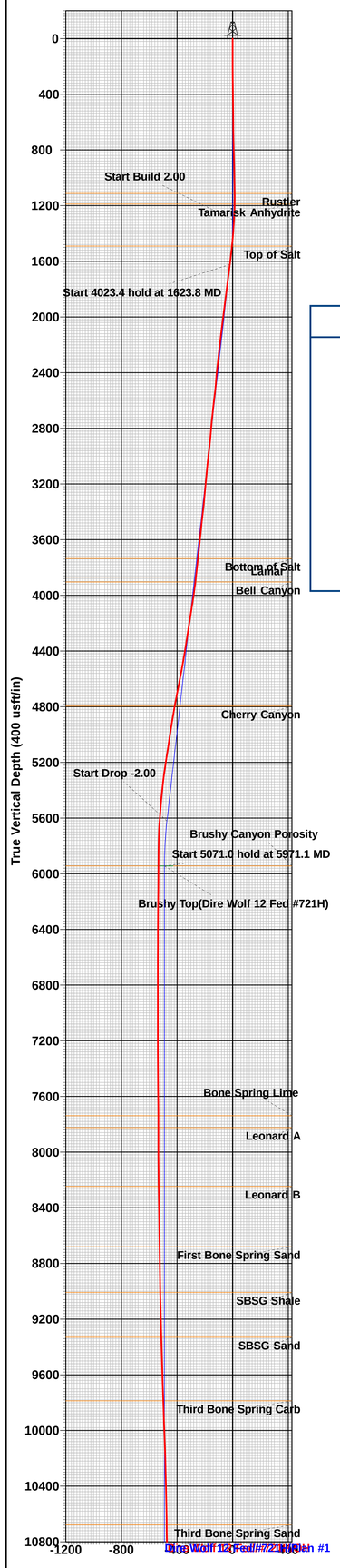
Magnetic Field
Strength: 47390.1nT
Dip Angle: 59.72°
Date: 4/4/2021
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.41°
To convert a Magnetic Direction to a True Direction, Add 6.67° East
To convert a True Direction to a Grid Direction, Subtract 0.27°

