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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.
WELL NO CHANGED TO 512H

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)

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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: NWNE / 491 FNL / 2592 FEL / TWSP: 25S / RNG: 32E / SEC: 11 / LAT: 32.1509494 / LONG: -103.6455235
KOP: NENW / 96 FNL / 2582 FEL / TWSP: 25S / RNG: 32E / SEC: 11 / LAT: 32.1520348 / LONG: -103.6453836
PPP: NENW / 464 FNL / 2531 FEL / TWSP: 25S / RNG: 32E / SEC: 11 / LAT: 32.1510238 / LONG: -103.6452199
EXIT: SESW / 149 FSL / 2567 FEL / TWSP: 25S / RNG: 32E / SEC: 14 / LAT: 32.123645 / LONG: -103.6453461
BHL: SESW / 99 FSL / 2567 FEL / TWSP: 25S / RNG: 32E / SEC: 14 / LAT: 32.1235379 / LONG: -103.6453435

Summary of Porous Zones Information:

Formation: CHERRY CANYON, Descriptions, Contents, etc: null, Bottom: 5725
Formation: BRUSHY CANYON, Descriptions, Contents, etc: null, Bottom: 7190
Formation: BONE SPRING LIME, Descriptions, Contents, etc: null, Bottom: 8787
Formation: FIRST BONE SPRING SAND, Descriptions, Contents, etc: null, Bottom: 9847
Formation: BONE SPRING 2ND, Descriptions, Contents, etc: null, Bottom: 10423

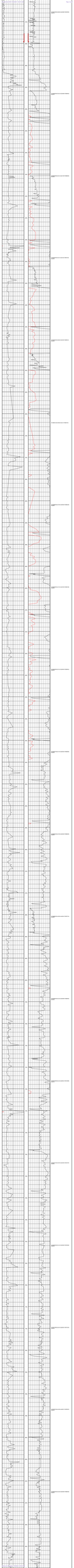
Attachments: 00S1

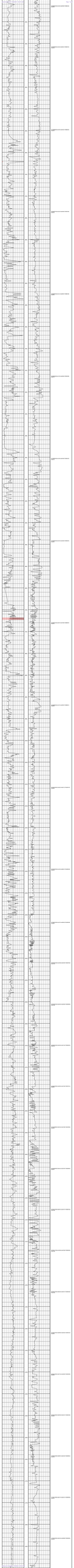
Log Attachments:
1) Ruthless_11_Fed_Com_512H_5_MD_20220223102320.pdf
2) Ruthless_11_Fed_Com_512H_Final_OH_Surveys_20220223102336.pdf
3) Ruthless_11_Fed_Com_512H_Final_PVA_20220223102353.pdf
4) C_102_RUTHLESS_11_FED_COM_512H_20220223102409.pdf

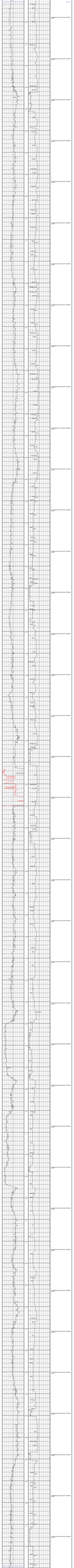
Ruthless 13 Fiel Com #524H

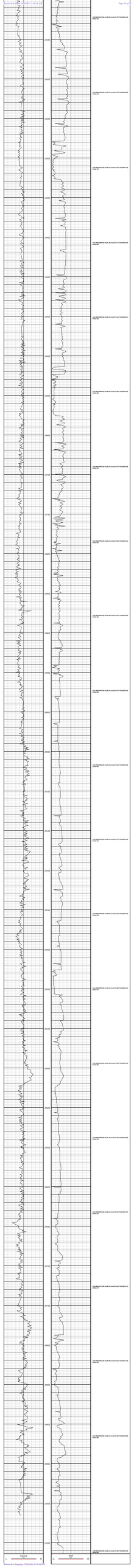
Operator: Devon Energy Production Co., L.P.
Spud Date: 11/08/2021
Job Type: Vertical
County: Lea
State: New Mexico
API #: 30-025-49511
Latitude: 32.0000000
Longitude: -103.6666667
Surface Hole Location: 0 FSL 0 FEL
Bottom Hole Location: 0 FSL 0 FEL
Section: 13
Township: 24S
Range: 32E
Elevation: 3,571.00 (GL)
Elevation: 3,596.00 (KB)
Distance to Grid: 0.00 (N/S) 0.00 (E/W)
Grid: NAD 83 New Mexico East

Surveyed by:									
Surveyed by:									
Calculated by:									
Calculated by:									
Calculated





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Midland

Lea County, NM (NAD 83 NME)
Ruthless 11 Fed Com
#512H
OH

Design: OH

Final PVA

03 June, 2021

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Final PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #512H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3533.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 26' @ 3533.0usft
Well:	#512H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Project Lea 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 Ruthless 11 Fed Com

Site Position:		**Northing:**	419,142.00 usft	**Latitude:**	32° 9' 1.687 N
From:	Map	**Easting:**	752,042.00 usft	**Longitude:**	103° 39' 9.029 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.36 °

Well #512H

Well Position	**+N/-S**	0.0 usft	**Northing:**	419,331.00 usft	**Latitude:**	32° 9' 3.419 N
	+E/-W	0.0 usft	**Easting:**	754,236.00 usft	**Longitude:**	103° 38' 43.495 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,507.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/2/2021	6.58	59.82	47,445.97432413

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	179.64

Survey Program **Date** 6/3/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	21,063.0	Driltech MWD (OH)	EOG MWD+IFR1	MWD + IFR1

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Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

