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

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
Advance Energy Partners Hat Mesa, LLC 11490 Westheimer RD, Suite 950 Houston, TX	372417
	[3] Reason for Filing Code/ Effective Date NW

[4] API Number	[5] Pool Name	[6] Pool Code
30-025-48901	WC-025 G-06 S213326D; BONE SPRING	97929

[7] Property Code	[8] Property Name	[9] Well Number
319601	DAGGER STATE COM	558H

II. [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
L	30	21 S	33 E		2370	SOUTH	740	WEST	Lea

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	19	21 S	33 E		95	NORTH	340	WEST	Lea

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
214984	PLAINS MARKETING, LLC 10 Desta Drive, Suite 200E Midland, TX 79705	O
330291	3 BEAR ENERGY-COTTONWOOD, LLC 1512 Larimer Street, Suite 540 Denver, CO 80202	G

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
6/3/21	1/15/22	19,475’	19,452’	11,636’-19,444’	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17.5”	13.375”	1564’	930
12.25”	9.625”	3645’/5478’	2229
8.5”	5.5”	19,460’	3695

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
1/15/22	1/15/22	2/21/22	24 hrs	--	654
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
52	1808	1278	2059		Flowing

[42] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
Signature: Eileen Kosakowski

Printed name:
Eileen M Kosakowski

Title:
Sr. Eng. Tech

E-mail Address:
ekosakowski@advanceenergypartners.com

Date: 7/21/22

Phone: 832-672-4604

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 4, 2011

Submit one copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT
AS Drilled

API Number	Pool Code	Pool Name
30-025-48901	97929	WC-025 G-06 S213326D; BONE SPRING

Property Code	Property Name	Well Number
319601	DAGGER STATE COM	558H

OGRID No.	Operator Name	Elevation
372417	ADVANCE ENERGY PARTNERS HAT MESA	3815'

Surface Location

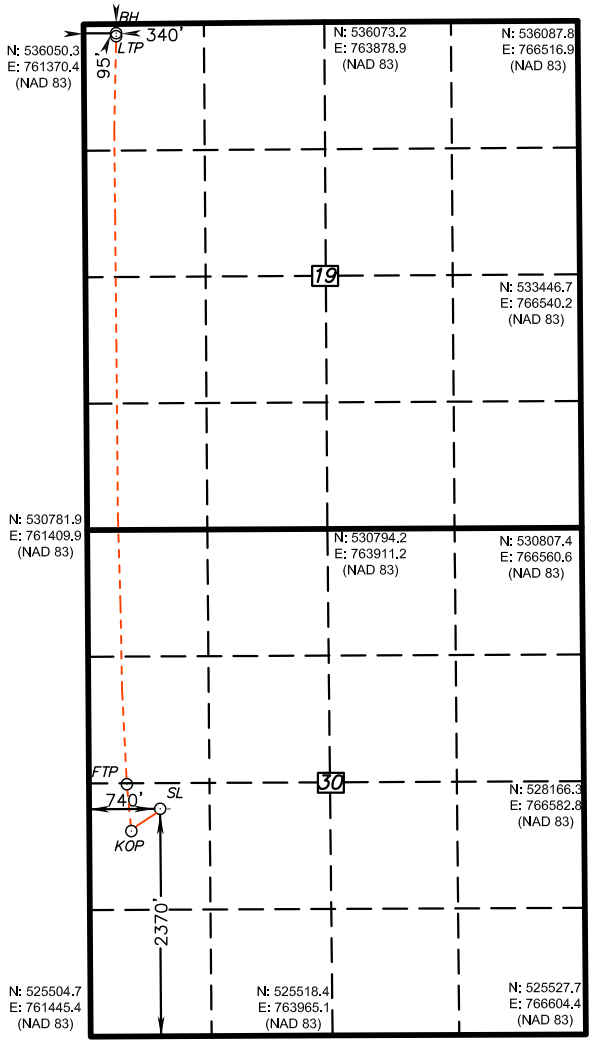
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
L	30	21 S	33 E		2370	SOUTH	740	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
D	19	21 S	33 E		95	NORTH	340	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240		C	

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



BOTTOM HOLE LOCATION
Lat – N 32.471384°
Long – W 103.618749°
NMSPCE– N 535958.2
E 761711.6
(NAD-83)

LAST TAKE POINT
126' FNL & 340' FWL
Lat – N 32.471300°
Long – W 103.618751°
NMSPCE– N 535927.5
E 761711.3
(NAD-83)

FIRST TAKE POINT
2628' FSL & 394' FWL
Lat – N 32.449878°
Long – W 103.618561°
NMSPCE– N 528134.7
E 761822.1
(NAD-83)

KICK OFF POINT
2140' FSL & 439' FWL
Lat – N 32.448537°
Long – W 103.618417°
NMSPCE– N 527646.8
E 761869.9
(NAD-83)

SURFACE LOCATION
Lat – N 32.449167°
Long – W 103.617441°
NMSPCE– N 527878.2
E 762169.3
(NAD-83)

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.

Eileen Kosakowski 6/21/22
Signature Date

Eileen M Kosakowski
Printed Name

ekosakowski@advanceenergypartners.com
Email Address

SURVEYOR CERTIFICATION

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

JUNE 1, 2022
Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES NEW MEXICO 7977 REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. Gary L. Jones 7977
BASIN SURVEYS

0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 35743

Aim Directional Services

End of Well Report

Advance Energy Partners, LLC
Dagger State Com, Well No. 558H
Lea County, New Mexico
Rig: Nabors X50
Job No.: WT-21-067

Start Date: 06/02/2021
End Date: 08/02/2021

Directional Drillers:
Advance Directional

Office Support:
Javier Alvarez
Directional Coordinator
E-mail: Javier.Alvarez@aimdir.com
Ivonne Gonzalez
Well Planner
E-mail: Ivonne.Gonzalez@aimdir.com
Allison Reinert
Executive VP
E-mail: Allison.Reinert@aimdir.com
Thomas Rinald
President
E-mail: Thomas.Rinald@aimdir.com

P.O. Box 181015 • Corpus Christi, Texas 78480
Phone: 361-653-6500 • Fax: 361-653-6599
www.aimdir.com

RTOC Aim Directional Services

Contender Downhole Motors

Performance Overview

Dagger State Com 558H (WT-21-067)

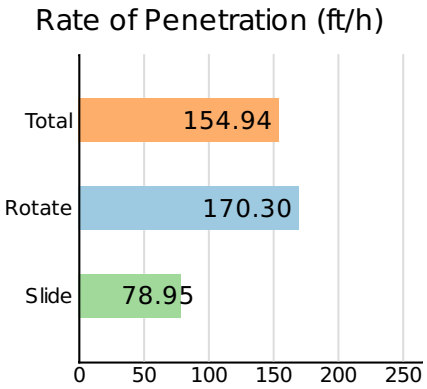
2021-06-02 to 2021-08-02
Lea, New Mexico, US (32.45, -103.62)

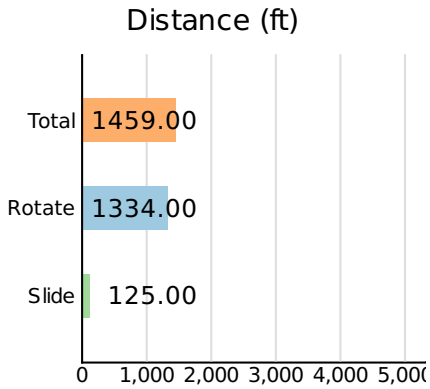
BHA Performance

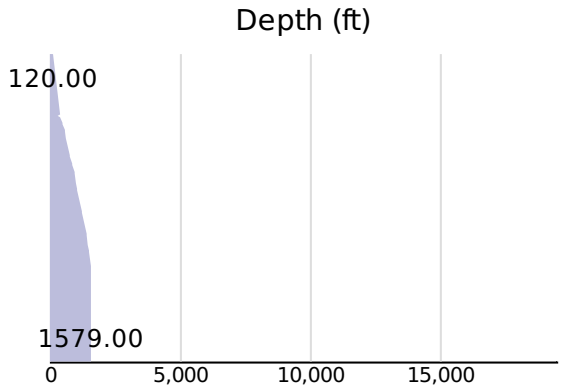
BHA 1

BHA #1 (17.5" Surface)

In: **06/02/2021 16:45**
Out: **06/03/2021 11:00**



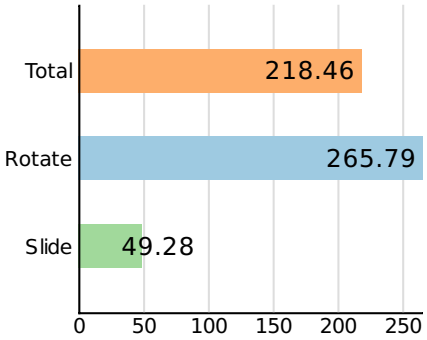


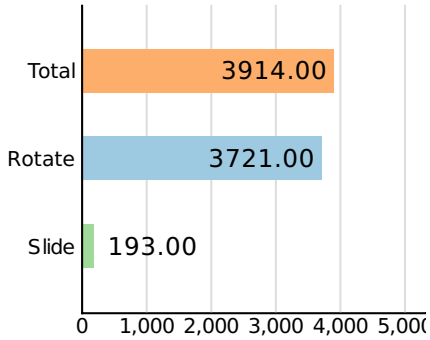


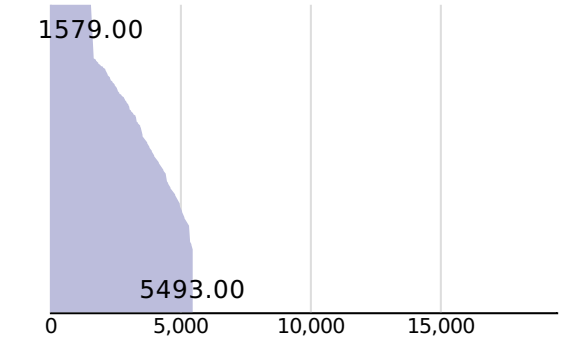
BHA 2

BHA #2 - Intermediate 12.25"

In: **06/04/2021 04:45**
Out: **06/05/2021 14:15**



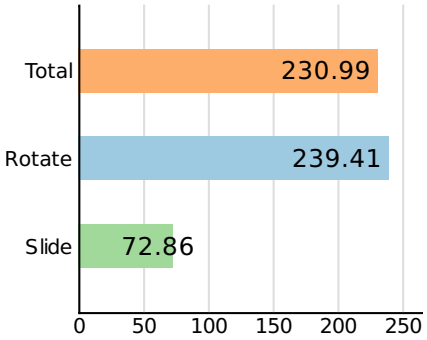


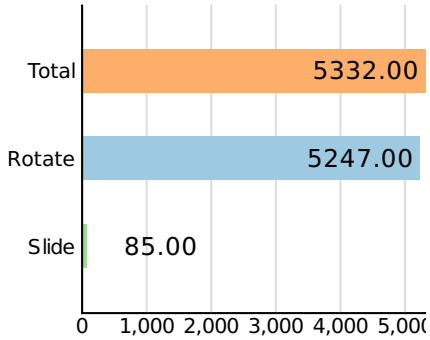


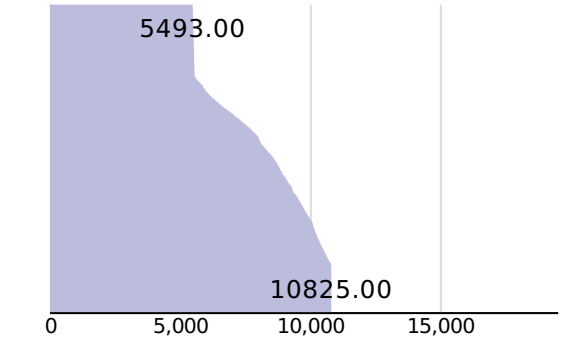
BHA 3

Intermediate 8.75"

In: **07/16/2021 18:45**
Out: **07/18/2021 15:45**



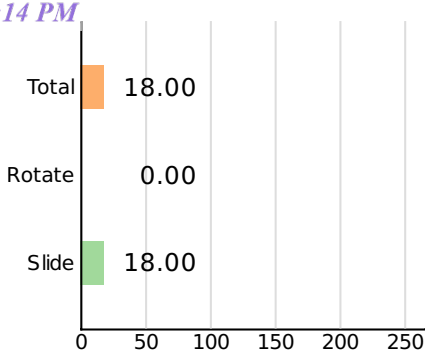


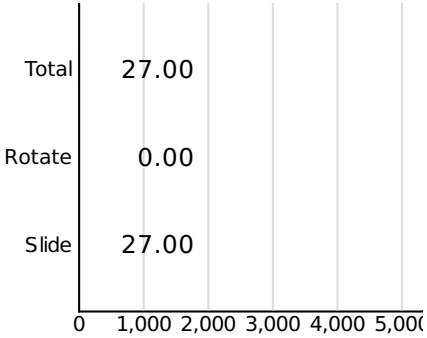


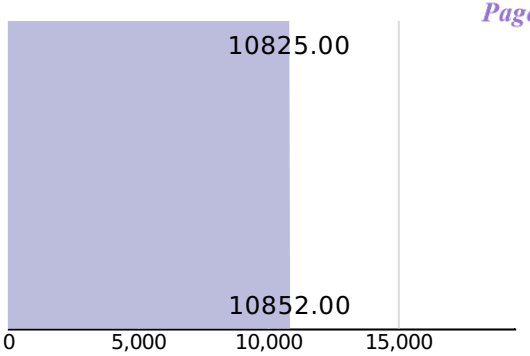
BHA 4

8.75" CURVE

In: **07/18/2021 17:15**
Out: **07/20/2021 04:45**



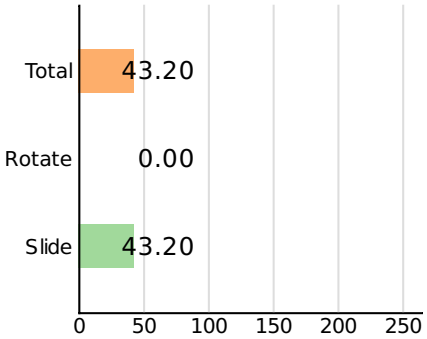


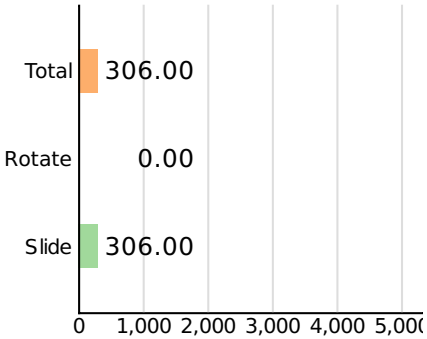


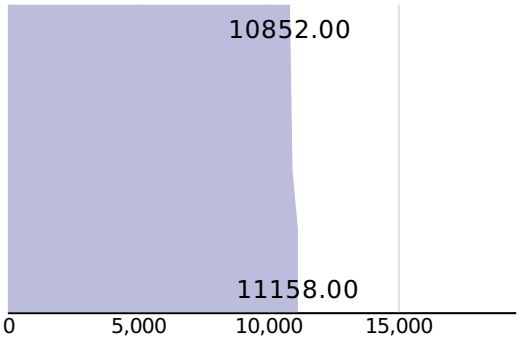
BHA 5

8.75" CURVE

In: **07/20/2021 06:15**
Out: **07/21/2021 07:45**



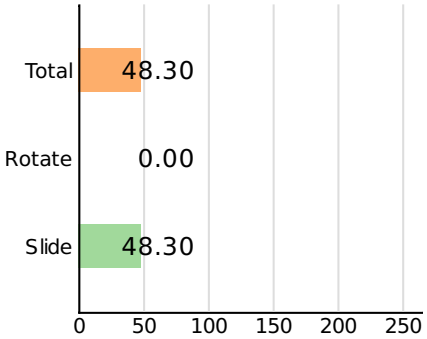


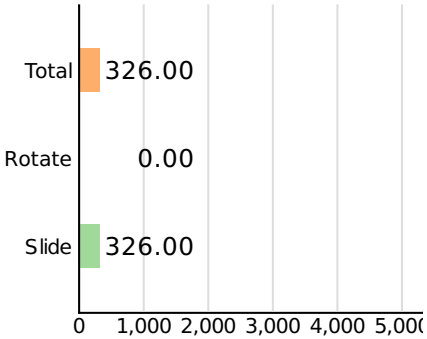


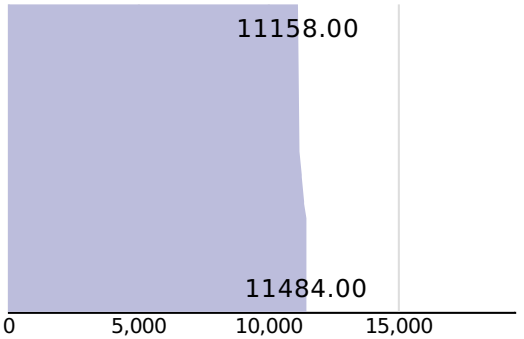
BHA 6

8.75" CURVE

In: **07/21/2021 08:45**
Out: **07/22/2021 07:45**



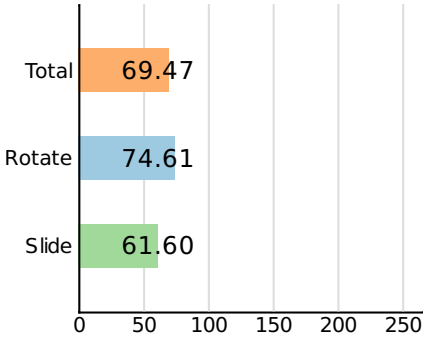


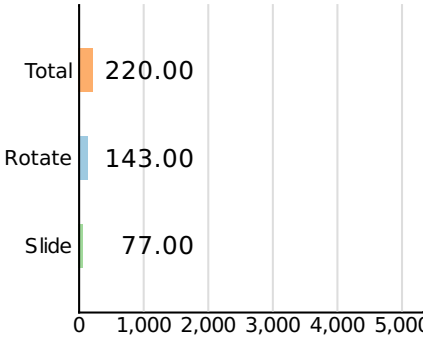


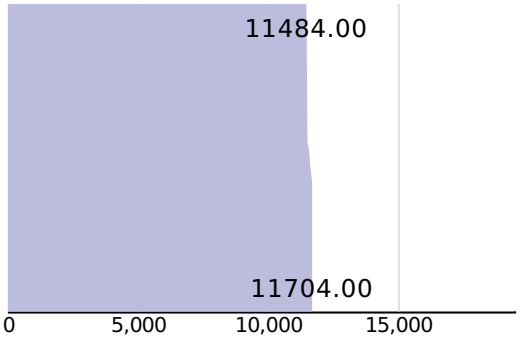
BHA 7

8.75 Lateral w/ Agitator

In: **07/22/2021 09:00**
Out: **07/23/2021 06:45**



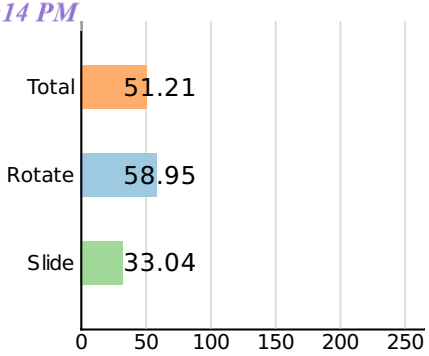


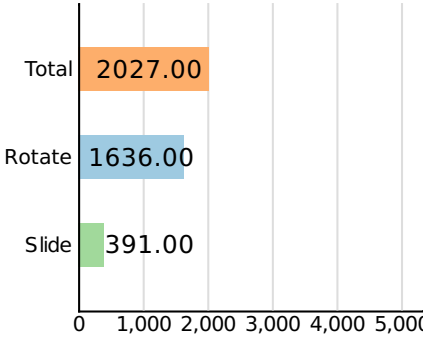


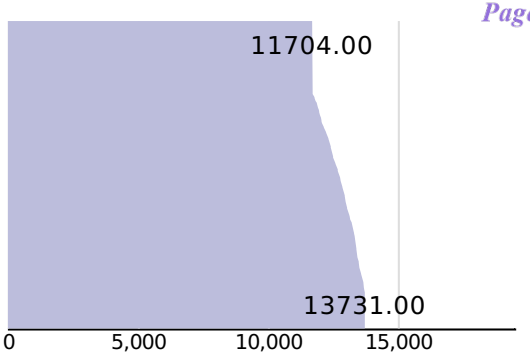
BHA 8

8.75" LATERAL w/ Agitator

In: **07/23/2021 07:45**
Out: **07/26/2021 02:45**



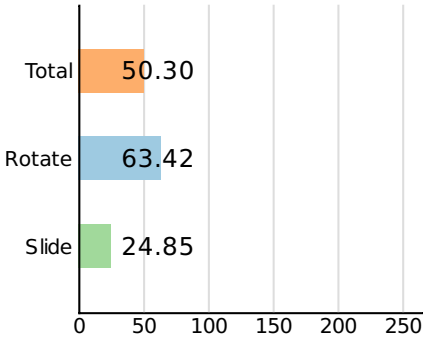


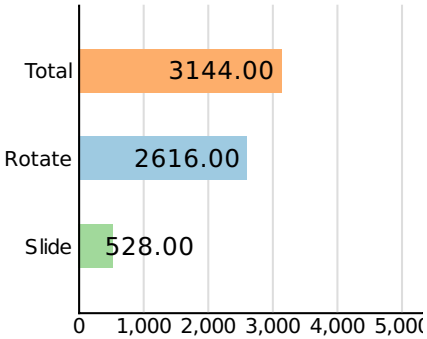


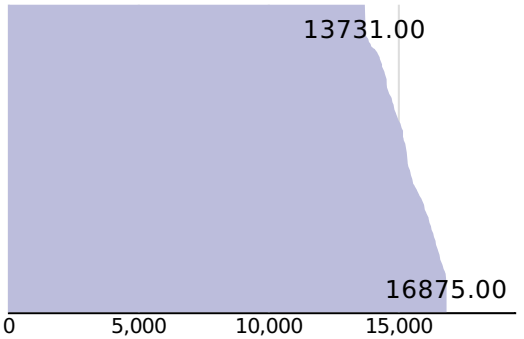
BHA 9

8.75" LATERAL w/ Agitator

In: **07/26/2021 04:00**
Out: **07/29/2021 23:30**



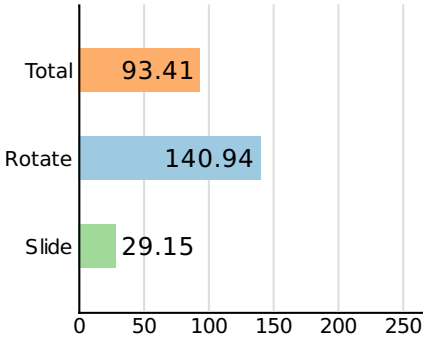


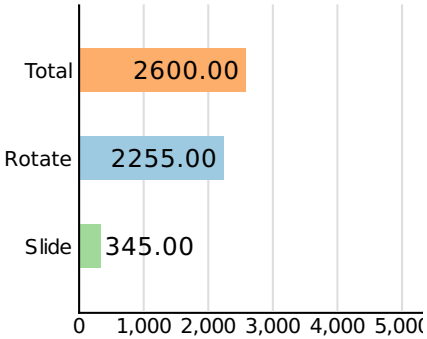


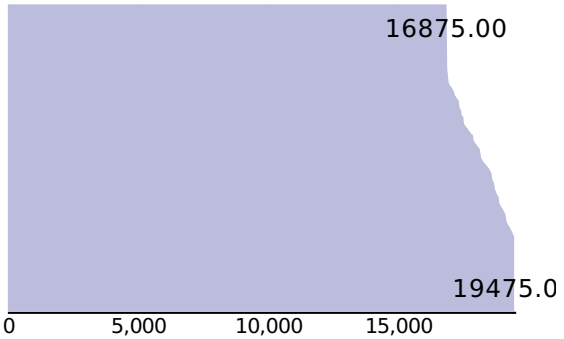
BHA 10

8.75" LATERAL w/ Agitator

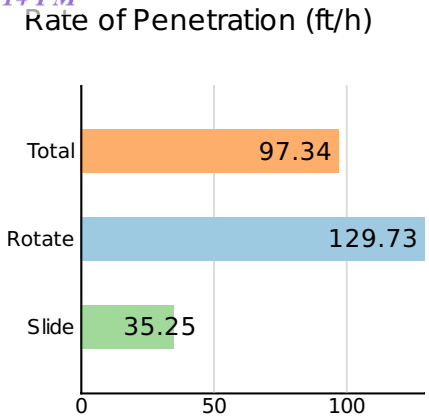
In: **07/29/2021 23:30**
Out: **08/01/2021 10:00**

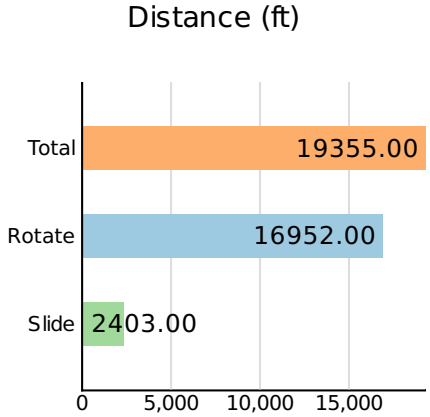


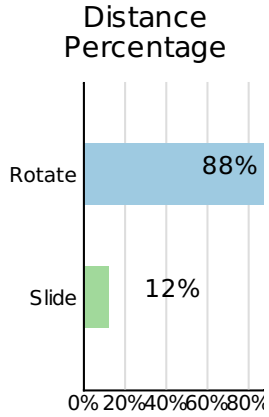


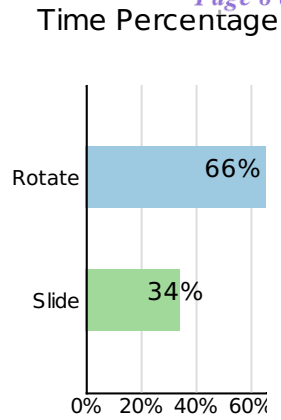


Total

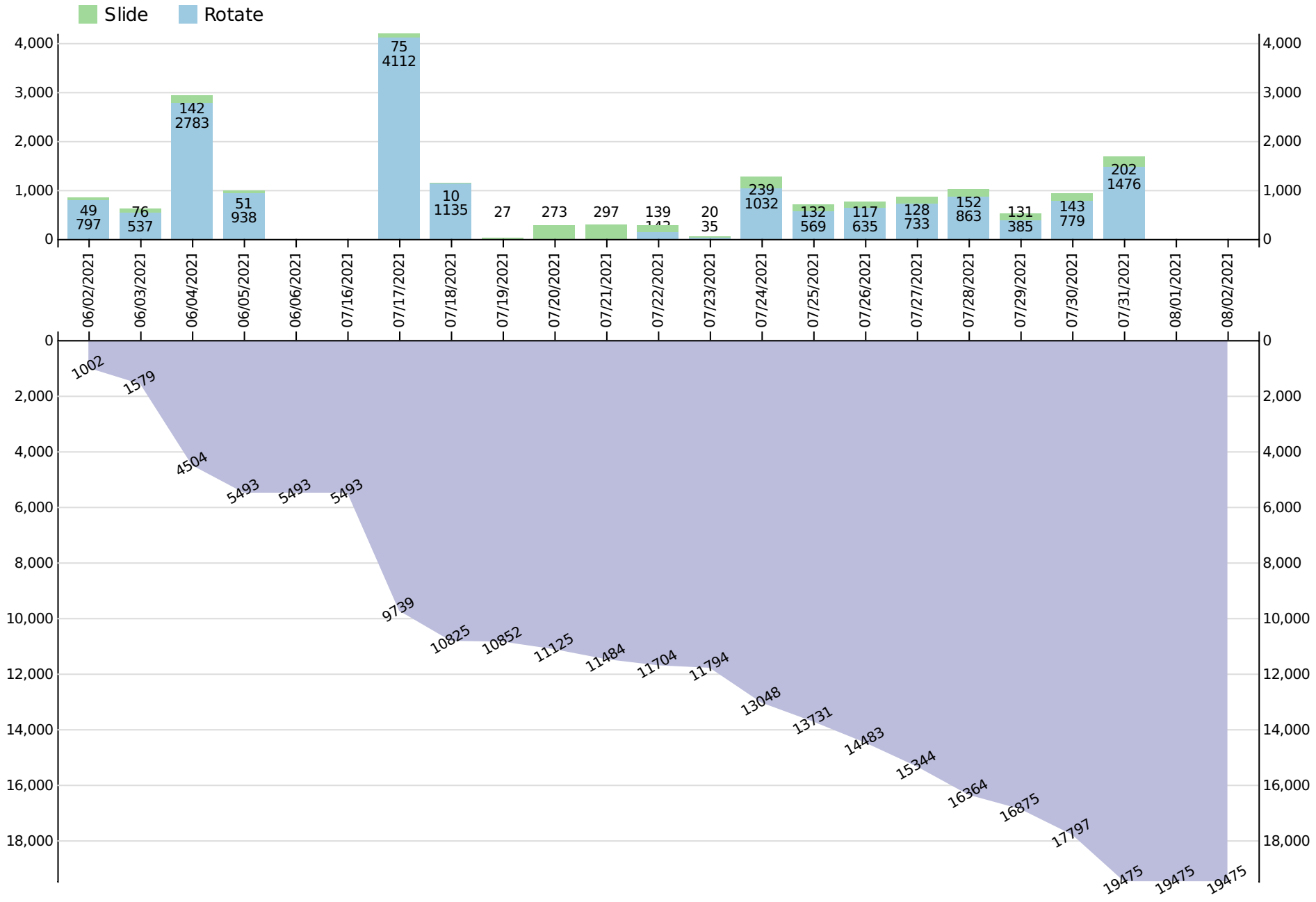

Rate of Penetration (ft/h)
Total
97.34
Rotate
129.73
Slide
35.25
0
50
100


Distance (ft)
Total
19355.00
Rotate
16952.00
Slide
2403.00
0
5,000
10,000
15,000

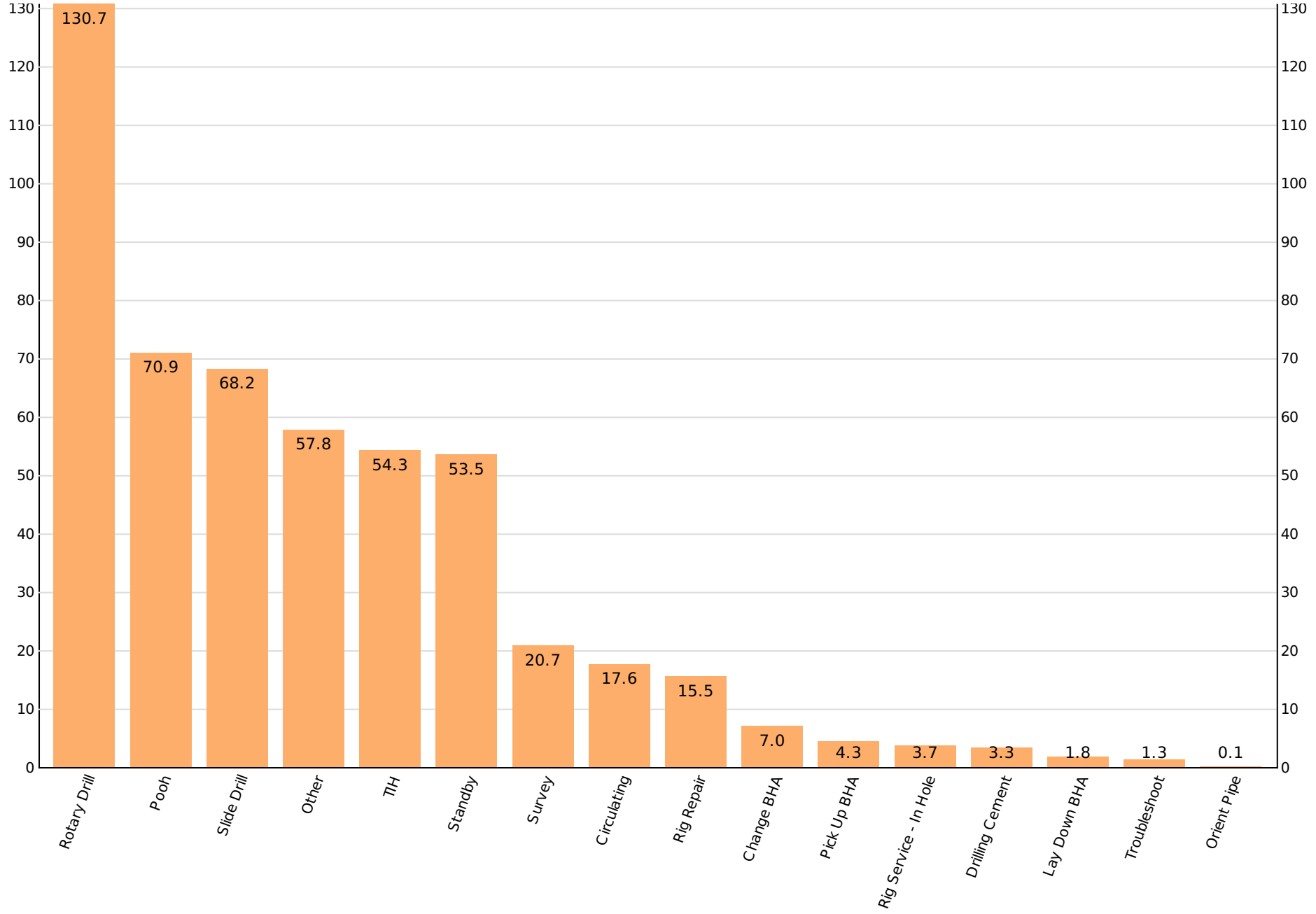

Distance Percentage
Rotate
88%
Slide
12%
0%
20%
40%
60%
80%


Time Percentage
Rotate
66%
Slide
34%
0%
20%
40%
60%

Days vs. Depth



Directional Activity Hours



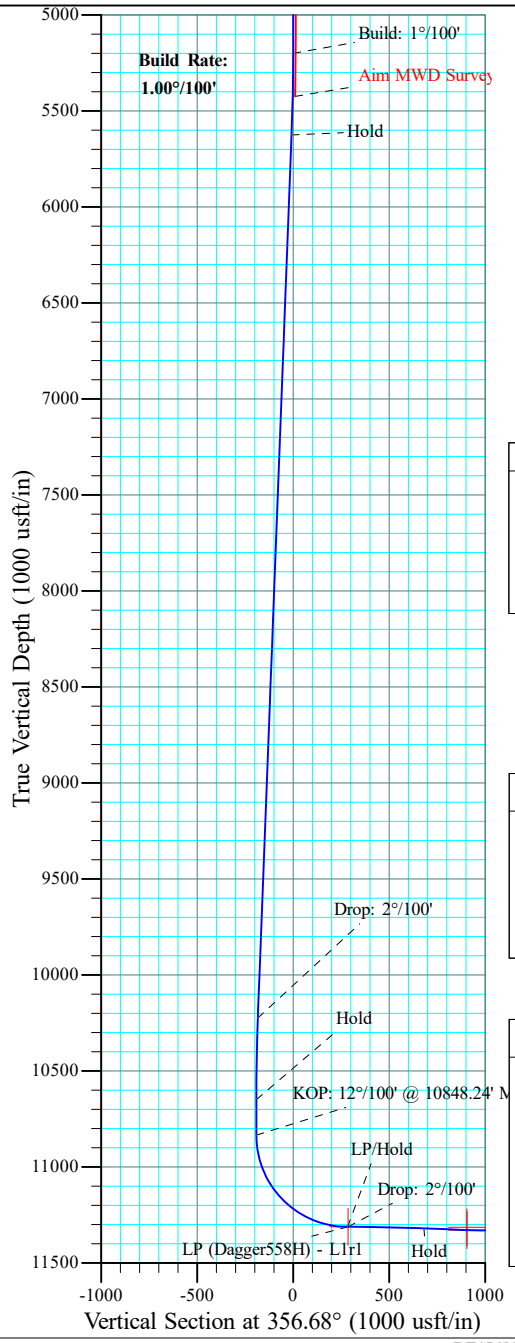
Proposed vs. As Drilled

Dagger State Com 558H (WT-21-067)

2021-06-02 to 2021-08-02
Lea, New Mexico, US (32.45, -103.62)

Advance Energy Partners, LLC

Dagger State Com 558H
Lea County, New Mexico
Job No. WT-21-067
Nabors X50
Plan 1.0

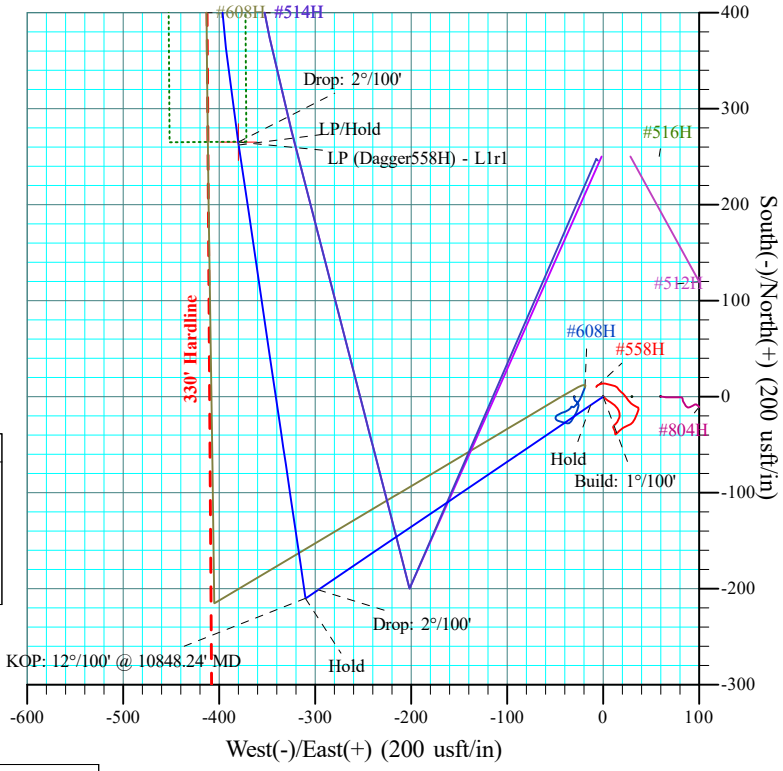


Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.06°

Magnetic Field
Strength: 47892.1nT
Dip Angle: 60.17°
Date: 7/20/2021
Model: MVHD

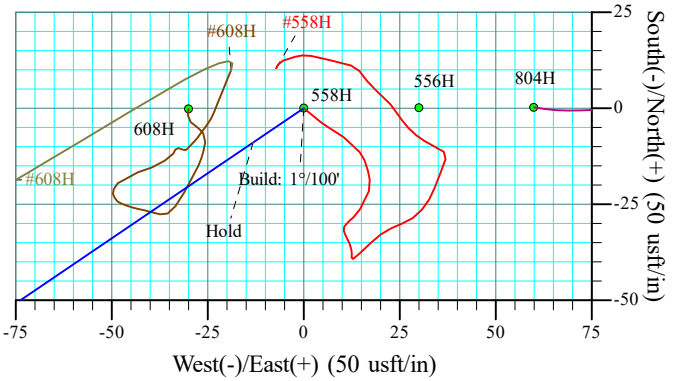
Magnetic North: 6.08° to Grid North

SLOTS		
Slot Name	+N/-S	+E/-W
#003	4819.73	603.71
556H	0.10	30.00
558H	0.00	0.00
608H	-0.20	-30.00
804H	0.20	59.90



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

SITE DETAILS: Dagger State Com 558H	
Site Centre Northing:	527878.20
Easting:	762169.30
Positional Uncertainty:	0.00
Convergence:	0.38
Local North:	Grid
Depth Reference:	3815'GL+32.5'KB @ 3847.50usft



**Note - Aim is not responsible for collision issues against any unknown offset wells.*

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Dagger558H) - L1r1	11312.10	265.39	-379.93	528143.59	761789.37	32° 26' 59.652 N	103° 37' 7.201 W
PBHL (Dagger558H) - L1r1	11280.00	8075.20	-468.29	535953.40	761701.01	32° 28' 16.936 N	103° 37' 7.622 W
WP1 (Dagger558H) - L1r1	11329.00	883.01	-414.83	528761.21	761754.47	32° 27' 5.766 N	103° 37' 7.560 W
WP2 (Dagger558H) - L1r1	11276.00	4037.21	-438.63	531915.41	761730.67	32° 27' 36.978 N	103° 37' 7.592 W
WP3 (Dagger558H) - L1r1	11303.00	6577.71	-457.33	534455.91	761711.97	32° 28' 2.117 N	103° 37' 7.612 W

Drawn By: PBR
Date Created: 5/26/2021
Date Revised: 7/13/2021
File: Advance Energy - Dagger State Com 558H Lateral 1r1 Plan 1.0 Int.wpc

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	
2	5200.00	0.00	0.00	5200.00	0.00	0.00	0.000	0.00	0.00	Build: 1°/100'
3	5626.27	4.26	235.89	5625.88	-8.89	-13.12	1.000	235.89	-8.11	Hold
4	10237.27	4.26	235.89	10224.12	-201.11	-296.88	0.000	0.00	-183.58	Drop: 2°/100'
5	10663.54	0.00	0.00	10650.00	-210.00	-310.00	1.000	180.00	-191.69	Hold
6	10848.24	0.00	0.00	10834.70	-210.00	-310.00	0.000	0.00	-191.69	KOP: 12°/100' @ 10848.24' MD
7	11598.24	90.00	351.62	11312.16	262.37	-379.58	12.000	351.62	283.91	LP/Hold
8	11601.24	90.00	351.62	11312.16	265.33	-380.02	0.000	0.00	286.90	Drop: 2°/100'
9	11996.57	87.71	359.19	11320.06	659.00	-411.67	2.000	106.85	681.74	Hold
10	12220.78	87.71	359.19	11329.00	883.01	-414.83	0.000	0.00	905.55	Build: 2°/100'
11	12388.74	91.05	359.58	11330.81	1050.93	-416.63	2.000	6.62	1073.29	Hold
12	15375.61	91.05	359.58	11276.00	4037.21	-438.63	0.000	0.00	4055.84	Drop: 2°/100'
13	15460.02	89.36	359.58	11275.69	4121.62	-439.25	2.000	179.99	4140.14	Hold
14	17916.33	89.36	359.58	11303.00	6577.71	-457.33	0.000	0.00	6593.16	Build: 2°/100'
15	17994.20	90.92	359.58	11302.81	6655.57	-457.90	2.000	0.09	6670.92	Hold
16	19414.05	90.92	359.58	11280.00	8075.20	-468.29	0.000	0.00	8088.77	TD @ 19414.05' MD/11280.00' TVD

Advance Energy Partners, LLC

Dagger State Com 558H
Lea County, New Mexico
Job No. WT-21-067
Nabors X50
Plan 1.0