WELL DETAILS: #721H

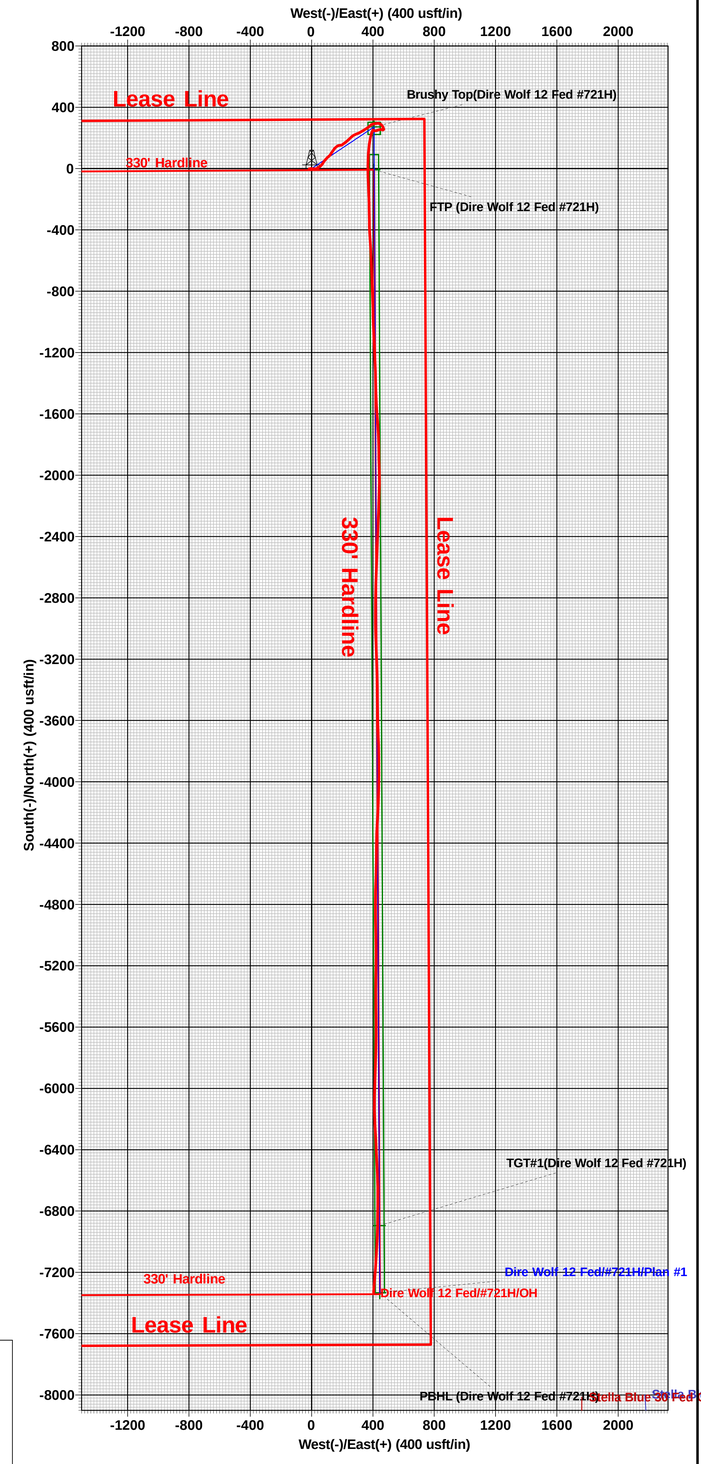
3201.0
KB = 26' @ 3227.0usft

Northing	Easting	Latitude	Longitude
384633.00	697721.00	32° 3' 23.151 N	103° 49' 42.760 W



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1623.8	6.48	56.31	1623.1	10.1	15.2	2.00	56.31	-9.2	
4	5647.2	6.48	56.31	5620.9	261.9	392.8	0.00	0.00	-237.6	
5	5971.1	0.00	0.00	5944.0	272.0	408.0	2.00	180.00	-246.8	Brushy Top(Dire Wolf 12 Fed #721H)
6	11042.1	0.00	0.00	11015.0	272.0	408.0	0.00	0.00	-246.8	
7	11797.6	90.66	179.72	11492.4	-211.0	410.3	12.00	179.72	235.5	
8	18481.9	90.66	179.72	11415.0	-6894.8	442.8	0.00	0.00	6909.0	TGT#1(Dire Wolf 12 Fed #721H)
9	18515.4	91.33	179.72	11414.4	-6928.2	443.0	2.00	-0.25	6942.4	
10	18920.2	91.33	179.72	11405.0	-7333.0	445.0	0.00	0.00	7346.5	PBHL (Dire Wolf 12 Fed #721H)