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
200.0	1.06	48.91	200.0	1.2	1.4	0.53	0.53	0.00	-1.8	0.0
389.0	1.23	65.97	389.0	3.2	4.6	0.20	0.09	9.03	-5.5	1.1
578.0	1.67	66.76	577.9	5.1	8.9	0.23	0.23	0.42	-10.2	1.2
766.0	2.64	52.78	765.8	8.8	14.9	0.58	0.52	-7.44	-17.2	-2.0
954.0	3.87	29.75	953.5	16.9	21.5	0.94	0.65	-12.25	-25.4	-10.3
998.0	4.04	28.17	997.4	19.6	23.0	0.46	0.39	-3.59	-28.1	-11.0
1,144.0	5.72	35.20	1,142.8	30.1	29.6	1.22	1.15	4.82	-41.6	-6.9
1,333.0	5.63	340.80	1,331.0	46.5	32.0	2.74	-0.05	-28.78	-30.7	-44.3
1,523.0	5.10	339.66	1,520.2	63.2	26.0	0.28	-0.28	-0.60	-33.9	-38.7
1,712.0	5.01	346.42	1,708.5	79.1	21.1	0.32	-0.05	3.58	-36.0	-27.4
1,901.0	6.07	352.31	1,896.6	97.1	17.8	0.64	0.56	3.12	-37.5	-18.6
2,091.0	8.62	348.18	2,085.0	121.0	13.6	1.37	1.34	-2.17	-41.3	-16.4
2,279.0	8.27	348.27	2,271.0	148.0	8.0	0.19	-0.19	0.05	-50.1	-10.8
2,467.0	8.00	350.99	2,457.1	174.2	3.2	0.25	-0.14	1.45	-58.1	-3.3
2,656.0	7.65	353.37	2,644.3	199.6	-0.4	0.25	-0.19	1.26	-64.5	3.5
2,844.0	7.47	0.49	2,830.7	224.3	-1.7	0.51	-0.10	3.79	-68.7	14.3
3,033.0	6.86	6.02	3,018.2	247.8	-0.4	0.49	-0.32	2.93	-70.8	21.4
3,222.0	5.80	9.01	3,206.0	268.5	2.3	0.59	-0.56	1.58	-70.7	24.1
3,410.0	4.57	8.13	3,393.3	285.3	4.8	0.66	-0.65	-0.47	-68.5	21.6
3,600.0	2.11	353.98	3,582.9	296.2	5.5	1.36	-1.29	-7.45	-63.0	6.0
3,789.0	1.23	39.86	3,771.9	301.3	6.5	0.81	-0.47	24.28	-27.9	40.4
3,977.0	0.53	77.74	3,959.8	303.0	8.6	0.47	-0.37	20.15	6.0	31.4
4,166.0	2.46	100.51	4,148.8	302.4	13.4	1.05	1.02	12.05	10.7	7.4
4,355.0	4.22	115.98	4,337.4	298.6	23.7	1.04	0.93	8.19	-5.7	-13.0
4,544.0	6.77	126.08	4,525.6	289.0	38.9	1.44	1.35	5.34	-36.1	-27.5
4,729.0	6.95	136.89	4,709.3	274.4	55.4	0.70	0.10	5.84	-75.4	-32.4

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Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 26' @ 3533.0usft
Well:	#512H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

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)
4,916.0	4.31	136.89	4,895.3	261.0	67.9	1.41	-1.41	0.00	-106.9	-46.5
5,105.0	2.11	117.38	5,084.0	254.3	75.9	1.28	-1.16	-10.32	-103.2	-99.9
5,293.0	3.17	23.16	5,271.9	257.5	81.0	2.09	0.56	-50.12	120.9	-105.3
5,482.0	6.86	18.94	5,460.1	272.9	86.7	1.96	1.95	-2.23	130.8	-101.4
5,671.0	9.06	1.37	5,647.3	298.5	90.7	1.72	1.16	-9.30	140.2	-60.6
5,860.0	7.83	353.36	5,834.3	326.2	89.6	0.90	-0.65	-4.24	120.4	-42.3
6,049.0	7.12	347.56	6,021.7	350.4	85.6	0.55	-0.38	-3.07	99.5	-31.1
6,238.0	7.21	345.45	6,209.2	373.3	80.1	0.15	0.05	-1.12	77.0	-27.8
6,427.0	7.74	344.04	6,396.6	397.0	73.6	0.30	0.28	-0.75	53.1	-26.2
6,616.0	7.03	342.02	6,584.0	420.3	66.5	0.40	-0.38	-1.07	29.7	-24.7
6,805.0	3.96	349.14	6,772.1	437.7	61.7	1.66	-1.62	3.77	8.5	-26.6
6,994.0	1.23	329.98	6,960.9	445.8	59.5	1.50	-1.44	-10.14	8.6	-24.5
7,183.0	1.14	320.14	7,149.9	449.0	57.3	0.12	-0.05	-5.21	8.7	-23.0
7,263.4	0.80	295.93	7,230.2	449.9	56.3	0.65	-0.42	-30.13	16.1	-17.7
Brushy Top(Ruthless 11 Fed Com #512H)										
7,371.0	0.79	243.50	7,337.9	449.9	54.9	0.65	-0.01	-48.71	22.7	1.4
7,560.0	1.14	239.28	7,526.8	448.4	52.1	0.19	0.19	-2.23	19.4	2.9
7,749.0	1.67	224.07	7,715.8	445.4	48.6	0.34	0.28	-8.05	13.3	7.4
7,937.0	1.85	226.71	7,903.7	441.4	44.5	0.10	0.10	1.40	7.9	6.9
8,126.0	1.93	202.89	8,092.6	436.3	41.0	0.41	0.04	-12.60	-1.5	8.3
8,315.0	2.46	204.65	8,281.5	429.7	38.1	0.28	0.28	0.93	-8.5	8.4
8,409.0	2.64	204.21	8,375.4	425.9	36.4	0.19	0.19	-0.47	-12.8	8.4
8,599.0	2.29	210.01	8,565.2	418.6	32.7	0.23	-0.18	3.05	-20.0	10.0
8,787.0	2.02	230.58	8,753.1	413.3	28.2	0.43	-0.14	10.94	-22.0	17.8
8,976.0	2.11	259.67	8,941.9	410.5	22.3	0.55	0.05	15.39	-17.0	27.9
9,165.0	1.76	302.56	9,130.8	411.5	16.4	0.77	-0.19	22.69	1.0	34.4
9,354.0	1.06	251.85	9,319.8	412.5	12.3	0.72	-0.37	-26.83	-29.5	20.3

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Final PVA

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Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