Aim Directional Service

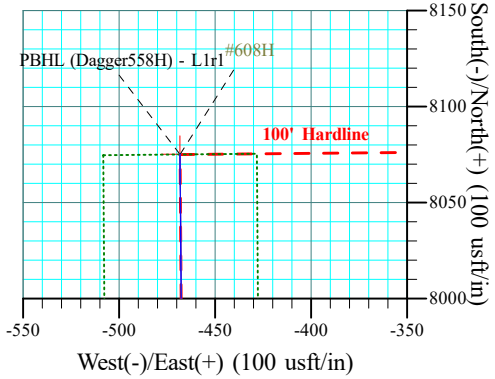
Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.06°

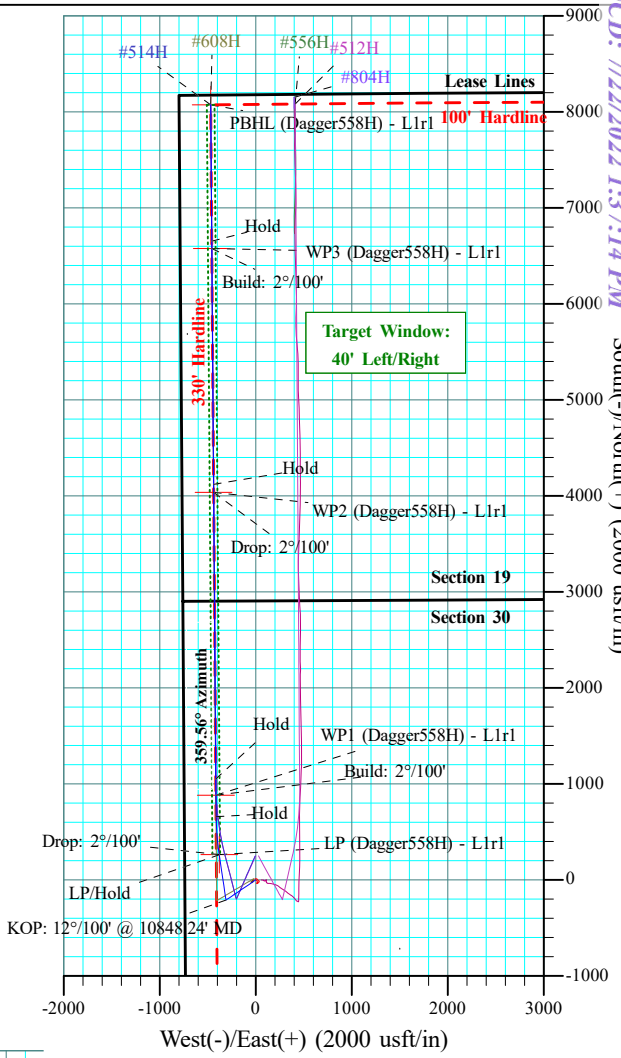
Magnetic Field
Strength: 47892.1nT
Dip Angle: 60.17°
Date: 7/20/2021
Model: MVHD

Magnetic North: 6.08° to Grid North

PROJECT DETAILS:	Lea County, New Mexico
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level
Depth Reference:	3815'GL+32.5'KB @ 3847.50usft

SITE DETAILS:	Dagger State Com 558H
Site Centre Northing:	527878.20
Easting:	762169.30
Positional Uncertainty:	0.00
Convergence:	0.38
Local North:	Grid





SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	
2	5200.00	0.00	0.00	5200.00	0.00	0.00	0.000	0.00	0.00	Build: 1°/100'
3	5626.27	4.26	235.89	5625.88	-8.89	-13.12	1.000	235.89	-8.11	Hold
4	10237.27	4.26	235.89	10224.12	-201.11	-296.88	0.000	0.00	-183.58	Drop: 2°/100'
5	10663.54	0.00	0.00	10650.00	-210.00	-310.00	1.000	180.00	-191.69	Hold
6	10848.24	0.00	0.00	10834.70	-210.00	-310.00	0.000	0.00	-191.69	KOP: 12°/100' @ 10848.24' MD
7	11598.24	90.00	351.62	11312.16	262.37	-379.58	12.000	351.62	283.91	LP/Hold
8	11601.24	90.00	351.62	11312.16	265.33	-380.02	0.000	0.00	286.90	Drop: 2°/100'
9	11996.57	87.71	359.19	11320.06	659.00	-411.67	2.000	106.85	681.74	Hold
10	12220.78	87.71	359.19	11329.00	883.01	-414.83	0.000	0.00	905.55	Build: 2°/100'
11	12388.74	91.05	359.58	11330.81	1050.93	-416.63	2.000	6.62	1073.29	Hold
12	15375.61	91.05	359.58	11276.00	4037.21	-438.63	0.000	0.00	4055.84	Drop: 2°/100'
13	15460.02	89.36	359.58	11275.69	4121.62	-439.25	2.000	179.99	4140.14	Hold
14	17916.33	89.36	359.58	11303.00	6577.71	-457.33	0.000	0.00	6593.16	Build: 2°/100'
15	17994.20	90.92	359.58	11302.81	6655.57	-457.90	2.000	0.09	6670.92	Hold
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DESIGN TARGET DETAILS

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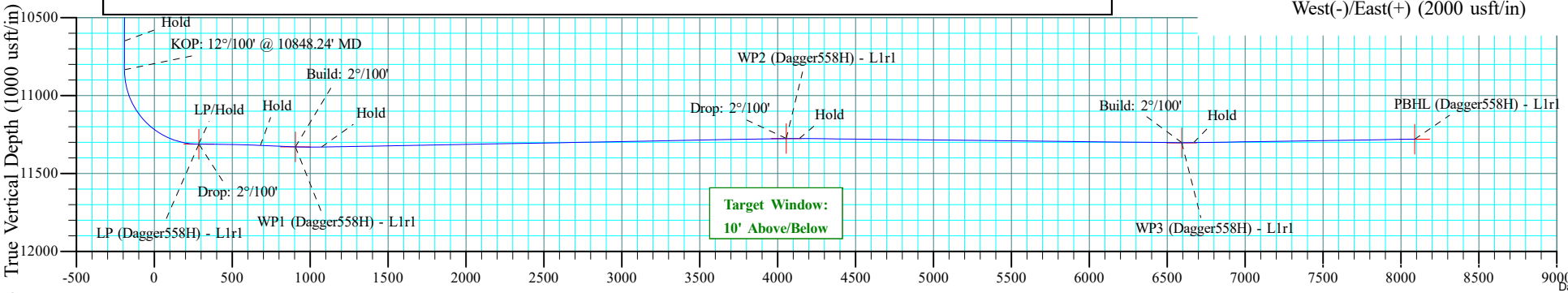
WP3 (Dagger558H) - L1r1	11303.00	6577.71	-457.33	534455.91	761711.97	32° 28' 2.117 N	103° 37' 7.612 W



*Note - Aim is not responsible for any collision issues against unknown offset wells.

Drawn By: TBR
Date Created: 5/26/2021
Date Revised: 7/13/2021
File: Advance Energy - Dagger State Com 558H Lateral 1r1 Plan 1.0.wpc

ADVANCE ENERGY PARTNERS

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Lateral 1r1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1.0	**Database:**	EDMRESTORED

Project Lea County, New Mexico

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

Site Dagger State Com 558H

Site Position:		**Northing:**	527,878.20 usft	**Latitude:**	32° 26' 57.001 N
From:	Map	**Easting:**	762,169.30 usft	**Longitude:**	103° 37' 2.788 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.38 °

Well #558H - Slot 558H

Well Position	**+N/-S**	0.00 usft	**Northing:**	527,878.20 usft	**Latitude:**	32° 26' 57.001 N
	+E/-W	0.00 usft	**Easting:**	762,169.30 usft	**Longitude:**	103° 37' 2.788 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,815.00 usft

Wellbore Lateral 1r1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	7/20/2021	6.45	60.17	47,892.074

Design Plan 1.0

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	356.68

Survey Tool Program **Date** 7/13/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,414.05	Plan 1.0 (Lateral 1r1)	B001Mb_MWD+HRGM	OWSG MWD + HRGM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.000	0.000	0.000
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.000	0.000	0.000
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.000	0.000	0.000
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.000	0.000	0.000
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.000	0.000	0.000
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.000	0.000	0.000
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.000	0.000	0.000
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.000	0.000	0.000
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.000	0.000	0.000

ADVANCE ENERGY PARTNERS

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Lateral 1r1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1.0	**Database:**	EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.000	0.000	0.000
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.000	0.000	0.000
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.000	0.000	0.000
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.000	0.000	0.000
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.000	0.000	0.000
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.000	0.000	0.000
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.000	0.000	0.000
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.000	0.000	0.000
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.000	0.000	0.000
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.000	0.000	0.000
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.000	0.000	0.000
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.000	0.000	0.000
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.000	0.000	0.000
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.000	0.000	0.000
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.000	0.000	0.000
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.000	0.000	0.000
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.000	0.000	0.000
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.000	0.000	0.000
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.000	0.000	0.000
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.000	0.000	0.000
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.000	0.000	0.000
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.000	0.000	0.000
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.000	0.000	0.000
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.000	0.000	0.000
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.000	0.000	0.000
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.000	0.000	0.000
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.000	0.000	0.000
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.000	0.000	0.000
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.000	0.000	0.000
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.000	0.000	0.000
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.000	0.000	0.000
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.000	0.000	0.000
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.000	0.000	0.000
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.000	0.000	0.000
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.000	0.000	0.000
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.000	0.000	0.000
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.000	0.000	0.000
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.000	0.000	0.000
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.000	0.000	0.000
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.000	0.000	0.000
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.000	0.000	0.000
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.000	0.000	0.000
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.000	0.000	0.000

Build: 1°/100'

ADVANCE ENERGY PARTNERS

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Lateral 1r1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1.0	**Database:**	EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	1.00	235.89	5,300.00	-0.49	-0.72	-0.45	1.000	1.000	0.000
5,400.00	2.00	235.89	5,399.96	-1.96	-2.89	-1.79	1.000	1.000	0.000
5,500.00	3.00	235.89	5,499.86	-4.40	-6.50	-4.02	1.000	1.000	0.000
5,600.00	4.00	235.89	5,599.68	-7.83	-11.56	-7.15	1.000	1.000	0.000
5,626.27	4.26	235.89	5,625.88	-8.89	-13.12	-8.11	1.000	1.000	0.000
Hold									
5,700.00	4.26	235.89	5,699.40	-11.96	-17.66	-10.92	0.000	0.000	0.000
5,800.00	4.26	235.89	5,799.13	-16.13	-23.81	-14.73	0.000	0.000	0.000
5,900.00	4.26	235.89	5,898.85	-20.30	-29.97	-18.53	0.000	0.000	0.000
6,000.00	4.26	235.89	5,998.57	-24.47	-36.12	-22.34	0.000	0.000	0.000
6,100.00	4.26	235.89	6,098.30	-28.64	-42.27	-26.14	0.000	0.000	0.000
6,200.00	4.26	235.89	6,198.02	-32.81	-48.43	-29.95	0.000	0.000	0.000
6,300.00	4.26	235.89	6,297.74	-36.98	-54.58	-33.75	0.000	0.000	0.000
6,400.00	4.26	235.89	6,397.47	-41.14	-60.74	-37.56	0.000	0.000	0.000
6,500.00	4.26	235.89	6,497.19	-45.31	-66.89	-41.36	0.000	0.000	0.000
6,600.00	4.26	235.89	6,596.91	-49.48	-73.04	-45.17	0.000	0.000	0.000
6,700.00	4.26	235.89	6,696.64	-53.65	-79.20	-48.97	0.000	0.000	0.000
6,800.00	4.26	235.89	6,796.36	-57.82	-85.35	-52.78	0.000	0.000	0.000
6,900.00	4.26	235.89	6,896.08	-61.99	-91.51	-56.58	0.000	0.000	0.000
7,000.00	4.26	235.89	6,995.81	-66.16	-97.66	-60.39	0.000	0.000	0.000
7,100.00	4.26	235.89	7,095.53	-70.33	-103.81	-64.20	0.000	0.000	0.000
7,200.00	4.26	235.89	7,195.25	-74.49	-109.97	-68.00	0.000	0.000	0.000
7,300.00	4.26	235.89	7,294.98	-78.66	-116.12	-71.81	0.000	0.000	0.000
7,400.00	4.26	235.89	7,394.70	-82.83	-122.28	-75.61	0.000	0.000	0.000
7,500.00	4.26	235.89	7,494.42	-87.00	-128.43	-79.42	0.000	0.000	0.000
7,600.00	4.26	235.89	7,594.15	-91.17	-134.58	-83.22	0.000	0.000	0.000
7,700.00	4.26	235.89	7,693.87	-95.34	-140.74	-87.03	0.000	0.000	0.000
7,800.00	4.26	235.89	7,793.59	-99.51	-146.89	-90.83	0.000	0.000	0.000
7,900.00	4.26	235.89	7,893.32	-103.68	-153.04	-94.64	0.000	0.000	0.000
8,000.00	4.26	235.89	7,993.04	-107.84	-159.20	-98.44	0.000	0.000	0.000
8,100.00	4.26	235.89	8,092.76	-112.01	-165.35	-102.25	0.000	0.000	0.000
8,200.00	4.26	235.89	8,192.49	-116.18	-171.51	-106.05	0.000	0.000	0.000
8,300.00	4.26	235.89	8,292.21	-120.35	-177.66	-109.86	0.000	0.000	0.000
8,400.00	4.26	235.89	8,391.93	-124.52	-183.81	-113.67	0.000	0.000	0.000
8,500.00	4.26	235.89	8,491.66	-128.69	-189.97	-117.47	0.000	0.000	0.000
8,600.00	4.26	235.89	8,591.38	-132.86	-196.12	-121.28	0.000	0.000	0.000
8,700.00	4.26	235.89	8,691.10	-137.03	-202.28	-125.08	0.000	0.000	0.000
8,800.00	4.26	235.89	8,790.83	-141.19	-208.43	-128.89	0.000	0.000	0.000
8,900.00	4.26	235.89	8,890.55	-145.36	-214.58	-132.69	0.000	0.000	0.000
9,000.00	4.26	235.89	8,990.27	-149.53	-220.74	-136.50	0.000	0.000	0.000
9,100.00	4.26	235.89	9,090.00	-153.70	-226.89	-140.30	0.000	0.000	0.000
9,200.00	4.26	235.89	9,189.72	-157.87	-233.05	-144.11	0.000	0.000	0.000
9,300.00	4.26	235.89	9,289.44	-162.04	-239.20	-147.91	0.000	0.000	0.000

ADVANCE ENERGY PARTNERS

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Lateral 1r1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1.0	**Database:**	EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	4.26	235.89	9,389.17	-166.21	-245.35	-151.72	0.000	0.000	0.000
9,500.00	4.26	235.89	9,488.89	-170.38	-251.51	-155.52	0.000	0.000	0.000
9,600.00	4.26	235.89	9,588.61	-174.54	-257.66	-159.33	0.000	0.000	0.000
9,700.00	4.26	235.89	9,688.34	-178.71	-263.81	-163.14	0.000	0.000	0.000
9,800.00	4.26	235.89	9,788.06	-182.88	-269.97	-166.94	0.000	0.000	0.000
9,900.00	4.26	235.89	9,887.78	-187.05	-276.12	-170.75	0.000	0.000	0.000
10,000.00	4.26	235.89	9,987.51	-191.22	-282.28	-174.55	0.000	0.000	0.000
10,100.00	4.26	235.89	10,087.23	-195.39	-288.43	-178.36	0.000	0.000	0.000
10,200.00	4.26	235.89	10,186.95	-199.56	-294.58	-182.16	0.000	0.000	0.000
10,237.27	4.26	235.89	10,224.12	-201.11	-296.88	-183.58	0.000	0.000	0.000
Drop: 2°/100'									
10,300.00	3.64	235.89	10,286.70	-203.53	-300.45	-185.79	1.000	-1.000	0.000
10,400.00	2.64	235.89	10,386.55	-206.60	-304.98	-188.59	1.000	-1.000	0.000
10,500.00	1.64	235.89	10,486.48	-208.69	-308.07	-190.50	1.000	-1.000	0.000
10,600.00	0.64	235.89	10,586.46	-209.80	-309.71	-191.51	1.000	-1.000	0.000
10,663.54	0.00	0.00	10,650.00	-210.00	-310.00	-191.69	1.000	-1.000	195.332
Hold									
10,700.00	0.00	0.00	10,686.46	-210.00	-310.00	-191.69	0.000	0.000	0.000
10,800.00	0.00	0.00	10,786.46	-210.00	-310.00	-191.69	0.000	0.000	0.000
10,848.24	0.00	0.00	10,834.70	-210.00	-310.00	-191.69	0.000	0.000	0.000
KOP: 12°/100' @ 10848.24' MD									
10,850.00	0.21	351.62	10,836.46	-210.00	-310.00	-191.69	11.989	11.989	0.000
10,875.00	3.21	351.62	10,861.44	-209.26	-310.11	-190.95	12.000	12.000	0.000
10,900.00	6.21	351.62	10,886.36	-207.23	-310.41	-188.90	12.000	12.000	0.000
10,925.00	9.21	351.62	10,911.13	-203.91	-310.90	-185.56	12.000	12.000	0.000
10,950.00	12.21	351.62	10,935.69	-199.31	-311.57	-180.93	12.000	12.000	0.000
10,975.00	15.21	351.62	10,959.97	-193.45	-312.44	-175.03	12.000	12.000	0.000
11,000.00	18.21	351.62	10,983.92	-186.34	-313.49	-167.87	12.000	12.000	0.000
11,025.00	21.21	351.62	11,007.45	-178.00	-314.71	-159.47	12.000	12.000	0.000
11,050.00	24.21	351.62	11,030.51	-168.45	-316.12	-149.86	12.000	12.000	0.000
11,075.00	27.21	351.62	11,053.03	-157.72	-317.70	-139.06	12.000	12.000	0.000
11,100.00	30.21	351.62	11,074.95	-145.84	-319.45	-127.10	12.000	12.000	0.000
11,125.00	33.21	351.62	11,096.22	-132.84	-321.37	-114.01	12.000	12.000	0.000
11,150.00	36.21	351.62	11,116.77	-118.76	-323.44	-99.83	12.000	12.000	0.000
11,175.00	39.21	351.62	11,136.54	-103.63	-325.67	-84.60	12.000	12.000	0.000
11,200.00	42.21	351.62	11,155.49	-87.50	-328.05	-68.36	12.000	12.000	0.000
11,225.00	45.21	351.62	11,173.56	-70.41	-330.56	-51.15	12.000	12.000	0.000
11,250.00	48.21	351.62	11,190.70	-52.41	-333.21	-33.03	12.000	12.000	0.000
11,275.00	51.21	351.62	11,206.86	-33.55	-335.99	-14.03	12.000	12.000	0.000
11,300.00	54.21	351.62	11,222.01	-13.87	-338.89	5.78	12.000	12.000	0.000
11,325.00	57.21	351.62	11,236.09	6.56	-341.90	26.35	12.000	12.000	0.000
11,350.00	60.21	351.62	11,249.07	27.69	-345.01	47.63	12.000	12.000	0.000
11,375.00	63.21	351.62	11,260.92	49.47	-348.22	69.55	12.000	12.000	0.000
11,400.00	66.21	351.62	11,271.60	71.83	-351.52	92.07	12.000	12.000	0.000

ADVANCE ENERGY PARTNERS

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Lateral 1r1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1.0	**Database:**	EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,425.00	69.21	351.62	11,281.08	94.71	-354.89	115.11	12.000	12.000	0.000
11,450.00	72.21	351.62	11,289.34	118.05	-358.33	138.61	12.000	12.000	0.000
11,475.00	75.21	351.62	11,296.35	141.79	-361.82	162.51	12.000	12.000	0.000
11,500.00	78.21	351.62	11,302.09	165.86	-365.37	186.74	12.000	12.000	0.000
11,525.00	81.21	351.62	11,306.56	190.19	-368.95	211.24	12.000	12.000	0.000
11,550.00	84.21	351.62	11,309.73	214.72	-372.57	235.94	12.000	12.000	0.000
11,575.00	87.21	351.62	11,311.60	239.38	-376.20	260.77	12.000	12.000	0.000
11,598.24	90.00	351.62	11,312.16	262.37	-379.58	283.91	12.000	12.000	0.000
LP/Hold									
11,601.24	90.00	351.62	11,312.16	265.33	-380.02	286.90	0.000	0.000	0.000
Drop: 2°/100'									
11,700.00	89.43	353.51	11,312.66	363.26	-392.80	385.40	2.000	-0.580	1.914
11,800.00	88.85	355.43	11,314.16	462.78	-402.44	485.31	2.000	-0.579	1.915
11,900.00	88.27	357.34	11,316.68	562.54	-408.75	585.27	2.000	-0.578	1.915
11,996.57	87.71	359.19	11,320.06	659.00	-411.67	681.74	2.000	-0.576	1.916
Hold									
12,000.00	87.71	359.19	11,320.20	662.43	-411.72	685.16	0.001	0.000	0.001
12,100.00	87.71	359.19	11,324.18	762.34	-413.13	784.98	0.000	0.000	0.000
12,200.00	87.71	359.19	11,328.17	862.25	-414.54	884.81	0.000	0.000	0.000
12,220.78	87.71	359.19	11,329.00	883.01	-414.83	905.55	0.000	0.000	0.000
Build: 2°/100'									
12,300.00	89.29	359.37	11,331.07	962.20	-415.82	984.66	2.000	1.987	0.230
12,388.74	91.05	359.58	11,330.81	1,050.93	-416.63	1,073.29	2.000	1.987	0.230
Hold									
12,400.00	91.05	359.58	11,330.60	1,062.19	-416.72	1,084.54	0.000	0.000	0.000
12,500.00	91.05	359.58	11,328.77	1,162.17	-417.45	1,184.39	0.000	0.000	0.000
12,600.00	91.05	359.58	11,326.93	1,262.15	-418.19	1,284.25	0.000	0.000	0.000
12,700.00	91.05	359.58	11,325.10	1,362.13	-418.93	1,384.10	0.000	0.000	0.000
12,800.00	91.05	359.58	11,323.26	1,462.11	-419.66	1,483.96	0.000	0.000	0.000
12,900.00	91.05	359.58	11,321.43	1,562.09	-420.40	1,583.81	0.000	0.000	0.000
13,000.00	91.05	359.58	11,319.59	1,662.07	-421.14	1,683.67	0.000	0.000	0.000
13,100.00	91.05	359.58	11,317.76	1,762.05	-421.87	1,783.52	0.000	0.000	0.000
13,200.00	91.05	359.58	11,315.92	1,862.03	-422.61	1,883.38	0.000	0.000	0.000
13,300.00	91.05	359.58	11,314.09	1,962.01	-423.34	1,983.23	0.000	0.000	0.000
13,400.00	91.05	359.58	11,312.25	2,061.99	-424.08	2,083.09	0.000	0.000	0.000
13,500.00	91.05	359.58	11,310.42	2,161.97	-424.82	2,182.94	0.000	0.000	0.000
13,600.00	91.05	359.58	11,308.58	2,261.95	-425.55	2,282.80	0.000	0.000	0.000
13,700.00	91.05	359.58	11,306.75	2,361.93	-426.29	2,382.65	0.000	0.000	0.000
13,800.00	91.05	359.58	11,304.91	2,461.91	-427.03	2,482.51	0.000	0.000	0.000
13,900.00	91.05	359.58	11,303.08	2,561.89	-427.76	2,582.37	0.000	0.000	0.000
14,000.00	91.05	359.58	11,301.24	2,661.87	-428.50	2,682.22	0.000	0.000	0.000
14,100.00	91.05	359.58	11,299.41	2,761.85	-429.24	2,782.08	0.000	0.000	0.000
14,200.00	91.05	359.58	11,297.57	2,861.83	-429.97	2,881.93	0.000	0.000	0.000
14,300.00	91.05	359.58	11,295.74	2,961.81	-430.71	2,981.79	0.000	0.000	0.000

ADVANCE ENERGY PARTNERS

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Lateral 1r1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1.0	**Database:**	EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,400.00	91.05	359.58	11,293.90	3,061.79	-431.45	3,081.64	0.000	0.000	0.000
14,500.00	91.05	359.58	11,292.07	3,161.77	-432.18	3,181.50	0.000	0.000	0.000
14,600.00	91.05	359.58	11,290.23	3,261.76	-432.92	3,281.35	0.000	0.000	0.000
14,700.00	91.05	359.58	11,288.40	3,361.74	-433.65	3,381.21	0.000	0.000	0.000
14,800.00	91.05	359.58	11,286.56	3,461.72	-434.39	3,481.06	0.000	0.000	0.000
14,900.00	91.05	359.58	11,284.73	3,561.70	-435.13	3,580.92	0.000	0.000	0.000
15,000.00	91.05	359.58	11,282.89	3,661.68	-435.86	3,680.77	0.000	0.000	0.000
15,100.00	91.05	359.58	11,281.06	3,761.66	-436.60	3,780.63	0.000	0.000	0.000
15,200.00	91.05	359.58	11,279.22	3,861.64	-437.34	3,880.48	0.000	0.000	0.000
15,300.00	91.05	359.58	11,277.39	3,961.62	-438.07	3,980.34	0.000	0.000	0.000
15,375.61	91.05	359.58	11,276.00	4,037.21	-438.63	4,055.84	0.000	0.000	0.000
Drop: 2°/100'									
15,400.00	90.56	359.58	11,275.66	4,061.60	-438.81	4,080.20	2.000	-2.000	0.000
15,460.02	89.36	359.58	11,275.69	4,121.62	-439.25	4,140.14	2.000	-2.000	0.000
Hold									
15,500.00	89.36	359.58	11,276.14	4,161.59	-439.55	4,180.06	0.000	0.000	0.000
15,600.00	89.36	359.58	11,277.25	4,261.59	-440.28	4,279.93	0.000	0.000	0.000
15,700.00	89.36	359.58	11,278.36	4,361.58	-441.02	4,379.80	0.000	0.000	0.000
15,800.00	89.36	359.58	11,279.47	4,461.57	-441.75	4,479.66	0.000	0.000	0.000
15,900.00	89.36	359.58	11,280.59	4,561.56	-442.49	4,579.53	0.000	0.000	0.000
16,000.00	89.36	359.58	11,281.70	4,661.55	-443.23	4,679.39	0.000	0.000	0.000
16,100.00	89.36	359.58	11,282.81	4,761.54	-443.96	4,779.26	0.000	0.000	0.000
16,200.00	89.36	359.58	11,283.92	4,861.53	-444.70	4,879.13	0.000	0.000	0.000
16,300.00	89.36	359.58	11,285.03	4,961.52	-445.43	4,978.99	0.000	0.000	0.000
16,400.00	89.36	359.58	11,286.14	5,061.51	-446.17	5,078.86	0.000	0.000	0.000
16,500.00	89.36	359.58	11,287.26	5,161.51	-446.91	5,178.72	0.000	0.000	0.000
16,600.00	89.36	359.58	11,288.37	5,261.50	-447.64	5,278.59	0.000	0.000	0.000
16,700.00	89.36	359.58	11,289.48	5,361.49	-448.38	5,378.46	0.000	0.000	0.000
16,800.00	89.36	359.58	11,290.59	5,461.48	-449.11	5,478.32	0.000	0.000	0.000
16,900.00	89.36	359.58	11,291.70	5,561.47	-449.85	5,578.19	0.000	0.000	0.000
17,000.00	89.36	359.58	11,292.81	5,661.46	-450.59	5,678.05	0.000	0.000	0.000
17,100.00	89.36	359.58	11,293.93	5,761.45	-451.32	5,777.92	0.000	0.000	0.000
17,200.00	89.36	359.58	11,295.04	5,861.44	-452.06	5,877.79	0.000	0.000	0.000
17,300.00	89.36	359.58	11,296.15	5,961.43	-452.79	5,977.65	0.000	0.000	0.000
17,400.00	89.36	359.58	11,297.26	6,061.43	-453.53	6,077.52	0.000	0.000	0.000
17,500.00	89.36	359.58	11,298.37	6,161.42	-454.27	6,177.38	0.000	0.000	0.000
17,600.00	89.36	359.58	11,299.48	6,261.41	-455.00	6,277.25	0.000	0.000	0.000
17,700.00	89.36	359.58	11,300.60	6,361.40	-455.74	6,377.12	0.000	0.000	0.000
17,800.00	89.36	359.58	11,301.71	6,461.39	-456.47	6,476.98	0.000	0.000	0.000
17,900.00	89.36	359.58	11,302.82	6,561.38	-457.21	6,576.85	0.000	0.000	0.000
17,916.33	89.36	359.58	11,303.00	6,577.71	-457.33	6,593.16	0.000	0.000	0.000
Build: 2°/100'									
17,994.20	90.92	359.58	11,302.81	6,655.57	-457.90	6,670.92	2.000	2.000	0.003
Hold									

ADVANCE ENERGY PARTNERS

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Lateral 1r1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1.0	**Database:**	EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
18,000.00	90.92	359.58	11,302.71	6,661.37	-457.94	6,676.71	0.000	0.000	0.000
18,100.00	90.92	359.58	11,301.11	6,761.36	-458.68	6,776.57	0.000	0.000	0.000
18,200.00	90.92	359.58	11,299.50	6,861.34	-459.41	6,876.43	0.000	0.000	0.000
18,300.00	90.92	359.58	11,297.90	6,961.33	-460.14	6,976.29	0.000	0.000	0.000
18,400.00	90.92	359.58	11,296.29	7,061.31	-460.87	7,076.15	0.000	0.000	0.000
18,500.00	90.92	359.58	11,294.68	7,161.30	-461.60	7,176.01	0.000	0.000	0.000
18,600.00	90.92	359.58	11,293.08	7,261.28	-462.33	7,275.87	0.000	0.000	0.000
18,700.00	90.92	359.58	11,291.47	7,361.26	-463.07	7,375.73	0.000	0.000	0.000
18,800.00	90.92	359.58	11,289.86	7,461.25	-463.80	7,475.59	0.000	0.000	0.000
18,900.00	90.92	359.58	11,288.26	7,561.23	-464.53	7,575.45	0.000	0.000	0.000
19,000.00	90.92	359.58	11,286.65	7,661.22	-465.26	7,675.30	0.000	0.000	0.000
19,100.00	90.92	359.58	11,285.04	7,761.20	-465.99	7,775.16	0.000	0.000	0.000
19,200.00	90.92	359.58	11,283.44	7,861.19	-466.72	7,875.02	0.000	0.000	0.000
19,300.00	90.92	359.58	11,281.83	7,961.17	-467.46	7,974.88	0.000	0.000	0.000
19,400.00	90.92	359.58	11,280.23	8,061.16	-468.19	8,074.74	0.000	0.000	0.000
19,414.05	90.92	359.58	11,280.00	8,075.20	-468.29	8,088.77	0.000	0.000	0.000
TD @ 19414.05' MD/11280.00' TVD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WP2 (Dagger558H) - - plan hits target center - Point	0.00	0.00	11,276.00	4,037.21	-438.63	531,915.41	761,730.67	32° 27' 36.978 N	103° 37' 7.592 W
PBHL (Dagger558H) - - plan hits target center - Point	0.00	0.01	11,280.00	8,075.20	-468.29	535,953.40	761,701.01	32° 28' 16.936 N	103° 37' 7.622 W
WP3 (Dagger558H) - - plan hits target center - Point	0.00	0.00	11,303.00	6,577.71	-457.33	534,455.91	761,711.97	32° 28' 2.117 N	103° 37' 7.612 W
LP (Dagger558H) - L1 - plan misses target center by 0.12usft at 11601.28usft MD (11312.16 TVD, 265.38 N, -380.03 E) - Point	0.00	0.01	11,312.10	265.39	-379.93	528,143.59	761,789.37	32° 26' 59.652 N	103° 37' 7.201 W
WP1 (Dagger558H) - - plan hits target center - Point	0.00	0.00	11,329.00	883.01	-414.83	528,761.21	761,754.47	32° 27' 5.766 N	103° 37' 7.560 W

ADVANCE ENERGY PARTNERS

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Lateral 1r1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1.0	**Database:**	EDMRESTORED

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5200	5200	0	0	Build: 1°/100'
5626	5626	-9	-13	Hold
10,237	10,224	-201	-297	Drop: 2°/100'
10,664	10,650	-210	-310	Hold
10,848	10,835	-210	-310	KOP: 12°/100' @ 10848.24' MD
11,598	11,312	262	-380	LP/Hold
11,601	11,312	265	-380	Drop: 2°/100'
11,997	11,320	659	-412	Hold
12,221	11,329	883	-415	Build: 2°/100'
12,389	11,331	1051	-417	Hold
15,376	11,276	4037	-439	Drop: 2°/100'
15,460	11,276	4122	-439	Hold
17,916	11,303	6578	-457	Build: 2°/100'
17,994	11,303	6656	-458	Hold
19,414	11,280	8075	-468	TD @ 19414.05' MD/11280.00' TVD

Checked By: _____ Approved By: _____ Date: _____

Advance Energy Partners, LLC

Dagger State Com 558H
Lea County, New Mexico
Job No. WT-21-067
Nabors X50
L1r1 Plan 1.0 Final PVA

Aim Directional Service

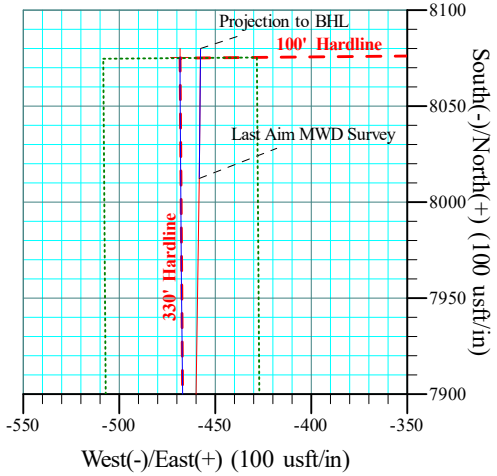
Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.06°

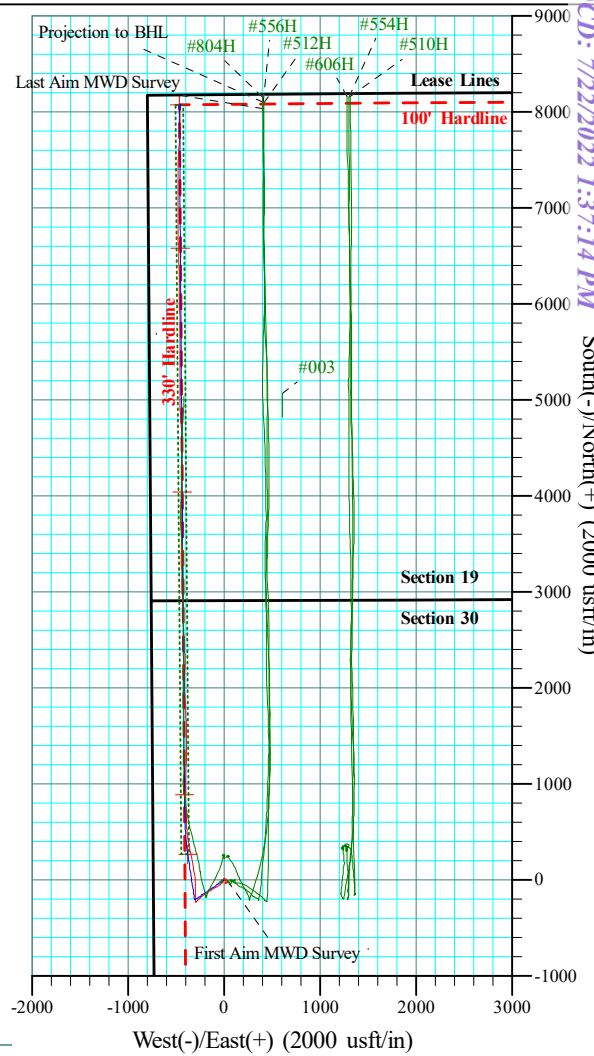
Magnetic Field
Strength: 47892.1nT
Dip Angle: 60.17°
Date: 7/20/2021
Model: MVHD

Magnetic North: 6.06° to Grid North

PROJECT DETAILS:	Lea County, New Mexico
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level
Depth Reference:	3815'GL+32.5'KB @ 3847.50usft

SITE DETAILS:	Dagger State Com 558H
Site Centre Northing:	527878.20
Easting:	762169.30
Positional Uncertainity:	0.00
Convergence:	0.38
Local North:	Grid



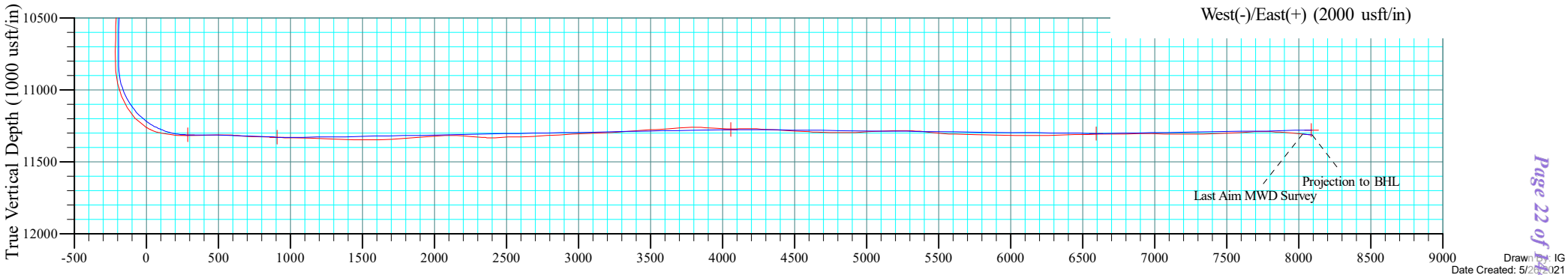


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	19407.00	83.96	0.52	11306.74	8012.39	-458.27	0.00	0.00	8025.48	Last Aim MWD Survey
2	19475.00	83.96	0.52	11313.90	8080.01	-457.66	0.00	0.00	8092.95	Projection to BHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (Dagger558H) - L1r1	11312.10	265.39	-379.93	528143.59	761789.37	32° 26' 59.652 N	103° 37' 7.201 W
PBHL (Dagger558H) - L1r1	11280.00	8075.20	-468.29	535953.40	761701.01	32° 28' 16.936 N	103° 37' 7.622 W
WP1 (Dagger558H) - L1r1	11329.00	883.01	-414.83	528761.21	761754.47	32° 27' 5.766 N	103° 37' 7.560 W
WP2 (Dagger558H) - L1r1	11276.00	4037.21	-438.63	531915.41	761730.67	32° 27' 36.978 N	103° 37' 7.592 W
WP3 (Dagger558H) - L1r1	11303.00	6577.71	-457.33	534455.91	761711.97	32° 28' 2.117 N	103° 37' 7.612 W



Drawn: IG
Date Created: 5/26/2021
Date Revised: 8/3/2021
File: Advance Energy - Dagger State Com 558H L1r1 Plan 1.0 Final PVA.wpc

Survey Reports

Dagger State Com 558H (WT-21-067)

2021-06-02 to 2021-08-02
Lea, New Mexico, US (32.45, -103.62)

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Aim MWD Surveys	**Survey Calculation Method:**	Minimum Curvature
Design:	Aim MWD Surveys	**Database:**	EDM 5000.1 Aim Database

Project Lea County, New Mexico

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

Site Dagger State Com 558H

Site Position:		**Northing:**	527,878.20 usft	**Latitude:**	32° 26' 57.001 N
From:	Map	**Easting:**	762,169.30 usft	**Longitude:**	103° 37' 2.788 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.38 °

Well #558H - Slot 558H

Well Position	**+N/-S**	0.00 usft	**Northing:**	527,878.20 usft	**Latitude:**	32° 26' 57.001 N
	+E/-W	0.00 usft	**Easting:**	762,169.30 usft	**Longitude:**	103° 37' 2.788 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,815.00 usft

Wellbore Aim MWD Surveys

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	6/3/2021	6.46	60.18	47,905.65997685

Design Aim MWD Surveys

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	356.68

Survey Program **Date** 8/3/2021

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
232.00	19,475.00	Aim MWD Surveys (Aim MWD Surveys)	B001Mb_MWD+HRGM	OWSG MWD + HRGM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232.00	1.63	128.78	231.97	-2.07	2.57	-2.21	0.70	0.70	0.00
First Aim MWD Survey									
326.00	1.85	128.78	325.93	-3.85	4.80	-4.13	0.23	0.23	0.00
419.00	2.07	119.81	418.87	-5.63	7.43	-6.05	0.41	0.24	-9.65
512.00	2.20	124.21	511.81	-7.47	10.36	-8.06	0.22	0.14	4.73
699.00	1.41	146.53	698.71	-11.41	14.60	-12.23	0.56	-0.42	11.94
792.00	1.54	152.42	791.68	-13.47	15.81	-14.36	0.21	0.14	6.33
886.00	2.15	168.77	885.64	-16.32	16.73	-17.26	0.85	0.65	17.39
979.00	0.70	168.33	978.60	-18.58	17.19	-19.55	1.56	-1.56	-0.47
1,165.00	1.19	193.55	1,164.58	-21.57	16.97	-22.52	0.34	0.26	13.56

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Aim MWD Surveys	**Survey Calculation Method:**	Minimum Curvature
Design:	Aim MWD Surveys	**Database:**	EDM 5000.1 Aim Database