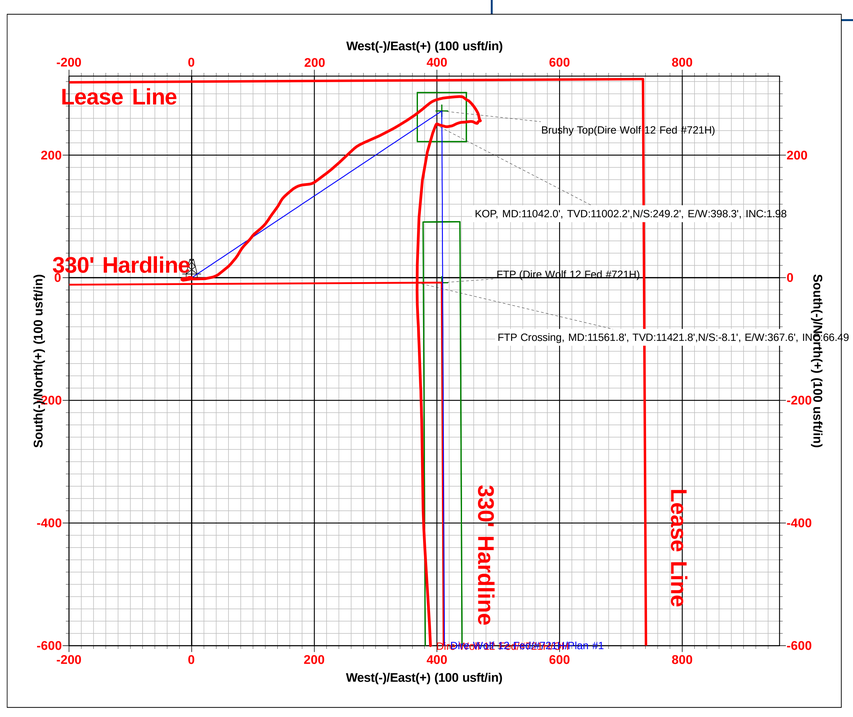


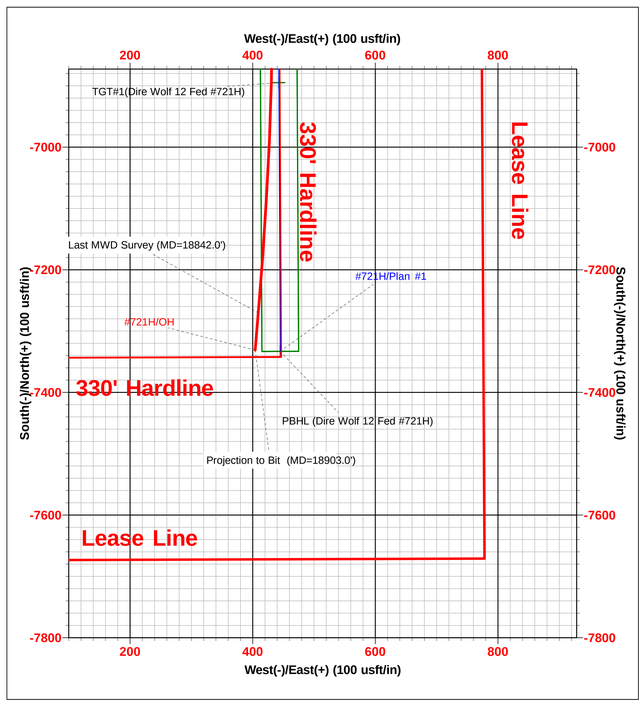
CASING DETAILS

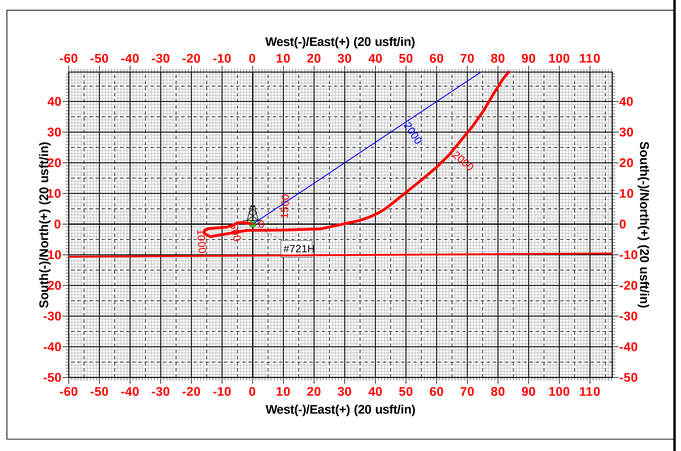
No casing data is available

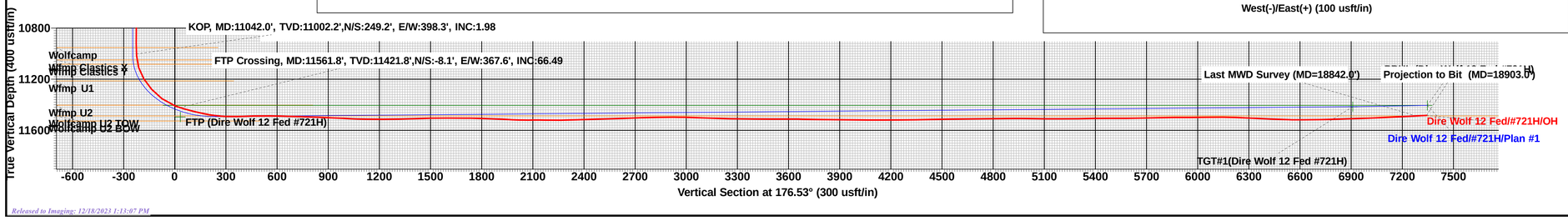
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

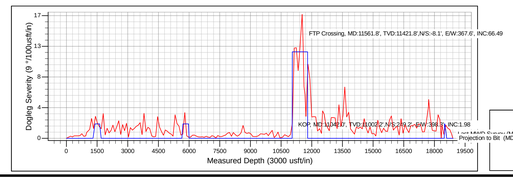
Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Dire Wolf 12 Fed #721H)	5944.0	272.0	408.0	384905.00	698129.00
PBHL (Dire Wolf 12 Fed #721H)	11405.0	-7333.0	445.0	377300.00	698166.00
TGT#1(Dire Wolf 12 Fed #721H)	11415.0	-6894.8	442.8	377738.20	698163.85
FTP (Dire Wolf 12 Fed #721H)	11495.0	-8.0	408.0	384625.00	698129.00











Eddy County, NM (NAD 83 NME)
Dire Wolf 12 Fed
#721H
OH
Plan #1
9:58, April 10 2021

Released to Imaging: 12/18/2023 1:13:07 PM

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
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DISTRICT II
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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
30-015- 47686	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
329773	DIRE WOLF 12 FED	721H

OGRID No.	Operator Name	Elevation
7377	EOG RESOURCES, INC.	3201'