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)
9,543.0	0.79	138.38	9,508.8	411.0	11.5	0.82	-0.14	-60.04	-7.5	-36.8
9,731.0	0.97	179.60	9,696.8	408.4	12.3	0.34	0.10	21.93	-32.4	-21.9
9,920.0	1.67	200.87	9,885.7	404.3	11.4	0.45	0.37	11.25	-42.4	-8.0
10,109.0	0.62	181.71	10,074.7	400.7	10.4	0.58	-0.56	-10.14	-41.0	-22.4
10,297.0	1.32	208.17	10,262.6	397.7	9.3	0.43	0.37	14.07	-49.8	-1.3
10,400.0	2.21	208.96	10,365.6	395.0	7.8	0.86	0.86	0.77	-52.8	-0.8
KOP, MD:10400.0', TVD:10365.6',N/S:395.0', E/W:7.8', INC:2.21										
10,419.0	2.37	209.04	10,384.6	394.3	7.4	0.86	0.86	0.43	-52.7	-1.2
10,465.1	8.23	168.34	10,430.5	390.2	7.6	14.35	12.72	-88.29	-38.3	-34.7
FTP Crossing, MD:10465.1', TVD:10430.5',N/S:390.2', E/W:7.6', INC:8.23										
10,512.0	14.86	162.20	10,476.4	381.2	10.2	14.35	14.13	-13.09	-35.2	-35.9
10,607.0	26.64	165.62	10,565.1	348.8	19.2	12.46	12.40	3.60	-41.3	-24.9
10,701.0	40.54	171.51	10,643.2	298.0	29.0	15.17	14.79	6.27	-51.0	-11.6
10,795.0	48.63	170.46	10,710.1	232.8	39.4	8.64	8.61	-1.12	-59.9	-2.2
10,889.0	52.32	170.90	10,769.9	161.3	51.1	3.94	3.93	0.47	-61.3	10.8
10,984.0	55.31	176.87	10,826.0	85.1	59.2	5.97	3.15	6.28	-49.4	23.3
11,078.0	66.57	179.77	10,871.6	3.1	61.5	12.28	11.98	3.09	-33.1	26.4
11,172.0	76.85	178.63	10,901.1	-86.0	62.7	11.00	10.94	-1.21	-19.0	27.3
11,267.0	89.16	181.71	10,912.6	-180.1	62.4	13.35	12.96	3.24	-9.1	26.7
11,361.0	88.99	182.23	10,914.2	-274.0	59.2	0.58	-0.18	0.55	-7.1	23.2
11,456.0	87.76	180.92	10,916.9	-368.9	56.6	1.89	-1.29	-1.38	-3.8	20.3
11,550.0	86.09	181.27	10,921.9	-462.8	54.8	1.82	-1.78	0.37	1.7	18.3
11,644.0	89.87	181.44	10,925.2	-556.7	52.6	4.03	4.02	0.18	5.6	15.8
11,739.0	92.77	181.71	10,923.0	-651.6	50.0	3.07	3.05	0.28	3.9	12.9
11,833.0	92.24	180.65	10,918.9	-745.5	48.0	1.26	-0.56	-1.13	0.3	10.7
11,927.0	91.71	179.60	10,915.7	-839.4	47.8	1.25	-0.56	-1.12	-2.3	10.3
12,022.0	89.69	178.90	10,914.5	-934.4	49.1	2.25	-2.13	-0.74	-3.0	11.2

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Final PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #512H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3533.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 26' @ 3533.0usft
Well:	#512H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

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)
12,116.0	88.46	178.10	10,916.0	-1,028.4	51.5	1.56	-1.31	-0.85	-0.9	13.4
12,211.0	87.67	177.84	10,919.2	-1,123.3	54.9	0.88	-0.83	-0.27	2.8	16.5
12,305.0	90.84	179.25	10,920.5	-1,217.2	57.3	3.69	3.37	1.50	4.6	18.7
12,400.0	91.80	180.04	10,918.3	-1,312.2	57.9	1.31	1.01	0.83	3.0	19.0
12,494.0	91.80	179.77	10,915.3	-1,406.1	58.0	0.29	0.00	-0.29	0.5	18.9
12,588.0	91.01	178.63	10,913.0	-1,500.1	59.3	1.48	-0.84	-1.21	-1.2	19.9
12,683.0	89.96	178.46	10,912.2	-1,595.0	61.7	1.12	-1.11	-0.18	-1.5	22.1
12,778.0	89.34	180.74	10,912.8	-1,690.0	62.4	2.49	-0.65	2.40	-0.4	22.5
12,872.0	87.67	182.23	10,915.2	-1,784.0	60.0	2.38	-1.78	1.59	2.7	19.8
12,966.0	90.92	181.09	10,916.4	-1,877.9	57.3	3.66	3.46	-1.21	4.3	16.8
13,061.0	93.21	180.83	10,913.0	-1,972.8	55.7	2.43	2.41	-0.27	1.4	14.9
13,156.0	92.86	179.86	10,907.9	-2,067.7	55.1	1.08	-0.37	-1.02	-3.0	14.1
13,250.0	92.86	177.93	10,903.3	-2,161.6	56.9	2.05	0.00	-2.05	-7.2	15.7
13,345.0	90.84	179.42	10,900.2	-2,256.5	59.1	2.64	-2.13	1.57	-9.7	17.6
13,440.0	90.92	179.25	10,898.7	-2,351.5	60.2	0.20	0.08	-0.18	-10.6	18.4
13,629.0	90.04	179.07	10,897.1	-2,540.4	63.0	0.48	-0.47	-0.10	-11.1	20.7
13,724.0	90.48	178.54	10,896.7	-2,635.4	65.0	0.73	0.46	-0.56	-11.0	22.4
13,819.0	89.34	181.00	10,896.9	-2,730.4	65.3	2.85	-1.20	2.59	-10.3	22.5
13,914.0	89.25	181.09	10,898.0	-2,825.4	63.6	0.13	-0.09	0.09	-8.6	20.5
14,009.0	90.04	180.48	10,898.6	-2,920.4	62.3	1.05	0.83	-0.64	-7.5	18.9
14,103.0	91.63	180.30	10,897.2	-3,014.3	61.7	1.70	1.69	-0.19	-8.3	18.0
14,202.8	89.96	182.11	10,895.9	-3,114.1	59.6	2.47	-1.67	1.82	-9.1	15.7
TGT#1(Ruthless 11 Fed Com #512H)										
14,219.0	89.69	182.41	10,895.9	-3,130.3	58.9	2.47	-1.67	1.82	-9.0	15.0
14,314.0	89.52	181.80	10,896.6	-3,225.2	55.4	0.67	-0.18	-0.64	-7.8	11.2
14,408.0	89.43	181.27	10,897.4	-3,319.2	52.9	0.57	-0.10	-0.56	-6.4	8.4
14,503.0	89.78	181.18	10,898.1	-3,414.2	50.9	0.38	0.37	-0.09	-5.1	6.1

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Final PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #512H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3533.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 26' @ 3533.0usft
Well:	#512H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