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,348.00	2.11	213.68	1,347.50	-26.23	14.65	-27.03	0.59	0.50	11.00
1,438.00	1.27	224.49	1,437.46	-28.32	13.03	-29.02	0.99	-0.93	12.01
1,513.00	1.23	231.87	1,512.44	-29.41	11.82	-30.04	0.22	-0.05	9.84
1,618.00	0.84	207.17	1,617.43	-30.79	10.58	-31.35	0.56	-0.37	-23.52
1,707.00	0.70	166.92	1,706.42	-31.90	10.41	-32.45	0.61	-0.16	-45.22
1,797.00	0.92	150.48	1,796.41	-33.06	10.89	-33.64	0.35	0.24	-18.27
1,886.00	0.84	152.42	1,885.40	-34.26	11.54	-34.87	0.10	-0.09	2.18
1,976.00	0.84	164.37	1,975.39	-35.48	12.02	-36.12	0.19	0.00	13.28
2,065.00	0.84	164.81	2,064.38	-36.74	12.37	-37.39	0.01	0.00	0.49
2,155.00	0.66	181.16	2,154.37	-37.89	12.53	-38.56	0.31	-0.20	18.17
2,244.00	0.70	186.70	2,243.37	-38.95	12.46	-39.60	0.09	0.04	6.22
2,334.00	0.70	59.69	2,333.37	-39.21	12.87	-39.89	1.39	0.00	-141.12
2,423.00	2.24	47.56	2,422.33	-37.77	14.62	-38.55	1.76	1.73	-13.63
2,513.00	2.55	45.89	2,512.25	-35.19	17.36	-36.13	0.35	0.34	-1.86
2,602.00	2.15	54.16	2,601.18	-32.83	20.13	-33.94	0.59	-0.45	9.29
2,691.00	1.76	64.97	2,690.13	-31.27	22.72	-32.54	0.60	-0.44	12.15
2,781.00	2.11	68.92	2,780.08	-30.09	25.52	-31.52	0.42	0.39	4.39
2,870.00	2.02	55.91	2,869.02	-28.63	28.35	-30.22	0.54	-0.10	-14.62
2,960.00	2.15	40.36	2,958.96	-26.45	30.76	-28.19	0.64	0.14	-17.28
3,049.00	2.15	30.69	3,047.90	-23.74	32.69	-25.60	0.41	0.00	-10.87
3,139.00	2.42	18.38	3,137.83	-20.49	34.15	-22.43	0.62	0.30	-13.68
3,228.00	2.86	25.42	3,226.73	-16.70	35.70	-18.74	0.61	0.49	7.91
3,318.00	1.89	11.18	3,316.65	-13.21	36.95	-15.33	1.25	-1.08	-15.82
3,407.00	1.10	299.90	3,405.63	-11.35	36.49	-13.44	2.09	-0.89	-80.09
3,497.00	1.19	298.05	3,495.61	-10.48	34.92	-12.48	0.11	0.10	-2.06
3,676.00	1.49	300.43	3,674.56	-8.43	31.27	-10.22	0.17	0.17	1.33
3,765.00	1.63	310.45	3,763.53	-7.02	29.31	-8.70	0.34	0.16	11.26
3,855.00	1.76	315.37	3,853.49	-5.20	27.37	-6.78	0.22	0.14	5.47
3,944.00	1.71	325.04	3,942.45	-3.14	25.64	-4.62	0.33	-0.06	10.87
4,123.00	1.58	323.19	4,121.38	1.02	22.64	-0.29	0.08	-0.07	-1.03
4,302.00	2.02	306.05	4,300.29	4.85	18.61	3.77	0.39	0.25	-9.58
4,392.00	2.11	326.35	4,390.23	7.17	16.41	6.20	0.81	0.10	22.56
4,482.00	1.89	320.03	4,480.18	9.68	14.53	8.82	0.35	-0.24	-7.02
4,572.00	1.63	284.78	4,570.14	11.15	12.34	10.41	1.22	-0.29	-39.17
4,751.00	1.76	283.55	4,749.06	12.44	7.21	12.00	0.08	0.07	-0.69
4,930.00	1.71	281.79	4,927.98	13.63	1.92	13.50	0.04	-0.03	-0.98
5,019.00	1.27	262.11	5,016.95	13.77	-0.35	13.76	0.75	-0.49	-22.11
5,109.00	1.10	255.95	5,106.93	13.42	-2.18	13.52	0.24	-0.19	-6.84
5,288.00	1.05	247.08	5,285.90	12.36	-5.36	12.65	0.10	-0.03	-4.96
5,377.00	1.19	217.81	5,374.88	11.32	-6.67	11.68	0.65	0.16	-32.89
5,427.00	1.32	199.97	5,424.87	10.36	-7.19	10.76	0.82	0.26	-35.68
5,553.00	2.02	198.65	5,550.81	6.90	-8.40	7.37	0.56	0.56	-1.05
5,642.00	4.57	184.41	5,639.66	1.87	-9.17	2.40	2.99	2.87	-16.00

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Aim MWD Surveys	**Survey Calculation Method:**	Minimum Curvature
Design:	Aim MWD Surveys	**Database:**	EDM 5000.1 Aim Database

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,732.00	4.66	189.33	5,729.37	-5.31	-10.04	-4.72	0.45	0.10	5.47
5,822.00	4.62	189.60	5,819.07	-12.49	-11.24	-11.82	0.05	-0.04	0.30
5,912.00	4.66	187.57	5,908.78	-19.69	-12.32	-18.94	0.19	0.04	-2.26
6,001.00	4.66	223.26	5,997.50	-25.91	-15.28	-24.98	3.21	0.00	40.10
6,091.00	4.88	229.85	6,087.19	-31.04	-20.71	-29.79	0.66	0.24	7.32
6,180.00	4.70	231.08	6,175.88	-35.77	-26.44	-34.18	0.23	-0.20	1.38
6,270.00	5.14	231.61	6,265.55	-40.59	-32.47	-38.64	0.49	0.49	0.59
6,359.00	5.23	232.57	6,354.19	-45.53	-38.81	-43.21	0.14	0.10	1.08
6,449.00	5.23	234.86	6,443.81	-50.38	-45.42	-47.67	0.23	0.00	2.54
6,539.00	5.10	234.60	6,533.45	-55.06	-52.04	-51.96	0.15	-0.14	-0.29
6,629.00	5.01	235.74	6,623.10	-59.59	-58.55	-56.10	0.15	-0.10	1.27
6,718.00	4.79	237.76	6,711.77	-63.76	-64.90	-59.90	0.31	-0.25	2.27
6,808.00	4.79	236.79	6,801.46	-67.82	-71.23	-63.59	0.09	0.00	-1.08
6,897.00	5.01	241.63	6,890.13	-71.71	-77.75	-67.08	0.53	0.25	5.44
6,986.00	4.88	244.26	6,978.80	-75.20	-84.58	-70.17	0.29	-0.15	2.96
7,075.00	4.70	242.59	7,067.49	-78.52	-91.23	-73.10	0.26	-0.20	-1.88
7,165.00	4.35	239.61	7,157.21	-81.94	-97.45	-76.16	0.47	-0.39	-3.31
7,255.00	4.40	240.48	7,246.95	-85.37	-103.40	-79.24	0.09	0.06	0.97
7,344.00	4.31	239.52	7,335.69	-88.75	-109.25	-82.27	0.13	-0.10	-1.08
7,523.00	4.26	238.90	7,514.19	-95.60	-120.74	-88.44	0.04	-0.03	-0.35
7,613.00	4.26	236.97	7,603.94	-99.14	-126.40	-91.66	0.16	0.00	-2.14
7,703.00	4.22	234.07	7,693.69	-102.91	-131.89	-95.10	0.24	-0.04	-3.22
7,792.00	3.96	235.21	7,782.47	-106.58	-137.06	-98.47	0.31	-0.29	1.28
7,882.00	3.65	233.72	7,872.27	-110.05	-141.92	-101.65	0.36	-0.34	-1.66
7,972.00	3.56	229.67	7,962.09	-113.56	-146.36	-104.89	0.30	-0.10	-4.50
8,061.00	5.98	236.44	8,050.78	-117.91	-152.33	-108.89	2.79	2.72	7.61
8,151.00	6.29	237.41	8,140.26	-123.16	-160.39	-113.66	0.36	0.34	1.08
8,240.00	6.29	236.88	8,228.73	-128.45	-168.59	-118.47	0.07	0.00	-0.60
8,330.00	6.02	234.95	8,318.21	-133.85	-176.58	-123.40	0.38	-0.30	-2.14
8,419.00	6.02	237.58	8,406.72	-139.03	-184.34	-128.12	0.31	0.00	2.96
8,509.00	6.07	238.37	8,496.22	-144.06	-192.37	-132.67	0.11	0.06	0.88
8,599.00	5.89	238.37	8,585.73	-148.97	-200.36	-137.12	0.20	-0.20	0.00
8,688.00	5.71	237.67	8,674.27	-153.74	-207.99	-141.43	0.22	-0.20	-0.79
8,778.00	5.76	235.91	8,763.82	-158.66	-215.51	-145.92	0.20	0.06	-1.96
8,868.00	5.67	234.16	8,853.37	-163.80	-222.85	-150.62	0.22	-0.10	-1.94
8,957.00	5.49	234.16	8,941.95	-168.86	-229.87	-155.27	0.20	-0.20	0.00
9,047.00	4.92	231.96	9,031.58	-173.76	-236.40	-159.78	0.67	-0.63	-2.44
9,136.00	3.91	225.19	9,120.31	-178.25	-241.56	-163.97	1.28	-1.13	-7.61
9,226.00	3.21	223.26	9,210.14	-182.25	-245.46	-167.73	0.79	-0.78	-2.14
9,316.00	4.35	229.06	9,299.94	-186.32	-249.77	-171.55	1.33	1.27	6.44
9,405.00	4.35	230.82	9,388.69	-190.67	-254.93	-175.58	0.15	0.00	1.98
9,495.00	4.04	224.49	9,478.45	-195.09	-259.80	-179.71	0.62	-0.34	-7.03
9,585.00	4.00	224.75	9,568.23	-199.58	-264.23	-183.94	0.05	-0.04	0.29

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Aim MWD Surveys	**Survey Calculation Method:**	Minimum Curvature
Design:	Aim MWD Surveys	**Database:**	EDM 5000.1 Aim Database

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,674.00	3.78	226.16	9,657.02	-203.81	-268.53	-187.92	0.27	-0.25	1.58
9,764.00	3.52	227.65	9,746.84	-207.73	-272.72	-191.59	0.31	-0.29	1.66
9,854.00	3.08	222.38	9,836.69	-211.38	-276.39	-195.02	0.59	-0.49	-5.86
9,943.00	1.89	208.93	9,925.60	-214.43	-278.71	-197.93	1.48	-1.34	-15.11
10,033.00	1.49	204.10	10,015.56	-216.79	-279.91	-200.22	0.47	-0.44	-5.37
10,122.00	2.68	232.31	10,104.51	-219.12	-282.02	-202.42	1.73	1.34	31.70
10,212.00	3.12	238.99	10,194.39	-221.67	-285.79	-204.75	0.62	0.49	7.42
10,302.00	2.59	235.30	10,284.28	-224.09	-289.56	-206.95	0.62	-0.59	-4.10
10,392.00	2.29	232.31	10,374.20	-226.35	-292.65	-209.02	0.36	-0.33	-3.32
10,481.00	1.45	232.22	10,463.15	-228.12	-294.95	-210.66	0.94	-0.94	-0.10
10,571.00	1.05	217.37	10,553.13	-229.48	-296.35	-211.93	0.57	-0.44	-16.50
10,660.00	1.32	210.25	10,642.11	-231.01	-297.36	-213.40	0.34	0.30	-8.00
10,750.00	1.45	223.96	10,732.08	-232.73	-298.68	-215.04	0.39	0.14	15.23
10,888.00	3.38	357.80	10,870.01	-229.92	-300.05	-212.15	3.27	1.40	96.99
10,977.00	13.45	356.22	10,957.94	-216.93	-300.83	-199.15	11.32	11.31	-1.78
11,066.00	21.67	356.30	11,042.72	-190.16	-302.58	-172.32	9.24	9.24	0.09
11,157.00	31.47	3.34	11,124.03	-149.57	-302.28	-131.82	11.29	10.77	7.74
11,246.00	42.46	1.75	11,195.03	-96.19	-300.00	-78.65	12.39	12.35	-1.79
11,336.00	56.00	355.43	11,253.70	-28.28	-302.05	-10.74	15.94	15.04	-7.02
11,425.00	72.40	352.44	11,292.31	51.10	-310.63	69.00	18.67	18.43	-3.36
11,457.00	79.91	351.56	11,299.97	81.84	-314.96	99.95	23.62	23.47	-2.75
11,547.00	82.33	349.10	11,313.86	169.49	-329.90	188.31	3.81	2.69	-2.73
11,636.00	91.69	348.48	11,318.50	256.57	-347.16	276.25	10.54	10.52	-0.70
11,726.00	92.18	349.89	11,315.46	344.92	-364.04	365.42	1.66	0.54	1.57
11,816.00	90.55	351.21	11,313.31	433.67	-378.81	454.88	2.33	-1.81	1.47
11,905.00	89.58	353.58	11,313.21	521.88	-390.59	543.62	2.88	-1.09	2.66
11,995.00	84.09	359.47	11,318.18	611.50	-396.04	633.41	8.94	-6.10	6.54
12,084.00	88.00	359.12	11,324.32	700.27	-397.13	722.09	4.41	4.39	-0.39
12,174.00	87.96	359.12	11,327.49	790.20	-398.52	811.95	0.04	-0.04	0.00
12,263.00	87.78	359.20	11,330.80	879.13	-399.82	900.81	0.22	-0.20	0.09
12,353.00	89.67	0.17	11,332.81	969.10	-400.31	990.66	2.36	2.10	1.08
12,442.00	87.91	0.61	11,334.68	1,058.07	-399.71	1,079.45	2.04	-1.98	0.49
12,532.00	87.65	1.14	11,338.17	1,147.99	-398.33	1,169.14	0.66	-0.29	0.59
12,621.00	87.96	1.31	11,341.58	1,236.91	-396.43	1,257.79	0.40	0.35	0.19
12,711.00	88.35	1.84	11,344.48	1,326.83	-393.96	1,347.42	0.73	0.43	0.59
12,801.00	89.10	359.64	11,346.48	1,416.79	-392.80	1,437.16	2.58	0.83	-2.44
12,890.00	88.88	359.82	11,348.05	1,505.78	-393.22	1,526.02	0.32	-0.25	0.20
12,980.00	91.60	358.33	11,347.67	1,595.75	-394.67	1,615.93	3.45	3.02	-1.66
13,069.00	93.27	356.48	11,343.89	1,684.57	-398.70	1,704.84	2.80	1.88	-2.08
13,159.00	94.55	357.45	11,337.75	1,774.24	-403.45	1,794.62	1.78	1.42	1.08
13,249.00	95.34	357.27	11,330.00	1,863.81	-407.58	1,884.28	0.90	0.88	-0.20
13,338.00	93.58	357.01	11,323.07	1,952.42	-412.01	1,973.01	2.00	-1.98	-0.29
13,428.00	92.40	359.91	11,318.38	2,042.26	-414.42	2,062.83	3.47	-1.31	3.22
13,517.00	87.16	1.23	11,318.72	2,131.22	-413.54	2,151.59	6.07	-5.89	1.48

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Aim MWD Surveys	**Survey Calculation Method:**	Minimum Curvature
Design:	Aim MWD Surveys	**Database:**	EDM 5000.1 Aim Database

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,607.00	86.15	1.75	11,323.97	2,221.03	-411.20	2,241.12	1.26	-1.12	0.58
13,697.00	85.58	359.12	11,330.46	2,310.79	-410.52	2,330.68	2.98	-0.63	-2.92
13,786.00	92.00	355.69	11,332.34	2,399.62	-414.55	2,419.60	8.18	7.21	-3.85
13,876.00	92.35	356.57	11,328.93	2,489.35	-420.62	2,509.53	1.05	0.39	0.98
13,966.00	91.82	358.15	11,325.65	2,579.19	-424.76	2,599.46	1.85	-0.59	1.76
14,055.00	92.79	358.15	11,322.07	2,668.07	-427.63	2,688.35	1.09	1.09	0.00
14,145.00	92.66	357.62	11,317.79	2,757.90	-430.95	2,778.23	0.61	-0.14	-0.59
14,235.00	93.67	357.18	11,312.82	2,847.67	-435.02	2,868.09	1.22	1.12	-0.49
14,325.00	92.62	359.03	11,307.89	2,937.48	-438.00	2,957.92	2.36	-1.17	2.06
14,415.00	91.91	358.68	11,304.33	3,027.39	-439.79	3,047.78	0.88	-0.79	-0.39
14,504.00	91.60	357.80	11,301.60	3,116.31	-442.52	3,136.71	1.05	-0.35	-0.99
14,594.00	93.27	357.89	11,297.78	3,206.16	-445.91	3,226.60	1.86	1.86	0.10
14,684.00	94.15	357.62	11,291.96	3,295.90	-449.42	3,316.40	1.02	0.98	-0.30
14,773.00	95.52	0.08	11,284.45	3,384.56	-451.21	3,405.01	3.16	1.54	2.76
14,863.00	93.01	1.58	11,277.76	3,474.29	-449.90	3,494.52	3.25	-2.79	1.67
14,953.00	93.05	0.96	11,273.00	3,564.14	-447.91	3,584.10	0.69	0.04	-0.69
15,042.00	95.47	1.31	11,266.39	3,652.87	-446.15	3,672.58	2.75	2.72	0.39
15,132.00	91.16	0.79	11,261.19	3,742.69	-444.51	3,762.15	4.82	-4.79	-0.58
15,221.00	87.87	1.84	11,261.94	3,831.65	-442.47	3,850.84	3.88	-3.70	1.18
15,311.00	85.80	0.87	11,266.91	3,921.48	-440.34	3,940.40	2.54	-2.30	-1.08
15,401.00	89.63	359.91	11,270.50	4,011.39	-439.73	4,030.12	4.39	4.26	-1.07
15,490.00	91.30	0.17	11,269.78	4,100.38	-439.67	4,118.96	1.90	1.88	0.29
15,580.00	88.26	0.96	11,270.12	4,190.36	-438.78	4,208.74	3.49	-3.38	0.88
15,669.00	86.29	359.91	11,274.35	4,279.25	-438.11	4,297.44	2.51	-2.21	-1.18
15,759.00	87.43	359.47	11,279.28	4,369.12	-438.59	4,387.18	1.36	1.27	-0.49
15,848.00	87.12	359.20	11,283.52	4,458.01	-439.62	4,475.99	0.46	-0.35	-0.30
15,938.00	85.85	358.85	11,289.03	4,547.83	-441.15	4,565.74	1.46	-1.41	-0.39
16,028.00	88.04	357.53	11,293.83	4,637.64	-443.99	4,655.57	2.84	2.43	-1.47
16,117.00	88.22	355.51	11,296.73	4,726.43	-449.39	4,744.52	2.28	0.20	-2.27
16,207.00	90.07	356.57	11,298.08	4,816.20	-455.60	4,834.50	2.37	2.06	1.18
16,296.00	92.84	358.59	11,295.82	4,905.08	-459.36	4,923.45	3.85	3.11	2.27
16,385.00	93.89	0.96	11,290.59	4,993.92	-459.71	5,012.16	2.91	1.18	2.66
16,475.00	91.30	0.43	11,286.52	5,083.81	-458.62	5,101.84	2.94	-2.88	-0.59
16,564.00	91.43	358.94	11,284.40	5,172.78	-459.11	5,190.69	1.68	0.15	-1.67
16,654.00	88.97	0.17	11,284.08	5,262.77	-459.81	5,280.56	3.06	-2.73	1.37
16,743.00	86.15	0.44	11,287.87	5,351.68	-459.34	5,369.30	3.18	-3.17	0.30
16,833.00	83.25	0.17	11,296.18	5,441.28	-458.86	5,458.72	3.24	-3.22	-0.30
16,922.00	85.89	0.43	11,304.61	5,529.87	-458.39	5,547.14	2.98	2.97	0.29
17,012.00	88.66	359.03	11,308.88	5,619.76	-458.82	5,636.90	3.45	3.08	-1.56
17,102.00	88.66	358.41	11,310.99	5,709.71	-460.83	5,726.82	0.69	0.00	-0.69
17,191.00	89.54	358.94	11,312.39	5,798.68	-462.89	5,815.75	1.15	0.99	0.60
17,281.00	88.66	357.97	11,313.80	5,888.63	-465.31	5,905.69	1.46	-0.98	-1.08
17,371.00	89.19	359.03	11,315.49	5,978.58	-467.67	5,995.63	1.32	0.59	1.18

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	**Local Co-ordinate Reference:**	Well #558H - Slot 558H
Project:	Lea County, New Mexico	**TVD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Site:	Dagger State Com 558H	**MD Reference:**	3815'GL+32.5'KB @ 3847.50usft
Well:	#558H	**North Reference:**	Grid
Wellbore:	Aim MWD Surveys	**Survey Calculation Method:**	Minimum Curvature
Design:	Aim MWD Surveys	**Database:**	EDM 5000.1 Aim Database

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,460.00	89.67	359.47	11,316.37	6,067.57	-468.83	6,084.54	0.73	0.54	0.49
17,549.00	90.24	0.17	11,316.44	6,156.57	-469.11	6,173.40	1.01	0.64	0.79
17,639.00	91.21	359.38	11,315.31	6,246.56	-469.47	6,263.26	1.39	1.08	-0.88
17,729.00	91.47	359.03	11,313.20	6,336.52	-470.71	6,353.15	0.48	0.29	-0.39
17,818.00	91.12	358.15	11,311.19	6,425.47	-472.90	6,442.08	1.06	-0.39	-0.99
17,908.00	91.12	358.77	11,309.43	6,515.42	-475.32	6,532.02	0.69	0.00	0.69
17,997.00	91.38	359.03	11,307.49	6,604.39	-477.03	6,620.93	0.41	0.29	0.29
18,087.00	90.73	357.71	11,305.83	6,694.33	-479.59	6,710.87	1.63	-0.72	-1.47
18,177.00	90.15	359.73	11,305.14	6,784.30	-481.60	6,800.81	2.34	-0.64	2.24
18,266.00	90.15	1.40	11,304.91	6,873.29	-480.72	6,889.60	1.88	0.00	1.88
18,355.00	89.76	0.79	11,304.98	6,962.28	-479.02	6,978.33	0.81	-0.44	-0.69
18,445.00	89.98	0.00	11,305.18	7,052.27	-478.40	7,068.14	0.91	0.24	-0.88
18,534.00	89.76	358.06	11,305.38	7,141.26	-479.91	7,157.06	2.19	-0.25	-2.18
18,624.00	89.54	358.24	11,305.93	7,231.21	-482.81	7,247.03	0.32	-0.24	0.20
18,714.00	90.90	359.47	11,305.59	7,321.19	-484.61	7,336.96	2.04	1.51	1.37
18,803.00	91.56	0.61	11,303.68	7,410.16	-484.55	7,425.79	1.48	0.74	1.28
18,893.00	92.00	3.07	11,300.88	7,500.07	-481.66	7,515.37	2.78	0.49	2.73
18,982.00	93.27	4.74	11,296.79	7,588.76	-475.61	7,603.57	2.36	1.43	1.88
19,072.00	93.58	5.09	11,291.41	7,678.27	-467.91	7,692.48	0.52	0.34	0.39
19,161.00	88.44	1.75	11,289.84	7,767.05	-462.61	7,780.81	6.89	-5.78	-3.75
19,251.00	86.07	0.79	11,294.15	7,856.92	-460.61	7,870.41	2.84	-2.63	-1.07
19,340.00	85.58	1.05	11,300.63	7,945.67	-459.19	7,958.93	0.62	-0.55	0.29
19,407.00	83.96	0.52	11,306.74	8,012.39	-458.27	8,025.48	2.54	-2.42	-0.79
Last Aim MWD Survey									
19,475.00	83.96	0.52	11,313.90	8,080.01	-457.66	8,092.95	0.00	0.00	0.00
Projection to BHL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
232.00	231.97	-2.07	2.57	First Aim MWD Survey
19,407.00	11,306.74	8,012.39	-458.27	Last Aim MWD Survey
19,475.00	11,313.90	8,080.01	-457.66	Projection to BHL

BHA Reports

Dagger State Com 558H (WT-21-067)

2021-06-02 to 2021-08-02
Lea, New Mexico, US (32.45, -103.62)

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #1 - BHA #1 (17.5" Surface) (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	8.00	**Date In**	2021-06-02 16:45	**Downhole Hours**	18.25
Lobe/Stage	7/8, 5.9	**Depth In (ft)**	120.00	**Drilling/Circulating Hours**	10.67
Bend Angle	1.75	**Date Out**	2021-06-03 11:00	**Drilling Hours**	9.42
Speed (rev/gal)	0.15	**Depth Out (ft)**	1579.00	**Circulating Hours**	1.25
Wear Pad OD (in)	8.313	**Distance Slid (ft)**	125.00	**Sliding Hours**	1.58
Incident	No	**Distance Rotated (ft)**	1334.00	**Rotating Hours**	7.83
Motor Post Run/Notes		**% Distance Sliding**	8.57%	**% Hours Sliding**	16.81%
Average Total ROP (ft/h)	154.94	**% Distance Rotating**	91.43%	**% Hours Rotating**	83.19%
Average Slide ROP (ft/h)	78.95	**BHA Objective**			
Average Rotating ROP (ft/h)	170.30	Drill 17.5 Surface			
Notes: N/A					
Bit Details					
OD (in)	17.500				
Vendor	Baker	**POOH Reason/Notes**			
Nozzles	9x12's	Total Depth/Casing Point			
Total Flow Area (in²)	0.994				
Bit Distances		**Incident Notes**			
Bit To Survey (bit to survey): 66.00 ft		**Directional:**			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	1-3	**Directional:** 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 2			
Notes: Chipped / Broken cutters on Shoulder 1/4" Underguage					
MWD					
Max Downhole Temp (ºF)	N/A				

Mud Properties		Parameters			
Type	Water Based	**Flow Rate (gpm)**	700.00 - 800.00	**Motor RPM**	40.00 - 160.00
WT	10.30	**On Bottom Pressure (psi)**	1300.00 - 2500.00	**Surface RPM**	60.00 - 80.00
VIS	38.00	**Off Bottom Pressure (psi)**	1000.00 - 1600.00	**Rotating WOB (klbs)**	12.00 - 30.00
PV	1.00	**Stall Pressure (psi)**	0.00	**Sliding WOB (klbs)**	18.00 - 25.00
YP	3.00	**Stalls**	0	**Temp (ºF)**	90.00 - 100.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *T606KS*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *0.40*, Size (in): *17.50*	Baker	5311435	6 5/8" Reg Pin			17.500		1.50	1.50
Mud Motor Description: *8'' 7/8 5.9 FXD 1.75° w/ 12'' STAB*, Size (in): *8.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5.9*	Butch's	BDT-800-002	6 5/8" Reg Box	6 5/8" Reg Box		8.000		37.06	38.56
Stabilizer Description: *12" NT Stabilizer*	JAO	JAO 12379	6 5/8" Reg Box	6 5/8" Reg Pin	3.000	8.250		6.84	45.40
UBHO Sub Description: *UBHO Sub*, Material: *Non-Magnetic*	AIM	800613	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.000		3.00	48.40
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY80013MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.25	78.65
Drill Collar Description: *NMDC (Spacer)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY800009MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.21	108.86
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD14829	EverDrlg54 Box	6 5/8" Reg Pin	2.750	8.000		3.17	112.03

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #2 - BHA #2 - Intermediate 12.25" (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	8.00	**Date In**	2021-06-04 04:45	**Downhole Hours**	33.50
Lobe/Stage	7/8, 5.9	**Depth In (ft)**	1579.00	**Drilling/Circulating Hours**	20.58
Bend Angle	1.75	**Date Out**	2021-06-05 14:15	**Drilling Hours**	17.92
Speed (rev/gal)	0.15	**Depth Out (ft)**	5493.00	**Circulating Hours**	2.67
Wear Pad OD (in)	8.313	**Distance Slid (ft)**	193.00	**Sliding Hours**	3.92
Incident	No	**Distance Rotated (ft)**	3721.00	**Rotating Hours**	14.00
Motor Post Run/Notes		**% Distance Sliding**	4.93%	**% Hours Sliding**	21.86%
Average Total ROP (ft/h)	218.46	**% Distance Rotating**	95.07%	**% Hours Rotating**	78.14%
Average Slide ROP (ft/h)	49.28	**BHA Objective**			
Average Rotating ROP (ft/h)	265.79	Drill 12.25" Intermediate section			
Notes: N/A					

Bit Details	
OD (in)	12.250
Vendor	REED
Nozzles	6 x 16's
Total Flow Area (in²)	1.178

POOH Reason/Notes

Total Depth/Casing Point

Bit Distances
Bit To Survey (bit to survey): 66.00 ft

Incident Notes

Directional:

MWD:

Bit Post Run/Notes	
Dull Grading	1/2
Notes: Chipped Cutters on Gauge , 1/8" under guage	

Comments

Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 3 Runs

MWD	
Max Downhole Temp (ºF)	N/A

Mud Properties		Parameters			
Type	Water Based	**Flow Rate (gpm)**	895.00 - 896.00	**Motor RPM**	40.00 - 160.00
WT	10.40	**On Bottom Pressure (psi)**	2300.00 - 3250.00	**Surface RPM**	70.00 - 70.00
VIS	31.00	**Off Bottom Pressure (psi)**	1850.00 - 2300.00	**Rotating WOB (klbs)**	50.00 - 65.00
PV	1.00	**Stall Pressure (psi)**	1330.00	**Sliding WOB (klbs)**	15.00 - 30.00
YP	3.00	**Stalls**	0	**Temp (ºF)**	107.00 - 129.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *0.40*, Size (in): *12.25*	REED	A265307	6 5/8" Reg Pin			12.250		1.50	1.50
Mud Motor Description: *8'' 7/8 5.9 FXD 1.75° w/ 12'' STAB*, Size (in): *8.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5.9*	Butch's	BDT-800-002	6 5/8" Reg Box	6 5/8" Reg Box		8.000		37.06	38.56
Stabilizer Description: *12" NT Stabilizer*	JAO	JAO 12379	6 5/8" Reg Box	6 5/8" Reg Pin	3.000	8.250		6.84	45.40
UBHO Sub Description: *UBHO Sub*, Material: *Non-Magnetic*	AIM	800613	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.000		3.00	48.40
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY80013MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.25	78.65
Drill Collar Description: *NMDC (Spacer)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY800009MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.21	108.86
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD14829	EverDrlg54 Box	6 5/8" Reg Pin	2.750	8.000		3.17	112.03

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #3 - Intermediate 8.75" (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	**Date In**	2021-07-16 18:45	**Downhole Hours**	45.00
Lobe/Stage	7/8, 8.5	**Depth In (ft)**	5493.00	**Drilling/Circulating Hours**	27.83
Bend Angle	1.75	**Date Out**	2021-07-18 15:45	**Drilling Hours**	23.08
Speed (rev/gal)	0.26	**Depth Out (ft)**	10825.00	**Circulating Hours**	4.75
Wear Pad OD (in)	7.250	**Distance Slid (ft)**	85.00	**Sliding Hours**	1.17
Incident	No	**Distance Rotated (ft)**	5247.00	**Rotating Hours**	21.92
Motor Post Run/Notes		**% Distance Sliding**	1.59%	**% Hours Sliding**	5.05%
Average Total ROP (ft/h)	230.99	**% Distance Rotating**	98.41%	**% Hours Rotating**	94.95%
Average Slide ROP (ft/h)	72.86	**BHA Objective**			
Average Rotating ROP (ft/h)	239.41	DRILL TO KOP			
Notes: Good Motor Run					
Bit Details					
OD (in)	8.750				
Vendor	REED	**POOH Reason/Notes**			
Nozzles	6x16's	**Change Bottom Hole Assembly:** N/A			
Total Flow Area (in²)	1.178				
Bit Distances		**Incident Notes**			
Bit To Survey: 65.00 ft, **Gamma:** 50.00 ft		**Directional:** N/A			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	1-3	**Directional:** Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0			
Notes: 1-3					
MWD					
Max Downhole Temp (ºF)	N/A				

Mud Properties		Parameters			
Type	Water Based	**Flow Rate (gpm)**	670.00 - 700.00	**Motor RPM**	169.00 - 182.00
WT	9.20	**On Bottom Pressure (psi)**	2100.00 - 2500.00	**Surface RPM**	30.00 - 30.00
VIS	27.00	**Off Bottom Pressure (psi)**	1800.00 - 1900.00	**Rotating WOB (klbs)**	30.00 - 30.00
PV	1.00	**Stall Pressure (psi)**	0.00	**Sliding WOB (klbs)**	18.00 - 30.00
YP	3.00	**Stalls**	0	**Temp (ºF)**	120.00 - 130.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66-AZ2*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280186	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ 8.5'' STAB*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700007	4 1/2" IF Box	4 1/2" Reg Box		7.000		35.10	36.10
Stabilizer Description: *8.5" Stabilizer*	JA	86989	4 1/2" IF Box	4 1/2" IF Pin	2.313	6.500		5.25	41.35
UBHO Sub Description: *UBHO DAO*, Material: *Non-Magnetic*	AIM	675361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	43.61
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-003	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.625		30.56	74.17
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	104.55
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	107.55
HWDP Description: *13 STANDS HWDP*, Type: *Slick*	RIG		EverDrlg54 Box	EverDrlg54 Pin	2.875	5.500		1213.05	1320.60

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #4 - 8.75" CURVE (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	**Date In**	2021-07-18 17:15	**Downhole Hours**	35.50
Lobe/Stage	7/8, 5.0	**Depth In (ft)**	10825.00	**Drilling/Circulating Hours**	2.50
Bend Angle	2.12	**Date Out**	2021-07-20 04:45	**Drilling Hours**	1.50
Speed (rev/gal)	0.26	**Depth Out (ft)**	10852.00	**Circulating Hours**	1.00
Wear Pad OD (in)	7.000	**Distance Slid (ft)**	27.00	**Sliding Hours**	1.50
Incident	Yes	**Distance Rotated (ft)**	0.00	**Rotating Hours**	0.00
Motor Post Run/Notes		**% Distance Sliding**	100.00%	**% Hours Sliding**	100.00%
Average Total ROP (ft/h)	18.00	**% Distance Rotating**	0.00%	**% Hours Rotating**	0.00%
Average Slide ROP (ft/h)	18.00	**BHA Objective**			
Average Rotating ROP (ft/h)	0.00	BUILD CURVE			
Notes: Motor drained fine. No visible damage.					
Bit Details					
OD (in)	8.750				
Vendor	Ulterra	**POOH Reason/Notes**			
Nozzles	6x15's	**Downhole Motor Incident:** N/A			
Total Flow Area (in²)	1.035				
Bit Distances		**Incident Notes**			
Bit To Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft		**Directional:** MOTOR STALLED MULTIPLE TIMES			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	0	**Directional:** Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2			
Notes: 0					
MWD					
Max Downhole Temp (ºF)	N/A				

Mud Properties		Parameters			
Type	Water Based	**Flow Rate (gpm)**	600.00 - 600.00	**Motor RPM**	143.00 - 156.00
WT	9.20	**On Bottom Pressure (psi)**	1500.00 - 1500.00	**Surface RPM**	0.00 - 0.00
VIS	29.00	**Off Bottom Pressure (psi)**	1200.00 - 1200.00	**Rotating WOB (klbs)**	0.00 - 0.00
PV	2.00	**Stall Pressure (psi)**	1180.03	**Sliding WOB (klbs)**	40.00 - 40.00
YP	3.00	**Stalls**	5	**Temp (ºF)**	123.00 - 130.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	54850	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 5.0 FXD 2.12°SLICK*, Size (in): *7.00*, Bend Angle (°): *2.12*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	700-40S-001	4 1/2" IF Box	4 1/2" Reg Box		7.000		25.70	26.70
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1005						31.34	58.04
Battery Description: *Resistivity Battery*	BENCHTREE	B6008X						17.22	75.26
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	105.64
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	108.64

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #5 - 8.75" CURVE (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	**Date In**	2021-07-20 06:15	**Downhole Hours**	25.50
Lobe/Stage	7/8, 5.0	**Depth In (ft)**	10852.00	**Drilling/Circulating Hours**	7.50
Bend Angle	2.12	**Date Out**	2021-07-21 07:45	**Drilling Hours**	7.08
Speed (rev/gal)	0.26	**Depth Out (ft)**	11158.00	**Circulating Hours**	0.42
Wear Pad OD (in)	7.000	**Distance Slid (ft)**	306.00	**Sliding Hours**	7.08
Incident	Yes	**Distance Rotated (ft)**	0.00	**Rotating Hours**	0.00
Motor Post Run/Notes		**% Distance Sliding**	100.00%	**% Hours Sliding**	100.00%
Average Total ROP (ft/h)	43.20	**% Distance Rotating**	0.00%	**% Hours Rotating**	0.00%
Average Slide ROP (ft/h)	43.20	**BHA Objective**			
Average Rotating ROP (ft/h)	0.00	BUILD CURVE			
Notes: STALLING & WEAK ON BOTTOM, MOTOR WAS DRY ON SURFACE. NO VISIBLE DAMAGE					
Bit Details					
OD (in)	8.750				
Vendor	Ulterra	**POOH Reason/Notes**			
Nozzles	6x15's	**Build Rate:** N/A			
Total Flow Area (in²)	1.035				
Bit Distances		**Incident Notes**			
Bit To Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft		**Directional:** WEAK MOTOR, MULTIPLE STALLS, BUILD RATES FELL OFF, BIT WAS GREEN			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	0-1	**Directional:** Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2			
Notes: 0-1					
MWD					
Max Downhole Temp (ºF)	N/A				

Mud Properties		Parameters			
Type	Water Based	**Flow Rate (gpm)**	500.00 - 600.00	**Motor RPM**	130.00 - 150.00
WT	9.20	**On Bottom Pressure (psi)**	1500.00 - 1600.00	**Surface RPM**	0.00 - 0.00
VIS	29.00	**Off Bottom Pressure (psi)**	1100.00 - 1200.00	**Rotating WOB (klbs)**	0.00 - 0.00
PV	3.00	**Stall Pressure (psi)**	1150.00	**Sliding WOB (klbs)**	40.00 - 50.00
YP	1.00	**Stalls**	10	**Temp (ºF)**	130.00 - 140.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	54850	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 5.0 FXD 2.12°SLICK*, Size (in): *7.00*, Bend Angle (°): *2.12*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	cdm650-020	4 1/2" IF Box	4 1/2" Reg Box		7.000		25.64	26.64
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	58.02
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	75.49
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	105.87
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	108.87

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #6 - 8.75" CURVE (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	**Date In**	2021-07-21 08:45	**Downhole Hours**	23.00
Lobe/Stage	7/8, 5.0	**Depth In (ft)**	11158.00	**Drilling/Circulating Hours**	7.75
Bend Angle	3.00	**Date Out**	2021-07-22 07:45	**Drilling Hours**	6.75
Speed (rev/gal)	0.26	**Depth Out (ft)**	11484.00	**Circulating Hours**	1.00
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	326.00	**Sliding Hours**	6.75
Incident	No	**Distance Rotated (ft)**	0.00	**Rotating Hours**	0.00
Motor Post Run/Notes		**% Distance Sliding**	100.00%	**% Hours Sliding**	100.00%
Average Total ROP (ft/h)	48.30	**% Distance Rotating**	0.00%	**% Hours Rotating**	0.00%
Average Slide ROP (ft/h)	48.30	**BHA Objective**			
Average Rotating ROP (ft/h)	0.00	Build Curve			
Notes: Good Motor Run					
Bit Details					
OD (in)	8.750				
Vendor	Ulterra	**POOH Reason/Notes**			
Nozzles	6x15's	**Change Bottom Hole Assembly:** N/A			
Total Flow Area (in²)	1.035				
Bit Distances		**Incident Notes**			
Bit To Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft		**Directional:** N/A			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	1-2	**Directional:** Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 0			
Notes: 1-2					
MWD					
Max Downhole Temp (ºF)	N/A				

Mud Properties		Parameters			
Type	Water Based	**Flow Rate (gpm)**	600.00 - 600.00	**Motor RPM**	156.00 - 156.00
WT	9.20	**On Bottom Pressure (psi)**	1600.00 - 1600.00	**Surface RPM**	0.00 - 0.00
VIS	27.00	**Off Bottom Pressure (psi)**	1100.00 - 1100.00	**Rotating WOB (klbs)**	0.00 - 0.00
PV	2.00	**Stall Pressure (psi)**	0.00	**Sliding WOB (klbs)**	50.00 - 50.00
YP	3.00	**Stalls**	0	**Temp (ºF)**	120.00 - 130.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	56276	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *6 3/4'' 7/8 5.0 FXD 3.00°ADJ*, Size (in): *7.00*, Bend Angle (°): *3.00*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	cdm650-009	4 1/2" IF Box	4 1/2" Reg Box		7.000		26.03	27.03
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	58.41
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	75.88
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	106.26
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	109.26

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #7 - 8.75 Lateral w/ Agitator (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	**Date In**	2021-07-22 09:00	**Downhole Hours**	21.75
Lobe/Stage	7/8, 8.5	**Depth In (ft)**	11484.00	**Drilling/Circulating Hours**	5.33
Bend Angle	1.75	**Date Out**	2021-07-23 06:45	**Drilling Hours**	3.17
Speed (rev/gal)	0.26	**Depth Out (ft)**	11704.00	**Circulating Hours**	2.17
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	77.00	**Sliding Hours**	1.25
Incident	No	**Distance Rotated (ft)**	143.00	**Rotating Hours**	1.92
Motor Post Run/Notes		**% Distance Sliding**	35.00%	**% Hours Sliding**	39.47%
Average Total ROP (ft/h)	69.47	**% Distance Rotating**	65.00%	**% Hours Rotating**	60.53%
Average Slide ROP (ft/h)	61.60	**BHA Objective**			
Average Rotating ROP (ft/h)	74.61	Lateral			
Notes: N/A					
Bit Details					
OD (in)	8.750				
Vendor	REED	**POOH Reason/Notes**			
Nozzles	6x16's	**Downhole Tool Incident:** N/A			
Total Flow Area (in²)	1.178				
Bit Distances		**Incident Notes**			
Bit To Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft		**Directional:** RESISTIVITY TOOL FAILURE			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	0	**Directional:** Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0			
Notes: 0					
MWD					
Max Downhole Temp (ºF)	N/A				

Mud Properties		Parameters			
Type	Oil Based	**Flow Rate (gpm)**	650.00 - 650.00	**Motor RPM**	169.00 - 171.00
WT	9.50	**On Bottom Pressure (psi)**	3650.00 - 3750.00	**Surface RPM**	30.00 - 30.00
VIS	75.00	**Off Bottom Pressure (psi)**	3250.00 - 3300.00	**Rotating WOB (klbs)**	30.00 - 40.00
PV	14.00	**Stall Pressure (psi)**	0.00	**Sliding WOB (klbs)**	55.00 - 55.00
YP	10.00	**Stalls**	0	**Temp (ºF)**	110.00 - 130.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280212	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700008	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.67	35.67
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	67.05
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	84.52
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.90
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.90
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.00
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.45
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.37
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.86

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #8 - 8.75" LATERAL w/ Agitator (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	**Date In**	2021-07-23 07:45	**Downhole Hours**	67.00
Lobe/Stage	7/8, 8.5	**Depth In (ft)**	11704.00	**Drilling/Circulating Hours**	42.17
Bend Angle	1.75	**Date Out**	2021-07-26 02:45	**Drilling Hours**	39.58
Speed (rev/gal)	0.26	**Depth Out (ft)**	13731.00	**Circulating Hours**	2.58
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	391.00	**Sliding Hours**	11.83
Incident	No	**Distance Rotated (ft)**	1636.00	**Rotating Hours**	27.75
Motor Post Run/Notes		**% Distance Sliding**	19.29%	**% Hours Sliding**	29.89%
Average Total ROP (ft/h)	51.21	**% Distance Rotating**	80.71%	**% Hours Rotating**	70.11%
Average Slide ROP (ft/h)	33.04	**BHA Objective**			
Average Rotating ROP (ft/h)	58.95	Drill Lateral			
Notes: Good Motor Run					
Bit Details					
OD (in)	8.750				
Vendor	Ulterra	**POOH Reason/Notes**			
Nozzles	9x13's	**Penetration Rate:** N/A			
Total Flow Area (in²)	1.167				
Bit Distances		**Incident Notes**			
Bit To Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft		**Directional:** LOST ROP, BIT WAS DBR / RUNG OUT 1-6			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	1-6	**Directional:** Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0			
Notes: 1-6					
MWD					
Max Downhole Temp (ºF)	N/A				