Surface Location

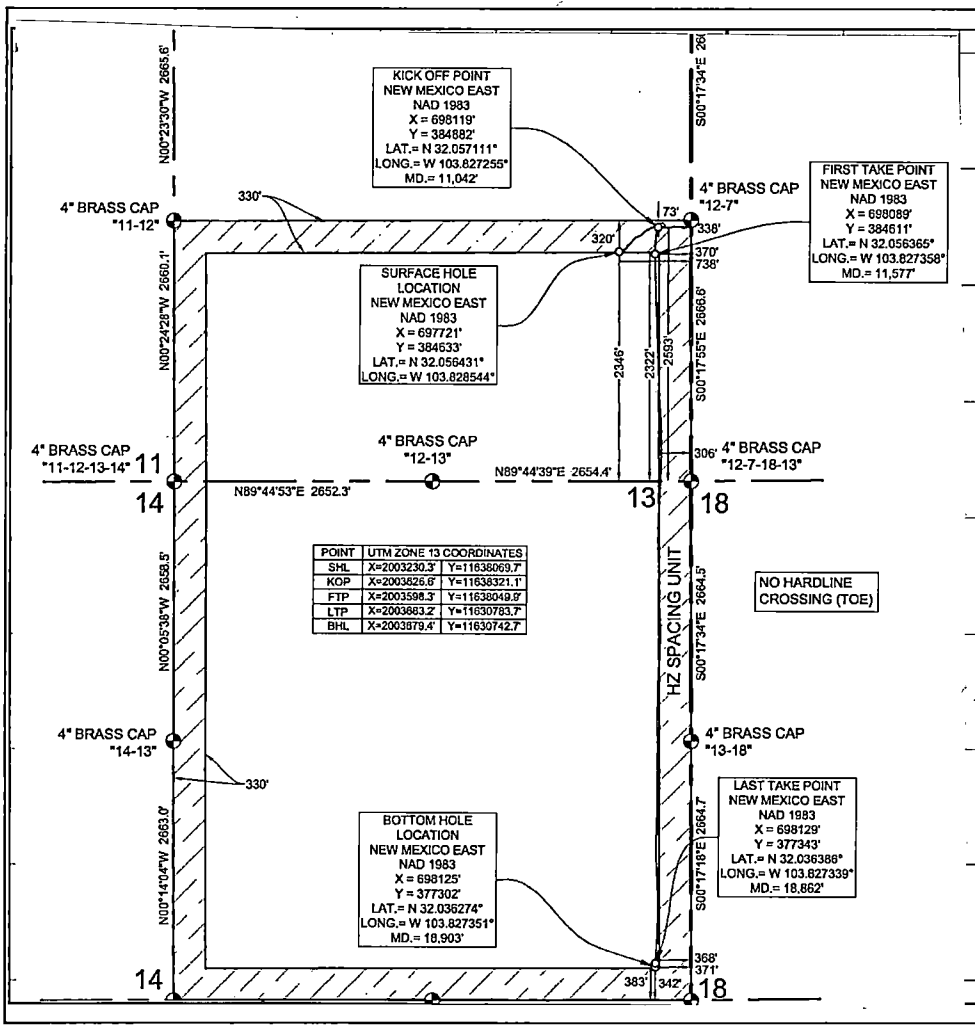
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	12	26 S	30 E		2346	SOUTH	738	EAST	EDDY

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	13	26 S	30 E		342'	SOUTH	371'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidated Code	Order No.
960.00			

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.



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2003230.3'	Y=11638069.7'
KOP	X=2003626.6'	Y=11638321.1'
FTP	X=2003598.3'	Y=11638049.9'
LTP	X=2003683.2'	Y=11630783.7'
BHL	X=2003679.4'	Y=11630742.7'

OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox — 09/30/2021
Signature — Date

KAY MADDOX
Print Name

kay_maddox@eogresources.com
E-mail Address

SURVEYORS 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.