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)
14,597.0	90.84	181.27	10,897.6	-3,508.1	48.9	1.13	1.13	0.10	-5.1	3.9
14,692.0	90.75	180.83	10,896.3	-3,603.1	47.1	0.47	-0.09	-0.46	-5.8	1.9
14,787.0	90.75	180.48	10,895.0	-3,698.1	46.0	0.37	0.00	-0.37	-6.5	0.5
14,882.0	90.84	179.95	10,893.7	-3,793.1	45.7	0.57	0.09	-0.56	-7.3	-0.1
14,976.0	90.22	178.98	10,892.8	-3,887.1	46.6	1.22	-0.66	-1.03	-7.6	0.5
15,070.0	89.08	178.19	10,893.4	-3,981.0	48.9	1.48	-1.21	-0.84	-6.4	2.6
15,164.0	88.55	177.66	10,895.3	-4,075.0	52.3	0.80	-0.56	-0.56	-3.9	5.7
15,259.0	88.11	177.14	10,898.1	-4,169.8	56.6	0.72	-0.46	-0.55	-0.6	9.8
15,353.0	87.67	176.70	10,901.6	-4,263.6	61.6	0.66	-0.47	-0.47	3.4	14.5
15,447.0	89.96	178.10	10,903.5	-4,357.5	65.9	2.86	2.44	1.49	5.9	18.5
15,541.0	91.71	178.90	10,902.1	-4,451.4	68.4	2.05	1.86	0.85	5.1	20.7
15,636.0	91.45	178.72	10,899.5	-4,546.4	70.3	0.33	-0.27	-0.19	3.1	22.4
15,730.0	91.36	180.74	10,897.2	-4,640.4	70.8	2.15	-0.10	2.15	1.3	22.6
15,824.0	91.45	182.76	10,894.9	-4,734.3	67.9	2.15	0.10	2.15	-0.5	19.5
15,918.0	90.66	182.41	10,893.2	-4,828.2	63.7	0.92	-0.84	-0.37	-1.6	15.0
16,013.0	90.04	181.71	10,892.6	-4,923.1	60.3	0.98	-0.65	-0.74	-1.6	11.3
16,107.0	91.19	181.97	10,891.6	-5,017.0	57.2	1.25	1.22	0.28	-2.1	8.0
16,201.0	90.22	180.74	10,890.4	-5,111.0	55.0	1.67	-1.03	-1.31	-2.7	5.6
16,295.0	90.13	180.65	10,890.2	-5,205.0	53.9	0.14	-0.10	-0.10	-2.4	4.2
16,389.0	89.87	180.92	10,890.2	-5,299.0	52.6	0.40	-0.28	0.29	-1.9	2.6
16,484.0	91.71	182.23	10,888.8	-5,393.9	50.0	2.38	1.94	1.38	-2.6	-0.3
16,578.0	90.84	181.80	10,886.8	-5,487.9	46.7	1.03	-0.93	-0.46	-4.1	-3.8
16,672.0	89.43	180.39	10,886.5	-5,581.8	44.9	2.12	-1.50	-1.50	-3.8	-5.9
16,767.0	89.25	179.77	10,887.6	-5,676.8	44.7	0.68	-0.19	-0.65	-2.1	-6.3
16,861.0	89.34	178.19	10,888.8	-5,770.8	46.4	1.68	0.10	-1.68	-0.4	-4.9
16,956.0	91.89	177.75	10,887.8	-5,865.7	49.8	2.72	2.68	-0.46	-0.9	-1.8
17,050.0	91.80	177.49	10,884.7	-5,959.6	53.7	0.29	-0.10	-0.28	-3.3	1.9

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Company:	Midland	**Local Co-ordinate Reference:**	Well #512H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3533.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 26' @ 3533.0usft
Well:	#512H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

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)
17,144.0	90.66	176.61	10,882.7	-6,053.5	58.5	1.53	-1.21	-0.94	-4.8	6.4
17,238.0	91.10	178.02	10,881.3	-6,147.3	62.9	1.57	0.47	1.50	-5.7	10.6
17,332.0	90.75	178.72	10,879.8	-6,241.3	65.6	0.83	-0.37	0.74	-6.7	13.0
17,426.0	90.57	180.39	10,878.7	-6,335.3	66.3	1.79	-0.19	1.78	-7.2	13.5
17,521.0	89.87	180.92	10,878.3	-6,430.3	65.2	0.92	-0.74	0.56	-7.0	12.1
17,569.7	90.00	180.96	10,878.4	-6,479.0	64.4	0.29	0.28	0.09	-6.6	11.2
TGT#2(Ruthless 11 Fed Com #512H)										
17,615.0	90.13	181.00	10,878.3	-6,524.3	63.7	0.29	0.28	0.09	-6.2	10.3
17,709.0	89.16	180.65	10,878.9	-6,618.2	62.3	1.10	-1.03	-0.37	-4.6	8.7
17,804.0	87.67	179.77	10,881.5	-6,713.2	62.0	1.82	-1.57	-0.93	-1.0	8.0
17,898.0	90.66	181.62	10,882.9	-6,807.2	60.8	3.74	3.18	1.97	1.4	6.6
17,993.0	92.68	182.59	10,880.1	-6,902.1	57.3	2.36	2.13	1.02	-0.3	2.9
18,087.0	91.19	181.80	10,876.9	-6,995.9	53.7	1.79	-1.59	-0.84	-2.4	-1.0
18,181.0	91.89	181.62	10,874.4	-7,089.9	50.9	0.77	0.74	-0.19	-3.9	-4.0
18,275.0	92.51	181.80	10,870.8	-7,183.7	48.1	0.69	0.66	0.19	-6.5	-7.1
18,370.0	92.15	181.44	10,867.0	-7,278.6	45.4	0.54	-0.38	-0.38	-9.3	-10.1
18,464.0	92.42	181.44	10,863.2	-7,372.5	43.1	0.29	0.29	0.00	-12.0	-12.7
18,558.0	92.24	180.92	10,859.4	-7,466.4	41.2	0.58	-0.19	-0.55	-14.8	-14.9
18,652.0	90.66	180.39	10,857.0	-7,560.4	40.1	1.77	-1.68	-0.56	-16.2	-16.2
18,746.0	90.31	179.42	10,856.2	-7,654.4	40.2	1.10	-0.37	-1.03	-16.0	-16.3
18,841.0	91.36	180.04	10,854.8	-7,749.4	40.7	1.28	1.11	0.65	-16.3	-16.1
18,935.0	89.52	179.77	10,854.1	-7,843.4	40.8	1.98	-1.96	-0.29	-16.0	-16.2
19,029.0	91.45	178.72	10,853.3	-7,937.3	42.1	2.34	2.05	-1.12	-15.8	-15.2
19,123.0	90.84	176.79	10,851.4	-8,031.2	45.8	2.15	-0.65	-2.05	-16.6	-11.8
19,127.9	90.85	176.79	10,851.4	-8,036.2	46.0	0.18	0.18	0.00	-16.7	-11.6
TGT#3(Ruthless 11 Fed Com #512H)										
19,218.0	91.01	176.79	10,849.9	-8,126.1	51.1	0.18	0.18	0.00	-17.0	-6.8

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Final PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #512H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3533.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 26' @ 3533.0usft
Well:	#512H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