Mud Properties		Parameters			
Type	Oil Based	**Flow Rate (gpm)**	700.00 - 700.00	**Motor RPM**	182.00 - 212.00
WT	9.70	**On Bottom Pressure (psi)**	4100.00 - 4350.00	**Surface RPM**	30.00 - 30.00
VIS	69.00	**Off Bottom Pressure (psi)**	3750.00 - 3850.00	**Rotating WOB (klbs)**	40.00 - 50.00
PV	18.00	**Stall Pressure (psi)**	0.00	**Sliding WOB (klbs)**	25.00 - 70.00
YP	9.00	**Stalls**	0	**Temp (ºF)**	110.00 - 130.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SPL616*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	56159	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700008	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.67	35.67
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.06
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.44
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.82
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.82
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1997.92
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.37
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.29
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.78

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #9 - 8.75" LATERAL w/ Agitator (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	**Date In**	2021-07-26 04:00	**Downhole Hours**	91.50
Lobe/Stage	7/8, 8.5	**Depth In (ft)**	13731.00	**Drilling/Circulating Hours**	63.17
Bend Angle	1.75	**Date Out**	2021-07-29 23:30	**Drilling Hours**	62.50
Speed (rev/gal)	0.26	**Depth Out (ft)**	16875.00	**Circulating Hours**	0.67
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	528.00	**Sliding Hours**	21.25
Incident	No	**Distance Rotated (ft)**	2616.00	**Rotating Hours**	41.25
Motor Post Run/Notes		**% Distance Sliding**	16.79%	**% Hours Sliding**	34.00%
Average Total ROP (ft/h)	50.30	**% Distance Rotating**	83.21%	**% Hours Rotating**	66.00%
Average Slide ROP (ft/h)	24.85	**BHA Objective**			
Average Rotating ROP (ft/h)	63.42	Drill Lateral			
Notes: N/A					
Bit Details					
OD (in)	8.750				
Vendor	REED	**POOH Reason/Notes**			
Nozzles	5-15's 1-18	**Change Bottom Hole Assembly:** Erratic Diff spikes. TF control became issue			
Total Flow Area (in²)	1.110				
Bit Distances		**Incident Notes**			
Bit To Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft		**Directional:**			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	2/3	**Directional:** Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0			
Notes: N/A					
MWD					
Max Downhole Temp (ºF)	N/A				
Mud Properties		**Parameters**			
Type	Oil Based	**Flow Rate (gpm)**	700.00 - 700.00	**Motor RPM**	182.00 - 182.00
WT	9.70	**On Bottom Pressure (psi)**	4100.00 - 4550.00	**Surface RPM**	30.00 - 30.00
VIS	65.00	**Off Bottom Pressure (psi)**	3750.00 - 4000.00	**Rotating WOB (klbs)**	50.00 - 62.00
PV	18.00	**Stall Pressure (psi)**	1910.00	**Sliding WOB (klbs)**	70.00 - 75.00
YP	8.00	**Stalls**	0	**Temp (ºF)**	158.00 - 178.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280803	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700016	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.79	35.79
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.18
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.56
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.94
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.94
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.04
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.49
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.41
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.90

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

BHA #10 - 8.75" LATERAL w/ Agitator (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	**Date In**	2021-07-29 23:30	**Downhole Hours**	58.50
Lobe/Stage	7/8, 8.5	**Depth In (ft)**	16875.00	**Drilling/Circulating Hours**	32.33
Bend Angle	1.75	**Date Out**	2021-08-01 10:00	**Drilling Hours**	27.83
Speed (rev/gal)	0.26	**Depth Out (ft)**	19475.00	**Circulating Hours**	4.50
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	345.00	**Sliding Hours**	11.83
Incident	No	**Distance Rotated (ft)**	2255.00	**Rotating Hours**	16.00
Motor Post Run/Notes		**% Distance Sliding**	13.27%	**% Hours Sliding**	42.51%
Average Total ROP (ft/h)	93.41	**% Distance Rotating**	86.73%	**% Hours Rotating**	57.49%
Average Slide ROP (ft/h)	29.15	**BHA Objective**			
Average Rotating ROP (ft/h)	140.94	Drill remaining 8.75" Lateral to TD			
Notes: N/A					
Bit Details					
OD (in)	8.750				
Vendor	REED	**POOH Reason/Notes**			
Nozzles	7 x 14	**Total Depth/Casing Point:** Motor Drained weak , 1/8" Squat in bearings			
Total Flow Area (in²)	1.052				
Bit Distances		**Incident Notes**			
Bit To Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft		**Directional:**			
		MWD:			
Bit Post Run/Notes		**Comments**			
Dull Grading	2/3	**Directional:** Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 6			
Notes: Broken cutters on nose / Guage					
MWD					
Max Downhole Temp (ºF)	N/A				

Mud Properties		Parameters			
Type	Oil Based	**Flow Rate (gpm)**	700.00 - 700.00	**Motor RPM**	182.00 - 182.00
WT	9.70	**On Bottom Pressure (psi)**	4550.00 - 5200.00	**Surface RPM**	30.00 - 30.00
VIS	68.00	**Off Bottom Pressure (psi)**	4000.00 - 4600.00	**Rotating WOB (klbs)**	45.00 - 62.00
PV	17.00	**Stall Pressure (psi)**	1910.00	**Sliding WOB (klbs)**	50.00 - 60.00
YP	10.00	**Stalls**	0	**Temp (ºF)**	-0.00 - 119.00
		NPT	0.0		

Items (Directional)

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SKC7616M-G1D*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A263858	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700041	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.92	35.92
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.31
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.69
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	115.07
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	118.07
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.17
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.62
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0078	4 1/2" IF Box	4 1/2" IF Pin		7.000		25.15	2026.77
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2030.26

Mud Motor Reports

Dagger State Com 558H (WT-21-067)

2021-06-02 to 2021-08-02
Lea, New Mexico, US (32.45, -103.62)

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 1 (BHA #1 (17.5" Surface))

Motor Details		Date/Depth/Distances		Hours	
S/N	BDT-800-002	**Date In**	2021-06-02 16:45	**Downhole Hours**	18.25
Size (in)	8.0	**Depth In (ft)**	120.00	**Drilling/Circulating Hours**	10.67
Lobe/Stage	7/8, 5.90	**Date Out**	2021-06-03 11:00		
Bend Angle	1.75	**Depth Out (ft)**	1579.00	**Circulating Hours**	1.25
Speed (rev/gal)	0.15	**Total Drilled (ft)**	1459.00	**Drilling Hours**	9.42
Wear Pad OD (in)	8.313	**Distance Slid (ft)**	125.00	**Sliding Hours**	1.58
Manufacturer	Butch's	**Distance Rotated (ft)**	1334.00	**Rotating Hours**	7.83
Motor Results		**% Distance Sliding**	8.57%	**% Hours Rotating**	83.19%
Motor Incident	No	**% Distance Rotating**	91.43%	**% Hours Sliding**	16.81%
Average Total ROP (ft/h)	154.94	**BHA Parameters**			
Average Slide ROP (ft/h)	78.95	**Flow Rate (gpm)**	700.00 - 800.00	**Motor RPM**	40.00 - 160.00
Average Rotating ROP (ft/h)	170.30	**Stalls**	0	**Surface RPM**	60.00 - 80.00
Bit Details		**Stall Pressure (psi)**	0.00	**Rotating WOB (klbs)**	12.00 - 30.00
OD (in)	17.500	**On Bottom Pressure (psi)**	1300.00 - 2500.00	**Sliding WOB (klbs)**	18.00 - 25.00
Vendor	Baker	**Off Bottom Pressure (psi)**	1000.00 - 1600.00	**Temp (ºF)**	90.00 - 100.00
S/N	5311435	**NPT**	0.0		
Nozzles	9x12's	**BHA Objective**			
Total Flow Area (in²)	0.994	Drill 17.5 Surface			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey (bit to survey): 66.00 ft					
Mud Properties					
Type	Water Based				
WT	10.30				
VIS	38.00				
PV	1.00				
YP	3.00				

POOH Reason/Notes

Total Depth/Casing Point

Incident Notes

Directional:

MWD:

Comments

Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 2

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 2 (BHA #2 - Intermediate 12.25")

Motor Details		Date/Depth/Distances		Hours	
S/N	BDT-800-002	**Date In**	2021-06-04 04:45	**Downhole Hours**	33.50
Size (in)	8.0	**Depth In (ft)**	1579.00	**Drilling/Circulating Hours**	20.58
Lobe/Stage	7/8, 5.90	**Date Out**	2021-06-05 14:15		
Bend Angle	1.75	**Depth Out (ft)**	5493.00	**Circulating Hours**	2.67
Speed (rev/gal)	0.15	**Total Drilled (ft)**	3914.00	**Drilling Hours**	17.92
Wear Pad OD (in)	8.313	**Distance Slid (ft)**	193.00	**Sliding Hours**	3.92
Manufacturer	Butch's	**Distance Rotated (ft)**	3721.00	**Rotating Hours**	14.00
Motor Results		**% Distance Sliding**	4.93%	**% Hours Rotating**	78.14%
Motor Incident	No	**% Distance Rotating**	95.07%	**% Hours Sliding**	21.86%
Average Total ROP (ft/h)	218.46	**BHA Parameters**			
Average Slide ROP (ft/h)	49.28	**Flow Rate (gpm)**	895.00 - 896.00	**Motor RPM**	40.00 - 160.00
Average Rotating ROP (ft/h)	265.79	**Stalls**	0	**Surface RPM**	70.00 - 70.00
Bit Details		**Stall Pressure (psi)**	1330.00	**Rotating WOB (klbs)**	50.00 - 65.00
OD (in)	12.250	**On Bottom Pressure (psi)**	2300.00 - 3250.00	**Sliding WOB (klbs)**	15.00 - 30.00
Vendor	REED	**Off Bottom Pressure (psi)**	1850.00 - 2300.00	**Temp (ºF)**	107.00 - 129.00
S/N	A265307	**NPT**	0.0		
Nozzles	6 x 16's	**BHA Objective**			
Total Flow Area (in²)	1.178	Drill 12.25" Intermediate section			
Bit Type	PDC (Polycrystalline Diamond Compacts)				

Bit Distances

Survey (bit to survey): 66.00 ft

Mud Properties

Type	Water Based
WT	10.40
VIS	31.00
PV	1.00
YP	3.00

POOH Reason/Notes

Total Depth/Casing Point

Incident Notes

Directional:

MWD:

Comments

Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 3 Runs

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 3 (Intermediate 8.75")

Motor Details		Date/Depth/Distances		Hours	
S/N	CD700007	**Date In**	2021-07-16 18:45	**Downhole Hours**	45.00
Size (in)	7.0	**Depth In (ft)**	5493.00	**Drilling/Circulating Hours**	27.83
Lobe/Stage	7/8, 8.50	**Date Out**	2021-07-18 15:45		
Bend Angle	1.75	**Depth Out (ft)**	10825.00	**Circulating Hours**	4.75
Speed (rev/gal)	0.26	**Total Drilled (ft)**	5332.00	**Drilling Hours**	23.08
Wear Pad OD (in)	7.250	**Distance Slid (ft)**	85.00	**Sliding Hours**	1.17
Manufacturer	Patriot	**Distance Rotated (ft)**	5247.00	**Rotating Hours**	21.92
Motor Results		**% Distance Sliding**	1.59%	**% Hours Rotating**	94.95%
Motor Incident	No	**% Distance Rotating**	98.41%	**% Hours Sliding**	5.05%
Average Total ROP (ft/h)	230.99	**BHA Parameters**			
Average Slide ROP (ft/h)	72.86	**Flow Rate (gpm)**	670.00 - 700.00	**Motor RPM**	169.00 - 182.00
Average Rotating ROP (ft/h)	239.41	**Stalls**	0	**Surface RPM**	30.00 - 30.00
Bit Details		**Stall Pressure (psi)**	0.00	**Rotating WOB (klbs)**	30.00 - 30.00
OD (in)	8.750	**On Bottom Pressure (psi)**	2100.00 - 2500.00	**Sliding WOB (klbs)**	18.00 - 30.00
Vendor	REED	**Off Bottom Pressure (psi)**	1800.00 - 1900.00	**Temp (ºF)**	120.00 - 130.00
S/N	A280186	**NPT**	0.0		
Nozzles	6x16's	**BHA Objective**			
Total Flow Area (in²)	1.178	DRILL TO KOP			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey: 65.00 ft, **Gamma:** 50.00 ft					
Mud Properties					
Type	Water Based				
WT	9.20				
VIS	27.00				
PV	1.00				
YP	3.00				

POOH Reason/Notes

Change Bottom Hole Assembly: N/A

Incident Notes

Directional: N/A

MWD:

Comments

Directional: Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 4 (8.75" CURVE)

Motor Details		Date/Depth/Distances		Hours	
S/N	700-40S-001	**Date In**	2021-07-18 17:15	**Downhole Hours**	35.50
Size (in)	7.0	**Depth In (ft)**	10825.00	**Drilling/Circulating Hours**	2.50
Lobe/Stage	7/8, 5.00	**Date Out**	2021-07-20 04:45		
Bend Angle	2.12	**Depth Out (ft)**	10852.00	**Circulating Hours**	1.00
Speed (rev/gal)	0.26	**Total Drilled (ft)**	27.00	**Drilling Hours**	1.50
Wear Pad OD (in)	7.000	**Distance Slid (ft)**	27.00	**Sliding Hours**	1.50
Manufacturer	AIM	**Distance Rotated (ft)**	0.00	**Rotating Hours**	0.00
Motor Results		**% Distance Sliding**	100.00%	**% Hours Rotating**	0.00%
Motor Incident	Yes	**% Distance Rotating**	0.00%	**% Hours Sliding**	100.00%
Average Total ROP (ft/h)	18.00	**BHA Parameters**			
Average Slide ROP (ft/h)	18.00	**Flow Rate (gpm)**	600.00 - 600.00	**Motor RPM**	143.00 - 156.00
Average Rotating ROP (ft/h)	0.00	**Stalls**	5	**Surface RPM**	0.00 - 0.00
Bit Details		**Stall Pressure (psi)**	1180.03	**Rotating WOB (klbs)**	0.00 - 0.00
OD (in)	8.750	**On Bottom Pressure (psi)**	1500.00 - 1500.00	**Sliding WOB (klbs)**	40.00 - 40.00
Vendor	Ulterra	**Off Bottom Pressure (psi)**	1200.00 - 1200.00	**Temp (ºF)**	123.00 - 130.00
S/N	54850	**NPT**	0.0		
Nozzles	6x15's	**BHA Objective**			
Total Flow Area (in²)	1.035	BUILD CURVE			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft					
Mud Properties					
Type	Water Based				
WT	9.20				
VIS	29.00				
PV	2.00				
YP	3.00				

POOH Reason/Notes

Downhole Motor Incident: N/A

Incident Notes

Directional: MOTOR STALLED MULTIPLE TIMES

MWD:

Comments

Directional: Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 5 (8.75" CURVE)

Motor Details		Date/Depth/Distances		Hours	
S/N	cdm650-020	**Date In**	2021-07-20 06:15	**Downhole Hours**	25.50
Size (in)	7.0	**Depth In (ft)**	10852.00	**Drilling/Circulating Hours**	7.50
Lobe/Stage	7/8, 5.00	**Date Out**	2021-07-21 07:45		
Bend Angle	2.12	**Depth Out (ft)**	11158.00	**Circulating Hours**	0.42
Speed (rev/gal)	0.26	**Total Drilled (ft)**	306.00	**Drilling Hours**	7.08
Wear Pad OD (in)	7.000	**Distance Slid (ft)**	306.00	**Sliding Hours**	7.08
Manufacturer	AIM	**Distance Rotated (ft)**	0.00	**Rotating Hours**	0.00
Motor Results		**% Distance Sliding**	100.00%	**% Hours Rotating**	0.00%
Motor Incident	Yes	**% Distance Rotating**	0.00%	**% Hours Sliding**	100.00%
Average Total ROP (ft/h)	43.20	**BHA Parameters**			
Average Slide ROP (ft/h)	43.20	**Flow Rate (gpm)**	500.00 - 600.00	**Motor RPM**	130.00 - 150.00
Average Rotating ROP (ft/h)	0.00	**Stalls**	10	**Surface RPM**	0.00 - 0.00
Bit Details		**Stall Pressure (psi)**	1150.00	**Rotating WOB (klbs)**	0.00 - 0.00
OD (in)	8.750	**On Bottom Pressure (psi)**	1500.00 - 1600.00	**Sliding WOB (klbs)**	40.00 - 50.00
Vendor	Ulterra	**Off Bottom Pressure (psi)**	1100.00 - 1200.00	**Temp (ºF)**	130.00 - 140.00
S/N	54850	**NPT**	0.0		
Nozzles	6x15's	**BHA Objective**			
Total Flow Area (in²)	1.035	BUILD CURVE			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft					
Mud Properties					
Type	Water Based				
WT	9.20				
VIS	29.00				
PV	3.00				
YP	1.00				

POOH Reason/Notes

Build Rate: N/A

Incident Notes

Directional: WEAK MOTOR, MULTIPLE STALLS, BUILD RATES FELL OFF, BIT WAS GREEN

MWD:

Comments

Directional: Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 6 (8.75" CURVE)

Motor Details		Date/Depth/Distances		Hours	
S/N	cdm650-009	**Date In**	2021-07-21 08:45	**Downhole Hours**	23.00
Size (in)	7.0	**Depth In (ft)**	11158.00	**Drilling/Circulating Hours**	7.75
Lobe/Stage	7/8, 5.00	**Date Out**	2021-07-22 07:45		
Bend Angle	3.0	**Depth Out (ft)**	11484.00	**Circulating Hours**	1.00
Speed (rev/gal)	0.26	**Total Drilled (ft)**	326.00	**Drilling Hours**	6.75
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	326.00	**Sliding Hours**	6.75
Manufacturer	AIM	**Distance Rotated (ft)**	0.00	**Rotating Hours**	0.00
Motor Results		**% Distance Sliding**	100.00%	**% Hours Rotating**	0.00%
Motor Incident	No	**% Distance Rotating**	0.00%	**% Hours Sliding**	100.00%
Average Total ROP (ft/h)	48.30	**BHA Parameters**			
Average Slide ROP (ft/h)	48.30	**Flow Rate (gpm)**	600.00 - 600.00	**Motor RPM**	156.00 - 156.00
Average Rotating ROP (ft/h)	0.00	**Stalls**	0	**Surface RPM**	0.00 - 0.00
Bit Details		**Stall Pressure (psi)**	0.00	**Rotating WOB (klbs)**	0.00 - 0.00
OD (in)	8.750	**On Bottom Pressure (psi)**	1600.00 - 1600.00	**Sliding WOB (klbs)**	50.00 - 50.00
Vendor	Ulterra	**Off Bottom Pressure (psi)**	1100.00 - 1100.00	**Temp (ºF)**	120.00 - 130.00
S/N	56276	**NPT**	0.0		
Nozzles	6x15's	**BHA Objective**			
Total Flow Area (in²)	1.035	Build Curve			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft					
Mud Properties					
Type	Water Based				
WT	9.20				
VIS	27.00				
PV	2.00				
YP	3.00				

POOH Reason/Notes

Change Bottom Hole Assembly: N/A

Incident Notes

Directional: N/A

MWD:

Comments

Directional: Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 0

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 7 (8.75 Lateral w/ Agitator)

Motor Details		Date/Depth/Distances		Hours	
S/N	CD700008	**Date In**	2021-07-22 09:00	**Downhole Hours**	21.75
Size (in)	7.0	**Depth In (ft)**	11484.00	**Drilling/Circulating Hours**	5.33
Lobe/Stage	7/8, 8.50	**Date Out**	2021-07-23 06:45		
Bend Angle	1.75	**Depth Out (ft)**	11704.00	**Circulating Hours**	2.17
Speed (rev/gal)	0.26	**Total Drilled (ft)**	220.00	**Drilling Hours**	3.17
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	77.00	**Sliding Hours**	1.25
Manufacturer	Patriot	**Distance Rotated (ft)**	143.00	**Rotating Hours**	1.92
Motor Results		**% Distance Sliding**	35.00%	**% Hours Rotating**	60.53%
Motor Incident	No	**% Distance Rotating**	65.00%	**% Hours Sliding**	39.47%
Average Total ROP (ft/h)	69.47	**BHA Parameters**			
Average Slide ROP (ft/h)	61.60	**Flow Rate (gpm)**	650.00 - 650.00	**Motor RPM**	169.00 - 171.00
Average Rotating ROP (ft/h)	74.61	**Stalls**	0	**Surface RPM**	30.00 - 30.00
Bit Details		**Stall Pressure (psi)**	0.00	**Rotating WOB (klbs)**	30.00 - 40.00
OD (in)	8.750	**On Bottom Pressure (psi)**	3650.00 - 3750.00	**Sliding WOB (klbs)**	55.00 - 55.00
Vendor	REED	**Off Bottom Pressure (psi)**	3250.00 - 3300.00	**Temp (ºF)**	110.00 - 130.00
S/N	A280212	**NPT**	0.0		
Nozzles	6x16's	**BHA Objective**			
Total Flow Area (in²)	1.178	Lateral			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft					
Mud Properties					
Type	Oil Based				
WT	9.50				
VIS	75.00				
PV	14.00				
YP	10.00				

POOH Reason/Notes

Downhole Tool Incident: N/A

Incident Notes

Directional: RESISTIVITY TOOL FAILURE

MWD:

Comments

Directional: Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 8 (8.75" LATERAL w/ Agitator)

Motor Details		Date/Depth/Distances		Hours	
S/N	CD700008	**Date In**	2021-07-23 07:45	**Downhole Hours**	67.00
Size (in)	7.0	**Depth In (ft)**	11704.00	**Drilling/Circulating Hours**	42.17
Lobe/Stage	7/8, 8.50	**Date Out**	2021-07-26 02:45		
Bend Angle	1.75	**Depth Out (ft)**	13731.00	**Circulating Hours**	2.58
Speed (rev/gal)	0.26	**Total Drilled (ft)**	2027.00	**Drilling Hours**	39.58
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	391.00	**Sliding Hours**	11.83
Manufacturer	Patriot	**Distance Rotated (ft)**	1636.00	**Rotating Hours**	27.75
Motor Results		**% Distance Sliding**	19.29%	**% Hours Rotating**	70.11%
Motor Incident	No	**% Distance Rotating**	80.71%	**% Hours Sliding**	29.89%
Average Total ROP (ft/h)	51.21	**BHA Parameters**			
Average Slide ROP (ft/h)	33.04	**Flow Rate (gpm)**	700.00 - 700.00	**Motor RPM**	182.00 - 212.00
Average Rotating ROP (ft/h)	58.95	**Stalls**	0	**Surface RPM**	30.00 - 30.00
Bit Details		**Stall Pressure (psi)**	0.00	**Rotating WOB (klbs)**	40.00 - 50.00
OD (in)	8.750	**On Bottom Pressure (psi)**	4100.00 - 4350.00	**Sliding WOB (klbs)**	25.00 - 70.00
Vendor	Ulterra	**Off Bottom Pressure (psi)**	3750.00 - 3850.00	**Temp (ºF)**	110.00 - 130.00
S/N	56159	**NPT**	0.0		
Nozzles	9x13's	**BHA Objective**			
Total Flow Area (in²)	1.167	Drill Lateral			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft					
Mud Properties					
Type	Oil Based				
WT	9.70				
VIS	69.00				
PV	18.00				
YP	9.00				

POOH Reason/Notes

Penetration Rate: N/A

Incident Notes

Directional: LOST ROP, BIT WAS DBR / RUNG OUT 1-6

MWD:

Comments

Directional: Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 9 (8.75" LATERAL w/ Agitator)

Motor Details		Date/Depth/Distances		Hours	
S/N	CD700016	**Date In**	2021-07-26 04:00	**Downhole Hours**	91.50
Size (in)	7.0	**Depth In (ft)**	13731.00	**Drilling/Circulating Hours**	63.17
Lobe/Stage	7/8, 8.50	**Date Out**	2021-07-29 23:30		
Bend Angle	1.75	**Depth Out (ft)**	16875.00	**Circulating Hours**	0.67
Speed (rev/gal)	0.26	**Total Drilled (ft)**	3144.00	**Drilling Hours**	62.50
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	528.00	**Sliding Hours**	21.25
Manufacturer	Patriot	**Distance Rotated (ft)**	2616.00	**Rotating Hours**	41.25
Motor Results		**% Distance Sliding**	16.79%	**% Hours Rotating**	66.00%
Motor Incident	No	**% Distance Rotating**	83.21%	**% Hours Sliding**	34.00%
Average Total ROP (ft/h)	50.30	**BHA Parameters**			
Average Slide ROP (ft/h)	24.85	**Flow Rate (gpm)**	700.00 - 700.00	**Motor RPM**	182.00 - 182.00
Average Rotating ROP (ft/h)	63.42	**Stalls**	0	**Surface RPM**	30.00 - 30.00
Bit Details		**Stall Pressure (psi)**	1910.00	**Rotating WOB (klbs)**	50.00 - 62.00
OD (in)	8.750	**On Bottom Pressure (psi)**	4100.00 - 4550.00	**Sliding WOB (klbs)**	70.00 - 75.00
Vendor	REED	**Off Bottom Pressure (psi)**	3750.00 - 4000.00	**Temp (ºF)**	158.00 - 178.00
S/N	A280803	**NPT**	0.0		
Nozzles	5-15's 1-18	**BHA Objective**			
Total Flow Area (in²)	1.110	Drill Lateral			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft					
Mud Properties					
Type	Oil Based				
WT	9.70				
VIS	65.00				
PV	18.00				
YP	8.00				

POOH Reason/Notes

Change Bottom Hole Assembly: Erratic Diff spikes. TF control became issue

Incident Notes

Directional:

MWD:

Comments

Directional: Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD:

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Mud Motor Report - BHA 10 (8.75" LATERAL w/ Agitator)

Motor Details		Date/Depth/Distances		Hours	
S/N	CD700041	**Date In**	2021-07-29 23:30	**Downhole Hours**	58.50
Size (in)	7.0	**Depth In (ft)**	16875.00	**Drilling/Circulating Hours**	32.33
Lobe/Stage	7/8, 8.50	**Date Out**	2021-08-01 10:00		
Bend Angle	1.75	**Depth Out (ft)**	19475.00	**Circulating Hours**	4.50
Speed (rev/gal)	0.26	**Total Drilled (ft)**	2600.00	**Drilling Hours**	27.83
Wear Pad OD (in)	7.500	**Distance Slid (ft)**	345.00	**Sliding Hours**	11.83
Manufacturer	Patriot	**Distance Rotated (ft)**	2255.00	**Rotating Hours**	16.00
Motor Results		**% Distance Sliding**	13.27%	**% Hours Rotating**	57.49%
Motor Incident	No	**% Distance Rotating**	86.73%	**% Hours Sliding**	42.51%
Average Total ROP (ft/h)	93.41	**BHA Parameters**			
Average Slide ROP (ft/h)	29.15	**Flow Rate (gpm)**	700.00 - 700.00	**Motor RPM**	182.00 - 182.00
Average Rotating ROP (ft/h)	140.94	**Stalls**	0	**Surface RPM**	30.00 - 30.00
Bit Details		**Stall Pressure (psi)**	1910.00	**Rotating WOB (klbs)**	45.00 - 62.00
OD (in)	8.750	**On Bottom Pressure (psi)**	4550.00 - 5200.00	**Sliding WOB (klbs)**	50.00 - 60.00
Vendor	REED	**Off Bottom Pressure (psi)**	4000.00 - 4600.00	**Temp (ºF)**	-0.00 - 119.00
S/N	A263858	**NPT**	0.0		
Nozzles	7 x 14	**BHA Objective**			
Total Flow Area (in²)	1.052	Drill remaining 8.75" Lateral to TD			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft					
Mud Properties					
Type	Oil Based				
WT	9.70				
VIS	68.00				
PV	17.00				
YP	10.00				

POOH Reason/Notes

Total Depth/Casing Point: Motor Drained weak , 1/8" Squat in bearings

Incident Notes

Directional:

MWD:

Comments

Directional: Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 6

MWD:

Slide/Rotate Reports

Dagger State Com 558H (WT-21-067)

2021-06-02 to 2021-08-02
Lea, New Mexico, US (32.45, -103.62)

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #1 (BHA #1 (17.5" Surface))

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Rotate	06-02	19:00	20:20	06-02	1.33	120.00	392.00	272.00	204.00	N/A	700.00	60.0	12.00	1300.00	1000.00	Surface
Rotate	06-02	20:30	20:50	06-02	0.33	392.00	485.00	93.00	279.00	N/A	700.00	60.0	12.00	1300.00	1000.00	Surface
Rotate	06-02	20:55	21:15	06-02	0.33	485.00	578.00	93.00	279.00	N/A	700.00	60.0	12.00	1300.00	1000.00	Surface
Slide	06-02	21:20	21:45	06-02	0.42	578.00	613.00	35.00	84.00	300.0		N/A				Surface
Rotate	06-02	21:45	22:45	06-02	1.0	613.00	765.00	152.00	152.00	N/A	700.00	60.0	12.00	1600.00	1000.00	Surface
Rotate	06-02	22:50	23:15	06-02	0.42	765.00	858.00	93.00	223.20	N/A	700.00	60.0	25.00	1600.00	1000.00	Surface
Rotate	06-02	23:20	23:45	06-02	0.42	858.00	952.00	94.00	225.60	N/A	700.00	60.0	25.00	1600.00	1000.00	Surface
Slide	06-02	23:50	00:25	06-03	0.58	952.00	1002.00	50.00	85.71	330.0	700.00	N/A	18.00	1600.00	1000.00	Surface
Rotate	06-03	00:25	00:45	06-03	0.33	1002.00	1045.00	43.00	129.00	N/A	700.00	60.0	25.00	1600.00	1000.00	Surface
Rotate	06-03	00:50	02:05	06-03	1.25	1045.00	1231.00	186.00	148.80	N/A	700.00	60.0	25.00	1600.00	1000.00	Surface
Rotate	06-03	02:10	03:25	06-03	1.25	1231.00	1414.00	183.00	146.40	N/A	800.00	60.0	30.00	2500.00	1600.00	Surface
Slide	06-03	03:30	04:05	06-03	0.58	1414.00	1454.00	40.00	68.57	30.0	800.00	N/A	25.00	2200.00	1600.00	Surface
Rotate	06-03	04:05	04:25	06-03	0.33	1454.00	1504.00	50.00	150.00	N/A	800.00	80.0	30.00	2500.00	1600.00	Surface
Rotate	06-03	04:30	05:20	06-03	0.83	1504.00	1579.00	75.00	90.00	N/A	800.00	80.0	30.00	2500.00	1600.00	Surface, Intermediate

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #2 (BHA #2 - Intermediate 12.25")

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Rotate	06-04	09:55	10:30	06-04	0.58	1579.00	1684.00	105.00	180.00	N/A	896.00	70.0	55.00	2550.00	1850.00	Intermediate
Rotate	06-04	10:35	10:45	06-04	0.17	1684.00	1773.00	89.00	534.00	N/A	896.00	70.0	60.00	2550.00	1850.00	Intermediate
Rotate	06-04	10:50	11:05	06-04	0.25	1773.00	1863.00	90.00	360.00	N/A	896.00	70.0	60.00	2550.00	1850.00	Intermediate
Rotate	06-04	11:10	11:20	06-04	0.17	1863.00	1952.00	89.00	534.00	N/A	896.00	70.0	60.00	2550.00	1850.00	Intermediate
Rotate	06-04	11:25	11:30	06-04	0.08	1952.00	2042.00	90.00	1080.00	N/A	896.00	70.0	60.00	2550.00	1850.00	Intermediate
Rotate	06-04	11:35	11:45	06-04	0.17	2042.00	2131.00	89.00	534.00	N/A	896.00	70.0	60.00	2550.00	1850.00	Intermediate
Rotate	06-04	11:50	12:20	06-04	0.5	2131.00	2221.00	90.00	180.00	N/A	896.00	70.0	60.00	2550.00	1850.00	Intermediate
Rotate	06-04	12:25	12:40	06-04	0.25	2221.00	2310.00	89.00	356.00	N/A	896.00	70.0	60.00	2550.00	1850.00	Intermediate
Rotate	06-04	12:45	12:50	06-04	0.08	2310.00	2325.00	15.00	180.00	N/A	896.00	70.0	60.00	2550.00	1850.00	Intermediate
Slide	06-04	12:50	13:00	06-04	0.17	2325.00	2345.00	20.00	120.00	30.0	895.00	N/A	15.00	2300.00	2000.00	Intermediate
Rotate	06-04	13:00	13:05	06-04	0.08	2345.00	2400.00	55.00	660.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Rotate	06-04	13:10	13:25	06-04	0.25	2400.00	2489.00	89.00	356.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Rotate	06-04	13:30	13:50	06-04	0.33	2489.00	2579.00	90.00	270.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Rotate	06-04	13:55	14:00	06-04	0.08	2579.00	2600.00	21.00	252.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Slide	06-04	14:00	14:10	06-04	0.17	2600.00	2615.00	15.00	90.00	220.0	895.00	N/A	15.00	2300.00	2000.00	Intermediate
Rotate	06-04	14:10	14:20	06-04	0.17	2615.00	2668.00	53.00	318.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Rotate	06-04	14:25	14:35	06-04	0.17	2668.00	2757.00	89.00	534.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Rotate	06-04	14:40	14:50	06-04	0.17	2757.00	2847.00	90.00	540.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Rotate	06-04	14:55	15:00	06-04	0.08	2847.00	2876.00	29.00	348.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Slide	06-04	15:00	15:10	06-04	0.17	2876.00	2893.00	17.00	102.00	300.0	895.00	N/A	15.00	2300.00	2000.00	Intermediate
Rotate	06-04	15:10	15:15	06-04	0.08	2893.00	2936.00	43.00	516.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Rotate	06-04	15:20	15:40	06-04	0.33	2936.00	3026.00	90.00	270.00	N/A	896.00	70.0	60.00	2800.00	2000.00	Intermediate
Rotate	06-04	15:45	15:50	06-04	0.08	3026.00	3049.00	23.00	276.00	N/A	896.00	70.0	65.00	2800.00	2000.00	Intermediate
Slide	06-04	15:50	16:10	06-04	0.33	3049.00	3069.00	20.00	60.00	270.0	895.00	N/A	25.00	2500.00	2000.00	Intermediate
Rotate	06-04	16:10	16:15	06-04	0.08	3069.00	3115.00	46.00	552.00	N/A	896.00	70.0	65.00	2800.00	2000.00	Intermediate
Rotate	06-04	16:20	16:35	06-04	0.25	3115.00	3205.00	90.00	360.00	N/A	896.00	70.0	65.00	2800.00	2000.00	Intermediate
Rotate	06-04	16:40	16:50	06-04	0.17	3205.00	3294.00	89.00	534.00	N/A	896.00	70.0	65.00	2800.00	2000.00	Intermediate
Rotate	06-04	16:55	17:00	06-04	0.08	3294.00	3310.00	16.00	192.00	N/A	896.00	70.0	65.00	2800.00	2000.00	Intermediate
Slide	06-04	17:00	17:30	06-04	0.5	3310.00	3340.00	30.00	60.00	230.0	895.00	N/A	25.00	2500.00	2000.00	Intermediate
Rotate	06-04	17:30	17:35	06-04	0.08	3340.00	3384.00	44.00	528.00	N/A	896.00	70.0	65.00	2800.00	2000.00	Intermediate
Rotate	06-04	17:40	17:55	06-04	0.25	3384.00	3473.00	89.00	356.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	18:00	18:10	06-04	0.17	3473.00	3498.00	25.00	150.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	18:35	18:55	06-04	0.33	3498.00	3563.00	65.00	195.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	19:05	19:45	06-04	0.67	3563.00	3742.00	179.00	268.50	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	19:50	20:15	06-04	0.42	3742.00	3831.00	89.00	213.60	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	20:20	20:40	06-04	0.33	3831.00	3921.00	90.00	270.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate

Rotate	06-04	20:45	21:10	06-04	0.42	3921.00	4010.00	89.00	213.60	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	21:15	21:55	06-04	0.67	4010.00	4189.00	179.00	268.50	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	22:00	22:45	06-04	0.75	4189.00	4368.00	179.00	238.67	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	22:50	23:10	06-04	0.33	4368.00	4458.00	90.00	270.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-04	23:15	23:20	06-04	0.08	4458.00	4464.00	6.00	72.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Slide	06-04	23:20	00:00	06-05	0.67	4464.00	4504.00	40.00	60.00	160.0	895.00	N/A	20.00	2500.00	2200.00	Intermediate
Rotate	06-05	00:00	00:10	06-05	0.17	4504.00	4548.00	44.00	264.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-05	00:15	00:40	06-05	0.42	4548.00	4638.00	90.00	216.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-05	00:45	01:25	06-05	0.67	4638.00	4817.00	179.00	268.50	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-05	01:30	02:25	06-05	0.92	4817.00	4996.00	179.00	195.27	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Slide	06-05	02:30	02:45	06-05	0.25	4996.00	5007.00	11.00	44.00	135.0		N/A				Intermediate
Rotate	06-05	02:45	03:15	06-05	0.5	5007.00	5085.00	78.00	156.00	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-05	03:20	03:55	06-05	0.58	5085.00	5175.00	90.00	154.29	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Rotate	06-05	04:00	04:50	06-05	0.83	5175.00	5354.00	179.00	214.80	N/A	896.00	70.0	65.00	3100.00	2000.00	Intermediate
Slide	06-05	04:55	06:35	06-05	1.67	5354.00	5394.00	40.00	24.00	155.0	896.00	N/A	30.00	2600.00	2300.00	Intermediate
Rotate	06-05	06:35	06:50	06-05	0.25	5394.00	5443.00	49.00	196.00	N/A	896.00	70.0	50.00	3250.00	2300.00	Intermediate
Rotate	06-05	06:55	07:25	06-05	0.5	5443.00	5493.00	50.00	100.00	N/A	896.00	70.0	50.00	3250.00	2300.00	Intermediate

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #3 (Intermediate 8.75")

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Rotate	07-17	04:35	05:10	07-17	0.58	5493.00	5567.00	74.00	126.86	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Slide	07-17	05:10	05:20	07-17	0.17	5567.00	5582.00	15.00	90.00	180.0	695.00	N/A	18.00	2100.00	1800.00	Intermediate
Rotate	07-17	05:20	05:30	07-17	0.17	5582.00	5618.00	36.00	216.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	05:35	05:55	07-17	0.33	5618.00	5707.00	89.00	267.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	06:00	06:15	07-17	0.25	5707.00	5797.00	90.00	360.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	06:20	06:35	07-17	0.25	5797.00	5887.00	90.00	360.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	06:50	07:10	07-17	0.33	5887.00	5977.00	90.00	270.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Slide	07-17	07:15	07:25	07-17	0.17	5977.00	5997.00	20.00	120.00	275.0	695.00	N/A	18.00	2100.00	1800.00	Intermediate
Rotate	07-17	07:25	07:35	07-17	0.17	5997.00	6066.00	69.00	414.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	07:40	08:00	07-17	0.33	6066.00	6156.00	90.00	270.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	08:05	08:20	07-17	0.25	6156.00	6245.00	89.00	356.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	08:25	08:35	07-17	0.17	6245.00	6335.00	90.00	540.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	08:40	08:55	07-17	0.25	6335.00	6424.00	89.00	356.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	09:00	09:10	07-17	0.17	6424.00	6514.00	90.00	540.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	09:15	09:30	07-17	0.25	6514.00	6604.00	90.00	360.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	09:35	09:45	07-17	0.17	6604.00	6694.00	90.00	540.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	09:50	10:00	07-17	0.17	6694.00	6783.00	89.00	534.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	10:05	10:15	07-17	0.17	6783.00	6873.00	90.00	540.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	10:20	10:30	07-17	0.17	6873.00	6962.00	89.00	534.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	10:35	10:45	07-17	0.17	6962.00	7051.00	89.00	534.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	10:50	11:05	07-17	0.25	7051.00	7140.00	89.00	356.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	11:10	11:20	07-17	0.17	7140.00	7230.00	90.00	540.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	11:25	11:35	07-17	0.17	7230.00	7320.00	90.00	540.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	11:40	11:55	07-17	0.25	7320.00	7409.00	89.00	356.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	12:00	12:10	07-17	0.17	7409.00	7499.00	90.00	540.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	12:10	12:30	07-17	0.33	7499.00	7588.00	89.00	267.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	12:35	12:45	07-17	0.17	7588.00	7678.00	90.00	540.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	12:50	13:05	07-17	0.25	7678.00	7768.00	90.00	360.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	13:10	13:25	07-17	0.25	7768.00	7857.00	89.00	356.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	13:30	13:45	07-17	0.25	7857.00	7947.00	90.00	360.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	13:50	14:10	07-17	0.33	7947.00	8037.00	90.00	270.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Slide	07-17	14:20	14:35	07-17	0.25	8037.00	8057.00	20.00	80.00	245.0	695.00	N/A	25.00	2100.00	1800.00	Intermediate
Rotate	07-17	14:35	15:00	07-17	0.42	8057.00	8126.00	69.00	165.60	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	15:10	15:25	07-17	0.25	8126.00	8216.00	90.00	360.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	15:30	15:50	07-17	0.33	8216.00	8305.00	89.00	267.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	15:55	16:15	07-17	0.33	8305.00	8395.00	90.00	270.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate

Rotate	07-17	16:20	16:35	07-17	0.25	8395.00	8484.00	89.00	356.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	16:40	17:00	07-17	0.33	8484.00	8574.00	90.00	270.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	17:05	17:30	07-17	0.42	8574.00	8664.00	90.00	216.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	17:35	18:00	07-17	0.42	8664.00	8753.00	89.00	213.60	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	18:05	18:40	07-17	0.58	8753.00	8843.00	90.00	154.29	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	18:45	19:20	07-17	0.58	8843.00	8933.00	90.00	154.29	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	19:25	19:50	07-17	0.42	8933.00	9022.00	89.00	213.60	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	19:55	20:20	07-17	0.42	9022.00	9112.00	90.00	216.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	20:25	20:55	07-17	0.5	9112.00	9201.00	89.00	178.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	21:00	21:20	07-17	0.33	9201.00	9291.00	90.00	270.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	21:25	21:30	07-17	0.08	9291.00	9313.00	22.00	264.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Slide	07-17	21:30	21:50	07-17	0.33	9313.00	9333.00	20.00	60.00	230.0	670.00	N/A	30.00	2200.00	1900.00	Intermediate
Rotate	07-17	21:50	22:15	07-17	0.42	9333.00	9381.00	48.00	115.20	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	22:20	22:35	07-17	0.25	9381.00	9470.00	89.00	356.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	22:40	23:10	07-17	0.5	9470.00	9560.00	90.00	180.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	23:15	23:45	07-17	0.5	9560.00	9650.00	90.00	180.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-17	23:50	00:20	07-18	0.5	9650.00	9739.00	89.00	178.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	00:25	01:00	07-18	0.58	9739.00	9829.00	90.00	154.29	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	01:05	01:30	07-18	0.42	9829.00	9919.00	90.00	216.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	01:35	02:00	07-18	0.42	9919.00	10008.00	89.00	213.60	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	02:05	02:35	07-18	0.5	10008.00	10098.00	90.00	180.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	02:40	02:45	07-18	0.08	10098.00	10107.00	9.00	108.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Slide	07-18	02:45	03:00	07-18	0.25	10107.00	10117.00	10.00	40.00	250.0		N/A				Intermediate
Rotate	07-18	03:00	03:45	07-18	0.75	10117.00	10187.00	70.00	93.33	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	03:50	04:35	07-18	0.75	10187.00	10277.00	90.00	120.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	04:40	05:20	07-18	0.67	10277.00	10367.00	90.00	135.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	05:25	06:05	07-18	0.67	10367.00	10457.00	90.00	135.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	06:10	06:45	07-18	0.58	10457.00	10546.00	89.00	152.57	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	06:50	07:25	07-18	0.58	10546.00	10636.00	90.00	154.29	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	07:30	08:05	07-18	0.58	10636.00	10725.00	89.00	152.57	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	08:10	08:40	07-18	0.5	10725.00	10815.00	90.00	180.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate
Rotate	07-18	08:45	08:50	07-18	0.08	10815.00	10825.00	10.00	120.00	N/A	700.00	30.0	30.00	2500.00	1800.00	Intermediate, Curve