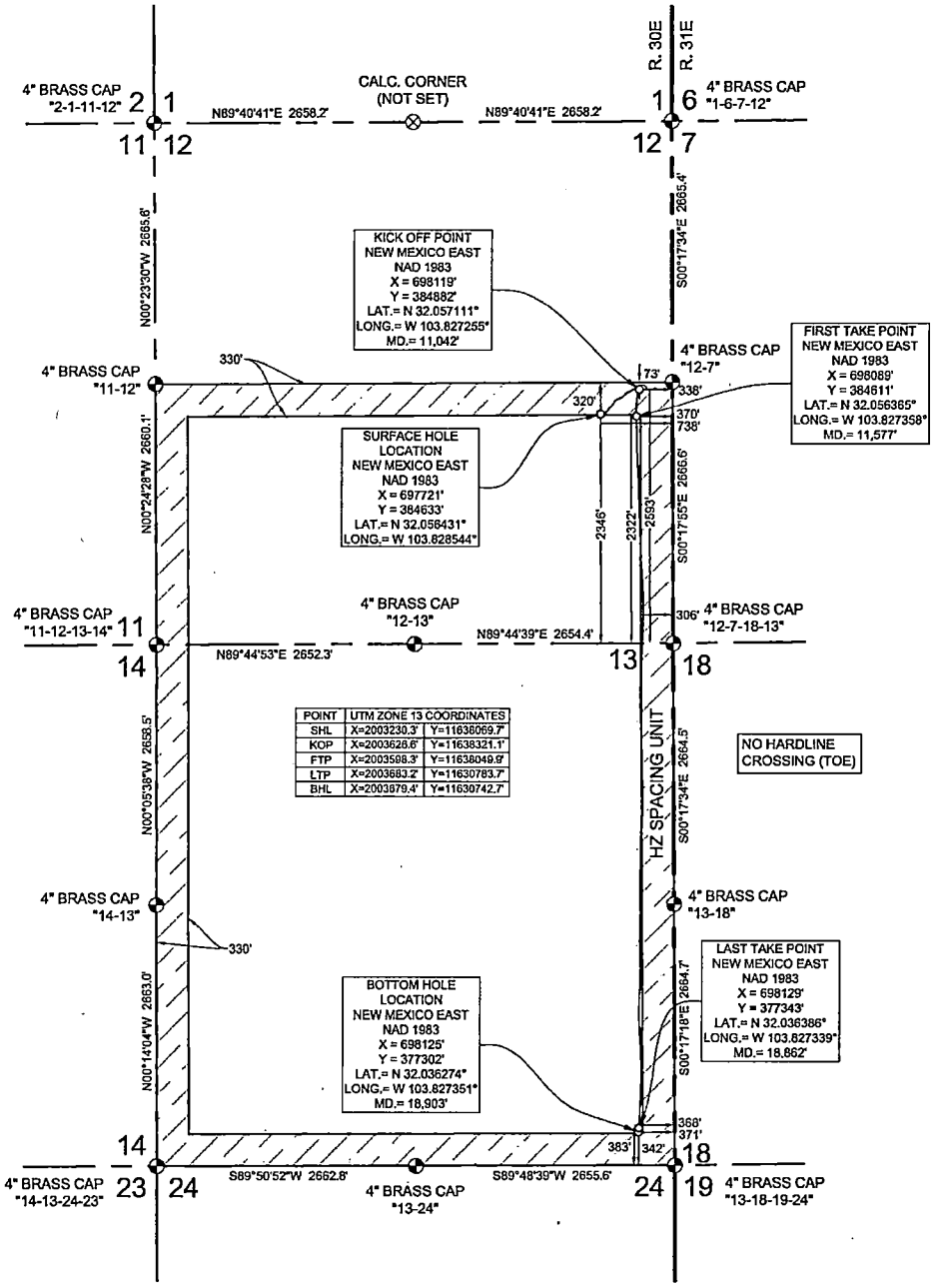
November 13, 2019
Date of Survey

Signature and Seal of Professional Surveyor: 02/25/2020

CASEY WAYNE FAIRCLOTH
NEW MEXICO
21051
PROFESSIONAL SURVEYOR

Job No.: EOG.B190042
CASEY WAYNE FAIRCLOTH, N.M.P.L.S.
Certificate Number 21051

AS COMPLETED PLAT



ASCENT
GEOMATICS SOLUTIONS

NOTES:

1. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
2. THIS WELL LOCATION SHOWN HERON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC.
3. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY

eog resources

JOB No.: EOG_B190042

LEASE NAME & WELL NO.: DIRE WOLF 12 FED #721

SECTION: 12 TWP: 26 S RGE: 30 E SURVEY: N.M.P.M.
COUNTY: EDDY STATE: NM ELEVATION: 3201'

DESCRIPTION: 2346' FSL & 738' FEL

RALPH B. CHUSTZ, JR., N.M. P.L.S. No.26264

N

0 750 1500'
SCALE: 1"= 1500'

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

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 259758
	Action Type: [C-105] Well (Re)Completion (C-105)

ACKNOWLEDGMENTS

☑	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☑	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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Santa Fe, NM 87505

CONDITIONS

Action 259758

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	7377
	Action Number: 259758
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Submit the logs as a [UF-WL] EP Well Log Submission (WellLog)	12/18/2023