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)
19,313.0	92.07	179.16	10,847.3	-8,221.0	54.4	2.73	1.12	2.49	-18.5	-3.7
19,408.0	91.36	179.77	10,844.5	-8,315.9	55.3	0.99	-0.75	0.64	-20.2	-3.1
19,502.0	89.16	179.16	10,844.1	-8,409.9	56.2	2.43	-2.34	-0.65	-19.5	-2.4
19,596.0	90.92	178.98	10,844.0	-8,503.9	57.7	1.88	1.87	-0.19	-18.4	-1.2
19,691.0	93.21	179.07	10,840.6	-8,598.8	59.3	2.41	2.41	0.09	-20.7	0.2
19,785.0	92.24	178.90	10,836.1	-8,692.7	61.0	1.05	-1.03	-0.18	-24.1	1.6
19,879.0	91.80	178.81	10,832.8	-8,786.6	62.9	0.48	-0.47	-0.10	-26.3	3.2
19,974.0	92.51	179.07	10,829.2	-8,881.5	64.6	0.80	0.75	0.27	-28.7	4.7
20,068.0	91.63	178.90	10,825.8	-8,975.5	66.3	0.95	-0.94	-0.18	-31.0	6.1
20,162.0	90.31	178.37	10,824.2	-9,069.4	68.5	1.51	-1.40	-0.56	-31.5	8.1
20,256.0	89.52	178.02	10,824.4	-9,163.4	71.5	0.92	-0.84	-0.37	-30.2	10.8
20,350.0	92.15	179.86	10,823.0	-9,257.3	73.2	3.41	2.80	1.96	-30.5	12.2
20,445.0	91.36	179.60	10,820.1	-9,352.3	73.7	0.88	-0.83	-0.27	-32.3	12.4
20,539.0	91.10	179.42	10,818.1	-9,446.3	74.5	0.34	-0.28	-0.19	-33.2	13.0
20,633.0	90.13	178.81	10,817.1	-9,540.3	75.9	1.22	-1.03	-0.65	-33.1	14.1
20,727.0	90.31	178.63	10,816.7	-9,634.2	78.0	0.27	0.19	-0.19	-32.3	16.0
20,821.0	88.99	178.81	10,817.3	-9,728.2	80.1	1.42	-1.40	0.19	-30.6	17.8
20,916.0	88.11	178.46	10,819.7	-9,823.1	82.4	1.00	-0.93	-0.37	-27.1	19.8
Last MWD Survey (MD=20916.0')										
21,063.0	88.11	178.46	10,824.5	-9,970.0	86.4	0.00	0.00	0.00	-20.5	23.4
Projection to Bit (MD=21063.0') - PBHL(Ruthless 11 Fed Com #512H)										

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Final PVA

Company:	Midland	**Local Co-ordinate Reference:**	Well #512H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 26' @ 3533.0usft
Site:	Ruthless 11 Fed Com	**MD Reference:**	KB = 26' @ 3533.0usft
Well:	#512H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	PEDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,400.0	10,365.6	395.0	7.8	KOP, MD:10400.0', TVD:10365.6',N/S:395.0', E/W:7.8', INC:2.21
10,465.1	10,430.5	390.2	7.6	FTP Crossing, MD:10465.1', TVD:10430.5',N/S:390.2', E/W:7.6', INC:8.23
20,916.0	10,819.7	-9,823.1	82.4	Last MWD Survey (MD=20916.0')
21,063.0	10,824.5	-9,970.0	86.4	Projection to Bit (MD=21063.0')

Checked By: _____ Approved By: _____ Date: _____

I CERTIFY THIS SURVEY TO BE TRUE AND CORRECT TO THE BEST OF MY BELIEF AND KNOWLEDGE
KAY MADDOX 02/14/2022

Received by OCD: 9/26/2023 7:26:19 AM

Lea County, NM (NAD 83 NME)

Ruthless 11 Fed Com #512H

Plan #1

PROJECT DETAILS: Lea 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: -0.37°
Magnetic North: 6.21°

Magnetic Field
Strength: 47446.0nT
Dip Angle: 59.82°
Date: 6/2/2021
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.21°
To convert a Magnetic Direction to a True Direction, Add 6.58° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

WELL DETAILS: #512H

3507.0
KB = 26' @ 3533.0usft

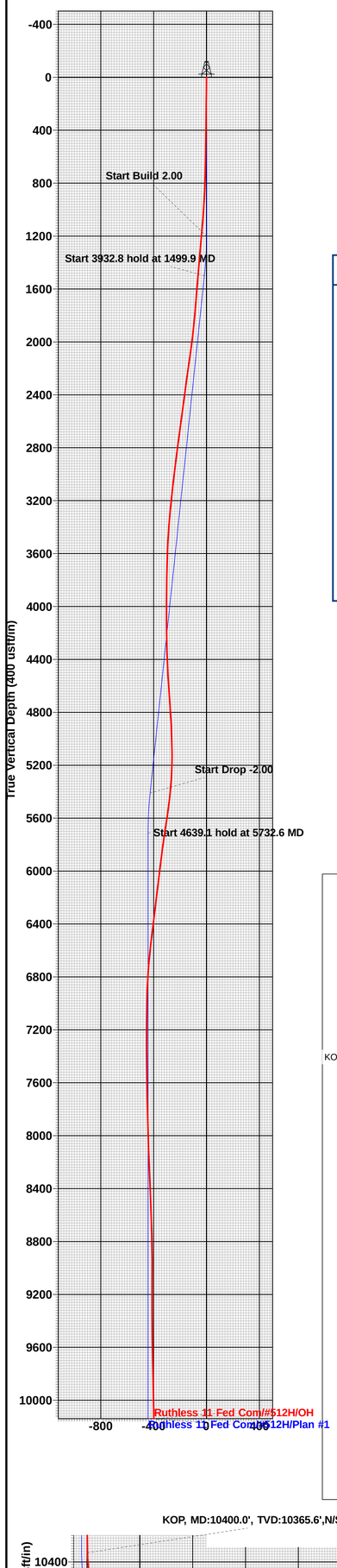
Northing	Easting	Latitude	Longitude
419331.00	754236.00	32° 9' 3.419 N	103° 38' 43.495 W