Aim Directional Services	**Job Number** WT-21-067	**Operator** Advance Energy Partners		**Rig Name** Nabors X50
	Start Date 2021-06-02	**Well Name** Dagger State Com 558H		**Legal Well Name | AFE** Dagger State Com 558H
	Play Delaware Basin	**State/Province and Country** New Mexico, US	**County** Lea	**Company Man**

Slide/Rotate Report - BHA #4 (8.75" CURVE)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Slide	07-19	20:55	22:25	07-19	1.5	10825.00	10852.00	27.00	18.00	330.0	600.00	N/A	40.00	1500.00	1200.00	Curve

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #5 (8.75" CURVE)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Slide	07-20	17:15	19:45	07-20	2.5	10852.00	10947.00	95.00	38.00	355.0	600.00	N/A	40.00	1500.00	1200.00	Curve
Slide	07-20	19:55	22:00	07-20	2.08	10947.00	11036.00	89.00	42.72	0.0	600.00	N/A	40.00	1500.00	1200.00	Curve
Slide	07-20	22:10	00:00	07-21	1.83	11036.00	11125.00	89.00	48.55	350.0		N/A				Curve
Slide	07-21	00:10	00:50	07-21	0.67	11125.00	11158.00	33.00	49.50	0.0	500.00	N/A	50.00	1600.00	1100.00	Curve

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #6 (8.75" CURVE)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Slide	07-21	17:30	19:35	07-21	2.08	11158.00	11216.00	58.00	27.84	0.0	600.00	N/A	50.00	1600.00	1100.00	Curve
Slide	07-21	19:45	21:30	07-21	1.75	11216.00	11305.00	89.00	50.86	350.0	600.00	N/A	50.00	1600.00	1100.00	Curve
Slide	07-21	21:40	23:30	07-21	1.83	11305.00	11395.00	90.00	49.09	350.0	600.00	N/A	50.00	1600.00	1100.00	Curve
Slide	07-21	23:40	00:45	07-22	1.08	11395.00	11484.00	89.00	82.15	350.0	600.00	N/A	50.00	1600.00	1100.00	Curve, Lateral

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #7 (8.75 Lateral w/ Agitator)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Rotate	07-22	18:05	18:40	07-22	0.58	11484.00	11525.00	41.00	70.29	N/A	650.00	30.0	30.00	3750.00	3250.00	Lateral
Rotate	07-22	18:45	19:10	07-22	0.42	11525.00	11568.00	43.00	103.20	N/A	650.00	30.0	40.00	3750.00	3250.00	Lateral
Slide	07-22	19:10	19:55	07-22	0.75	11568.00	11615.00	47.00	62.67	0.0		N/A				Lateral
Slide	07-22	20:10	20:40	07-22	0.5	11615.00	11645.00	30.00	60.00	15.0	650.00	N/A	55.00	3650.00	3300.00	Lateral
Rotate	07-22	20:40	21:35	07-22	0.92	11645.00	11704.00	59.00	64.36	N/A	650.00	30.0	40.00	3750.00	3250.00	Lateral

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #8 (8.75" LATERAL w/ Agitator)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Slide	07-23	23:10	23:40	07-23	0.5	11704.00	11724.00	20.00	40.00	135.0	700.00	N/A	25.00	4100.00	3750.00	Lateral
Rotate	07-23	23:40	00:20	07-24	0.67	11724.00	11794.00	70.00	105.00	N/A	700.00	30.0	40.00	4350.00	3750.00	Lateral
Rotate	07-24	00:25	00:35	07-24	0.17	11794.00	11800.00	6.00	36.00	N/A	700.00	30.0	40.00	4350.00	3750.00	Lateral
Slide	07-24	00:35	01:10	07-24	0.58	11800.00	11835.00	35.00	60.00	130.0	700.00	N/A	50.00	4100.00	3750.00	Lateral
Rotate	07-24	01:10	01:35	07-24	0.42	11835.00	11884.00	49.00	117.60	N/A	700.00	30.0	40.00	4350.00	3750.00	Lateral
Slide	07-24	01:40	02:40	07-24	1.0	11884.00	11930.00	46.00	46.00	120.0	700.00	N/A	60.00	4100.00	3750.00	Lateral
Rotate	07-24	02:40	03:00	07-24	0.33	11930.00	11956.00	26.00	78.00	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Slide	07-24	03:00	03:25	07-24	0.42	11956.00	11973.00	17.00	40.80	130.0	700.00	N/A	60.00	4100.00	3750.00	Lateral
Slide	07-24	03:35	04:15	07-24	0.67	11973.00	12005.00	32.00	48.00	150.0	700.00	N/A	60.00	4100.00	3750.00	Lateral
Rotate	07-24	04:15	04:50	07-24	0.58	12005.00	12044.00	39.00	66.86	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Slide	07-24	04:50	05:25	07-24	0.58	12044.00	12063.00	19.00	32.57	30.0	700.00	N/A	60.00	4100.00	3750.00	Lateral
Slide	07-24	05:35	06:00	07-24	0.42	12063.00	12082.00	19.00	45.60	330.0	700.00	N/A	60.00	4100.00	3750.00	Lateral
Rotate	07-24	06:00	06:50	07-24	0.83	12082.00	12152.00	70.00	84.00	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Rotate	07-24	06:55	08:00	07-24	1.08	12152.00	12242.00	90.00	83.08	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Rotate	07-24	08:05	09:20	07-24	1.25	12242.00	12331.00	89.00	71.20	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Rotate	07-24	09:25	11:05	07-24	1.67	12331.00	12421.00	90.00	54.00	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Slide	07-24	11:20	11:45	07-24	0.42	12421.00	12441.00	20.00	48.00	200.0	700.00	N/A	60.00	4100.00	3750.00	Lateral
Rotate	07-24	11:45	13:15	07-24	1.5	12441.00	12510.00	69.00	46.00	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Rotate	07-24	13:30	14:45	07-24	1.25	12510.00	12600.00	90.00	72.00	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Rotate	07-24	14:50	16:05	07-24	1.25	12600.00	12689.00	89.00	71.20	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Rotate	07-24	16:25	17:50	07-24	1.42	12689.00	12779.00	90.00	63.53	N/A	700.00	30.0	45.00	4350.00	3750.00	Lateral
Rotate	07-24	17:55	18:00	07-24	0.08	12779.00	12784.00	5.00	60.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-24	18:00	18:35	07-24	0.58	12784.00	12800.00	16.00	27.43	290.0	700.00	N/A	60.00	4100.00	3750.00	Lateral
Rotate	07-24	18:35	19:55	07-24	1.33	12800.00	12869.00	69.00	51.75	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-24	20:00	21:45	07-24	1.75	12869.00	12958.00	89.00	50.86	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-24	21:55	23:10	07-24	1.25	12958.00	12993.00	35.00	28.00	30.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-24	23:10	00:25	07-25	1.25	12993.00	13048.00	55.00	44.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-25	00:35	02:05	07-25	1.5	13048.00	13137.00	89.00	59.33	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-25	02:10	02:15	07-25	0.08	13137.00	13145.00	8.00	96.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-25	02:15	03:00	07-25	0.75	13145.00	13168.00	23.00	30.67	70.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-25	03:00	03:40	07-25	0.67	13168.00	13227.00	59.00	88.50	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-25	04:35	06:00	07-25	1.42	13227.00	13317.00	90.00	63.53	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-25	06:05	06:35	07-25	0.5	13317.00	13338.00	21.00	42.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-25	06:35	07:35	07-25	1.0	13338.00	13362.00	24.00	24.00	180.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-25	07:35	09:20	07-25	1.75	13362.00	13406.00	44.00	25.14	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-25	09:30	11:15	07-25	1.75	13406.00	13446.00	40.00	22.86	150.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-25	11:15	12:10	07-25	0.92	13446.00	13496.00	50.00	54.55	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-25	12:20	13:30	07-25	1.17	13496.00	13521.00	25.00	21.43	180.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-25	13:30	14:45	07-25	1.25	13521.00	13585.00	64.00	51.20	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-25	14:50	16:40	07-25	1.83	13585.00	13675.00	90.00	49.09	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-25	17:10	17:55	07-25	0.75	13675.00	13695.00	20.00	26.67	310.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-25	17:55	18:55	07-25	1.0	13695.00	13731.00	36.00	36.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #9 (8.75" LATERAL w/ Agitator)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Slide	07-26	12:25	13:00	07-26	0.58	13731.00	13765.00	34.00	58.29	340.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-26	13:05	13:15	07-26	0.17	13765.00	13780.00	15.00	90.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-26	13:15	13:35	07-26	0.33	13780.00	13800.00	20.00	60.00	0.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-26	13:35	14:05	07-26	0.5	13800.00	13854.00	54.00	108.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-26	14:10	14:15	07-26	0.08	13854.00	13864.00	10.00	120.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-26	14:15	15:05	07-26	0.83	13864.00	13890.00	26.00	31.20	120.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-26	15:05	15:35	07-26	0.5	13890.00	13944.00	54.00	108.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-26	15:40	15:45	07-26	0.08	13944.00	13954.00	10.00	120.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-26	15:45	16:25	07-26	0.67	13954.00	13979.00	25.00	37.50	90.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-26	16:25	16:45	07-26	0.33	13979.00	14034.00	55.00	165.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-26	16:50	17:15	07-26	0.42	14034.00	14123.00	89.00	213.60	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-26	17:20	18:15	07-26	0.92	14123.00	14213.00	90.00	98.18	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-26	18:20	19:40	07-26	1.33	14213.00	14303.00	90.00	67.50	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-26	19:50	20:15	07-26	0.42	14303.00	14315.00	12.00	28.80	120.0	700.00	N/A	70.00	4150.00	3850.00	Lateral
Rotate	07-26	20:15	21:45	07-26	1.5	14315.00	14393.00	78.00	52.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-26	22:25	23:55	07-26	1.5	14393.00	14483.00	90.00	60.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-27	00:00	00:15	07-27	0.25	14483.00	14494.00	11.00	44.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-27	00:15	00:30	07-27	0.25	14494.00	14499.00	5.00	20.00	10.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-27	01:05	02:10	07-27	1.08	14499.00	14568.00	69.00	63.69	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-27	03:25	03:30	07-27	0.08	14568.00	14572.00	4.00	48.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-27	03:40	04:40	07-27	1.0	14572.00	14585.00	13.00	13.00	45.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-27	04:40	06:20	07-27	1.67	14585.00	14662.00	77.00	46.20	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-27	06:25	07:35	07-27	1.17	14662.00	14752.00	90.00	77.14	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-27	07:40	07:45	07-27	0.08	14752.00	14762.00	10.00	120.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-27	07:45	09:00	07-27	1.25	14762.00	14792.00	30.00	24.00	120.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-27	09:00	09:50	07-27	0.83	14792.00	14841.00	49.00	58.80	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-27	10:00	11:15	07-27	1.25	14841.00	14871.00	30.00	24.00	180.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-27	11:15	12:20	07-27	1.08	14871.00	14931.00	60.00	55.38	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-27	12:25	14:15	07-27	1.83	14931.00	15021.00	90.00	49.09	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-27	14:20	15:30	07-27	1.17	15021.00	15110.00	89.00	76.29	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-27	15:40	16:45	07-27	1.08	15110.00	15150.00	40.00	36.92	200.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-27	16:45	17:30	07-27	0.75	15150.00	15200.00	50.00	66.67	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-27	19:20	19:45	07-27	0.42	15200.00	15218.00	18.00	43.20	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-27	19:45	20:20	07-27	0.58	15218.00	15228.00	10.00	17.14	180.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-27	20:20	21:25	07-27	1.08	15228.00	15289.00	61.00	56.31	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-27	23:10	00:00	07-28	0.83	15289.00	15344.00	55.00	66.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-28	02:35	02:55	07-28	0.33	15344.00	15379.00	35.00	105.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-28	03:10	04:10	07-28	1.0	15379.00	15405.00	26.00	26.00	0.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-28	04:10	05:20	07-28	1.17	15405.00	15469.00	64.00	54.86	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-28	05:25	05:55	07-28	0.5	15469.00	15485.00	16.00	32.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-28	05:55	06:45	07-28	0.83	15485.00	15505.00	20.00	24.00	180.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-28	06:45	07:55	07-28	1.17	15505.00	15558.00	53.00	45.43	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-28	08:00	08:15	07-28	0.25	15558.00	15566.00	8.00	32.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Slide	07-28	08:15	09:15	07-28	1.0	15566.00	15590.00	24.00	24.00	180.0	700.00	N/A	70.00	4100.00	3900.00	Lateral
Rotate	07-28	09:15	09:55	07-28	0.67	15590.00	15648.00	58.00	87.00	N/A	700.00	30.0	50.00	4350.00	3750.00	Lateral
Rotate	07-28	10:00	11:10	07-28	1.17	15648.00	15737.00	89.00	76.29	N/A	700.00	30.0	50.00	4550.00	4000.00	Lateral
Rotate	07-28	11:15	12:40	07-28	1.42	15737.00	15827.00	90.00	63.53	N/A	700.00	30.0	50.00	4550.00	4000.00	Lateral
Rotate	07-28	12:45	13:50	07-28	1.08	15827.00	15916.00	89.00	82.15	N/A	700.00	30.0	50.00	4550.00	4000.00	Lateral
Rotate	07-28	13:55	15:30	07-28	1.58	15916.00	16006.00	90.00	56.84	N/A	700.00	30.0	50.00	4550.00	4000.00	Lateral
Rotate	07-28	15:35	15:40	07-28	0.08	16006.00	16011.00	5.00	60.00	N/A	700.00	30.0	50.00	4550.00	4000.00	Lateral
Slide	07-28	15:40	17:00	07-28	1.33	16011.00	16038.00	27.00	20.25	0.0	700.00	N/A	70.00	4250.00	4000.00	Lateral
Rotate	07-28	17:00	17:55	07-28	0.92	16038.00	16096.00	58.00	63.27	N/A	700.00	30.0	50.00	4550.00	4000.00	Lateral
Rotate	07-28	18:00	19:25	07-28	1.42	16096.00	16185.00	89.00	62.82	N/A	700.00	30.0	50.00	4550.00	4000.00	Lateral
Slide	07-28	19:40	20:55	07-28	1.25	16185.00	16220.00	35.00	28.00	70.0	700.00	N/A	70.00	4250.00	4000.00	Lateral
Rotate	07-28	20:55	21:55	07-28	1.0	16220.00	16275.00	55.00	55.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Rotate	07-28	22:00	22:10	07-28	0.17	16275.00	16280.00	5.00	30.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Slide	07-28	22:10	23:00	07-28	0.83	16280.00	16300.00	20.00	24.00	90.0	700.00	N/A	70.00	4250.00	4000.00	Lateral
Rotate	07-28	23:00	00:05	07-29	1.08	16300.00	16364.00	64.00	59.08	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Rotate	07-29	00:10	00:20	07-29	0.17	16364.00	16370.00	6.00	36.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Slide	07-29	00:20	01:05	07-29	0.75	16370.00	16390.00	20.00	26.67	140.0	700.00	N/A	70.00	4250.00	4000.00	Lateral
Rotate	07-29	01:05	02:20	07-29	1.25	16390.00	16453.00	63.00	50.40	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Slide	07-29	02:30	03:25	07-29	0.92	16453.00	16469.00	16.00	17.45	200.0	700.00	N/A	75.00	4250.00	4000.00	Lateral
Rotate	07-29	03:25	05:00	07-29	1.58	16469.00	16543.00	74.00	46.74	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Rotate	07-29	05:05	06:25	07-29	1.33	16543.00	16603.00	60.00	45.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral

Slide	07-29	06:25	07:40	07-29	1.25	16603.00	16630.00	27.00	21.60	180.0	700.00	N/A	75.00	4250.00	4000.00	Lateral
Rotate	07-29	07:40	07:45	07-29	0.08	16630.00	16632.00	2.00	24.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Rotate	07-29	07:50	09:30	07-29	1.67	16632.00	16722.00	90.00	54.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Rotate	07-29	09:35	09:45	07-29	0.17	16722.00	16730.00	8.00	48.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Slide	07-29	09:45	10:40	07-29	0.92	16730.00	16762.00	32.00	34.91	180.0	700.00	N/A	75.00	4250.00	4000.00	Lateral
Rotate	07-29	10:40	11:25	07-29	0.75	16762.00	16811.00	49.00	65.33	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Rotate	07-29	11:30	12:05	07-29	0.58	16811.00	16839.00	28.00	48.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Slide	07-29	12:05	15:00	07-29	2.92	16839.00	16875.00	36.00	12.34	0.0	700.00	N/A	75.00	4250.00	4000.00	Lateral

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Slide/Rotate Report - BHA #10 (8.75" LATERAL w/ Agitator)

Activity	Start Date	Start Time	End Time	End Date	Hours	Start Depth (ft)	End Depth (ft)	Distance (ft)	RoP (ft/h)	Toolface	Flow Rate (gpm)	Surface RPM	WOB (klbs)	Press On (psi)	Press Off (psi)	Hole Section Type
Rotate	07-30	11:30	11:40	07-30	0.17	16875.00	16901.00	26.00	156.00	N/A	700.00	30.0	62.00	4550.00	4000.00	Lateral
Slide	07-30	12:35	14:20	07-30	1.75	16901.00	16953.00	52.00	29.71	0.0	700.00	N/A	50.00	4700.00	4400.00	Lateral
Rotate	07-30	14:20	14:40	07-30	0.33	16953.00	16990.00	37.00	111.00	N/A	700.00	30.0	45.00	5100.00	4500.00	Lateral
Rotate	07-30	14:50	15:20	07-30	0.5	16990.00	17080.00	90.00	180.00	N/A	700.00	30.0	45.00	5100.00	4500.00	Lateral
Rotate	07-30	15:25	16:10	07-30	0.75	17080.00	17170.00	90.00	120.00	N/A	700.00	30.0	60.00	5100.00	4500.00	Lateral
Rotate	07-30	16:15	16:20	07-30	0.08	17170.00	17177.00	7.00	84.00	N/A	700.00	30.0	60.00	5100.00	4500.00	Lateral
Slide	07-30	16:20	16:45	07-30	0.42	17177.00	17192.00	15.00	36.00	60.0	700.00	N/A	50.00	4700.00	4400.00	Lateral
Rotate	07-30	16:45	17:15	07-30	0.5	17192.00	17259.00	67.00	134.00	N/A	700.00	30.0	60.00	5100.00	4500.00	Lateral
Rotate	07-30	17:20	17:50	07-30	0.5	17259.00	17349.00	90.00	180.00	N/A	700.00	30.0	60.00	5100.00	4500.00	Lateral
Slide	07-30	18:10	19:15	07-30	1.08	17349.00	17377.00	28.00	25.85	45.0	700.00	N/A	50.00	4700.00	4400.00	Lateral
Rotate	07-30	19:15	19:40	07-30	0.42	17377.00	17439.00	62.00	148.80	N/A	700.00	30.0	60.00	5100.00	4500.00	Lateral
Slide	07-30	19:50	20:35	07-30	0.75	17439.00	17460.00	21.00	28.00	30.0	700.00	N/A	50.00	4700.00	4400.00	Lateral
Rotate	07-30	20:35	21:00	07-30	0.42	17460.00	17528.00	68.00	163.20	N/A	700.00	30.0	60.00	5100.00	4500.00	Lateral
Slide	07-30	21:30	22:20	07-30	0.83	17528.00	17555.00	27.00	32.40	30.0	700.00	N/A	50.00	4700.00	4400.00	Lateral
Rotate	07-30	22:20	22:40	07-30	0.33	17555.00	17617.00	62.00	186.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-30	22:45	23:15	07-30	0.5	17617.00	17707.00	90.00	180.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-30	23:25	23:50	07-30	0.42	17707.00	17797.00	90.00	216.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	00:00	00:20	07-31	0.33	17797.00	17886.00	89.00	267.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	00:25	00:35	07-31	0.17	17886.00	17895.00	9.00	54.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Slide	07-31	00:35	01:25	07-31	0.83	17895.00	17920.00	25.00	30.00	70.0	700.00	N/A	60.00	4700.00	4400.00	Lateral
Rotate	07-31	01:25	01:50	07-31	0.42	17920.00	17976.00	56.00	134.40	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	01:55	02:25	07-31	0.5	17976.00	18065.00	89.00	178.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	02:30	03:00	07-31	0.5	18065.00	18155.00	90.00	180.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	03:05	03:15	07-31	0.17	18155.00	18162.00	7.00	42.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Slide	07-31	03:15	04:40	07-31	1.42	18162.00	18202.00	40.00	28.24	90.0	700.00	N/A	60.00	4700.00	4400.00	Lateral
Rotate	07-31	04:40	05:00	07-31	0.33	18202.00	18245.00	43.00	129.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	05:10	05:40	07-31	0.5	18245.00	18334.00	89.00	178.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	05:45	06:10	07-31	0.42	18334.00	18423.00	89.00	213.60	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	06:15	06:45	07-31	0.5	18423.00	18513.00	90.00	180.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	06:50	07:35	07-31	0.75	18513.00	18602.00	89.00	118.67	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	07:40	07:45	07-31	0.08	18602.00	18606.00	4.00	48.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Slide	07-31	07:45	08:50	07-31	1.08	18606.00	18630.00	24.00	22.15	60.0	700.00	N/A	60.00	4700.00	4400.00	Lateral
Rotate	07-31	08:50	09:20	07-31	0.5	18630.00	18692.00	62.00	124.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	09:25	09:30	07-31	0.08	18692.00	18700.00	8.00	96.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Slide	07-31	09:30	10:50	07-31	1.33	18700.00	18745.00	45.00	33.75	75.0	700.00	N/A	60.00	4700.00	4400.00	Lateral
Rotate	07-31	10:50	11:15	07-31	0.42	18745.00	18782.00	37.00	88.80	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	11:20	12:05	07-31	0.75	18782.00	18871.00	89.00	118.67	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	12:10	12:15	07-31	0.08	18871.00	18878.00	7.00	84.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Slide	07-31	12:15	13:20	07-31	1.08	18878.00	18908.00	30.00	27.69	90.0	700.00	N/A	60.00	4700.00	4400.00	Lateral
Rotate	07-31	13:20	13:50	07-31	0.5	18908.00	18961.00	53.00	106.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	13:55	14:30	07-31	0.58	18961.00	19050.00	89.00	152.57	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	14:35	15:25	07-31	0.83	19050.00	19140.00	90.00	108.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Slide	07-31	15:30	16:45	07-31	1.25	19140.00	19178.00	38.00	30.40	200.0	700.00	N/A	60.00	4700.00	4400.00	Lateral
Rotate	07-31	16:45	17:15	07-31	0.5	19178.00	19229.00	51.00	102.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	17:20	18:00	07-31	0.67	19229.00	19319.00	90.00	135.00	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	18:05	18:55	07-31	0.83	19319.00	19408.00	89.00	106.80	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral
Rotate	07-31	19:00	19:40	07-31	0.67	19408.00	19475.00	67.00	100.50	N/A	700.00	30.0	60.00	5200.00	4600.00	Lateral

Daily Reports

Dagger State Com 558H (WT-21-067)

2021-06-02 to 2021-08-02
Lea, New Mexico, US (32.45, -103.62)

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Wednesday, Jun 02 00:00 - 23:59 (Day 1 of 23)

Billing: $17,000.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	120.00	**Downhole Hours**	7.25	**Rotating WOB (klbs)**	12.00 - 25.00
Bit Depth (ft)	952.00	**Drilling Hours**	4.25	**Sliding WOB (klbs)**	
Bottom Hole Depth (ft)	952.00	**Hours Circulating**	0.00	**Rotating SPM**	240.00 - 240.00
Total Distance (ft)	832.00	**Hours Sliding**	0.42	**Sliding SPM**	
Distance Rotated (ft)	797.00	**Hours Rotating**	3.83	**Motor RPM**	40.00 - 160.00
Distance Slid (ft)	35.00			**Surface RPM**	60.00 - 60.00
Inclination In	1.63			**Flow Rate (gpm)**	700.00 - 700.00
Inclination Out	2.15			**On Bottom Pressure (psi)**	1300.00 - 1600.00
Azimuth In	128.78	**% Hours Rotating**	90%	**Off Bottom Pressure (psi)**	1000.00 - 1000.00
Azimuth Out	168.77	**% Hours Sliding**	10%		
AVG Total ROP (ft/h)	182.48	**% Distance Sliding**	4%		
AVG Rotating ROP (ft/h)	207.91	**% Distance Rotating**	96%		
AVG Sliding ROP (ft/h)	85.00				

Personnel

Name	Position
Advance Directional	Directional Driller
Robert Olivarez	MWD Engineer

BHA #1 - BHA #1 (17.5" Surface)

Date In: Jun 2, 2021, 16:45 Date Out: Jun 3, 2021, 11:00

Bit Details

OD (in)	17.500
Vendor	Baker
S/N	5311435
Nozzles	9x12's
Total Flow Area (in²)	0.994
Drilling Hours for Day	4.25
Total Drilled for Day (ft)	832.00
Drilling Hours for BHA	9.42
Total Drilled for BHA (ft)	1459.00

Motor Details

Size (in)	8.0
Lobe/Stage	7/8, 5.9
Bend Angle	1.75
Speed (rev/gal)	0.15
Wear Pad OD (in)	8.313

Bit Distances

Survey (bit to survey): 66.00 ft

Directional Comments

8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 2

MWD Comments

POOH Reason

Total Depth/Casing Point

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *T606KS*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *0.40*, Size (in): *17.50*	Baker	5311435	6 5/8" Reg Pin			17.500		1.50	1.50
Mud Motor Description: *8'' 7/8 5.9 FXD 1.75° w/ 12'' STAB*, Size (in): *8.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5.9*	Butch's	BDT-800-002	6 5/8" Reg Box	6 5/8" Reg Box		8.000		37.06	38.56
Stabilizer Description: *12" NT Stabilizer*	JAO	JAO 12379	6 5/8" Reg Box	6 5/8" Reg Pin	3.000	8.250		6.84	45.40
UBHO Sub Description: *UBHO Sub*, Material: *Non-Magnetic*	AIM	800613	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.000		3.00	48.40
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY80013MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.25	78.65
Drill Collar Description: *NMDC (Spacer)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY800009MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.21	108.86
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD14829	EverDrlg54 Box	6 5/8" Reg Pin	2.750	8.000		3.17	112.03

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Standby	15	06-02	12:00	16:45	06-02			Standby while skidding rig
Pick Up BHA	64	06-02	16:45	18:00	06-02			

Rig Repair	14	06-02	18:00	19:00	06-02			Work on cellar pumps
Rotary Drill	1	06-02	19:00	20:20	06-02	120.00	392.00	Pressure On (psi): *1300.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *12.00*, Surface RPM: *60*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	06-02	20:20	20:25	06-02	298.00	298.00	Inclination (°): *1.630*, Azimuth (°): *128.780*, TVD (ft): *231.97*, Dogleg (º/100 ft): *0.70*, Sensor Depth (ft): *232.00*, Bit To Sensor (ft): *66.00*
Survey	46	06-02	20:25	20:30	06-02	392.00	392.00	Inclination (°): *1.850*, Azimuth (°): *128.780*, TVD (ft): *325.93*, Dogleg (º/100 ft): *0.23*, Sensor Depth (ft): *326.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-02	20:30	20:50	06-02	392.00	485.00	Pressure On (psi): *1300.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *12.00*, Surface RPM: *60*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	06-02	20:50	20:55	06-02	485.00	485.00	Inclination (°): *2.070*, Azimuth (°): *119.810*, TVD (ft): *418.87*, Dogleg (º/100 ft): *0.41*, Sensor Depth (ft): *419.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-02	20:55	21:15	06-02	485.00	578.00	Pressure On (psi): *1300.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *12.00*, Surface RPM: *60*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	06-02	21:15	21:20	06-02	578.00	578.00	Inclination (°): *2.200*, Azimuth (°): *124.210*, TVD (ft): *511.81*, Dogleg (º/100 ft): *0.22*, Sensor Depth (ft): *512.00*, Bit To Sensor (ft): *66.00*
Slide Drill	2	06-02	21:20	21:45	06-02	578.00	613.00	Toolface: *300*, Toolface Type: *magnetic*
Rotary Drill	1	06-02	21:45	22:45	06-02	613.00	765.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *12.00*, Surface RPM: *60*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	06-02	22:45	22:50	06-02	765.00	765.00	Inclination (°): *1.410*, Azimuth (°): *146.530*, TVD (ft): *698.71*, Dogleg (º/100 ft): *0.56*, Sensor Depth (ft): *699.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-02	22:50	23:15	06-02	765.00	858.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *25.00*, Surface RPM: *60*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	06-02	23:15	23:20	06-02	858.00	858.00	Inclination (°): *1.540*, Azimuth (°): *152.420*, TVD (ft): *791.68*, Dogleg (º/100 ft): *0.21*, Sensor Depth (ft): *792.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-02	23:20	23:45	06-02	858.00	952.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *25.00*, Surface RPM: *60*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	06-02	23:45	23:50	06-02	952.00	952.00	Inclination (°): *2.150*, Azimuth (°): *168.770*, TVD (ft): *885.64*, Dogleg (º/100 ft): *0.85*, Sensor Depth (ft): *886.00*, Bit To Sensor (ft): *66.00*
Slide Drill	2	06-02	23:50	00:25	06-03	952.00	1002.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *18.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *330*, Toolface Type: *magnetic*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Thursday, Jun 03 00:00 - 23:59 (Day 2 of 23)

Billing: $5,200.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	952.00	**Downhole Hours**	11.00
Bit Depth (ft)	1579.00	**Drilling Hours**	5.17
Bottom Hole Depth (ft)	1579.00	**Hours Circulating**	1.25
Total Distance (ft)	627.00	**Hours Sliding**	1.17
Distance Rotated (ft)	537.00	**Hours Rotating**	4.00
Distance Slid (ft)	90.00		
Inclination In	0.70		
Inclination Out	1.23		
Azimuth In	168.33	**% Hours Rotating**	77%
Azimuth Out	231.87	**% Hours Sliding**	23%
AVG Total ROP (ft/h)	121.35	**% Distance Sliding**	14%
AVG Rotating ROP (ft/h)	134.25	**% Distance Rotating**	86%
AVG Sliding ROP (ft/h)	77.14		

Drilling Parameters

Rotating WOB (klbs)	25.00 - 30.00
Sliding WOB (klbs)	18.00 - 25.00
Rotating SPM	240.00 - 275.00
Sliding SPM	240.00 - 275.00
Motor RPM	40.00 - 160.00
Surface RPM	60.00 - 80.00
Flow Rate (gpm)	700.00 - 800.00
On Bottom Pressure (psi)	1600.00 - 2500.00
Off Bottom Pressure (psi)	1000.00 - 1600.00

Personnel

Name	Position
Advance Directional	Directional Driller
Robert Olivarez	MWD Engineer

BHA #1 - BHA #1 (17.5" Surface)

Date In: Jun 2, 2021, 16:45 Date Out: Jun 3, 2021, 11:00

Bit Details

OD (in)	17.500
Vendor	Baker
S/N	5311435
Nozzles	9x12's
Total Flow Area (in²)	0.994
Drilling Hours for Day	5.17
Total Drilled for Day (ft)	627.00
Drilling Hours for BHA	9.42
Total Drilled for BHA (ft)	1459.00

Motor Details

Size (in)	8.0
Lobe/Stage	7/8, 5.9
Bend Angle	1.75
Speed (rev/gal)	0.15
Wear Pad OD (in)	8.313

Bit Distances

Survey (bit to survey): 66.00 ft

Directional Comments

8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 2

MWD Comments

POOH Reason

Total Depth/Casing Point

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *T606KS*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *0.40*, Size (in): *17.50*	Baker	5311435	6 5/8" Reg Pin			17.500		1.50	1.50
Mud Motor Description: *8'' 7/8 5.9 FXD 1.75° w/ 12'' STAB*, Size (in): *8.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5.9*	Butch's	BDT-800-002	6 5/8" Reg Box	6 5/8" Reg Box		8.000		37.06	38.56
Stabilizer Description: *12" NT Stabilizer*	JAO	JAO 12379	6 5/8" Reg Box	6 5/8" Reg Pin	3.000	8.250		6.84	45.40
UBHO Sub Description: *UBHO Sub*, Material: *Non-Magnetic*	AIM	800613	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.000		3.00	48.40
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY80013MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.25	78.65
Drill Collar Description: *NMDC (Spacer)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY800009MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.21	108.86
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD14829	EverDrlg54 Box	6 5/8" Reg Pin	2.750	8.000		3.17	112.03

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Slide Drill	2	06-02	23:50	00:25	06-03	952.00	1002.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *18.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *330*, Toolface Type: *magnetic*

Rotary Drill	1	06-03	00:25	00:45	06-03	1002.00	1045.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *25.00*, Surface RPM: *60*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	06-03	00:45	00:50	06-03	1045.00	1045.00	Inclination (°): *0.700*, Azimuth (°): *168.330*, TVD (ft): *978.60*, Dogleg (º/100 ft): *1.56*, Sensor Depth (ft): *979.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-03	00:50	02:05	06-03	1045.00	1231.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1000.00*, Weight On Bit (klbs): *25.00*, Surface RPM: *60*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	06-03	02:05	02:10	06-03	1231.00	1231.00	Inclination (°): *1.190*, Azimuth (°): *193.550*, TVD (ft): *1164.58*, Dogleg (º/100 ft): *0.34*, Sensor Depth (ft): *1165.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-03	02:10	03:25	06-03	1231.00	1414.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1600.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *60*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *800.00*, Strokes Per Minute: *275.00*
Survey	46	06-03	03:25	03:30	06-03	1414.00	1414.00	Inclination (°): *2.110*, Azimuth (°): *213.680*, TVD (ft): *1347.50*, Dogleg (º/100 ft): *0.59*, Sensor Depth (ft): *1348.00*, Bit To Sensor (ft): *66.00*
Slide Drill	2	06-03	03:30	04:05	06-03	1414.00	1454.00	Pressure On (psi): *2200.00*, Pressure Off (psi): *1600.00*, Weight On Bit (klbs): *25.00*, Flow Rate (gpm): *800.00*, Strokes Per Minute: *275*, Toolface: *30*, Toolface Type: *magnetic*
Rotary Drill	1	06-03	04:05	04:25	06-03	1454.00	1504.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1600.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *80*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *800.00*, Strokes Per Minute: *275.00*
Survey	46	06-03	04:25	04:30	06-03	1504.00	1504.00	Inclination (°): *1.270*, Azimuth (°): *224.490*, TVD (ft): *1437.46*, Dogleg (º/100 ft): *0.99*, Sensor Depth (ft): *1438.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-03	04:30	05:20	06-03	1504.00	1579.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1600.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *80*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *800.00*, Strokes Per Minute: *275.00*
Survey	46	06-03	05:20	05:25	06-03	1579.00	1579.00	Inclination (°): *1.230*, Azimuth (°): *231.870*, TVD (ft): *1512.44*, Dogleg (º/100 ft): *0.22*, Sensor Depth (ft): *1513.00*, Bit To Sensor (ft): *66.00*
Circulating	3	06-03	05:25	06:40	06-03			Circulate - TD of 17 1/2" Section
Pooh	7	06-03	06:40	10:05	06-03			POOH for Casing run
Pooh	7	06-03	10:05	10:20	06-03			POOH F/ 13 3/8" Casing run
Lay Down BHA	65	06-03	10:20	11:00	06-03			L/D BHA #1
Standby	15	06-03	11:00	04:45	06-04			Standby while casing and cementing ops

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Friday, Jun 04 00:00 - 23:59 (Day 3 of 23)

Billing: $5,200.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	1579.00	**Downhole Hours**	19.25
Bit Depth (ft)	4504.00	**Drilling Hours**	11.17
Bottom Hole Depth (ft)	4504.00	**Hours Circulating**	1.67
Total Distance (ft)	2925.00	**Hours Sliding**	2.00
Distance Rotated (ft)	2783.00	**Hours Rotating**	9.17
Distance Slid (ft)	142.00		
Inclination In	0.84		
Inclination Out	2.11		
Azimuth In	207.17	**% Hours Rotating**	82%
Azimuth Out	326.35	**% Hours Sliding**	18%
AVG Total ROP (ft/h)	261.94	**% Distance Sliding**	5%
AVG Rotating ROP (ft/h)	303.60	**% Distance Rotating**	95%
AVG Sliding ROP (ft/h)	71.00		

Drilling Parameters

Rotating WOB (klbs)	55.00 - 65.00
Sliding WOB (klbs)	15.00 - 25.00
Rotating SPM	309.00 - 309.00
Sliding SPM	308.00 - 308.00
Motor RPM	40.00 - 160.00
Surface RPM	70.00 - 70.00
Flow Rate (gpm)	895.00 - 896.00
On Bottom Pressure (psi)	2300.00 - 3100.00
Off Bottom Pressure (psi)	1850.00 - 2200.00

Personnel

Name	Position
Advance Directional	Directional Driller
Robert Olivarez	MWD Engineer
Francisco DeLeon	MWD Engineer

BHA #2 - BHA #2 - Intermediate 12.25"

Date In: Jun 4, 2021, 4:45 Date Out: Jun 5, 2021, 14:15

Bit Details

OD (in)	12.250
Vendor	REED
S/N	A265307
Nozzles	6 x 16's
Total Flow Area (in²)	1.178
Drilling Hours for Day	11.17
Total Drilled for Day (ft)	2925.00
Drilling Hours for BHA	17.92
Total Drilled for BHA (ft)	3914.00

Motor Details

Size (in)	8.0
Lobe/Stage	7/8, 5.9
Bend Angle	1.75
Speed (rev/gal)	0.15
Wear Pad OD (in)	8.313

Bit Distances

Survey (bit to survey): 66.00 ft

Directional Comments

8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 3 Runs

MWD Comments

POOH Reason

Total Depth/Casing Point

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *0.40*, Size (in): *12.25*	REED	A265307	6 5/8" Reg Pin			12.250		1.50	1.50
Mud Motor Description: *8'' 7/8 5.9 FXD 1.75° w/ 12'' STAB*, Size (in): *8.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5.9*	Butch's	BDT-800-002	6 5/8" Reg Box	6 5/8" Reg Box		8.000		37.06	38.56
Stabilizer Description: *12" NT Stabilizer*	JAO	JAO 12379	6 5/8" Reg Box	6 5/8" Reg Pin	3.000	8.250		6.84	45.40
UBHO Sub Description: *UBHO Sub*, Material: *Non-Magnetic*	AIM	800613	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.000		3.00	48.40
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY80013MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.25	78.65
Drill Collar Description: *NMDC (Spacer)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY800009MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.21	108.86
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD14829	EverDrlg54 Box	6 5/8" Reg Pin	2.750	8.000		3.17	112.03

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Standby	15	06-03	11:00	04:45	06-04			Standby while casing and cementing ops
Pick Up BHA	64	06-04	04:45	05:45	06-04			

TIH	8	06-04	05:45	08:15	06-04			TIH W/ BHA # 2
Drilling Cement	17	06-04	08:15	09:55	06-04	1579.00	1579.00	Drilling Cement and Float Equipment F/ 1500 - T/ 1579 [GPM = 495, RPM = 45, WOB = 5/10, DIFF = 100]
Rotary Drill	1	06-04	09:55	10:30	06-04	1579.00	1684.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *55.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	10:30	10:35	06-04	1684.00	1684.00	Inclination (°): *0.840*, Azimuth (°): *207.170*, TVD (ft): *1617.43*, Dogleg (º/100 ft): *0.56*, Sensor Depth (ft): *1618.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	10:35	10:45	06-04	1684.00	1773.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	10:45	10:50	06-04	1773.00	1773.00	Inclination (°): *0.700*, Azimuth (°): *166.920*, TVD (ft): *1706.42*, Dogleg (º/100 ft): *0.61*, Sensor Depth (ft): *1707.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	10:50	11:05	06-04	1773.00	1863.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	11:05	11:10	06-04	1863.00	1863.00	Inclination (°): *0.920*, Azimuth (°): *150.480*, TVD (ft): *1796.41*, Dogleg (º/100 ft): *0.35*, Sensor Depth (ft): *1797.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	11:10	11:20	06-04	1863.00	1952.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	11:20	11:25	06-04	1952.00	1952.00	Inclination (°): *0.840*, Azimuth (°): *152.420*, TVD (ft): *1885.40*, Dogleg (º/100 ft): *0.10*, Sensor Depth (ft): *1886.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	11:25	11:30	06-04	1952.00	2042.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	11:30	11:35	06-04	2042.00	2042.00	Inclination (°): *0.840*, Azimuth (°): *164.370*, TVD (ft): *1975.39*, Dogleg (º/100 ft): *0.19*, Sensor Depth (ft): *1976.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	11:35	11:45	06-04	2042.00	2131.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	11:45	11:50	06-04	2131.00	2131.00	Inclination (°): *0.840*, Azimuth (°): *164.810*, TVD (ft): *2064.38*, Dogleg (º/100 ft): *0.01*, Sensor Depth (ft): *2065.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	11:50	12:20	06-04	2131.00	2221.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	12:20	12:25	06-04	2221.00	2221.00	Inclination (°): *0.660*, Azimuth (°): *181.160*, TVD (ft): *2154.37*, Dogleg (º/100 ft): *0.31*, Sensor Depth (ft): *2155.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	12:25	12:40	06-04	2221.00	2310.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	12:40	12:45	06-04	2310.00	2310.00	Inclination (°): *0.700*, Azimuth (°): *186.700*, TVD (ft): *2243.37*, Dogleg (º/100 ft): *0.09*, Sensor Depth (ft): *2244.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	12:45	12:50	06-04	2310.00	2325.00	Pressure On (psi): *2550.00*, Pressure Off (psi): *1850.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Slide Drill	2	06-04	12:50	13:00	06-04	2325.00	2345.00	Pressure On (psi): *2300.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *15.00*, Flow Rate (gpm): *895.00*, Strokes Per Minute: *308*, Toolface: *30*, Toolface Type: *magnetic*
Rotary Drill	1	06-04	13:00	13:05	06-04	2345.00	2400.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	13:05	13:10	06-04	2400.00	2400.00	Inclination (°): *0.700*, Azimuth (°): *59.690*, TVD (ft): *2333.36*, Dogleg (º/100 ft): *1.39*, Sensor Depth (ft): *2334.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	13:10	13:25	06-04	2400.00	2489.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	13:25	13:30	06-04	2489.00	2489.00	Inclination (°): *2.240*, Azimuth (°): *47.560*, TVD (ft): *2422.33*, Dogleg (º/100 ft): *1.76*, Sensor Depth (ft): *2423.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	13:30	13:50	06-04	2489.00	2579.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	13:50	13:55	06-04	2579.00	2579.00	Inclination (°): *2.550*, Azimuth (°): *45.890*, TVD (ft): *2512.25*, Dogleg (º/100 ft): *0.35*, Sensor Depth (ft): *2513.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	13:55	14:00	06-04	2579.00	2600.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Slide Drill	2	06-04	14:00	14:10	06-04	2600.00	2615.00	Pressure On (psi): *2300.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *15.00*, Flow Rate (gpm): *895.00*, Strokes Per Minute: *308*, Toolface: *220*, Toolface Type: *magnetic*
Rotary Drill	1	06-04	14:10	14:20	06-04	2615.00	2668.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	14:20	14:25	06-04	2668.00	2668.00	Inclination (°): *2.150*, Azimuth (°): *54.160*, TVD (ft): *2601.18*, Dogleg (º/100 ft): *0.59*, Sensor Depth (ft): *2602.00*, Bit To Sensor (ft): *66.00*