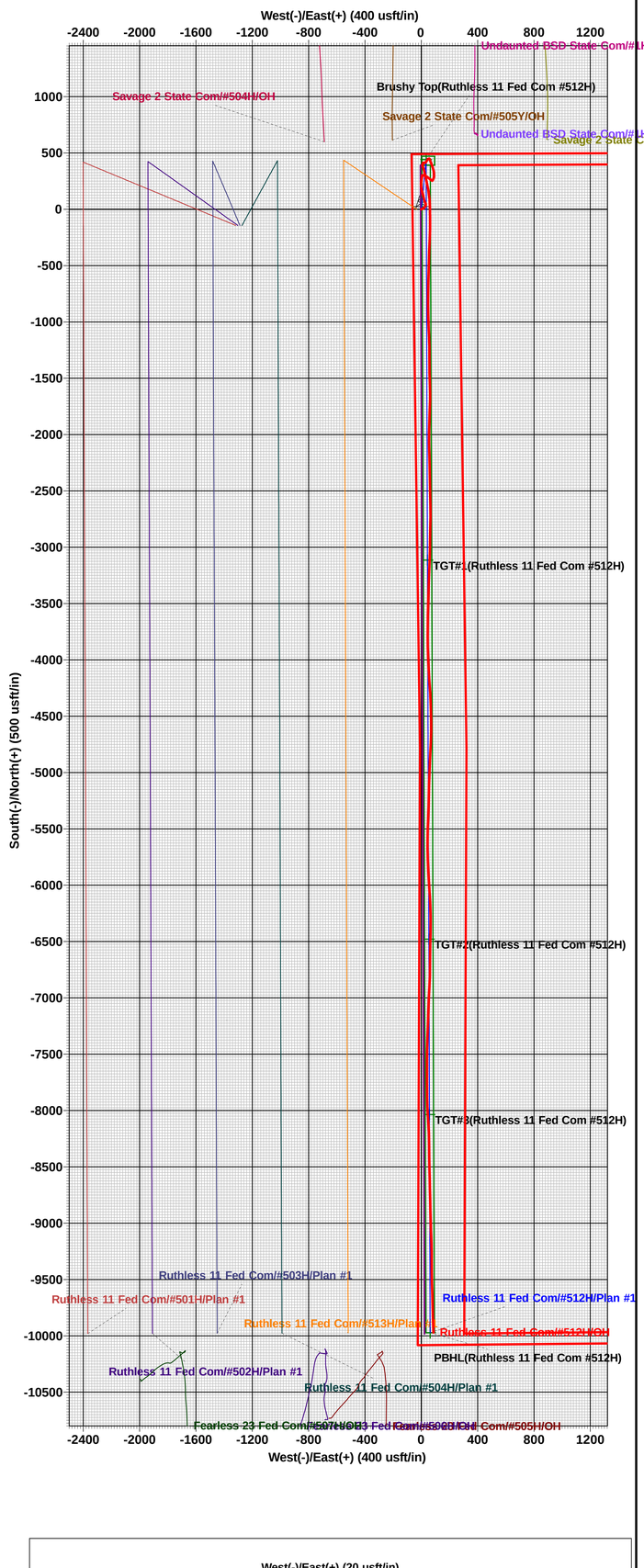
SECTION DETAILS

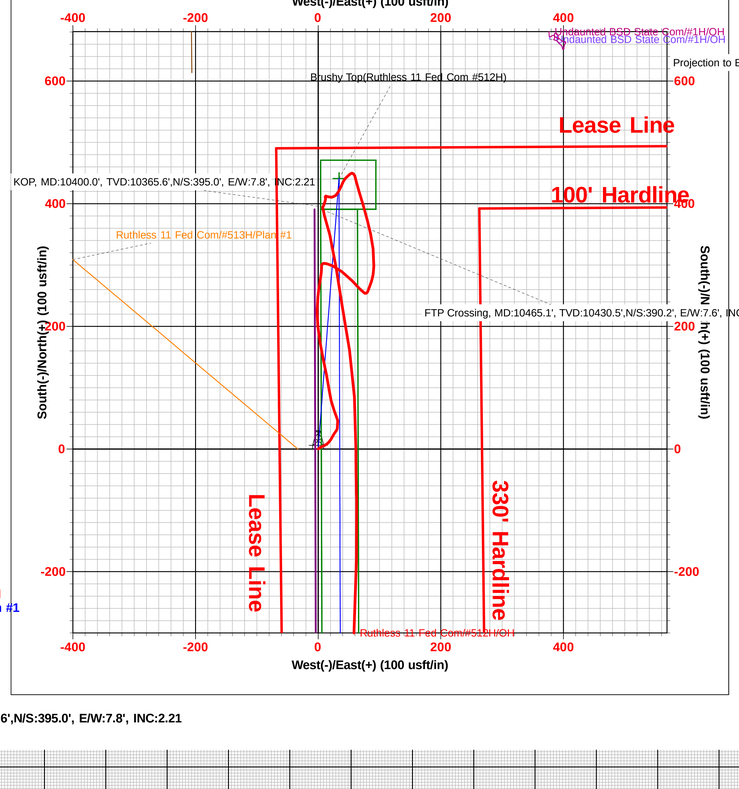
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1499.9	6.00	4.41	1499.3	15.6	1.2	2.00	4.41	-15.6	
4	5432.7	6.00	4.41	5410.7	425.4	32.8	0.00	0.00	-425.1	
5	5732.6	0.00	0.00	5710.0	441.0	34.0	2.00	180.00	-440.8	
6	10371.7	0.00	0.00	10349.1	441.0	34.0	0.00	0.00	-440.8	
7	11275.0	90.33	179.84	10922.0	-135.2	35.6	10.00	179.84	135.5	
8	14253.6	90.33	179.84	10905.0	-3113.8	43.9	0.00	0.00	3114.0	TGT#1(Ruthless 11 Fed Com #512H)
9	14254.3	90.34	179.84	10905.0	-3114.4	43.9	2.00	0.00	3114.6	
10	17618.7	90.34	179.84	10885.0	-6478.8	53.3	0.00	0.00	6479.0	TGT#2(Ruthless 11 Fed Com #512H)
11	17633.0	90.63	179.84	10884.9	-6493.1	53.3	2.00	0.00	6493.3	
12	19175.8	90.63	179.84	10868.0	-8035.8	57.6	0.00	0.00	8036.0	TGT#3(Ruthless 11 Fed Com #512H)
13	19178.5	90.68	179.84	10868.0	-8038.5	57.6	2.00	0.00	8038.7	
14	21112.1	90.68	179.84	10845.0	-9972.0	63.0	0.00	0.00	9972.2	PBHL(Ruthless 11 Fed Com #512H)

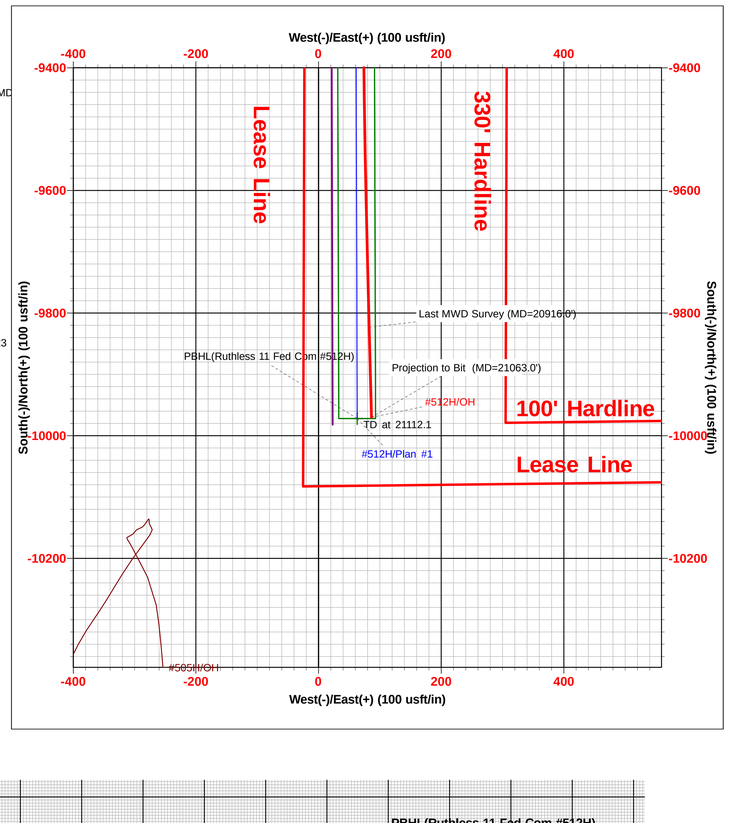
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