Rotary Drill	1	06-04	14:25	14:35	06-04	2668.00	2757.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	14:35	14:40	06-04	2757.00	2757.00	Inclination (°): *1.760*, Azimuth (°): *64.970*, TVD (ft): *2690.13*, Dogleg (º/100 ft): *0.60*, Sensor Depth (ft): *2691.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	14:40	14:50	06-04	2757.00	2847.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	14:50	14:55	06-04	2847.00	2847.00	Inclination (°): *2.110*, Azimuth (°): *68.920*, TVD (ft): *2780.08*, Dogleg (º/100 ft): *0.42*, Sensor Depth (ft): *2781.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	14:55	15:00	06-04	2847.00	2876.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Slide Drill	2	06-04	15:00	15:10	06-04	2876.00	2893.00	Pressure On (psi): *2300.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *15.00*, Flow Rate (gpm): *895.00*, Strokes Per Minute: *308*, Toolface: *300*, Toolface Type: *magnetic*
Rotary Drill	1	06-04	15:10	15:15	06-04	2893.00	2936.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	15:15	15:20	06-04	2936.00	2936.00	Inclination (°): *2.020*, Azimuth (°): *55.910*, TVD (ft): *2869.02*, Dogleg (º/100 ft): *0.54*, Sensor Depth (ft): *2870.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	15:20	15:40	06-04	2936.00	3026.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *70*, Surface Torque (ft lbf): *17500.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	15:40	15:45	06-04	3026.00	3026.00	Inclination (°): *2.150*, Azimuth (°): *40.360*, TVD (ft): *2958.96*, Dogleg (º/100 ft): *0.64*, Sensor Depth (ft): *2960.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	15:45	15:50	06-04	3026.00	3049.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *21000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Slide Drill	2	06-04	15:50	16:10	06-04	3049.00	3069.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *25.00*, Flow Rate (gpm): *895.00*, Strokes Per Minute: *308*, Toolface: *270*, Toolface Type: *magnetic*
Rotary Drill	1	06-04	16:10	16:15	06-04	3069.00	3115.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *21000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	16:15	16:20	06-04	3115.00	3115.00	Inclination (°): *2.150*, Azimuth (°): *30.690*, TVD (ft): *3047.90*, Dogleg (º/100 ft): *0.41*, Sensor Depth (ft): *3049.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	16:20	16:35	06-04	3115.00	3205.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *21000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	16:35	16:40	06-04	3205.00	3205.00	Inclination (°): *2.420*, Azimuth (°): *18.380*, TVD (ft): *3137.83*, Dogleg (º/100 ft): *0.62*, Sensor Depth (ft): *3139.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	16:40	16:50	06-04	3205.00	3294.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *21000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	16:50	16:55	06-04	3294.00	3294.00	Inclination (°): *2.860*, Azimuth (°): *25.420*, TVD (ft): *3226.73*, Dogleg (º/100 ft): *0.61*, Sensor Depth (ft): *3228.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	16:55	17:00	06-04	3294.00	3310.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *21000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Slide Drill	2	06-04	17:00	17:30	06-04	3310.00	3340.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *25.00*, Flow Rate (gpm): *895.00*, Strokes Per Minute: *308*, Toolface: *230*, Toolface Type: *magnetic*
Rotary Drill	1	06-04	17:30	17:35	06-04	3340.00	3384.00	Pressure On (psi): *2800.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *21000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	17:35	17:40	06-04	3384.00	3384.00	Inclination (°): *1.890*, Azimuth (°): *11.180*, TVD (ft): *3316.65*, Dogleg (º/100 ft): *1.25*, Sensor Depth (ft): *3318.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	17:40	17:55	06-04	3384.00	3473.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	17:55	18:00	06-04	3473.00	3473.00	Inclination (°): *1.100*, Azimuth (°): *299.900*, TVD (ft): *3405.63*, Dogleg (º/100 ft): *2.09*, Sensor Depth (ft): *3407.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	18:00	18:10	06-04	3473.00	3498.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Rig Repair	14	06-04	18:10	18:35	06-04			Rig blacked out
Rotary Drill	1	06-04	18:35	18:55	06-04	3498.00	3563.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	18:55	19:05	06-04	3563.00	3563.00	Inclination (°): *1.190*, Azimuth (°): *298.050*, TVD (ft): *3495.61*, Dogleg (º/100 ft): *0.11*, Sensor Depth (ft): *3497.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	19:05	19:45	06-04	3563.00	3742.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	19:45	19:50	06-04	3742.00	3742.00	Inclination (°): *1.490*, Azimuth (°): *300.430*, TVD (ft): *3674.56*, Dogleg (º/100 ft): *0.17*, Sensor Depth (ft): *3676.00*, Bit To Sensor (ft): *66.00*

Rotary Drill	1	06-04	19:50	20:15	06-04	3742.00	3831.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	20:15	20:20	06-04	3831.00	3831.00	Inclination (°): *1.630*, Azimuth (°): *310.450*, TVD (ft): *3763.53*, Dogleg (º/100 ft): *0.34*, Sensor Depth (ft): *3765.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	20:20	20:40	06-04	3831.00	3921.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	20:40	20:45	06-04	3921.00	3921.00	Inclination (°): *1.760*, Azimuth (°): *315.370*, TVD (ft): *3853.49*, Dogleg (º/100 ft): *0.22*, Sensor Depth (ft): *3855.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	20:45	21:10	06-04	3921.00	4010.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	21:10	21:15	06-04	4010.00	4010.00	Inclination (°): *1.710*, Azimuth (°): *325.040*, TVD (ft): *3942.45*, Dogleg (º/100 ft): *0.33*, Sensor Depth (ft): *3944.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	21:15	21:55	06-04	4010.00	4189.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	21:55	22:00	06-04	4189.00	4189.00	Inclination (°): *1.580*, Azimuth (°): *323.190*, TVD (ft): *4121.38*, Dogleg (º/100 ft): *0.08*, Sensor Depth (ft): *4123.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	22:00	22:45	06-04	4189.00	4368.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	22:45	22:50	06-04	4368.00	4368.00	Inclination (°): *2.020*, Azimuth (°): *306.050*, TVD (ft): *4300.29*, Dogleg (º/100 ft): *0.39*, Sensor Depth (ft): *4302.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	22:50	23:10	06-04	4368.00	4458.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-04	23:10	23:15	06-04	4458.00	4458.00	Inclination (°): *2.110*, Azimuth (°): *326.350*, TVD (ft): *4390.23*, Dogleg (º/100 ft): *0.81*, Sensor Depth (ft): *4392.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-04	23:15	23:20	06-04	4458.00	4464.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Slide Drill	2	06-04	23:20	00:00	06-05	4464.00	4504.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *2200.00*, Weight On Bit (klbs): *20.00*, Flow Rate (gpm): *895.00*, Strokes Per Minute: *308*, Toolface: *160*, Toolface Type: *magnetic*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Saturday, Jun 05 00:00 - 23:59 (Day 4 of 23)

Billing: $6,870.75 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	4504.00	**Downhole Hours**	14.25
Bit Depth (ft)	5493.00	**Drilling Hours**	6.75
Bottom Hole Depth (ft)	5493.00	**Hours Circulating**	1.00
Total Distance (ft)	989.00	**Hours Sliding**	1.92
Distance Rotated (ft)	938.00	**Hours Rotating**	4.83
Distance Slid (ft)	51.00		
Inclination In	1.89		
Inclination Out	1.32		
Azimuth In	320.03	**% Hours Rotating**	72%
Azimuth Out	199.97	**% Hours Sliding**	28%
AVG Total ROP (ft/h)	138.74	**% Distance Sliding**	5%
AVG Rotating ROP (ft/h)	194.07	**% Distance Rotating**	95%
AVG Sliding ROP (ft/h)	35.23		

Drilling Parameters

Rotating WOB (klbs)	50.00 - 65.00
Sliding WOB (klbs)	30.00 - 30.00
Rotating SPM	309.00 - 309.00
Sliding SPM	309.00 - 309.00
Motor RPM	40.00 - 160.00
Surface RPM	70.00 - 70.00
Flow Rate (gpm)	896.00 - 896.00
On Bottom Pressure (psi)	2600.00 - 3250.00
Off Bottom Pressure (psi)	2000.00 - 2300.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #2 - BHA #2 - Intermediate 12.25"

Date In: Jun 4, 2021, 4:45 Date Out: Jun 5, 2021, 14:15

Bit Details

OD (in)	12.250
Vendor	REED
S/N	A265307
Nozzles	6 x 16's
Total Flow Area (in²)	1.178
Drilling Hours for Day	6.75
Total Drilled for Day (ft)	989.00
Drilling Hours for BHA	17.92
Total Drilled for BHA (ft)	3914.00

Motor Details

Size (in)	8.0
Lobe/Stage	7/8, 5.9
Bend Angle	1.75
Speed (rev/gal)	0.15
Wear Pad OD (in)	8.313

Bit Distances

Survey (bit to survey): 66.00 ft

Directional Comments

8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 3 Runs

MWD Comments

POOH Reason

Total Depth/Casing Point

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *0.40*, Size (in): *12.25*	REED	A265307	6 5/8" Reg Pin			12.250		1.50	1.50
Mud Motor Description: *8'' 7/8 5.9 FXD 1.75° w/ 12'' STAB*, Size (in): *8.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5.9*	Butch's	BDT-800-002	6 5/8" Reg Box	6 5/8" Reg Box		8.000		37.06	38.56
Stabilizer Description: *12" NT Stabilizer*	JAO	JAO 12379	6 5/8" Reg Box	6 5/8" Reg Pin	3.000	8.250		6.84	45.40
UBHO Sub Description: *UBHO Sub*, Material: *Non-Magnetic*	AIM	800613	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.000		3.00	48.40
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY80013MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.25	78.65
Drill Collar Description: *NMDC (Spacer)*, Material: *Non-Magnetic*, Type: *Slick Drill*	AIM	DY800009MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.21	108.86
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD14829	EverDrlg54 Box	6 5/8" Reg Pin	2.750	8.000		3.17	112.03

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details

Slide Drill	2	06-04	23:20	00:00	06-05	4464.00	4504.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *2200.00*, Weight On Bit (klbs): *20.00*, Flow Rate (gpm): *895.00*, Strokes Per Minute: *308*, Toolface: *160*, Toolface Type: *magnetic*
Rotary Drill	1	06-05	00:00	00:10	06-05	4504.00	4548.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	00:10	00:15	06-05	4548.00	4548.00	Inclination (°): *1.890*, Azimuth (°): *320.030*, TVD (ft): *4480.18*, Dogleg (º/100 ft): *0.35*, Sensor Depth (ft): *4482.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-05	00:15	00:40	06-05	4548.00	4638.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	00:40	00:45	06-05	4638.00	4638.00	Inclination (°): *1.630*, Azimuth (°): *284.780*, TVD (ft): *4570.14*, Dogleg (º/100 ft): *1.22*, Sensor Depth (ft): *4572.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-05	00:45	01:25	06-05	4638.00	4817.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	01:25	01:30	06-05	4817.00	4817.00	Inclination (°): *1.760*, Azimuth (°): *283.550*, TVD (ft): *4749.06*, Dogleg (º/100 ft): *0.08*, Sensor Depth (ft): *4751.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-05	01:30	02:25	06-05	4817.00	4996.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	02:25	02:30	06-05	4996.00	4996.00	Inclination (°): *1.710*, Azimuth (°): *281.790*, TVD (ft): *4927.98*, Dogleg (º/100 ft): *0.04*, Sensor Depth (ft): *4930.00*, Bit To Sensor (ft): *66.00*
Slide Drill	2	06-05	02:30	02:45	06-05	4996.00	5007.00	Toolface: *135*, Toolface Type: *magnetic*
Rotary Drill	1	06-05	02:45	03:15	06-05	5007.00	5085.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	03:15	03:20	06-05	5085.00	5085.00	Inclination (°): *1.270*, Azimuth (°): *262.110*, TVD (ft): *5016.95*, Dogleg (º/100 ft): *0.75*, Sensor Depth (ft): *5019.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-05	03:20	03:55	06-05	5085.00	5175.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	03:55	04:00	06-05	5175.00	5175.00	Inclination (°): *1.100*, Azimuth (°): *255.950*, TVD (ft): *5106.93*, Dogleg (º/100 ft): *0.24*, Sensor Depth (ft): *5109.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-05	04:00	04:50	06-05	5175.00	5354.00	Pressure On (psi): *3100.00*, Pressure Off (psi): *2000.00*, Weight On Bit (klbs): *65.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	04:50	04:55	06-05	5354.00	5354.00	Inclination (°): *1.050*, Azimuth (°): *247.080*, TVD (ft): *5285.90*, Dogleg (º/100 ft): *0.10*, Sensor Depth (ft): *5288.00*, Bit To Sensor (ft): *66.00*
Slide Drill	2	06-05	04:55	06:35	06-05	5354.00	5394.00	Pressure On (psi): *2600.00*, Pressure Off (psi): *2300.00*, Weight On Bit (klbs): *30.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309*, Toolface: *155*, Toolface Type: *magnetic*
Rotary Drill	1	06-05	06:35	06:50	06-05	5394.00	5443.00	Pressure On (psi): *3250.00*, Pressure Off (psi): *2300.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	06:50	06:55	06-05	5443.00	5443.00	Inclination (°): *1.190*, Azimuth (°): *217.810*, TVD (ft): *5374.88*, Dogleg (º/100 ft): *0.65*, Sensor Depth (ft): *5377.00*, Bit To Sensor (ft): *66.00*
Rotary Drill	1	06-05	06:55	07:25	06-05	5443.00	5493.00	Pressure On (psi): *3250.00*, Pressure Off (psi): *2300.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *70*, Surface Torque (ft lbf): *22000.00*, Flow Rate (gpm): *896.00*, Strokes Per Minute: *309.00*
Survey	46	06-05	07:25	07:30	06-05	5493.00	5493.00	Inclination (°): *1.320*, Azimuth (°): *199.970*, TVD (ft): *5424.87*, Dogleg (º/100 ft): *0.82*, Sensor Depth (ft): *5427.00*, Bit To Sensor (ft): *66.00*
Circulating	3	06-05	07:30	08:30	06-05			Circulating - TD 12.25" section @ 5493'
Pooh	7	06-05	08:30	13:40	06-05			POOH for 9 5/8" Casing Run / Cement
Lay Down BHA	65	06-05	13:40	14:15	06-05			L/D BHA #2
Standby	15	06-05	14:15	04:00	06-06			Standby while running casing, skidding rig

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Sunday, Jun 06 00:00 - 23:59 (Day 5 of 23)

Billing: N/A ($253,435.75 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)		**Downhole Hours**	0.00	**Rotating WOB (klbs)**	
Bit Depth (ft)		**Drilling Hours**	0.00	**Sliding WOB (klbs)**	
Bottom Hole Depth (ft)		**Hours Circulating**	0.00	**Rotating SPM**	
Total Distance (ft)	0.00	**Hours Sliding**	0.00	**Sliding SPM**	
Distance Rotated (ft)	0.00	**Hours Rotating**	0.00	**Motor RPM**	-
Distance Slid (ft)	0.00			**Surface RPM**	
Inclination In				**Flow Rate (gpm)**	
Inclination Out				**On Bottom Pressure (psi)**	
Azimuth In		**% Hours Rotating**		**Off Bottom Pressure (psi)**	
Azimuth Out		**% Hours Sliding**			
AVG Total ROP (ft/h)	0.00	**% Distance Sliding**			
AVG Rotating ROP (ft/h)	0.00	**% Distance Rotating**			
AVG Sliding ROP (ft/h)	0.00				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

No BHAs

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Standby	15	06-05	14:15	04:00	06-06			Standby while running casing, skidding rig

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Friday, Jul 16 00:00 - 23:59 (Day 6 of 23)

Billing: $9,500.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)		**Downhole Hours**	5.25
Bit Depth (ft)		**Drilling Hours**	0.00
Bottom Hole Depth (ft)		**Hours Circulating**	1.50
Total Distance (ft)	0.00	**Hours Sliding**	0.00
Distance Rotated (ft)	0.00	**Hours Rotating**	0.00
Distance Slid (ft)	0.00		
Inclination In			
Inclination Out			
Azimuth In		**% Hours Rotating**	
Azimuth Out		**% Hours Sliding**	
AVG Total ROP (ft/h)	0.00	**% Distance Sliding**	
AVG Rotating ROP (ft/h)	0.00	**% Distance Rotating**	
AVG Sliding ROP (ft/h)	0.00		

Drilling Parameters

Rotating WOB (klbs)	
Sliding WOB (klbs)	
Rotating SPM	
Sliding SPM	
Motor RPM	169.00 - 182.00
Surface RPM	
Flow Rate (gpm)	
On Bottom Pressure (psi)	
Off Bottom Pressure (psi)	

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #3 - Intermediate 8.75"

Date In: Jul 16, 2021, 18:45 Date Out: Jul 18, 2021, 15:45

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280186
Nozzles	6x16's
Total Flow Area (in²)	1.178
Drilling Hours for Day	0.00
Total Drilled for Day (ft)	
Drilling Hours for BHA	23.08
Total Drilled for BHA (ft)	5332.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.250

Bit Distances

Survey: 65.00 ft, **Gamma:** 50.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66-AZ2*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280186	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ 8.5'' STAB*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700007	4 1/2" IF Box	4 1/2" Reg Box		7.000		35.10	36.10
Stabilizer Description: *8.5" Stabilizer*	JA	86989	4 1/2" IF Box	4 1/2" IF Pin	2.313	6.500		5.25	41.35
UBHO Sub Description: *UBHO DAO*, Material: *Non-Magnetic*	AIM	675361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	43.61
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-003	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.625		30.56	74.17
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	104.55
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	107.55
HWDP Description: *13 STANDS HWDP*, Type: *Slick*	RIG		EverDrlg54 Box	EverDrlg54 Pin	2.875	5.500		1213.05	1320.60

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Standby	15	07-16	00:00	17:15	07-16			Standby while WALKING RIG & RIG UP
Pick Up BHA	64	07-16	17:15	18:45	07-16			P/U BHA

TIH	8	07-16	18:45	21:40	07-16			TIH
Circulating	3	07-16	21:40	23:10	07-16			DRILL OUT DV TOOL
TIH	8	07-16	23:10	00:10	07-17			TIH

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Saturday, Jul 17 00:00 - 23:59 (Day 7 of 23)

Billing: $5,800.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	5493.00	**Downhole Hours**	24.00
Bit Depth (ft)	9650.00	**Drilling Hours**	15.17
Bottom Hole Depth (ft)	9650.00	**Hours Circulating**	1.67
Total Distance (ft)	4157.00	**Hours Sliding**	0.92
Distance Rotated (ft)	4082.00	**Hours Rotating**	14.25
Distance Slid (ft)	75.00		
Inclination In	2.02		
Inclination Out	4.00		
Azimuth In	198.65	**% Hours Rotating**	94%
Azimuth Out	224.75	**% Hours Sliding**	6%
AVG Total ROP (ft/h)	271.02	**% Distance Sliding**	2%
AVG Rotating ROP (ft/h)	282.78	**% Distance Rotating**	98%
AVG Sliding ROP (ft/h)	81.82		

Drilling Parameters

Rotating WOB (klbs)	30.00 - 30.00
Sliding WOB (klbs)	18.00 - 30.00
Rotating SPM	240.00 - 240.00
Sliding SPM	231.00 - 240.00
Motor RPM	169.00 - 182.00
Surface RPM	30.00 - 30.00
Flow Rate (gpm)	670.00 - 700.00
On Bottom Pressure (psi)	2100.00 - 2500.00
Off Bottom Pressure (psi)	1800.00 - 1900.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #3 - Intermediate 8.75"

Date In: Jul 16, 2021, 18:45 Date Out: Jul 18, 2021, 15:45

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280186
Nozzles	6x16's
Total Flow Area (in²)	1.178
Drilling Hours for Day	15.17
Total Drilled for Day (ft)	4157.00
Drilling Hours for BHA	23.08
Total Drilled for BHA (ft)	5332.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.250

Bit Distances

Survey: 65.00 ft, **Gamma:** 50.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66-AZ2*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280186	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ 8.5'' STAB*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700007	4 1/2" IF Box	4 1/2" Reg Box		7.000		35.10	36.10
Stabilizer Description: *8.5" Stabilizer*	JA	86989	4 1/2" IF Box	4 1/2" IF Pin	2.313	6.500		5.25	41.35
UBHO Sub Description: *UBHO DAO*, Material: *Non-Magnetic*	AIM	675361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	43.61
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-003	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.625		30.56	74.17
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	104.55
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	107.55
HWDP Description: *13 STANDS HWDP*, Type: *Slick*	RIG		EverDrlg54 Box	EverDrlg54 Pin	2.875	5.500		1213.05	1320.60

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
TIH	8	07-16	23:10	00:10	07-17			TIH

Drilling Cement	17	07-17	00:10	00:55	07-17	5493.00	5391.00	Drilling Cement and Float Equipment
Other	16	07-17	00:55	01:45	07-17			CASING TEST
Other	16	07-17	01:45	03:40	07-17			SLIP AND CUT DRILL LINE
Drilling Cement	17	07-17	03:40	04:35	07-17	5391.00	5493.00	Drilling Cement
Rotary Drill	1	07-17	04:35	05:10	07-17	5493.00	5567.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-17	05:10	05:20	07-17	5567.00	5582.00	Pressure On (psi): *2100.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *18.00*, Flow Rate (gpm): *695.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *magnetic*
Rotary Drill	1	07-17	05:20	05:30	07-17	5582.00	5618.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	05:30	05:35	07-17	5618.00	5618.00	Inclination (°): *2.020*, Azimuth (°): *198.650*, TVD (ft): *5550.81*, Dogleg (º/100 ft): *0.56*, Sensor Depth (ft): *5553.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	05:35	05:55	07-17	5618.00	5707.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	05:55	06:00	07-17	5707.00	5707.00	Inclination (°): *4.570*, Azimuth (°): *184.410*, TVD (ft): *5639.66*, Dogleg (º/100 ft): *2.99*, Sensor Depth (ft): *5642.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	06:00	06:15	07-17	5707.00	5797.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	06:15	06:20	07-17	5797.00	5797.00	Inclination (°): *4.660*, Azimuth (°): *189.330*, TVD (ft): *5729.37*, Dogleg (º/100 ft): *0.45*, Sensor Depth (ft): *5732.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	06:20	06:35	07-17	5797.00	5887.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	06:35	06:50	07-17	5887.00	5887.00	Inclination (°): *4.620*, Azimuth (°): *189.600*, TVD (ft): *5819.07*, Dogleg (º/100 ft): *0.05*, Sensor Depth (ft): *5822.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	06:50	07:10	07-17	5887.00	5977.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	07:10	07:15	07-17	5977.00	5977.00	Inclination (°): *4.660*, Azimuth (°): *187.570*, TVD (ft): *5908.78*, Dogleg (º/100 ft): *0.19*, Sensor Depth (ft): *5912.00*, Bit To Sensor (ft): *65.00*
Slide Drill	2	07-17	07:15	07:25	07-17	5977.00	5997.00	Pressure On (psi): *2100.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *18.00*, Flow Rate (gpm): *695.00*, Strokes Per Minute: *240*, Toolface: *275*, Toolface Type: *magnetic*
Rotary Drill	1	07-17	07:25	07:35	07-17	5997.00	6066.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	07:35	07:40	07-17	6066.00	6066.00	Inclination (°): *4.660*, Azimuth (°): *223.260*, TVD (ft): *5997.50*, Dogleg (º/100 ft): *3.21*, Sensor Depth (ft): *6001.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	07:40	08:00	07-17	6066.00	6156.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	08:00	08:05	07-17	6156.00	6156.00	Inclination (°): *4.880*, Azimuth (°): *229.850*, TVD (ft): *6087.19*, Dogleg (º/100 ft): *0.66*, Sensor Depth (ft): *6091.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	08:05	08:20	07-17	6156.00	6245.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	08:20	08:25	07-17	6245.00	6245.00	Inclination (°): *4.700*, Azimuth (°): *231.080*, TVD (ft): *6175.88*, Dogleg (º/100 ft): *0.23*, Sensor Depth (ft): *6180.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	08:25	08:35	07-17	6245.00	6335.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	08:35	08:40	07-17	6335.00	6335.00	Inclination (°): *5.140*, Azimuth (°): *231.610*, TVD (ft): *6265.55*, Dogleg (º/100 ft): *0.49*, Sensor Depth (ft): *6270.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	08:40	08:55	07-17	6335.00	6424.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	08:55	09:00	07-17	6424.00	6424.00	Inclination (°): *5.230*, Azimuth (°): *232.570*, TVD (ft): *6354.19*, Dogleg (º/100 ft): *0.14*, Sensor Depth (ft): *6359.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	09:00	09:10	07-17	6424.00	6514.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	09:10	09:15	07-17	6514.00	6514.00	Inclination (°): *5.230*, Azimuth (°): *234.860*, TVD (ft): *6443.81*, Dogleg (º/100 ft): *0.23*, Sensor Depth (ft): *6449.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	09:15	09:30	07-17	6514.00	6604.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	09:30	09:35	07-17	6604.00	6604.00	Inclination (°): *5.100*, Azimuth (°): *234.600*, TVD (ft): *6533.45*, Dogleg (º/100 ft): *0.15*, Sensor Depth (ft): *6539.00*, Bit To Sensor (ft): *65.00*

Rotary Drill	1	07-17	09:35	09:45	07-17	6604.00	6694.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	09:45	09:50	07-17	6694.00	6694.00	Inclination (°): *5.010*, Azimuth (°): *235.740*, TVD (ft): *6623.10*, Dogleg (º/100 ft): *0.15*, Sensor Depth (ft): *6629.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	09:50	10:00	07-17	6694.00	6783.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	10:00	10:05	07-17	6783.00	6783.00	Inclination (°): *4.790*, Azimuth (°): *237.760*, TVD (ft): *6711.77*, Dogleg (º/100 ft): *0.31*, Sensor Depth (ft): *6718.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	10:05	10:15	07-17	6783.00	6873.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	10:15	10:20	07-17	6873.00	6873.00	Inclination (°): *4.790*, Azimuth (°): *236.790*, TVD (ft): *6801.46*, Dogleg (º/100 ft): *0.09*, Sensor Depth (ft): *6808.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	10:20	10:30	07-17	6873.00	6962.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	10:30	10:35	07-17	6962.00	6962.00	Inclination (°): *5.010*, Azimuth (°): *241.630*, TVD (ft): *6890.13*, Dogleg (º/100 ft): *0.53*, Sensor Depth (ft): *6897.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	10:35	10:45	07-17	6962.00	7051.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	10:45	10:50	07-17	7051.00	7051.00	Inclination (°): *4.880*, Azimuth (°): *244.260*, TVD (ft): *6978.80*, Dogleg (º/100 ft): *0.29*, Sensor Depth (ft): *6986.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	10:50	11:05	07-17	7051.00	7140.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	11:05	11:10	07-17	7140.00	7140.00	Inclination (°): *4.700*, Azimuth (°): *242.590*, TVD (ft): *7067.49*, Dogleg (º/100 ft): *0.26*, Sensor Depth (ft): *7075.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	11:10	11:20	07-17	7140.00	7230.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	11:20	11:25	07-17	7230.00	7230.00	Inclination (°): *4.350*, Azimuth (°): *239.610*, TVD (ft): *7157.21*, Dogleg (º/100 ft): *0.47*, Sensor Depth (ft): *7165.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	11:25	11:35	07-17	7230.00	7320.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	11:35	11:40	07-17	7320.00	7320.00	Inclination (°): *4.400*, Azimuth (°): *240.480*, TVD (ft): *7246.95*, Dogleg (º/100 ft): *0.09*, Sensor Depth (ft): *7255.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	11:40	11:55	07-17	7320.00	7409.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	11:55	12:00	07-17	7409.00	7409.00	Inclination (°): *4.310*, Azimuth (°): *239.520*, TVD (ft): *7335.69*, Dogleg (º/100 ft): *0.13*, Sensor Depth (ft): *7344.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	12:00	12:10	07-17	7409.00	7499.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Rotary Drill	1	07-17	12:10	12:30	07-17	7499.00	7588.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	12:30	12:35	07-17	7588.00	7588.00	Inclination (°): *4.260*, Azimuth (°): *238.900*, TVD (ft): *7514.19*, Dogleg (º/100 ft): *0.04*, Sensor Depth (ft): *7523.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	12:35	12:45	07-17	7588.00	7678.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	12:45	12:50	07-17	7678.00	7678.00	Inclination (°): *4.260*, Azimuth (°): *236.970*, TVD (ft): *7603.94*, Dogleg (º/100 ft): *0.16*, Sensor Depth (ft): *7613.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	12:50	13:05	07-17	7678.00	7768.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	13:05	13:10	07-17	7768.00	7768.00	Inclination (°): *4.220*, Azimuth (°): *234.070*, TVD (ft): *7693.69*, Dogleg (º/100 ft): *0.24*, Sensor Depth (ft): *7703.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	13:10	13:25	07-17	7768.00	7857.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	13:25	13:30	07-17	7857.00	7857.00	Inclination (°): *3.960*, Azimuth (°): *235.210*, TVD (ft): *7782.47*, Dogleg (º/100 ft): *0.31*, Sensor Depth (ft): *7792.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	13:30	13:45	07-17	7857.00	7947.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	13:45	13:50	07-17	7947.00	7947.00	Inclination (°): *3.650*, Azimuth (°): *233.720*, TVD (ft): *7872.27*, Dogleg (º/100 ft): *0.36*, Sensor Depth (ft): *7882.00*, Bit To Sensor (ft): *65.00*

Rotary Drill	1	07-17	13:50	14:10	07-17	7947.00	8037.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	14:10	14:20	07-17	8037.00	8037.00	Inclination (°): *3.560*, Azimuth (°): *229.670*, TVD (ft): *7962.09*, Dogleg (º/100 ft): *0.30*, Sensor Depth (ft): *7972.00*, Bit To Sensor (ft): *65.00*
Slide Drill	2	07-17	14:20	14:35	07-17	8037.00	8057.00	Pressure On (psi): *2100.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *25.00*, Flow Rate (gpm): *695.00*, Strokes Per Minute: *240*, Toolface: *245*, Toolface Type: *magnetic*
Rotary Drill	1	07-17	14:35	15:00	07-17	8057.00	8126.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	15:00	15:10	07-17	8126.00	8126.00	Inclination (°): *5.980*, Azimuth (°): *236.440*, TVD (ft): *8050.78*, Dogleg (º/100 ft): *2.79*, Sensor Depth (ft): *8061.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	15:10	15:25	07-17	8126.00	8216.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	15:25	15:30	07-17	8216.00	8216.00	Inclination (°): *6.290*, Azimuth (°): *237.410*, TVD (ft): *8140.26*, Dogleg (º/100 ft): *0.36*, Sensor Depth (ft): *8151.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	15:30	15:50	07-17	8216.00	8305.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	15:50	15:55	07-17	8305.00	8305.00	Inclination (°): *6.290*, Azimuth (°): *236.880*, TVD (ft): *8228.73*, Dogleg (º/100 ft): *0.07*, Sensor Depth (ft): *8240.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	15:55	16:15	07-17	8305.00	8395.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	16:15	16:20	07-17	8395.00	8395.00	Inclination (°): *6.020*, Azimuth (°): *234.950*, TVD (ft): *8318.21*, Dogleg (º/100 ft): *0.38*, Sensor Depth (ft): *8330.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	16:20	16:35	07-17	8395.00	8484.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	16:35	16:40	07-17	8484.00	8484.00	Inclination (°): *6.020*, Azimuth (°): *237.580*, TVD (ft): *8406.72*, Dogleg (º/100 ft): *0.31*, Sensor Depth (ft): *8419.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	16:40	17:00	07-17	8484.00	8574.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	17:00	17:05	07-17	8574.00	8574.00	Inclination (°): *6.070*, Azimuth (°): *238.370*, TVD (ft): *8496.22*, Dogleg (º/100 ft): *0.11*, Sensor Depth (ft): *8509.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	17:05	17:30	07-17	8574.00	8664.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	17:30	17:35	07-17	8664.00	8664.00	Inclination (°): *5.890*, Azimuth (°): *238.370*, TVD (ft): *8585.73*, Dogleg (º/100 ft): *0.20*, Sensor Depth (ft): *8599.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	17:35	18:00	07-17	8664.00	8753.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	18:00	18:05	07-17	8753.00	8753.00	Inclination (°): *5.710*, Azimuth (°): *237.670*, TVD (ft): *8674.27*, Dogleg (º/100 ft): *0.22*, Sensor Depth (ft): *8688.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	18:05	18:40	07-17	8753.00	8843.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	18:40	18:45	07-17	8843.00	8843.00	Inclination (°): *5.760*, Azimuth (°): *235.910*, TVD (ft): *8763.82*, Dogleg (º/100 ft): *0.20*, Sensor Depth (ft): *8778.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	18:45	19:20	07-17	8843.00	8933.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	19:20	19:25	07-17	8933.00	8933.00	Inclination (°): *5.670*, Azimuth (°): *234.160*, TVD (ft): *8853.37*, Dogleg (º/100 ft): *0.22*, Sensor Depth (ft): *8868.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	19:25	19:50	07-17	8933.00	9022.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	19:50	19:55	07-17	9022.00	9022.00	Inclination (°): *5.490*, Azimuth (°): *234.160*, TVD (ft): *8941.95*, Dogleg (º/100 ft): *0.20*, Sensor Depth (ft): *8957.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	19:55	20:20	07-17	9022.00	9112.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	20:20	20:25	07-17	9112.00	9112.00	Inclination (°): *4.920*, Azimuth (°): *231.960*, TVD (ft): *9031.58*, Dogleg (º/100 ft): *0.67*, Sensor Depth (ft): *9047.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	20:25	20:55	07-17	9112.00	9201.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	20:55	21:00	07-17	9201.00	9201.00	Inclination (°): *3.910*, Azimuth (°): *225.190*, TVD (ft): *9120.31*, Dogleg (º/100 ft): *1.28*, Sensor Depth (ft): *9136.00*, Bit To Sensor (ft): *65.00*

Rotary Drill	1	07-17	21:00	21:20	07-17	9201.00	9291.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	21:20	21:25	07-17	9291.00	9291.00	Inclination (°): *3.210*, Azimuth (°): *223.260*, TVD (ft): *9210.14*, Dogleg (º/100 ft): *0.79*, Sensor Depth (ft): *9226.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	21:25	21:30	07-17	9291.00	9313.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-17	21:30	21:50	07-17	9313.00	9333.00	Pressure On (psi): *2200.00*, Pressure Off (psi): *1900.00*, Weight On Bit (klbs): *30.00*, Flow Rate (gpm): *670.00*, Strokes Per Minute: *231*, Toolface: *230*, Toolface Type: *magnetic*
Rotary Drill	1	07-17	21:50	22:15	07-17	9333.00	9381.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	22:15	22:20	07-17	9381.00	9381.00	Inclination (°): *4.350*, Azimuth (°): *229.060*, TVD (ft): *9299.94*, Dogleg (º/100 ft): *1.33*, Sensor Depth (ft): *9316.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	22:20	22:35	07-17	9381.00	9470.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	22:35	22:40	07-17	9470.00	9470.00	Inclination (°): *4.350*, Azimuth (°): *230.820*, TVD (ft): *9388.69*, Dogleg (º/100 ft): *0.15*, Sensor Depth (ft): *9405.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	22:40	23:10	07-17	9470.00	9560.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	23:10	23:15	07-17	9560.00	9560.00	Inclination (°): *4.040*, Azimuth (°): *224.490*, TVD (ft): *9478.45*, Dogleg (º/100 ft): *0.62*, Sensor Depth (ft): *9495.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	23:15	23:45	07-17	9560.00	9650.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-17	23:45	23:50	07-17	9650.00	9650.00	Inclination (°): *4.000*, Azimuth (°): *224.750*, TVD (ft): *9568.23*, Dogleg (º/100 ft): *0.05*, Sensor Depth (ft): *9585.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-17	23:50	00:20	07-18	9650.00	9739.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Sunday, Jul 18 00:00 - 23:59 (Day 8 of 23)

Billing: $16,865.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	9650.00	**Downhole Hours**	22.50	**Rotating WOB (klbs)**	30.00 - 30.00
Bit Depth (ft)	10825.00	**Drilling Hours**	7.92	**Sliding WOB (klbs)**	
Bottom Hole Depth (ft)	10825.00	**Hours Circulating**	1.58	**Rotating SPM**	240.00 - 240.00
Total Distance (ft)	1175.00	**Hours Sliding**	0.25	**Sliding SPM**	
Distance Rotated (ft)	1165.00	**Hours Rotating**	7.67	**Motor RPM**	143.00 - 182.00
Distance Slid (ft)	10.00			**Surface RPM**	30.00 - 30.00
Inclination In	3.78			**Flow Rate (gpm)**	700.00 - 700.00
Inclination Out	1.45			**On Bottom Pressure (psi)**	2500.00 - 2500.00
Azimuth In	226.16	**% Hours Rotating**	97%	**Off Bottom Pressure (psi)**	1800.00 - 1800.00
Azimuth Out	223.96	**% Hours Sliding**	3%		
AVG Total ROP (ft/h)	148.42	**% Distance Sliding**	1%		
AVG Rotating ROP (ft/h)	151.96	**% Distance Rotating**	99%		
AVG Sliding ROP (ft/h)	40.00				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #3 - Intermediate 8.75"

Date In: Jul 16, 2021, 18:45 Date Out: Jul 18, 2021, 15:45

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280186
Nozzles	6x16's
Total Flow Area (in²)	1.178
Drilling Hours for Day	7.92
Total Drilled for Day (ft)	1175.00
Drilling Hours for BHA	23.08
Total Drilled for BHA (ft)	5332.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.250

Bit Distances

Survey: 65.00 ft, **Gamma:** 50.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66-AZ2*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280186	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ 8.5'' STAB*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700007	4 1/2" IF Box	4 1/2" Reg Box		7.000		35.10	36.10
Stabilizer Description: *8.5" Stabilizer*	JA	86989	4 1/2" IF Box	4 1/2" IF Pin	2.313	6.500		5.25	41.35
UBHO Sub Description: *UBHO DAO*, Material: *Non-Magnetic*	AIM	675361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	43.61
Drill Collar Description: *NMDC (MWD Tool)*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-003	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.625		30.56	74.17
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	104.55
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	107.55
HWDP Description: *13 STANDS HWDP*, Type: *Slick*	RIG		EverDrlg54 Box	EverDrlg54 Pin	2.875	5.500		1213.05	1320.60

MWD Items

No Items

BHA #4 - 8.75" CURVE

Date In: Jul 18, 2021, 17:15 Date Out: Jul 20, 2021, 4:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	54850
Nozzles	6x15's
Total Flow Area (in²)	1.035
Drilling Hours for Day	0.00
Total Drilled for Day (ft)	
Drilling Hours for BHA	1.50
Total Drilled for BHA (ft)	27.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 5.0
Bend Angle	2.12
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.000

Bit Distances

Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft

Directional Comments

Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2

MWD Comments

POOH Reason

Downhole Motor Incident: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	54850	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 5.0 FXD 2.12°SLICK*, Size (in): *7.00*, Bend Angle (°): *2.12*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	700-40S-001	4 1/2" IF Box	4 1/2" Reg Box		7.000		25.70	26.70
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1005						31.34	58.04
Battery Description: *Resistivity Battery*	BENCHTREE	B6008X						17.22	75.26
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	105.64
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	108.64

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	07-17	23:50	00:20	07-18	9650.00	9739.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	00:20	00:25	07-18	9739.00	9739.00	Inclination (°): *3.780*, Azimuth (°): *226.160*, TVD (ft): *9657.02*, Dogleg (º/100 ft): *0.27*, Sensor Depth (ft): *9674.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	00:25	01:00	07-18	9739.00	9829.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	01:00	01:05	07-18	9829.00	9829.00	Inclination (°): *3.520*, Azimuth (°): *227.650*, TVD (ft): *9746.84*, Dogleg (º/100 ft): *0.31*, Sensor Depth (ft): *9764.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	01:05	01:30	07-18	9829.00	9919.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	01:30	01:35	07-18	9919.00	9919.00	Inclination (°): *3.080*, Azimuth (°): *222.380*, TVD (ft): *9836.69*, Dogleg (º/100 ft): *0.59*, Sensor Depth (ft): *9854.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	01:35	02:00	07-18	9919.00	10008.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	02:00	02:05	07-18	10008.00	10008.00	Inclination (°): *1.890*, Azimuth (°): *208.930*, TVD (ft): *9925.60*, Dogleg (º/100 ft): *1.48*, Sensor Depth (ft): *9943.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	02:05	02:35	07-18	10008.00	10098.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	02:35	02:40	07-18	10098.00	10098.00	Inclination (°): *1.490*, Azimuth (°): *204.100*, TVD (ft): *10015.56*, Dogleg (º/100 ft): *0.47*, Sensor Depth (ft): *10033.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	02:40	02:45	07-18	10098.00	10107.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-18	02:45	03:00	07-18	10107.00	10117.00	Toolface: *250*, Toolface Type: *magnetic*
Rotary Drill	1	07-18	03:00	03:45	07-18	10117.00	10187.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*