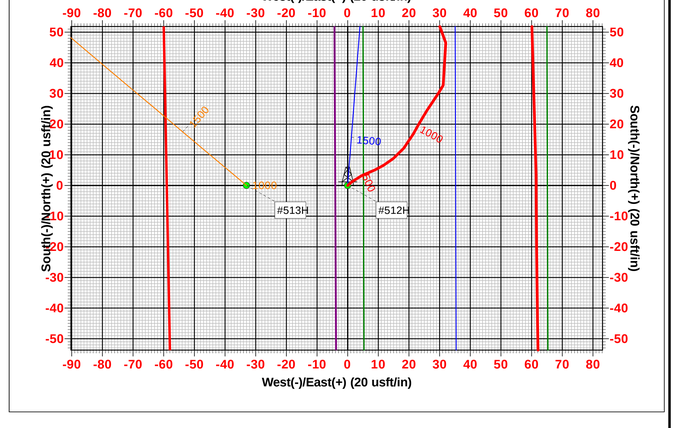
Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Ruthless 11 Fed Com #512H)	7230.0	441.0	34.0	419772.00	754270.00
PBHL(Ruthless 11 Fed Com #512H)	10845.0	-9972.0	63.0	409359.00	754299.00
TGT#3(Ruthless 11 Fed Com #512H)	10868.0	-8035.8	57.6	411295.20	754293.61
TGT#2(Ruthless 11 Fed Com #512H)	10885.0	-6478.8	53.3	412852.20	754289.27
TGT#1(Ruthless 11 Fed Com #512H)	10905.0	-3113.8	43.9	416217.20	754279.90

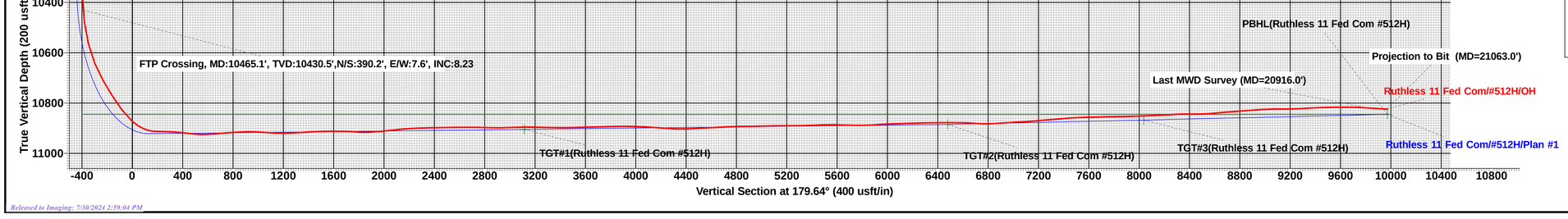


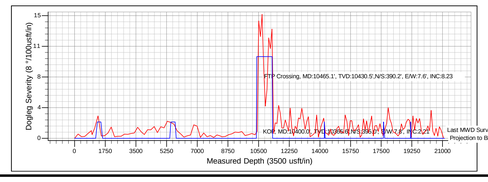












Lea County, NM (NAD 83 NME)
Ruthless 11 Fed Com
#512H
OH
Plan #1
13:17, June 03 2021

Released to Imaging: 7/30/2024 2:59:04 PM

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 Road, 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, NM 87505

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

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025-47725	97903	WC025 G08 S253235G; LOWER BONE SPRING

[4]Property Code	[5]Property Name	[6]Well Number
329701	RUTHLESS 11 FED COM	512H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3507'

[10]Surface Location

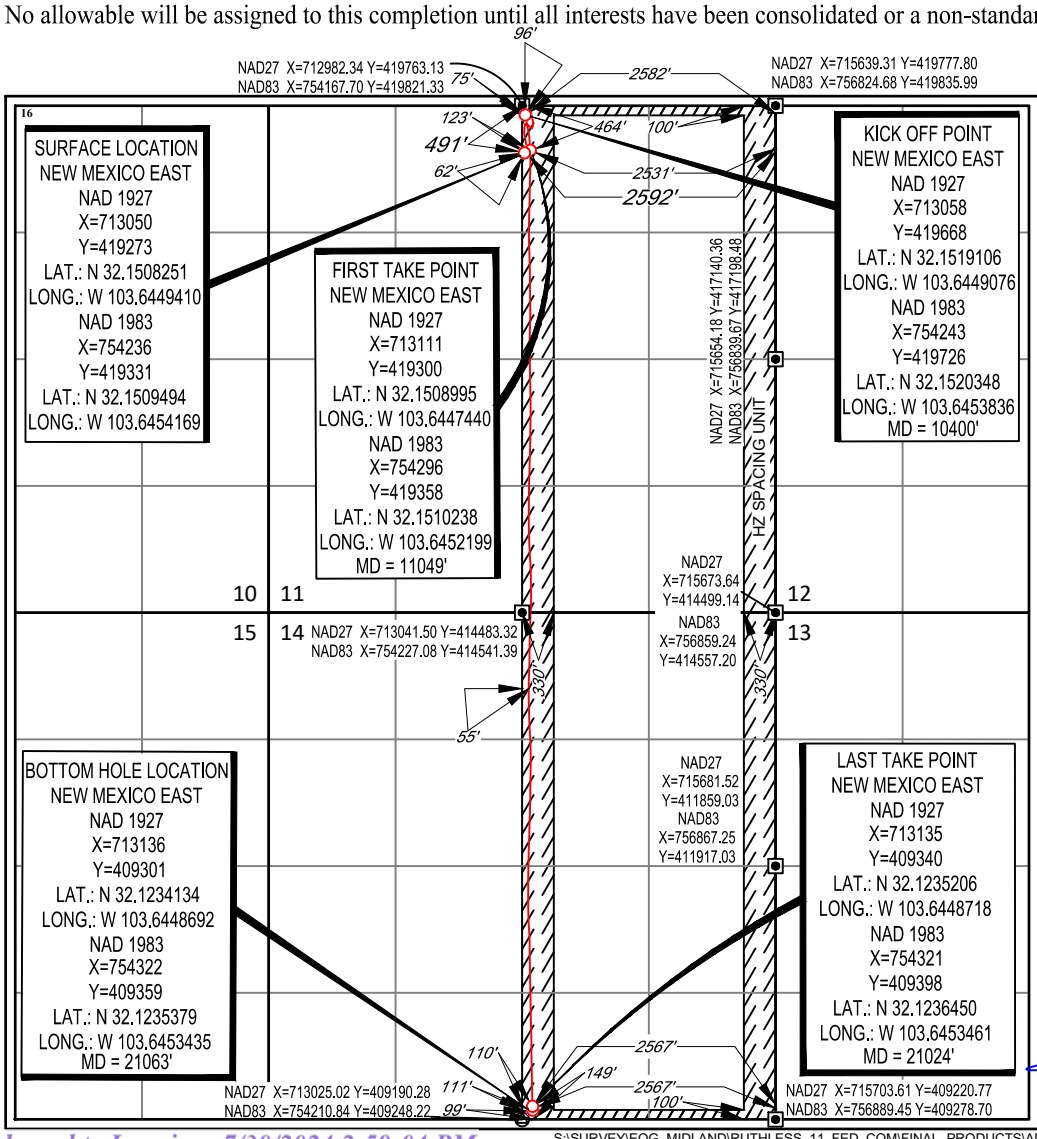
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	11	25-S	32-E	-	491'	NORTH	2592'	EAST	LEA

[11]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
O	14	25-S	32-E	-	99'	SOUTH	2567'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
640.00			NSL 8187

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.



[17]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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox 02/22/2022
Signature Date

KAY MADDOX
Printed Name

KAY_MADDOX@EOGRESOURCES.COM
E-mail Address

[18]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 to the best of my belief.

02/06/2019
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\EOG_MIDLAND\RUTHLESS_11_FED_COM\FINAL_PRODUCTS\AD_RUTHLESS_11_FED_COM_512H.DWG 2/21/2022 3:16:55 PM adisabella

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

SECTION 11, TOWNSHIP 25-S, RANGE 32-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

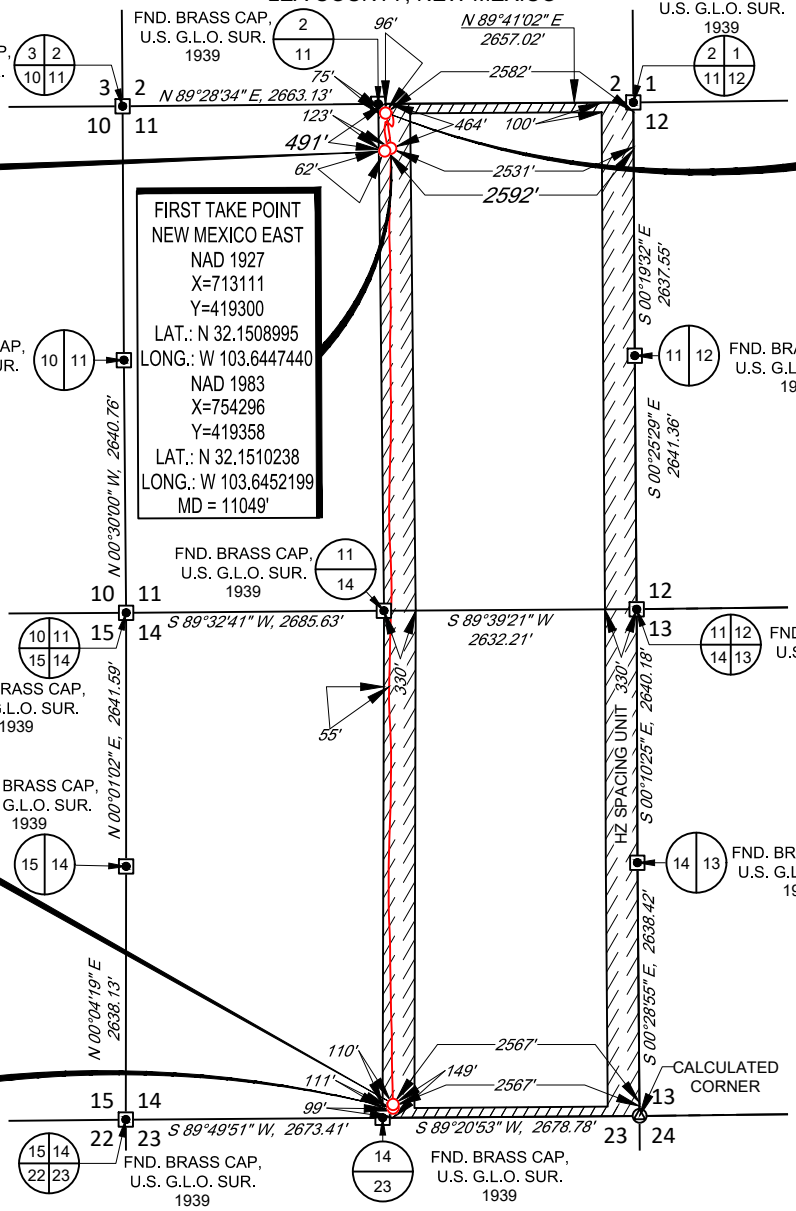
SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=713050
Y=419273
LAT.: N 32.1508251
LONG.: W 103.6449410
NAD 1983
X=754236
Y=419331
LAT.: N 32.1509494
LONG.: W 103.6454169

KICK OFF POINT
NEW MEXICO EAST
NAD 1927
X=713058
Y=419668
LAT.: N 32.1519106
LONG.: W 103.6449076
NAD 1983
X=754243
Y=419726
LAT.: N 32.1520348
LONG.: W 103.6453836
MD = 10400'

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1927
X=713111
Y=419300
LAT.: N 32.1508995
LONG.: W 103.6447440
NAD 1983
X=754296
Y=419358
LAT.: N 32.1510238
LONG.: W 103.6452199
MD = 11049'

LAST TAKE POINT
NEW MEXICO EAST
NAD 1927
X=713135
Y=409340
LAT.: N 32.1235206
LONG.: W 103.6448718
NAD 1983
X=754321
Y=409398
LAT.: N 32.1236450
LONG.: W 103.6453461
MD = 21024'

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=713136
Y=409301
LAT.: N 32.1234134
LONG.: W 103.6448692
NAD 1983
X=754322
Y=409359
LAT.: N 32.1235379
LONG.: W 103.6453435
MD = 21063'



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2059518.827	Y=11673110.468
KOP	X=2059524.380	Y=11673505.447
FTP	X=2059579.649	Y=11673137.841
LTP	X=2059666.297	Y=11663179.777
THL	X=2059667.538	Y=11663140.790

LEASE NAME & WELL NO.: RUTHLESS 11 FED COM 512H
SECTION 11 TWP 25-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3507'
DESCRIPTION 491' FNL & 2592' FEL

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Michael Blake Brown, P.S. No. 18329
FEBRUARY 18, 2022

eog resources, inc.

RUTHLESS FED COM 512H AS-DRILLED	REVISION:
DATE: 02/18/2022	
FILE: AD_RUTHLESS_11_FED_COM_512H	
DRAWN BY: A.V.F.	
SHEET : 1 OF 1	

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. 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.
3. THIS WELL LOCATION SHOWN HEREON 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. 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.

S:\SURVEY\EOG_MIDLAND\RUTHLESS_11_FED_COM\FINAL_PRODUCTS\AD_RUTHLESS_11_FED_COM_512H.DWG 2/21/2022 3:16:56 PM adisabella

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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 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 268937
	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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 268937

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	7377
	Action Number: 268937
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	ACDEPTED FOR RECORD.	7/30/2024