Survey	46	07-18	03:45	03:50	07-18	10187.00	10187.00	Inclination (°): *2.680*, Azimuth (°): *232.310*, TVD (ft): *10104.51*, Dogleg (º/100 ft): *1.73*, Sensor Depth (ft): *10122.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	03:50	04:35	07-18	10187.00	10277.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	04:35	04:40	07-18	10277.00	10277.00	Inclination (°): *3.120*, Azimuth (°): *238.990*, TVD (ft): *10194.39*, Dogleg (º/100 ft): *0.62*, Sensor Depth (ft): *10212.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	04:40	05:20	07-18	10277.00	10367.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	05:20	05:25	07-18	10367.00	10367.00	Inclination (°): *2.590*, Azimuth (°): *235.300*, TVD (ft): *10284.28*, Dogleg (º/100 ft): *0.62*, Sensor Depth (ft): *10302.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	05:25	06:05	07-18	10367.00	10457.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	06:05	06:10	07-18	10457.00	10457.00	Inclination (°): *2.290*, Azimuth (°): *232.310*, TVD (ft): *10374.20*, Dogleg (º/100 ft): *0.36*, Sensor Depth (ft): *10392.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	06:10	06:45	07-18	10457.00	10546.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	06:45	06:50	07-18	10546.00	10546.00	Inclination (°): *1.450*, Azimuth (°): *232.220*, TVD (ft): *10463.15*, Dogleg (º/100 ft): *0.94*, Sensor Depth (ft): *10481.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	06:50	07:25	07-18	10546.00	10636.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	07:25	07:30	07-18	10636.00	10636.00	Inclination (°): *1.050*, Azimuth (°): *217.370*, TVD (ft): *10553.13*, Dogleg (º/100 ft): *0.57*, Sensor Depth (ft): *10571.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	07:30	08:05	07-18	10636.00	10725.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	08:05	08:10	07-18	10725.00	10725.00	Inclination (°): *1.320*, Azimuth (°): *210.250*, TVD (ft): *10642.11*, Dogleg (º/100 ft): *0.34*, Sensor Depth (ft): *10660.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	08:10	08:40	07-18	10725.00	10815.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-18	08:40	08:45	07-18	10815.00	10815.00	Inclination (°): *1.450*, Azimuth (°): *223.960*, TVD (ft): *10732.08*, Dogleg (º/100 ft): *0.39*, Sensor Depth (ft): *10750.00*, Bit To Sensor (ft): *65.00*
Rotary Drill	1	07-18	08:45	08:50	07-18	10815.00	10825.00	Pressure On (psi): *2500.00*, Pressure Off (psi): *1800.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *12000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Circulating	3	07-18	08:50	10:25	07-18			CIRC
Pooh	7	07-18	10:25	15:15	07-18			POOH for KOP
Lay Down BHA	65	07-18	15:15	15:45	07-18			L/D BHA #3
Rig Repair	14	07-18	15:45	16:40	07-18			REPAIR ST-120
Pick Up BHA	64	07-18	16:40	17:15	07-18			P/U BHA #4
Other	16	07-18	17:15	19:45	07-18			PROGRAM RES / MWD TOOL
Other	16	07-18	19:45	22:05	07-18			C/O RES REPROGRAM AND TEST
TIH	8	07-18	22:05	03:20	07-19			TIH W/ BHA #4

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Monday, Jul 19 00:00 - 23:59 (Day 9 of 23)

Billing: $9,000.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	10825.00	**Downhole Hours**	24.00	**Rotating WOB (klbs)**	
Bit Depth (ft)	10852.00	**Drilling Hours**	1.50	**Sliding WOB (klbs)**	40.00 - 40.00
Bottom Hole Depth (ft)	10852.00	**Hours Circulating**	1.00	**Rotating SPM**	
Total Distance (ft)	27.00	**Hours Sliding**	1.50	**Sliding SPM**	225.00 - 225.00
Distance Rotated (ft)	0.00	**Hours Rotating**	0.00	**Motor RPM**	143.00 - 156.00
Distance Slid (ft)	27.00			**Surface RPM**	
Inclination In				**Flow Rate (gpm)**	600.00 - 600.00
Inclination Out				**On Bottom Pressure (psi)**	1500.00 - 1500.00
Azimuth In		**% Hours Rotating**	0%	**Off Bottom Pressure (psi)**	1200.00 - 1200.00
Azimuth Out		**% Hours Sliding**	100%		
AVG Total ROP (ft/h)	18.00	**% Distance Sliding**	100%		
AVG Rotating ROP (ft/h)	0.00	**% Distance Rotating**	0%		
AVG Sliding ROP (ft/h)	18.00				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #4 - 8.75" CURVE

Date In: Jul 18, 2021, 17:15 Date Out: Jul 20, 2021, 4:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	54850
Nozzles	6x15's
Total Flow Area (in²)	1.035
Drilling Hours for Day	1.50
Total Drilled for Day (ft)	27.00
Drilling Hours for BHA	1.50
Total Drilled for BHA (ft)	27.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 5.0
Bend Angle	2.12
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.000

Bit Distances

Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft

Directional Comments

Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2

MWD Comments

POOH Reason

Downhole Motor Incident: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	54850	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 5.0 FXD 2.12°SLICK*, Size (in): *7.00*, Bend Angle (°): *2.12*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	700-40S-001	4 1/2" IF Box	4 1/2" Reg Box		7.000		25.70	26.70
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1005						31.34	58.04
Battery Description: *Resistivity Battery*	BENCHTREE	B6008X						17.22	75.26
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	105.64
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	108.64

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
TIH	8	07-18	22:05	03:20	07-19			TIH W/ BHA #4
Troubleshoot	34	07-19	03:20	03:50	07-19			mwd flatline
Pooh	7	07-19	03:50	08:15	07-19			POOH for RES / MWD FAILURE
Other	16	07-19	08:15	12:30	07-19			TROUBLESHOOT RES / MWD TOOL, C/O RES BATTERY
Other	16	07-19	12:30	12:45	07-19			TEST RES / MWD TOOL
TIH	8	07-19	12:45	19:35	07-19			TIH W/ BHA #4
Troubleshoot	34	07-19	19:35	20:20	07-19			Troubleshoot mwd downlink
Circulating	3	07-19	20:20	20:55	07-19			relog f/10757 to 10825

Slide Drill	2	07-19	20:55	22:25	07-19	10825.00	10852.00	Pressure On (psi): *1500.00*, Pressure Off (psi): *1200.00*, Weight On Bit (klbs): *40.00*, Flow Rate (gpm): *600.00*, Strokes Per Minute: *225*, Toolface: *330*, Toolface Type: *magnetic*
Circulating	3	07-19	22:25	22:50	07-19			btms up
Pooh	7	07-19	22:50	04:45	07-20			POOH for motor

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Tuesday, Jul 20 00:00 - 23:59 (Day 10 of 23)

Billing: $11,200.00 ($253,435.75 total)

Drilling Summary

				Drilling Parameters	
Start Depth (ft)	10852.00	**Downhole Hours**	22.50	**Rotating WOB (klbs)**	
Bit Depth (ft)	11125.00	**Drilling Hours**	6.42	**Sliding WOB (klbs)**	40.00 - 40.00
Bottom Hole Depth (ft)	11125.00	**Hours Circulating**	0.00	**Rotating SPM**	
Total Distance (ft)	273.00	**Hours Sliding**	6.42	**Sliding SPM**	225.00 - 225.00
Distance Rotated (ft)	0.00	**Hours Rotating**	0.00	**Motor RPM**	130.00 - 156.00
Distance Slid (ft)	273.00			**Surface RPM**	
Inclination In	3.38			**Flow Rate (gpm)**	600.00 - 600.00
Inclination Out	13.45			**On Bottom Pressure (psi)**	1500.00 - 1500.00
Azimuth In	357.80	**% Hours Rotating**	0%	**Off Bottom Pressure (psi)**	1200.00 - 1200.00
Azimuth Out	356.22	**% Hours Sliding**	100%		
AVG Total ROP (ft/h)	42.55	**% Distance Sliding**	100%		
AVG Rotating ROP (ft/h)	0.00	**% Distance Rotating**	0%		
AVG Sliding ROP (ft/h)	42.55				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #4 - 8.75" CURVE

Date In: Jul 18, 2021, 17:15 Date Out: Jul 20, 2021, 4:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	54850
Nozzles	6x15's
Total Flow Area (in²)	1.035
Drilling Hours for Day	0.00
Total Drilled for Day (ft)	
Drilling Hours for BHA	1.50
Total Drilled for BHA (ft)	27.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 5.0
Bend Angle	2.12
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.000

Bit Distances

Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft

Directional Comments

Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2

MWD Comments

POOH Reason

Downhole Motor Incident: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	54850	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 5.0 FXD 2.12°SLICK*, Size (in): *7.00*, Bend Angle (°): *2.12*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	700-40S-001	4 1/2" IF Box	4 1/2" Reg Box		7.000		25.70	26.70
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1005						31.34	58.04
Battery Description: *Resistivity Battery*	BENCHTREE	B6008X						17.22	75.26
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	105.64
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	108.64

MWD Items

No Items

BHA #5 - 8.75" CURVE

Date In: Jul 20, 2021, 6:15 Date Out: Jul 21, 2021, 7:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	54850
Nozzles	6x15's
Total Flow Area (in²)	1.035
Drilling Hours for Day	6.42
Total Drilled for Day (ft)	273.00
Drilling Hours for BHA	7.08
Total Drilled for BHA (ft)	306.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 5.0
Bend Angle	2.12
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.000

Bit Distances

Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft

Directional Comments

Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2

MWD Comments

POOH Reason

Build Rate: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	54850	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 5.0 FXD 2.12°SLICK*, Size (in): *7.00*, Bend Angle (°): *2.12*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	cdm650-020	4 1/2" IF Box	4 1/2" Reg Box		7.000		25.64	26.64
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	58.02
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	75.49
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	105.87
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	108.87

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Pooh	7	07-19	22:50	04:45	07-20			POOH for motor
Change BHA	6	07-20	04:45	06:15	07-20			P/U BHA # 5
Other	16	07-20	06:15	06:45	07-20			PROGRAM RES / MWD TOOL
Rig Repair	14	07-20	06:45	07:20	07-20			REPAIR ST-120
Other	16	07-20	07:20	07:40	07-20			TEST RES / MWD TOOL
TIH	8	07-20	07:40	15:00	07-20			TIH W/ BHA #5
Other	16	07-20	15:00	16:45	07-20			DOWNLINK RES / MWD
Other	16	07-20	16:45	17:15	07-20			RELOG GAMMA
Slide Drill	2	07-20	17:15	19:45	07-20	10852.00	10947.00	Pressure On (psi): *1500.00*, Pressure Off (psi): *1200.00*, Weight On Bit (klbs): *40.00*, Flow Rate (gpm): *600.00*, Strokes Per Minute: *225*, Toolface: *355*, Toolface Type: *magnetic*
Survey	46	07-20	19:45	19:55	07-20	10947.00	10947.00	Inclination (°): *3.380*, Azimuth (°): *357.800*, TVD (ft): *10870.01*, Dogleg (º/100 ft): *3.27*, Sensor Depth (ft): *10888.00*, Bit To Sensor (ft): *59.00*
Slide Drill	2	07-20	19:55	22:00	07-20	10947.00	11036.00	Pressure On (psi): *1500.00*, Pressure Off (psi): *1200.00*, Weight On Bit (klbs): *40.00*, Flow Rate (gpm): *600.00*, Strokes Per Minute: *225*, Toolface: *0*, Toolface Type: *gravity*
Survey	46	07-20	22:00	22:10	07-20	11036.00	11036.00	Inclination (°): *13.450*, Azimuth (°): *356.220*, TVD (ft): *10957.94*, Dogleg (º/100 ft): *11.32*, Sensor Depth (ft): *10977.00*, Bit To Sensor (ft): *59.00*
Slide Drill	2	07-20	22:10	00:00	07-21	11036.00	11125.00	Toolface: *350*, Toolface Type: *gravity*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Wednesday, Jul 21 00:00 - 23:59 (Day 11 of 23)

Billing: $11,200.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	11125.00	**Downhole Hours**	23.00
Bit Depth (ft)	11395.00	**Drilling Hours**	6.33
Bottom Hole Depth (ft)	11395.00	**Hours Circulating**	0.50
Total Distance (ft)	270.00	**Hours Sliding**	6.33
Distance Rotated (ft)	0.00	**Hours Rotating**	0.00
Distance Slid (ft)	270.00		
Inclination In	21.67		
Inclination Out	56.00		
Azimuth In	356.30	**% Hours Rotating**	0%
Azimuth Out	355.43	**% Hours Sliding**	100%
AVG Total ROP (ft/h)	48.43	**% Distance Sliding**	100%
AVG Rotating ROP (ft/h)	0.00	**% Distance Rotating**	0%
AVG Sliding ROP (ft/h)	48.43		

Drilling Parameters

Rotating WOB (klbs)	
Sliding WOB (klbs)	50.00 - 50.00
Rotating SPM	
Sliding SPM	172.00 - 206.00
Motor RPM	130.00 - 156.00
Surface RPM	
Flow Rate (gpm)	500.00 - 600.00
On Bottom Pressure (psi)	1600.00 - 1600.00
Off Bottom Pressure (psi)	1100.00 - 1100.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #5 - 8.75" CURVE

Date In: Jul 20, 2021, 6:15 Date Out: Jul 21, 2021, 7:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	54850
Nozzles	6x15's
Total Flow Area (in²)	1.035
Drilling Hours for Day	0.67
Total Drilled for Day (ft)	33.00
Drilling Hours for BHA	7.08
Total Drilled for BHA (ft)	306.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 5.0
Bend Angle	2.12
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.000

Bit Distances

Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft

Directional Comments

Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 2

MWD Comments

POOH Reason

Build Rate: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	54850	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 5.0 FXD 2.12°SLICK*, Size (in): *7.00*, Bend Angle (°): *2.12*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	cdm650-020	4 1/2" IF Box	4 1/2" Reg Box		7.000		25.64	26.64
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	58.02
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	75.49
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	105.87
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	108.87

MWD Items

No Items

BHA #6 - 8.75" CURVE

Date In: Jul 21, 2021, 8:45 Date Out: Jul 22, 2021, 7:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	56276
Nozzles	6x15's
Total Flow Area (in²)	1.035
Drilling Hours for Day	5.67
Total Drilled for Day (ft)	237.00
Drilling Hours for BHA	6.75
Total Drilled for BHA (ft)	326.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 5.0
Bend Angle	3.0
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft

Directional Comments

Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	56276	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *6 3/4'' 7/8 5.0 FXD 3.00°ADJ*, Size (in): *7.00*, Bend Angle (°): *3.00*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	cdm650-009	4 1/2" IF Box	4 1/2" Reg Box		7.000		26.03	27.03
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	58.41
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	75.88
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	106.26
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	109.26

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Slide Drill	2	07-20	22:10	00:00	07-21	11036.00	11125.00	Toolface: *350*, Toolface Type: *gravity*
Survey	46	07-21	00:00	00:10	07-21	11125.00	11125.00	Inclination (°): *21.670*, Azimuth (°): *356.300*, TVD (ft): *11042.72*, Dogleg (º/100 ft): *9.24*, Sensor Depth (ft): *11066.00*, Bit To Sensor (ft): *59.00*
Slide Drill	2	07-21	00:10	00:50	07-21	11125.00	11158.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1100.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *500.00*, Strokes Per Minute: *172*, Toolface: *0*, Toolface Type: *gravity*
Circulating	3	07-21	00:50	01:15	07-21			CIR
Pooh	7	07-21	01:15	07:45	07-21			POOH for LOST BUILD RATES
Change BHA	6	07-21	07:45	08:45	07-21			P/U BHA # 6
Other	16	07-21	08:45	09:25	07-21			PROGRAM RES / MWD TOOL
Other	16	07-21	09:25	09:45	07-21			LATCH STAND TO TEST
Other	16	07-21	09:45	10:00	07-21			TEST RES / MWD TOOL
Other	16	07-21	10:00	10:20	07-21			RUN STAND IN MOUSEHOLE & M/U BIT
Rig Service - In Hole	19	07-21	10:20	11:20	07-21			RIG SERVICE
TIH	8	07-21	11:20	13:15	07-21			TIH W/ BHA #6
Other	16	07-21	13:15	14:15	07-21			SLIP & CUT DRILL LINE
TIH	8	07-21	14:15	17:15	07-21			TIH W/ BHA #6
Other	16	07-21	17:15	17:25	07-21			FILL PIPE
Orient Pipe	36	07-21	17:25	17:30	07-21			ORIENT MOTOR @ TOC
Slide Drill	2	07-21	17:30	19:35	07-21	11158.00	11216.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1100.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *600.00*, Strokes Per Minute: *206*, Toolface: *0*, Toolface Type: *gravity*
Survey	46	07-21	19:35	19:45	07-21	11216.00	11216.00	Inclination (°): *31.470*, Azimuth (°): *3.340*, TVD (ft): *11124.03*, Dogleg (º/100 ft): *11.29*, Sensor Depth (ft): *11157.00*, Bit To Sensor (ft): *59.00*
Slide Drill	2	07-21	19:45	21:30	07-21	11216.00	11305.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1100.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *600.00*, Strokes Per Minute: *206*, Toolface: *350*, Toolface Type: *gravity*
Survey	46	07-21	21:30	21:40	07-21	11305.00	11305.00	Inclination (°): *42.460*, Azimuth (°): *1.750*, TVD (ft): *11195.03*, Dogleg (º/100 ft): *12.39*, Sensor Depth (ft): *11246.00*, Bit To Sensor (ft): *59.00*
Slide Drill	2	07-21	21:40	23:30	07-21	11305.00	11395.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1100.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *600.00*, Strokes Per Minute: *206*, Toolface: *350*, Toolface Type: *gravity*
Survey	46	07-21	23:30	23:40	07-21	11395.00	11395.00	Inclination (°): *56.000*, Azimuth (°): *355.430*, TVD (ft): *11253.70*, Dogleg (º/100 ft): *15.94*, Sensor Depth (ft): *11336.00*, Bit To Sensor (ft): *59.00*

Slide Drill	2	07-21	23:40	00:45	07-22	11395.00	11484.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1100.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *600.00*, Strokes Per Minute: *206*, Toolface: *350*, Toolface Type: *gravity*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Thursday, Jul 22 00:00 - 23:59 (Day 12 of 23)

Billing: $23,545.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	11395.00	**Downhole Hours**	22.75	**Rotating WOB (klbs)**	30.00 - 40.00
Bit Depth (ft)	11704.00	**Drilling Hours**	4.25	**Sliding WOB (klbs)**	50.00 - 55.00
Bottom Hole Depth (ft)	11704.00	**Hours Circulating**	3.08	**Rotating SPM**	222.00 - 222.00
Total Distance (ft)	309.00	**Hours Sliding**	2.33	**Sliding SPM**	206.00 - 222.00
Distance Rotated (ft)	143.00	**Hours Rotating**	1.92	**Motor RPM**	156.00 - 171.00
Distance Slid (ft)	166.00			**Surface RPM**	30.00 - 30.00
Inclination In	72.40			**Flow Rate (gpm)**	600.00 - 650.00
Inclination Out	91.69			**On Bottom Pressure (psi)**	1600.00 - 3750.00
Azimuth In	352.44	**% Hours Rotating**	45%	**Off Bottom Pressure (psi)**	1100.00 - 3300.00
Azimuth Out	348.48	**% Hours Sliding**	55%		
AVG Total ROP (ft/h)	72.71	**% Distance Sliding**	54%		
AVG Rotating ROP (ft/h)	74.61	**% Distance Rotating**	46%		
AVG Sliding ROP (ft/h)	71.14				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #6 - 8.75" CURVE

Date In: Jul 21, 2021, 8:45 Date Out: Jul 22, 2021, 7:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	56276
Nozzles	6x15's
Total Flow Area (in²)	1.035
Drilling Hours for Day	1.08
Total Drilled for Day (ft)	89.00
Drilling Hours for BHA	6.75
Total Drilled for BHA (ft)	326.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 5.0
Bend Angle	3.0
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 59.00 ft, **Gamma:** 35.00 ft, **Resistivity:** 45.00 ft

Directional Comments

Flow Range: 300-600 GPM, Max Diff: 1130 psi, Max Torque: 10460 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *CF611*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	56276	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *6 3/4'' 7/8 5.0 FXD 3.00°ADJ*, Size (in): *7.00*, Bend Angle (°): *3.00*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *5*	AIM	cdm650-009	4 1/2" IF Box	4 1/2" Reg Box		7.000		26.03	27.03
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	58.41
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	75.88
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	106.26
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	109.26

MWD Items

No Items

BHA #7 - 8.75 Lateral w/ Agitator

Date In: Jul 22, 2021, 9:00 Date Out: Jul 23, 2021, 6:45

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280212
Nozzles	6x16's
Total Flow Area (in²)	1.178
Drilling Hours for Day	3.17
Total Drilled for Day (ft)	220.00
Drilling Hours for BHA	3.17
Total Drilled for BHA (ft)	220.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Downhole Tool Incident: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280212	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700008	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.67	35.67
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	67.05
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	84.52
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.90
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.90
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.00
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.45
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.37
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.86

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Slide Drill	2	07-21	23:40	00:45	07-22	11395.00	11484.00	Pressure On (psi): *1600.00*, Pressure Off (psi): *1100.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *600.00*, Strokes Per Minute: *206*, Toolface: *350*, Toolface Type: *gravity*
Survey	46	07-22	00:45	00:50	07-22	11484.00	11484.00	Inclination (°): *72.400*, Azimuth (°): *352.440*, TVD (ft): *11292.31*, Dogleg (º/100 ft): *18.67*, Sensor Depth (ft): *11425.00*, Bit To Sensor (ft): *59.00*
Circulating	3	07-22	00:50	01:45	07-22			
Pooh	7	07-22	01:45	07:45	07-22			POOH for LATERAL ASSEMBLY
Change BHA	6	07-22	07:45	09:00	07-22			P/U BHA # 7
Other	16	07-22	09:00	10:00	07-22			PROGRAM RES / MWD TOOL
TIH	8	07-22	10:00	10:10	07-22			TIH W/ BHA #7
Other	16	07-22	10:10	10:20	07-22			TEST RES / MWD TOOL
TIH	8	07-22	10:20	16:05	07-22			TIH W/ BHA #7
Circulating	3	07-22	16:05	17:50	07-22			Fill pipe & displace w/ OBM
Other	16	07-22	17:50	18:05	07-22			Downlink MWD
Rotary Drill	1	07-22	18:05	18:40	07-22	11484.00	11525.00	Pressure On (psi): *3750.00*, Pressure Off (psi): *3250.00*, Weight On Bit (klbs): *30.00*, Surface RPM: *30*, Surface Torque (ft lbf): *15000.00*, Flow Rate (gpm): *650.00*, Strokes Per Minute: *222.00*
Survey	46	07-22	18:40	18:45	07-22	11525.00	11525.00	Inclination (°): *79.910*, Azimuth (°): *351.560*, TVD (ft): *11299.97*, Dogleg (º/100 ft): *23.62*, Sensor Depth (ft): *11457.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-22	18:45	19:10	07-22	11525.00	11568.00	Pressure On (psi): *3750.00*, Pressure Off (psi): *3250.00*, Weight On Bit (klbs): *40.00*, Surface RPM: *30*, Surface Torque (ft lbf): *17000.00*, Flow Rate (gpm): *650.00*, Strokes Per Minute: *222.00*
Slide Drill	2	07-22	19:10	19:55	07-22	11568.00	11615.00	Toolface: *0*, Toolface Type: *gravity*
Survey	46	07-22	19:55	20:10	07-22	11615.00	11615.00	Inclination (°): *82.330*, Azimuth (°): *349.100*, TVD (ft): *11313.86*, Dogleg (º/100 ft): *3.81*, Sensor Depth (ft): *11547.00*, Bit To Sensor (ft): *68.00*

Slide Drill	2	07-22	20:10	20:40	07-22	11615.00	11645.00	Pressure On (psi): *3650.00*, Pressure Off (psi): *3300.00*, Weight On Bit (klbs): *55.00*, Flow Rate (gpm): *650.00*, Strokes Per Minute: *222*, Toolface: *15*, Toolface Type: *gravity*
Rotary Drill	1	07-22	20:40	21:35	07-22	11645.00	11704.00	Pressure On (psi): *3750.00*, Pressure Off (psi): *3250.00*, Weight On Bit (klbs): *40.00*, Surface RPM: *30*, Surface Torque (ft lbf): *17000.00*, Flow Rate (gpm): *650.00*, Strokes Per Minute: *222.00*
Survey	46	07-22	21:35	21:45	07-22	11704.00	11704.00	Inclination (°): *91.690*, Azimuth (°): *348.480*, TVD (ft): *11318.50*, Dogleg (º/100 ft): *10.54*, Sensor Depth (ft): *11636.00*, Bit To Sensor (ft): *68.00*
Circulating	3	07-22	21:45	22:10	07-22			Circulating to POOH
Pooh	7	07-22	22:10	06:45	07-23			POOH for Resistivity tool

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Friday, Jul 23 00:00 - 23:59 (Day 13 of 23)

Billing: $15,265.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	11704.00	**Downhole Hours**	23.00	**Rotating WOB (klbs)**	
Bit Depth (ft)	11724.00	**Drilling Hours**	0.50	**Sliding WOB (klbs)**	25.00 - 25.00
Bottom Hole Depth (ft)	11724.00	**Hours Circulating**	1.58	**Rotating SPM**	
Total Distance (ft)	20.00	**Hours Sliding**	0.50	**Sliding SPM**	240.00 - 240.00
Distance Rotated (ft)	0.00	**Hours Rotating**	0.00	**Motor RPM**	169.00 - 212.00
Distance Slid (ft)	20.00			**Surface RPM**	
Inclination In				**Flow Rate (gpm)**	700.00 - 700.00
Inclination Out				**On Bottom Pressure (psi)**	4100.00 - 4100.00
Azimuth In		**% Hours Rotating**	0%	**Off Bottom Pressure (psi)**	3750.00 - 3750.00
Azimuth Out		**% Hours Sliding**	100%		
AVG Total ROP (ft/h)	77.14	**% Distance Sliding**	100%		
AVG Rotating ROP (ft/h)	105.00	**% Distance Rotating**	0%		
AVG Sliding ROP (ft/h)	40.00				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #7 - 8.75 Lateral w/ Agitator

Date In: Jul 22, 2021, 9:00 Date Out: Jul 23, 2021, 6:45

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280212
Nozzles	6x16's
Total Flow Area (in²)	1.178
Drilling Hours for Day	0.00
Total Drilled for Day (ft)	
Drilling Hours for BHA	3.17
Total Drilled for BHA (ft)	220.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Downhole Tool Incident: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280212	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700008	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.67	35.67
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1010						31.38	67.05
Battery Description: *Resistivity Battery*	BENCHTREE	4500803a5						17.47	84.52
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.90
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.90
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.00
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.45
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.37
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.86

MWD Items

No Items

BHA #8 - 8.75" LATERAL w/ Agitator

Date In: Jul 23, 2021, 7:45 Date Out: Jul 26, 2021, 2:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	56159
Nozzles	9x13's
Total Flow Area (in²)	1.167
Drilling Hours for Day	0.50
Total Drilled for Day (ft)	20.00
Drilling Hours for BHA	39.58
Total Drilled for BHA (ft)	2027.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Penetration Rate: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SPL616*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	56159	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700008	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.67	35.67
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.06
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.44
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.82
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.82
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1997.92
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.37
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.29
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.78

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Pooh	7	07-22	22:10	06:45	07-23			POOH for Resistivity tool
Change BHA	6	07-23	06:45	07:45	07-23			C/O RESISTIVITY TOOL
Other	16	07-23	07:45	08:30	07-23			PROGRAM RES / MWD TOOL
Rig Repair	14	07-23	08:30	14:15	07-23			RIG REPAIR - HPU PUMP
TIH	8	07-23	14:15	14:30	07-23			TIH W/ BHA #8
Other	16	07-23	14:30	14:45	07-23			TEST RES / MWD TOOL
TIH	8	07-23	14:45	16:45	07-23			TIH W/ BHA #8
Other	16	07-23	16:45	18:10	07-23			Slip & cut drill line
TIH	8	07-23	18:10	19:55	07-23			TIH to 10850'
Other	16	07-23	19:55	20:25	07-23			Install rot. head, highside motor
Other	16	07-23	20:25	21:20	07-23			Wash from 10850' to 11570'
Other	16	07-23	21:20	21:35	07-23			Downlink MWD
Circulating	3	07-23	21:35	23:10	07-23			Relog resistivity
Slide Drill	2	07-23	23:10	23:40	07-23	11704.00	11724.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *25.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *135*, Toolface Type: *gravity*
Rotary Drill	1	07-23	23:40	00:20	07-24	11724.00	11794.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *40.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Saturday, Jul 24 00:00 - 23:59 (Day 14 of 23)

Billing: $9,500.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	11724.00	**Downhole Hours**	24.00	**Rotating WOB (klbs)**	40.00 - 50.00
Bit Depth (ft)	12993.00	**Drilling Hours**	21.50	**Sliding WOB (klbs)**	50.00 - 70.00
Bottom Hole Depth (ft)	12993.00	**Hours Circulating**	0.00	**Rotating SPM**	240.00 - 240.00
Total Distance (ft)	1269.00	**Hours Sliding**	5.92	**Sliding SPM**	240.00 - 240.00
Distance Rotated (ft)	1030.00	**Hours Rotating**	15.58	**Motor RPM**	182.00 - 212.00
Distance Slid (ft)	239.00			**Surface RPM**	30.00 - 30.00
Inclination In	92.18			**Flow Rate (gpm)**	700.00 - 700.00
Inclination Out	88.88			**On Bottom Pressure (psi)**	4100.00 - 4350.00
Azimuth In	349.89	**% Hours Rotating**	72%	**Off Bottom Pressure (psi)**	3750.00 - 3850.00
Azimuth Out	359.82	**% Hours Sliding**	28%		
AVG Total ROP (ft/h)	58.20	**% Distance Sliding**	19%		
AVG Rotating ROP (ft/h)	64.46	**% Distance Rotating**	81%		
AVG Sliding ROP (ft/h)	40.39				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #8 - 8.75" LATERAL w/ Agitator

Date In: Jul 23, 2021, 7:45 Date Out: Jul 26, 2021, 2:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	56159
Nozzles	9x13's
Total Flow Area (in²)	1.167
Drilling Hours for Day	21.50
Total Drilled for Day (ft)	1269.00
Drilling Hours for BHA	39.58
Total Drilled for BHA (ft)	2027.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Penetration Rate: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SPL616*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	56159	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700008	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.67	35.67
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.06
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.44
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.82
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.82
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1997.92
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.37
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.29
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.78

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	07-23	23:40	00:20	07-24	11724.00	11794.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *40.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	00:20	00:25	07-24	11794.00	11794.00	Inclination (°): *92.180*, Azimuth (°): *349.890*, TVD (ft): *11315.46*, Dogleg (º/100 ft): *1.66*, Sensor Depth (ft): *11726.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-24	00:25	00:35	07-24	11794.00	11800.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *40.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-24	00:35	01:10	07-24	11800.00	11835.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *130*, Toolface Type: *gravity*
Rotary Drill	1	07-24	01:10	01:35	07-24	11835.00	11884.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *40.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	01:35	01:40	07-24	11884.00	11884.00	Inclination (°): *90.550*, Azimuth (°): *351.210*, TVD (ft): *11313.31*, Dogleg (º/100 ft): *2.33*, Sensor Depth (ft): *11816.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-24	01:40	02:40	07-24	11884.00	11930.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *120*, Toolface Type: *gravity*
Rotary Drill	1	07-24	02:40	03:00	07-24	11930.00	11956.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-24	03:00	03:25	07-24	11956.00	11973.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *130*, Toolface Type: *gravity*
Survey	46	07-24	03:25	03:35	07-24	11973.00	11973.00	Inclination (°): *89.580*, Azimuth (°): *353.580*, TVD (ft): *11313.21*, Dogleg (º/100 ft): *2.88*, Sensor Depth (ft): *11905.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-24	03:35	04:15	07-24	11973.00	12005.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *150*, Toolface Type: *gravity*
Rotary Drill	1	07-24	04:15	04:50	07-24	12005.00	12044.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-24	04:50	05:25	07-24	12044.00	12063.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *30*, Toolface Type: *gravity*
Survey	46	07-24	05:25	05:35	07-24	12063.00	12063.00	Inclination (°): *84.090*, Azimuth (°): *359.470*, TVD (ft): *11318.18*, Dogleg (º/100 ft): *8.94*, Sensor Depth (ft): *11995.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-24	05:35	06:00	07-24	12063.00	12082.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *330*, Toolface Type: *gravity*
Rotary Drill	1	07-24	06:00	06:50	07-24	12082.00	12152.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	06:50	06:55	07-24	12152.00	12152.00	Inclination (°): *88.000*, Azimuth (°): *359.120*, TVD (ft): *11324.32*, Dogleg (º/100 ft): *4.41*, Sensor Depth (ft): *12084.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-24	06:55	08:00	07-24	12152.00	12242.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	08:00	08:05	07-24	12242.00	12242.00	Inclination (°): *87.960*, Azimuth (°): *359.120*, TVD (ft): *11327.49*, Dogleg (º/100 ft): *0.04*, Sensor Depth (ft): *12174.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-24	08:05	09:20	07-24	12242.00	12331.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	09:20	09:25	07-24	12331.00	12331.00	Inclination (°): *87.780*, Azimuth (°): *359.200*, TVD (ft): *11330.80*, Dogleg (º/100 ft): *0.22*, Sensor Depth (ft): *12263.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-24	09:25	11:05	07-24	12331.00	12421.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	11:05	11:20	07-24	12421.00	12421.00	Inclination (°): *89.670*, Azimuth (°): *0.170*, TVD (ft): *11332.81*, Dogleg (º/100 ft): *2.36*, Sensor Depth (ft): *12353.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-24	11:20	11:45	07-24	12421.00	12441.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *200*, Toolface Type: *gravity*
Rotary Drill	1	07-24	11:45	13:15	07-24	12441.00	12510.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	13:15	13:30	07-24	12510.00	12510.00	Inclination (°): *87.910*, Azimuth (°): *0.610*, TVD (ft): *11334.68*, Dogleg (º/100 ft): *2.04*, Sensor Depth (ft): *12442.00*, Bit To Sensor (ft): *68.00*

Rotary Drill	1	07-24	13:30	14:45	07-24	12510.00	12600.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	14:45	14:50	07-24	12600.00	12600.00	Inclination (°): *87.650*, Azimuth (°): *1.140*, TVD (ft): *11338.17*, Dogleg (º/100 ft): *0.66*, Sensor Depth (ft): *12532.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-24	14:50	16:05	07-24	12600.00	12689.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Rig Service - In Hole	19	07-24	16:05	16:20	07-24			RIG SERVICE
Survey	46	07-24	16:20	16:25	07-24	12689.00	12689.00	Inclination (°): *87.960*, Azimuth (°): *1.310*, TVD (ft): *11341.58*, Dogleg (º/100 ft): *0.40*, Sensor Depth (ft): *12621.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-24	16:25	17:50	07-24	12689.00	12779.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	17:50	17:55	07-24	12779.00	12779.00	Inclination (°): *88.350*, Azimuth (°): *1.840*, TVD (ft): *11344.48*, Dogleg (º/100 ft): *0.73*, Sensor Depth (ft): *12711.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-24	17:55	18:00	07-24	12779.00	12784.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-24	18:00	18:35	07-24	12784.00	12800.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *290*, Toolface Type: *gravity*
Rotary Drill	1	07-24	18:35	19:55	07-24	12800.00	12869.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	19:55	20:00	07-24	12869.00	12869.00	Inclination (°): *89.100*, Azimuth (°): *359.640*, TVD (ft): *11346.48*, Dogleg (º/100 ft): *2.58*, Sensor Depth (ft): *12801.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-24	20:00	21:45	07-24	12869.00	12958.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *20000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-24	21:45	21:55	07-24	12958.00	12958.00	Inclination (°): *88.880*, Azimuth (°): *359.820*, TVD (ft): *11348.05*, Dogleg (º/100 ft): *0.32*, Sensor Depth (ft): *12890.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-24	21:55	23:10	07-24	12958.00	12993.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *30*, Toolface Type: *gravity*
Rotary Drill	1	07-24	23:10	00:25	07-25	12993.00	13048.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Sunday, Jul 25 00:00 - 23:59 (Day 15 of 23)

Billing: $9,500.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	12993.00	**Downhole Hours**	24.00
Bit Depth (ft)	13731.00	**Drilling Hours**	17.58
Bottom Hole Depth (ft)	13731.00	**Hours Circulating**	1.00
Total Distance (ft)	738.00	**Hours Sliding**	5.42
Distance Rotated (ft)	606.00	**Hours Rotating**	12.17
Distance Slid (ft)	132.00		
Inclination In	91.60		
Inclination Out	86.15		
Azimuth In	358.33	**% Hours Rotating**	69%
Azimuth Out	1.75	**% Hours Sliding**	31%
AVG Total ROP (ft/h)	41.97	**% Distance Sliding**	18%
AVG Rotating ROP (ft/h)	49.81	**% Distance Rotating**	82%
AVG Sliding ROP (ft/h)	24.37		

Drilling Parameters

Rotating WOB (klbs)	50.00 - 50.00
Sliding WOB (klbs)	70.00 - 70.00
Rotating SPM	240.00 - 240.00
Sliding SPM	240.00 - 240.00
Motor RPM	182.00 - 212.00
Surface RPM	30.00 - 30.00
Flow Rate (gpm)	700.00 - 700.00
On Bottom Pressure (psi)	4150.00 - 4350.00
Off Bottom Pressure (psi)	3750.00 - 3850.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #8 - 8.75" LATERAL w/ Agitator

Date In: Jul 23, 2021, 7:45 Date Out: Jul 26, 2021, 2:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	56159
Nozzles	9x13's
Total Flow Area (in²)	1.167
Drilling Hours for Day	17.58
Total Drilled for Day (ft)	738.00
Drilling Hours for BHA	39.58
Total Drilled for BHA (ft)	2027.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Penetration Rate: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SPL616*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	56159	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700008	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.67	35.67
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.06
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.44
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.82
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.82
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1997.92
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.37
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.29
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.78

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	07-24	23:10	00:25	07-25	12993.00	13048.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-25	00:25	00:35	07-25	13048.00	13048.00	Inclination (°): *91.600*, Azimuth (°): *358.330*, TVD (ft): *11347.67*, Dogleg (º/100 ft): *3.45*, Sensor Depth (ft): *12980.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-25	00:35	02:05	07-25	13048.00	13137.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-25	02:05	02:10	07-25	13137.00	13137.00	Inclination (°): *93.270*, Azimuth (°): *356.480*, TVD (ft): *11343.89*, Dogleg (º/100 ft): *2.80*, Sensor Depth (ft): *13069.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-25	02:10	02:15	07-25	13137.00	13145.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-25	02:15	03:00	07-25	13145.00	13168.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *70*, Toolface Type: *gravity*
Rotary Drill	1	07-25	03:00	03:40	07-25	13168.00	13227.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-25	03:40	03:45	07-25	13227.00	13227.00	Inclination (°): *94.550*, Azimuth (°): *357.450*, TVD (ft): *11337.75*, Dogleg (º/100 ft): *1.78*, Sensor Depth (ft): *13159.00*, Bit To Sensor (ft): *68.00*
Rig Repair	14	07-25	03:45	04:35	07-25			Work on pumps
Rotary Drill	1	07-25	04:35	06:00	07-25	13227.00	13317.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-25	06:00	06:05	07-25	13317.00	13317.00	Inclination (°): *95.340*, Azimuth (°): *357.270*, TVD (ft): *11330.00*, Dogleg (º/100 ft): *0.90*, Sensor Depth (ft): *13249.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-25	06:05	06:35	07-25	13317.00	13338.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-25	06:35	07:35	07-25	13338.00	13362.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *gravity*
Rotary Drill	1	07-25	07:35	09:20	07-25	13362.00	13406.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-25	09:20	09:30	07-25	13406.00	13406.00	Inclination (°): *93.580*, Azimuth (°): *357.010*, TVD (ft): *11323.07*, Dogleg (º/100 ft): *2.00*, Sensor Depth (ft): *13338.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-25	09:30	11:15	07-25	13406.00	13446.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *150*, Toolface Type: *gravity*
Rotary Drill	1	07-25	11:15	12:10	07-25	13446.00	13496.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-25	12:10	12:20	07-25	13496.00	13496.00	Inclination (°): *92.400*, Azimuth (°): *359.910*, TVD (ft): *11318.38*, Dogleg (º/100 ft): *3.47*, Sensor Depth (ft): *13428.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-25	12:20	13:30	07-25	13496.00	13521.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *gravity*
Rotary Drill	1	07-25	13:30	14:45	07-25	13521.00	13585.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-25	14:45	14:50	07-25	13585.00	13585.00	Inclination (°): *87.160*, Azimuth (°): *1.230*, TVD (ft): *11318.72*, Dogleg (º/100 ft): *6.07*, Sensor Depth (ft): *13517.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-25	14:50	16:40	07-25	13585.00	13675.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-25	16:40	16:45	07-25	13675.00	13675.00	Inclination (°): *86.150*, Azimuth (°): *1.750*, TVD (ft): *11323.97*, Dogleg (º/100 ft): *1.26*, Sensor Depth (ft): *13607.00*, Bit To Sensor (ft): *68.00*
Rig Service - In Hole	19	07-25	16:45	17:10	07-25			RIG SERVICE
Slide Drill	2	07-25	17:10	17:55	07-25	13675.00	13695.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *310*, Toolface Type: *gravity*
Rotary Drill	1	07-25	17:55	18:55	07-25	13695.00	13731.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Circulating	3	07-25	18:55	19:55	07-25			Circulate to POOH

Poon	7	07-25	19:55	02:45	07-26			POOH to change BHA (slow rop)

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Monday, Jul 26 00:00 - 23:59 (Day 16 of 23)

Billing: $23,545.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	13731.00	**Downhole Hours**	22.75
Bit Depth (ft)	14483.00	**Drilling Hours**	10.17
Bottom Hole Depth (ft)	14483.00	**Hours Circulating**	0.67
Total Distance (ft)	752.00	**Hours Sliding**	2.83
Distance Rotated (ft)	635.00	**Hours Rotating**	7.33
Distance Slid (ft)	117.00		
Inclination In	85.58		
Inclination Out	91.91		
Azimuth In	359.12	**% Hours Rotating**	72%
Azimuth Out	358.68	**% Hours Sliding**	28%
AVG Total ROP (ft/h)	73.97	**% Distance Sliding**	16%
AVG Rotating ROP (ft/h)	86.59	**% Distance Rotating**	84%
AVG Sliding ROP (ft/h)	41.29		

Drilling Parameters

Rotating WOB (klbs)	50.00 - 50.00
Sliding WOB (klbs)	70.00 - 70.00
Rotating SPM	240.00 - 240.00
Sliding SPM	240.00 - 240.00
Motor RPM	182.00 - 212.00
Surface RPM	30.00 - 30.00
Flow Rate (gpm)	700.00 - 700.00
On Bottom Pressure (psi)	4150.00 - 4350.00
Off Bottom Pressure (psi)	3750.00 - 3850.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #8 - 8.75" LATERAL w/ Agitator

Date In: Jul 23, 2021, 7:45 Date Out: Jul 26, 2021, 2:45

Bit Details

OD (in)	8.750
Vendor	Ulterra
S/N	56159
Nozzles	9x13's
Total Flow Area (in²)	1.167
Drilling Hours for Day	0.00
Total Drilled for Day (ft)	
Drilling Hours for BHA	39.58
Total Drilled for BHA (ft)	2027.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Penetration Rate: N/A

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SPL616*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	Ulterra	56159	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700008	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.67	35.67
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.06
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.44
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.82
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.82
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1997.92
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.37
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.29
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.78

MWD Items

No Items

BHA #9 - 8.75" LATERAL w/ Agitator

Date In: Jul 26, 2021, 4:00 Date Out: Jul 29, 2021, 23:30

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280803
Nozzles	5-15's 1-18
Total Flow Area (in²)	1.110
Drilling Hours for Day	10.17
Total Drilled for Day (ft)	752.00
Drilling Hours for BHA	62.50
Total Drilled for BHA (ft)	3144.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: Erratic Diff spikes. TF control became issue

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280803	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700016	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.79	35.79
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.18
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.56
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.94
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.94
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.04
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.49
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.41
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.90

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Pooh	7	07-25	19:55	02:45	07-26			POOH to change BHA (slow rop)
Change BHA	6	07-26	02:45	04:00	07-26			P/U BHA # 9
Other	16	07-26	04:00	05:15	07-26			Program MWD & Test
TIH	8	07-26	05:15	11:30	07-26			TIH W/ BHA #9
Other	16	07-26	11:30	11:45	07-26			Downlink
Circulating	3	07-26	11:45	12:25	07-26			Circulating / Test MP #3
Slide Drill	2	07-26	12:25	13:00	07-26	13731.00	13765.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *340*, Toolface Type: *gravity*
Survey	46	07-26	13:00	13:05	07-26	13765.00	13765.00	Inclination (°): *85.580*, Azimuth (°): *359.120*, TVD (ft): *11330.46*, Dogleg (º/100 ft): *2.98*, Sensor Depth (ft): *13697.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-26	13:05	13:15	07-26	13765.00	13780.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-26	13:15	13:35	07-26	13780.00	13800.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *0*, Toolface Type: *gravity*
Rotary Drill	1	07-26	13:35	14:05	07-26	13800.00	13854.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-26	14:05	14:10	07-26	13854.00	13854.00	Inclination (°): *92.000*, Azimuth (°): *355.690*, TVD (ft): *11332.34*, Dogleg (º/100 ft): *8.18*, Sensor Depth (ft): *13786.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-26	14:10	14:15	07-26	13854.00	13864.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*

Slide Drill	2	07-26	14:15	15:05	07-26	13864.00	13890.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *120*, Toolface Type: *gravity*
Rotary Drill	1	07-26	15:05	15:35	07-26	13890.00	13944.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-26	15:35	15:40	07-26	13944.00	13944.00	Inclination (°): *92.350*, Azimuth (°): *356.570*, TVD (ft): *11328.93*, Dogleg (º/100 ft): *1.05*, Sensor Depth (ft): *13876.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-26	15:40	15:45	07-26	13944.00	13954.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-26	15:45	16:25	07-26	13954.00	13979.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *90*, Toolface Type: *gravity*
Rotary Drill	1	07-26	16:25	16:45	07-26	13979.00	14034.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-26	16:45	16:50	07-26	14034.00	14034.00	Inclination (°): *91.820*, Azimuth (°): *358.150*, TVD (ft): *11325.65*, Dogleg (º/100 ft): *1.85*, Sensor Depth (ft): *13966.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-26	16:50	17:15	07-26	14034.00	14123.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-26	17:15	17:20	07-26	14123.00	14123.00	Inclination (°): *92.790*, Azimuth (°): *358.150*, TVD (ft): *11322.07*, Dogleg (º/100 ft): *1.09*, Sensor Depth (ft): *14055.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-26	17:20	18:15	07-26	14123.00	14213.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-26	18:15	18:20	07-26	14213.00	14213.00	Inclination (°): *92.660*, Azimuth (°): *357.620*, TVD (ft): *11317.79*, Dogleg (º/100 ft): *0.61*, Sensor Depth (ft): *14145.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-26	18:20	19:40	07-26	14213.00	14303.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-26	19:40	19:50	07-26	14303.00	14303.00	Inclination (°): *93.670*, Azimuth (°): *357.180*, TVD (ft): *11312.82*, Dogleg (º/100 ft): *1.22*, Sensor Depth (ft): *14235.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-26	19:50	20:15	07-26	14303.00	14315.00	Pressure On (psi): *4150.00*, Pressure Off (psi): *3850.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *120*, Toolface Type: *gravity*
Rotary Drill	1	07-26	20:15	21:45	07-26	14315.00	14393.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Rig Service - In Hole	19	07-26	21:45	22:20	07-26			
Survey	46	07-26	22:20	22:25	07-26	14393.00	14393.00	Inclination (°): *92.620*, Azimuth (°): *359.030*, TVD (ft): *11307.89*, Dogleg (º/100 ft): *2.36*, Sensor Depth (ft): *14325.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-26	22:25	23:55	07-26	14393.00	14483.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-26	23:55	00:00	07-27	14483.00	14483.00	Inclination (°): *91.910*, Azimuth (°): *358.680*, TVD (ft): *11304.33*, Dogleg (º/100 ft): *0.88*, Sensor Depth (ft): *14415.00*, Bit To Sensor (ft): *68.00*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Tuesday, Jul 27 00:00 - 23:59 (Day 17 of 23)

Billing: $9,500.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	14483.00	**Downhole Hours**	24.00
Bit Depth (ft)	15344.00	**Drilling Hours**	17.75
Bottom Hole Depth (ft)	15344.00	**Hours Circulating**	0.00
Total Distance (ft)	861.00	**Hours Sliding**	5.42
Distance Rotated (ft)	733.00	**Hours Rotating**	12.33
Distance Slid (ft)	128.00		
Inclination In	91.60		
Inclination Out	87.87		
Azimuth In	357.80	**% Hours Rotating**	69%
Azimuth Out	1.84	**% Hours Sliding**	31%
AVG Total ROP (ft/h)	48.51	**% Distance Sliding**	15%
AVG Rotating ROP (ft/h)	59.43	**% Distance Rotating**	85%
AVG Sliding ROP (ft/h)	23.63		

Drilling Parameters

Rotating WOB (klbs)	50.00 - 50.00
Sliding WOB (klbs)	70.00 - 70.00
Rotating SPM	240.00 - 240.00
Sliding SPM	240.00 - 240.00
Motor RPM	182.00 - 182.00
Surface RPM	30.00 - 30.00
Flow Rate (gpm)	700.00 - 700.00
On Bottom Pressure (psi)	4100.00 - 4350.00
Off Bottom Pressure (psi)	3750.00 - 3900.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #9 - 8.75" LATERAL w/ Agitator

Date In: Jul 26, 2021, 4:00 Date Out: Jul 29, 2021, 23:30

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280803
Nozzles	5-15's 1-18
Total Flow Area (in²)	1.110
Drilling Hours for Day	17.75
Total Drilled for Day (ft)	861.00
Drilling Hours for BHA	62.50
Total Drilled for BHA (ft)	3144.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: Erratic Diff spikes. TF control became issue

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280803	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700016	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.79	35.79
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.18
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.56
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.94
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.94
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.04
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.49
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.41
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.90

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Survey	46	07-26	23:55	00:00	07-27	14483.00	14483.00	Inclination (°): *91.910*, Azimuth (°): *358.680*, TVD (ft): *11304.33*, Dogleg (º/100 ft): *0.88*, Sensor Depth (ft): *14415.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-27	00:00	00:15	07-27	14483.00	14494.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-27	00:15	00:30	07-27	14494.00	14499.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *10*, Toolface Type: *gravity*
Rig Repair	14	07-27	00:30	01:05	07-27			Work on pumps
Rotary Drill	1	07-27	01:05	02:10	07-27	14499.00	14568.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Rig Repair	14	07-27	02:10	03:25	07-27			Work on HPU
Rotary Drill	1	07-27	03:25	03:30	07-27	14568.00	14572.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-27	03:30	03:40	07-27	14572.00	14572.00	Inclination (°): *91.600*, Azimuth (°): *357.800*, TVD (ft): *11301.60*, Dogleg (º/100 ft): *1.05*, Sensor Depth (ft): *14504.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-27	03:40	04:40	07-27	14572.00	14585.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *45*, Toolface Type: *gravity*
Rotary Drill	1	07-27	04:40	06:20	07-27	14585.00	14662.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-27	06:20	06:25	07-27	14662.00	14662.00	Inclination (°): *93.270*, Azimuth (°): *357.890*, TVD (ft): *11297.78*, Dogleg (º/100 ft): *1.86*, Sensor Depth (ft): *14594.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-27	06:25	07:35	07-27	14662.00	14752.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-27	07:35	07:40	07-27	14752.00	14752.00	Inclination (°): *94.150*, Azimuth (°): *357.620*, TVD (ft): *11291.96*, Dogleg (º/100 ft): *1.02*, Sensor Depth (ft): *14684.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-27	07:40	07:45	07-27	14752.00	14762.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-27	07:45	09:00	07-27	14762.00	14792.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *120*, Toolface Type: *gravity*
Rotary Drill	1	07-27	09:00	09:50	07-27	14792.00	14841.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-27	09:50	10:00	07-27	14841.00	14841.00	Inclination (°): *95.520*, Azimuth (°): *0.080*, TVD (ft): *11284.45*, Dogleg (º/100 ft): *3.16*, Sensor Depth (ft): *14773.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-27	10:00	11:15	07-27	14841.00	14871.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *gravity*
Rotary Drill	1	07-27	11:15	12:20	07-27	14871.00	14931.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-27	12:20	12:25	07-27	14931.00	14931.00	Inclination (°): *93.010*, Azimuth (°): *1.580*, TVD (ft): *11277.76*, Dogleg (º/100 ft): *3.25*, Sensor Depth (ft): *14863.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-27	12:25	14:15	07-27	14931.00	15021.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-27	14:15	14:20	07-27	15021.00	15021.00	Inclination (°): *93.050*, Azimuth (°): *0.960*, TVD (ft): *11273.00*, Dogleg (º/100 ft): *0.69*, Sensor Depth (ft): *14953.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-27	14:20	15:30	07-27	15021.00	15110.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-27	15:30	15:40	07-27	15110.00	15110.00	Inclination (°): *95.470*, Azimuth (°): *1.310*, TVD (ft): *11266.39*, Dogleg (º/100 ft): *2.75*, Sensor Depth (ft): *15042.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-27	15:40	16:45	07-27	15110.00	15150.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *200*, Toolface Type: *gravity*
Rotary Drill	1	07-27	16:45	17:30	07-27	15150.00	15200.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Rig Service - In Hole	19	07-27	17:30	18:55	07-27			

Other	16	07-27	18:55	19:10	07-27			Downlink MWD
Survey	46	07-27	19:10	19:20	07-27	15200.00	15200.00	Inclination (°): *91.160*, Azimuth (°): *0.790*, TVD (ft): *11261.19*, Dogleg (º/100 ft): *4.82*, Sensor Depth (ft): *15132.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-27	19:20	19:45	07-27	15200.00	15218.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-27	19:45	20:20	07-27	15218.00	15228.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *gravity*
Rotary Drill	1	07-27	20:20	21:25	07-27	15228.00	15289.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-27	21:25	21:30	07-27	15289.00	15289.00	Inclination (°): *87.870*, Azimuth (°): *1.840*, TVD (ft): *11261.94*, Dogleg (º/100 ft): *3.88*, Sensor Depth (ft): *15221.00*, Bit To Sensor (ft): *68.00*
Rig Repair	14	07-27	21:30	23:10	07-27			Work on pumps
Rotary Drill	1	07-27	23:10	00:00	07-28	15289.00	15344.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Wednesday, Jul 28 00:00 - 23:59 (Day 18 of 23)

Billing: $9,500.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	15344.00	**Downhole Hours**	24.00
Bit Depth (ft)	16300.00	**Drilling Hours**	19.17
Bottom Hole Depth (ft)	16300.00	**Hours Circulating**	0.00
Total Distance (ft)	956.00	**Hours Sliding**	6.25
Distance Rotated (ft)	804.00	**Hours Rotating**	12.92
Distance Slid (ft)	152.00		
Inclination In	85.80		
Inclination Out	90.07		
Azimuth In	0.87	**% Hours Rotating**	67%
Azimuth Out	356.57	**% Hours Sliding**	33%
AVG Total ROP (ft/h)	50.99	**% Distance Sliding**	16%
AVG Rotating ROP (ft/h)	62.22	**% Distance Rotating**	84%
AVG Sliding ROP (ft/h)	24.32		

Drilling Parameters

Rotating WOB (klbs)	50.00 - 62.00
Sliding WOB (klbs)	70.00 - 70.00
Rotating SPM	240.00 - 240.00
Sliding SPM	240.00 - 240.00
Motor RPM	182.00 - 182.00
Surface RPM	30.00 - 30.00
Flow Rate (gpm)	700.00 - 700.00
On Bottom Pressure (psi)	4100.00 - 4550.00
Off Bottom Pressure (psi)	3750.00 - 4000.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #9 - 8.75" LATERAL w/ Agitator

Date In: Jul 26, 2021, 4:00 Date Out: Jul 29, 2021, 23:30

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280803
Nozzles	5-15's 1-18
Total Flow Area (in²)	1.110
Drilling Hours for Day	19.17
Total Drilled for Day (ft)	956.00
Drilling Hours for BHA	62.50
Total Drilled for BHA (ft)	3144.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: Erratic Diff spikes. TF control became issue

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280803	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700016	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.79	35.79
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.18
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.56
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.94
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.94
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.04
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.49
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.41
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.90

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	07-27	23:10	00:00	07-28	15289.00	15344.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Rig Repair	14	07-28	00:00	02:10	07-28			Work on pumps
Other	16	07-28	02:10	02:35	07-28			Downlink MWD
Rotary Drill	1	07-28	02:35	02:55	07-28	15344.00	15379.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	02:55	03:10	07-28	15379.00	15379.00	Inclination (°): *85.800*, Azimuth (°): *0.870*, TVD (ft): *11266.91*, Dogleg (º/100 ft): *2.54*, Sensor Depth (ft): *15311.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-28	03:10	04:10	07-28	15379.00	15405.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *0*, Toolface Type: *gravity*
Rotary Drill	1	07-28	04:10	05:20	07-28	15405.00	15469.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	05:20	05:25	07-28	15469.00	15469.00	Inclination (°): *89.630*, Azimuth (°): *359.910*, TVD (ft): *11270.50*, Dogleg (º/100 ft): *4.39*, Sensor Depth (ft): *15401.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	05:25	05:55	07-28	15469.00	15485.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-28	05:55	06:45	07-28	15485.00	15505.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *gravity*
Rotary Drill	1	07-28	06:45	07:55	07-28	15505.00	15558.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	07:55	08:00	07-28	15558.00	15558.00	Inclination (°): *91.300*, Azimuth (°): *0.170*, TVD (ft): *11269.78*, Dogleg (º/100 ft): *1.90*, Sensor Depth (ft): *15490.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	08:00	08:15	07-28	15558.00	15566.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-28	08:15	09:15	07-28	15566.00	15590.00	Pressure On (psi): *4100.00*, Pressure Off (psi): *3900.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *gravity*
Rotary Drill	1	07-28	09:15	09:55	07-28	15590.00	15648.00	Pressure On (psi): *4350.00*, Pressure Off (psi): *3750.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	09:55	10:00	07-28	15648.00	15648.00	Inclination (°): *88.260*, Azimuth (°): *0.960*, TVD (ft): *11270.12*, Dogleg (º/100 ft): *3.49*, Sensor Depth (ft): *15580.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	10:00	11:10	07-28	15648.00	15737.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	11:10	11:15	07-28	15737.00	15737.00	Inclination (°): *86.290*, Azimuth (°): *359.910*, TVD (ft): *11274.35*, Dogleg (º/100 ft): *2.51*, Sensor Depth (ft): *15669.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	11:15	12:40	07-28	15737.00	15827.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	12:40	12:45	07-28	15827.00	15827.00	Inclination (°): *87.430*, Azimuth (°): *359.470*, TVD (ft): *11279.28*, Dogleg (º/100 ft): *1.36*, Sensor Depth (ft): *15759.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	12:45	13:50	07-28	15827.00	15916.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	13:50	13:55	07-28	15916.00	15916.00	Inclination (°): *87.120*, Azimuth (°): *359.200*, TVD (ft): *11283.52*, Dogleg (º/100 ft): *0.46*, Sensor Depth (ft): *15848.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	13:55	15:30	07-28	15916.00	16006.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	15:30	15:35	07-28	16006.00	16006.00	Inclination (°): *85.850*, Azimuth (°): *358.850*, TVD (ft): *11289.03*, Dogleg (º/100 ft): *1.46*, Sensor Depth (ft): *15938.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	15:35	15:40	07-28	16006.00	16011.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-28	15:40	17:00	07-28	16011.00	16038.00	Pressure On (psi): *4250.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *0*, Toolface Type: *gravity*

Rotary Drill	1	07-28	17:00	17:55	07-28	16038.00	16096.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	17:55	18:00	07-28	16096.00	16096.00	Inclination (°): *88.040*, Azimuth (°): *357.530*, TVD (ft): *11293.83*, Dogleg (º/100 ft): *2.84*, Sensor Depth (ft): *16028.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	18:00	19:25	07-28	16096.00	16185.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *50.00*, Surface RPM: *30*, Surface Torque (ft lbf): *29000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	19:25	19:40	07-28	16185.00	16185.00	Inclination (°): *88.220*, Azimuth (°): *355.510*, TVD (ft): *11296.73*, Dogleg (º/100 ft): *2.28*, Sensor Depth (ft): *16117.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-28	19:40	20:55	07-28	16185.00	16220.00	Pressure On (psi): *4250.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *70*, Toolface Type: *gravity*
Rotary Drill	1	07-28	20:55	21:55	07-28	16220.00	16275.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-28	21:55	22:00	07-28	16275.00	16275.00	Inclination (°): *90.070*, Azimuth (°): *356.570*, TVD (ft): *11298.08*, Dogleg (º/100 ft): *2.37*, Sensor Depth (ft): *16207.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-28	22:00	22:10	07-28	16275.00	16280.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-28	22:10	23:00	07-28	16280.00	16300.00	Pressure On (psi): *4250.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *90*, Toolface Type: *gravity*
Rotary Drill	1	07-28	23:00	00:05	07-29	16300.00	16364.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Thursday, Jul 29 00:00 - 23:59 (Day 19 of 23)

Billing: $9,500.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	16300.00	**Downhole Hours**	24.00	**Rotating WOB (klbs)**	62.00 - 62.00
Bit Depth (ft)	16875.00	**Drilling Hours**	15.42	**Sliding WOB (klbs)**	70.00 - 75.00
Bottom Hole Depth (ft)	16875.00	**Hours Circulating**	0.00	**Rotating SPM**	240.00 - 240.00
Total Distance (ft)	575.00	**Hours Sliding**	6.75	**Sliding SPM**	240.00 - 240.00
Distance Rotated (ft)	444.00	**Hours Rotating**	8.67	**Motor RPM**	182.00 - 182.00
Distance Slid (ft)	131.00			**Surface RPM**	30.00 - 30.00
Inclination In	92.84			**Flow Rate (gpm)**	700.00 - 700.00
Inclination Out	86.15			**On Bottom Pressure (psi)**	4250.00 - 4550.00
Azimuth In	358.59	**% Hours Rotating**	56%	**Off Bottom Pressure (psi)**	4000.00 - 4000.00
Azimuth Out	0.44	**% Hours Sliding**	44%		
AVG Total ROP (ft/h)	37.30	**% Distance Sliding**	23%		
AVG Rotating ROP (ft/h)	51.23	**% Distance Rotating**	77%		
AVG Sliding ROP (ft/h)	19.41				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #9 - 8.75" LATERAL w/ Agitator

Date In: Jul 26, 2021, 4:00 Date Out: Jul 29, 2021, 23:30

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A280803
Nozzles	5-15's 1-18
Total Flow Area (in²)	1.110
Drilling Hours for Day	15.42
Total Drilled for Day (ft)	575.00
Drilling Hours for BHA	62.50
Total Drilled for BHA (ft)	3144.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 0

MWD Comments

POOH Reason

Change Bottom Hole Assembly: Erratic Diff spikes. TF control became issue

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *TKC66*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A280803	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700016	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.79	35.79
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.18
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.56
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	114.94
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	117.94
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.04
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.49
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0143	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.92	2026.41
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2029.90

MWD Items

No Items

BHA #10 - 8.75" LATERAL w/ Agitator

Date In: Jul 29, 2021, 23:30 **Date Out:** Aug 1, 2021, 10:00

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A263858
Nozzles	7 x 14
Total Flow Area (in²)	1.052
Drilling Hours for Day	
Total Drilled for Day (ft)	
Drilling Hours for BHA	27.83
Total Drilled for BHA (ft)	2600.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 6

MWD Comments

POOH Reason

Total Depth/Casing Point: Motor Drained weak , 1/8" Squat in bearings

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SKC7616M-G1D*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A263858	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700041	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.92	35.92
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.31
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.69
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	115.07
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	118.07
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.17
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.62
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0078	4 1/2" IF Box	4 1/2" IF Pin		7.000		25.15	2026.77
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2030.26

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Rotary Drill	1	07-28	23:00	00:05	07-29	16300.00	16364.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-29	00:05	00:10	07-29	16364.00	16364.00	Inclination (°): *92.840*, Azimuth (°): *358.590*, TVD (ft): *11295.82*, Dogleg (º/100 ft): *3.85*, Sensor Depth (ft): *16296.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-29	00:10	00:20	07-29	16364.00	16370.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-29	00:20	01:05	07-29	16370.00	16390.00	Pressure On (psi): *4250.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *70.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *140*, Toolface Type: *gravity*
Rotary Drill	1	07-29	01:05	02:20	07-29	16390.00	16453.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-29	02:20	02:30	07-29	16453.00	16453.00	Inclination (°): *93.890*, Azimuth (°): *0.960*, TVD (ft): *11290.59*, Dogleg (º/100 ft): *2.91*, Sensor Depth (ft): *16385.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-29	02:30	03:25	07-29	16453.00	16469.00	Pressure On (psi): *4250.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *75.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *200*, Toolface Type: *gravity*
Rotary Drill	1	07-29	03:25	05:00	07-29	16469.00	16543.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-29	05:00	05:05	07-29	16543.00	16543.00	Inclination (°): *91.300*, Azimuth (°): *0.430*, TVD (ft): *11286.52*, Dogleg (º/100 ft): *2.94*, Sensor Depth (ft): *16475.00*, Bit To Sensor (ft): *68.00*

Rotary Drill	1	07-29	05:05	06:25	07-29	16543.00	16603.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-29	06:25	07:40	07-29	16603.00	16630.00	Pressure On (psi): *4250.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *75.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *gravity*
Rotary Drill	1	07-29	07:40	07:45	07-29	16630.00	16632.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-29	07:45	07:50	07-29	16632.00	16632.00	Inclination (°): *91.430*, Azimuth (°): *358.940*, TVD (ft): *11284.40*, Dogleg (º/100 ft): *1.68*, Sensor Depth (ft): *16564.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-29	07:50	09:30	07-29	16632.00	16722.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-29	09:30	09:35	07-29	16722.00	16722.00	Inclination (°): *88.970*, Azimuth (°): *0.170*, TVD (ft): *11284.08*, Dogleg (º/100 ft): *3.06*, Sensor Depth (ft): *16654.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-29	09:35	09:45	07-29	16722.00	16730.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-29	09:45	10:40	07-29	16730.00	16762.00	Pressure On (psi): *4250.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *75.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *180*, Toolface Type: *gravity*
Rotary Drill	1	07-29	10:40	11:25	07-29	16762.00	16811.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-29	11:25	11:30	07-29	16811.00	16811.00	Inclination (°): *86.150*, Azimuth (°): *0.440*, TVD (ft): *11287.87*, Dogleg (º/100 ft): *3.18*, Sensor Depth (ft): *16743.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-29	11:30	12:05	07-29	16811.00	16839.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-29	12:05	15:00	07-29	16839.00	16875.00	Pressure On (psi): *4250.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *75.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *0*, Toolface Type: *gravity*
Pooh	7	07-29	15:00	18:00	07-29			POOH for new Bit & Motor
Pooh	7	07-29	18:00	23:30	07-29			POOH for new Bit & Motor
Change BHA	6	07-29	23:30	00:30	07-30			P/U BHA #10

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Friday, Jul 30 00:00 - 23:59 (Day 20 of 23)

Billing: $23,545.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	16875.00	**Downhole Hours**	24.00
Bit Depth (ft)	17797.00	**Drilling Hours**	9.75
Bottom Hole Depth (ft)	17797.00	**Hours Circulating**	0.83
Total Distance (ft)	922.00	**Hours Sliding**	4.83
Distance Rotated (ft)	779.00	**Hours Rotating**	4.92
Distance Slid (ft)	143.00		
Inclination In	83.25		
Inclination Out	91.47		
Azimuth In	0.17	**% Hours Rotating**	50%
Azimuth Out	359.03	**% Hours Sliding**	50%
AVG Total ROP (ft/h)	94.56	**% Distance Sliding**	16%
AVG Rotating ROP (ft/h)	158.44	**% Distance Rotating**	84%
AVG Sliding ROP (ft/h)	29.59		

Drilling Parameters

Rotating WOB (klbs)	45.00 - 62.00
Sliding WOB (klbs)	50.00 - 50.00
Rotating SPM	240.00 - 240.00
Sliding SPM	240.00 - 240.00
Motor RPM	182.00 - 182.00
Surface RPM	30.00 - 30.00
Flow Rate (gpm)	700.00 - 700.00
On Bottom Pressure (psi)	4550.00 - 5200.00
Off Bottom Pressure (psi)	4000.00 - 4600.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #10 - 8.75" LATERAL w/ Agitator

Date In: Jul 29, 2021, 23:30 Date Out: Aug 1, 2021, 10:00

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A263858
Nozzles	7 x 14
Total Flow Area (in²)	1.052
Drilling Hours for Day	9.75
Total Drilled for Day (ft)	922.00
Drilling Hours for BHA	27.83
Total Drilled for BHA (ft)	2600.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 6

MWD Comments

POOH Reason

Total Depth/Casing Point: Motor Drained weak , 1/8" Squat in bearings

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SKC7616M-G1D*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A263858	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700041	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.92	35.92
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.31
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.69
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	115.07
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	118.07
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.17
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.62
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0078	4 1/2" IF Box	4 1/2" IF Pin		7.000		25.15	2026.77
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2030.26

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Change BHA	6	07-29	23:30	00:30	07-30			P/U BHA #10
Other	16	07-30	00:30	01:40	07-30			Program MWD & Test
TIH	8	07-30	01:40	02:45	07-30			TIH W/ BHA #10
Other	16	07-30	02:45	03:15	07-30			P/U & Test Agitator
TIH	8	07-30	03:15	05:00	07-30			TIH W/ BHA # 10 to shoe
Other	16	07-30	05:00	07:00	07-30			Slip & Cut Drill line
TIH	8	07-30	07:00	11:30	07-30			TIH W/ BHA #10
Rotary Drill	1	07-30	11:30	11:40	07-30	16875.00	16901.00	Pressure On (psi): *4550.00*, Pressure Off (psi): *4000.00*, Weight On Bit (klbs): *62.00*, Surface RPM: *30*, Surface Torque (ft lbf): *35000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	11:40	11:45	07-30	16901.00	16901.00	Inclination (°): *83.250*, Azimuth (°): *0.170*, TVD (ft): *11296.18*, Dogleg (º/100 ft): *3.24*, Sensor Depth (ft): *16833.00*, Bit To Sensor (ft): *68.00*
Circulating	3	07-30	11:45	12:35	07-30			Circulate gas
Slide Drill	2	07-30	12:35	14:20	07-30	16901.00	16953.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *0*, Toolface Type: *gravity*
Rotary Drill	1	07-30	14:20	14:40	07-30	16953.00	16990.00	Pressure On (psi): *5100.00*, Pressure Off (psi): *4500.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *32000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	14:40	14:50	07-30	16990.00	16990.00	Inclination (°): *85.890*, Azimuth (°): *0.430*, TVD (ft): *11304.61*, Dogleg (º/100 ft): *2.98*, Sensor Depth (ft): *16922.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-30	14:50	15:20	07-30	16990.00	17080.00	Pressure On (psi): *5100.00*, Pressure Off (psi): *4500.00*, Weight On Bit (klbs): *45.00*, Surface RPM: *30*, Surface Torque (ft lbf): *32000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	15:20	15:25	07-30	17080.00	17080.00	Inclination (°): *88.660*, Azimuth (°): *359.030*, TVD (ft): *11308.88*, Dogleg (º/100 ft): *3.45*, Sensor Depth (ft): *17012.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-30	15:25	16:10	07-30	17080.00	17170.00	Pressure On (psi): *5100.00*, Pressure Off (psi): *4500.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *38000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	16:10	16:15	07-30	17170.00	17170.00	Inclination (°): *88.660*, Azimuth (°): *358.410*, TVD (ft): *11310.99*, Dogleg (º/100 ft): *0.69*, Sensor Depth (ft): *17102.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-30	16:15	16:20	07-30	17170.00	17177.00	Pressure On (psi): *5100.00*, Pressure Off (psi): *4500.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *38000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-30	16:20	16:45	07-30	17177.00	17192.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *60*, Toolface Type: *gravity*
Rotary Drill	1	07-30	16:45	17:15	07-30	17192.00	17259.00	Pressure On (psi): *5100.00*, Pressure Off (psi): *4500.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *38000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	17:15	17:20	07-30	17259.00	17259.00	Inclination (°): *89.540*, Azimuth (°): *358.940*, TVD (ft): *11312.39*, Dogleg (º/100 ft): *1.15*, Sensor Depth (ft): *17191.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-30	17:20	17:50	07-30	17259.00	17349.00	Pressure On (psi): *5100.00*, Pressure Off (psi): *4500.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *38000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	17:50	18:10	07-30	17349.00	17349.00	Inclination (°): *88.660*, Azimuth (°): *357.970*, TVD (ft): *11313.80*, Dogleg (º/100 ft): *1.46*, Sensor Depth (ft): *17281.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-30	18:10	19:15	07-30	17349.00	17377.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *45*, Toolface Type: *gravity*
Rotary Drill	1	07-30	19:15	19:40	07-30	17377.00	17439.00	Pressure On (psi): *5100.00*, Pressure Off (psi): *4500.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *38000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	19:40	19:50	07-30	17439.00	17439.00	Inclination (°): *89.190*, Azimuth (°): *359.030*, TVD (ft): *11315.49*, Dogleg (º/100 ft): *1.32*, Sensor Depth (ft): *17371.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-30	19:50	20:35	07-30	17439.00	17460.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *30*, Toolface Type: *gravity*
Rotary Drill	1	07-30	20:35	21:00	07-30	17460.00	17528.00	Pressure On (psi): *5100.00*, Pressure Off (psi): *4500.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *38000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Rig Repair	14	07-30	21:00	21:20	07-30			c/o 2'' valve on standpipe
Survey	46	07-30	21:20	21:30	07-30	17528.00	17528.00	Inclination (°): *89.670*, Azimuth (°): *359.470*, TVD (ft): *11316.37*, Dogleg (º/100 ft): *0.73*, Sensor Depth (ft): *17460.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-30	21:30	22:20	07-30	17528.00	17555.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *50.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *30*, Toolface Type: *gravity*

Rotary Drill	1	07-30	22:20	22:40	07-30	17555.00	17617.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	22:40	22:45	07-30	17617.00	17617.00	Inclination (°): *90.240*, Azimuth (°): *0.170*, TVD (ft): *11316.44*, Dogleg (º/100 ft): *1.01*, Sensor Depth (ft): *17549.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-30	22:45	23:15	07-30	17617.00	17707.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	23:15	23:25	07-30	17707.00	17707.00	Inclination (°): *91.210*, Azimuth (°): *359.380*, TVD (ft): *11315.31*, Dogleg (º/100 ft): *1.39*, Sensor Depth (ft): *17639.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-30	23:25	23:50	07-30	17707.00	17797.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-30	23:50	00:00	07-31	17797.00	17797.00	Inclination (°): *91.470*, Azimuth (°): *359.030*, TVD (ft): *11313.20*, Dogleg (º/100 ft): *0.48*, Sensor Depth (ft): *17729.00*, Bit To Sensor (ft): *68.00*

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Saturday, Jul 31 00:00 - 23:59 (Day 21 of 23)

Billing: $9,500.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)	17797.00	**Downhole Hours**	24.00
Bit Depth (ft)	19475.00	**Drilling Hours**	18.08
Bottom Hole Depth (ft)	19475.00	**Hours Circulating**	3.67
Total Distance (ft)	1678.00	**Hours Sliding**	7.00
Distance Rotated (ft)	1476.00	**Hours Rotating**	11.08
Distance Slid (ft)	202.00		
Inclination In	91.12		
Inclination Out	83.96		
Azimuth In	358.15	**% Hours Rotating**	61%
Azimuth Out	0.52	**% Hours Sliding**	39%
AVG Total ROP (ft/h)	92.79	**% Distance Sliding**	12%
AVG Rotating ROP (ft/h)	133.17	**% Distance Rotating**	88%
AVG Sliding ROP (ft/h)	28.86		

Drilling Parameters

Rotating WOB (klbs)	60.00 - 60.00
Sliding WOB (klbs)	60.00 - 60.00
Rotating SPM	240.00 - 240.00
Sliding SPM	240.00 - 240.00
Motor RPM	182.00 - 182.00
Surface RPM	30.00 - 30.00
Flow Rate (gpm)	700.00 - 700.00
On Bottom Pressure (psi)	4700.00 - 5200.00
Off Bottom Pressure (psi)	4400.00 - 4600.00

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #10 - 8.75" LATERAL w/ Agitator

Date In: Jul 29, 2021, 23:30 Date Out: Aug 1, 2021, 10:00

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A263858
Nozzles	7 x 14
Total Flow Area (in²)	1.052
Drilling Hours for Day	18.08
Total Drilled for Day (ft)	1678.00
Drilling Hours for BHA	27.83
Total Drilled for BHA (ft)	2600.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 6

MWD Comments

POOH Reason

Total Depth/Casing Point: Motor Drained weak , 1/8" Squat in bearings

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SKC7616M-G1D*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A263858	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700041	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.92	35.92
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.31
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.69
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	115.07
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	118.07
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.17
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.62
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0078	4 1/2" IF Box	4 1/2" IF Pin		7.000		25.15	2026.77
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2030.26

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Survey	46	07-30	23:50	00:00	07-31	17797.00	17797.00	Inclination (°): *91.470*, Azimuth (°): *359.030*, TVD (ft): *11313.20*, Dogleg (º/100 ft): *0.48*, Sensor Depth (ft): *17729.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	00:00	00:20	07-31	17797.00	17886.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	00:20	00:25	07-31	17886.00	17886.00	Inclination (°): *91.120*, Azimuth (°): *358.150*, TVD (ft): *11311.19*, Dogleg (º/100 ft): *1.06*, Sensor Depth (ft): *17818.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	00:25	00:35	07-31	17886.00	17895.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-31	00:35	01:25	07-31	17895.00	17920.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *70*, Toolface Type: *gravity*
Rotary Drill	1	07-31	01:25	01:50	07-31	17920.00	17976.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	01:50	01:55	07-31	17976.00	17976.00	Inclination (°): *91.120*, Azimuth (°): *358.770*, TVD (ft): *11309.43*, Dogleg (º/100 ft): *0.69*, Sensor Depth (ft): *17908.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	01:55	02:25	07-31	17976.00	18065.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	02:25	02:30	07-31	18065.00	18065.00	Inclination (°): *91.380*, Azimuth (°): *359.030*, TVD (ft): *11307.49*, Dogleg (º/100 ft): *0.41*, Sensor Depth (ft): *17997.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	02:30	03:00	07-31	18065.00	18155.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	03:00	03:05	07-31	18155.00	18155.00	Inclination (°): *90.730*, Azimuth (°): *357.710*, TVD (ft): *11305.83*, Dogleg (º/100 ft): *1.63*, Sensor Depth (ft): *18087.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	03:05	03:15	07-31	18155.00	18162.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-31	03:15	04:40	07-31	18162.00	18202.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *90*, Toolface Type: *gravity*
Rotary Drill	1	07-31	04:40	05:00	07-31	18202.00	18245.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	05:00	05:10	07-31	18245.00	18245.00	Inclination (°): *90.150*, Azimuth (°): *359.730*, TVD (ft): *11305.14*, Dogleg (º/100 ft): *2.34*, Sensor Depth (ft): *18177.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	05:10	05:40	07-31	18245.00	18334.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	05:40	05:45	07-31	18334.00	18334.00	Inclination (°): *90.150*, Azimuth (°): *1.400*, TVD (ft): *11304.91*, Dogleg (º/100 ft): *1.88*, Sensor Depth (ft): *18266.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	05:45	06:10	07-31	18334.00	18423.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	06:10	06:15	07-31	18423.00	18423.00	Inclination (°): *89.760*, Azimuth (°): *0.790*, TVD (ft): *11304.98*, Dogleg (º/100 ft): *0.81*, Sensor Depth (ft): *18355.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	06:15	06:45	07-31	18423.00	18513.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	06:45	06:50	07-31	18513.00	18513.00	Inclination (°): *89.980*, Azimuth (°): *0.000*, TVD (ft): *11305.18*, Dogleg (º/100 ft): *0.91*, Sensor Depth (ft): *18445.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	06:50	07:35	07-31	18513.00	18602.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	07:35	07:40	07-31	18602.00	18602.00	Inclination (°): *89.760*, Azimuth (°): *358.060*, TVD (ft): *11305.38*, Dogleg (º/100 ft): *2.19*, Sensor Depth (ft): *18534.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	07:40	07:45	07-31	18602.00	18606.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-31	07:45	08:50	07-31	18606.00	18630.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *60*, Toolface Type: *gravity*

Rotary Drill	1	07-31	08:50	09:20	07-31	18630.00	18692.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	09:20	09:25	07-31	18692.00	18692.00	Inclination (°): *89.540*, Azimuth (°): *358.240*, TVD (ft): *11305.93*, Dogleg (º/100 ft): *0.32*, Sensor Depth (ft): *18624.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	09:25	09:30	07-31	18692.00	18700.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-31	09:30	10:50	07-31	18700.00	18745.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *75*, Toolface Type: *gravity*
Rotary Drill	1	07-31	10:50	11:15	07-31	18745.00	18782.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	11:15	11:20	07-31	18782.00	18782.00	Inclination (°): *90.900*, Azimuth (°): *359.470*, TVD (ft): *11305.59*, Dogleg (º/100 ft): *2.04*, Sensor Depth (ft): *18714.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	11:20	12:05	07-31	18782.00	18871.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	12:05	12:10	07-31	18871.00	18871.00	Inclination (°): *91.560*, Azimuth (°): *0.610*, TVD (ft): *11303.68*, Dogleg (º/100 ft): *1.48*, Sensor Depth (ft): *18803.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	12:10	12:15	07-31	18871.00	18878.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Slide Drill	2	07-31	12:15	13:20	07-31	18878.00	18908.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *90*, Toolface Type: *gravity*
Rotary Drill	1	07-31	13:20	13:50	07-31	18908.00	18961.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	13:50	13:55	07-31	18961.00	18961.00	Inclination (°): *92.000*, Azimuth (°): *3.070*, TVD (ft): *11300.88*, Dogleg (º/100 ft): *2.78*, Sensor Depth (ft): *18893.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	13:55	14:30	07-31	18961.00	19050.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	14:30	14:35	07-31	19050.00	19050.00	Inclination (°): *93.270*, Azimuth (°): *4.740*, TVD (ft): *11296.79*, Dogleg (º/100 ft): *2.36*, Sensor Depth (ft): *18982.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	14:35	15:25	07-31	19050.00	19140.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	15:25	15:30	07-31	19140.00	19140.00	Inclination (°): *93.580*, Azimuth (°): *5.090*, TVD (ft): *11291.41*, Dogleg (º/100 ft): *0.52*, Sensor Depth (ft): *19072.00*, Bit To Sensor (ft): *68.00*
Slide Drill	2	07-31	15:30	16:45	07-31	19140.00	19178.00	Pressure On (psi): *4700.00*, Pressure Off (psi): *4400.00*, Weight On Bit (klbs): *60.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240*, Toolface: *200*, Toolface Type: *gravity*
Rotary Drill	1	07-31	16:45	17:15	07-31	19178.00	19229.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	17:15	17:20	07-31	19229.00	19229.00	Inclination (°): *88.440*, Azimuth (°): *1.750*, TVD (ft): *11289.84*, Dogleg (º/100 ft): *6.89*, Sensor Depth (ft): *19161.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	17:20	18:00	07-31	19229.00	19319.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	18:00	18:05	07-31	19319.00	19319.00	Inclination (°): *86.070*, Azimuth (°): *0.790*, TVD (ft): *11294.15*, Dogleg (º/100 ft): *2.84*, Sensor Depth (ft): *19251.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	18:05	18:55	07-31	19319.00	19408.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	18:55	19:00	07-31	19408.00	19408.00	Inclination (°): *85.580*, Azimuth (°): *1.050*, TVD (ft): *11300.63*, Dogleg (º/100 ft): *0.62*, Sensor Depth (ft): *19340.00*, Bit To Sensor (ft): *68.00*
Rotary Drill	1	07-31	19:00	19:40	07-31	19408.00	19475.00	Pressure On (psi): *5200.00*, Pressure Off (psi): *4600.00*, Weight On Bit (klbs): *60.00*, Surface RPM: *30*, Surface Torque (ft lbf): *42000.00*, Flow Rate (gpm): *700.00*, Strokes Per Minute: *240.00*
Survey	46	07-31	19:40	19:50	07-31	19475.00	19475.00	Inclination (°): *83.960*, Azimuth (°): *0.520*, TVD (ft): *11306.74*, Dogleg (º/100 ft): *2.54*, Sensor Depth (ft): *19407.00*, Bit To Sensor (ft): *68.00*
Circulating	3	07-31	19:50	23:30	07-31			Circulate/ Condition mud to pooh
Pooh	7	07-31	23:30	06:00	08-01			POOH / TD well

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Sunday, Aug 01 00:00 - 23:59 (Day 22 of 23)

Billing: $9,500.00 ($253,435.75 total)

Drilling Summary

Start Depth (ft)		**Downhole Hours**	10.00
Bit Depth (ft)		**Drilling Hours**	0.00
Bottom Hole Depth (ft)		**Hours Circulating**	0.00
Total Distance (ft)	0.00	**Hours Sliding**	0.00
Distance Rotated (ft)	0.00	**Hours Rotating**	0.00
Distance Slid (ft)	0.00		
Inclination In			
Inclination Out			
Azimuth In		**% Hours Rotating**	
Azimuth Out		**% Hours Sliding**	
AVG Total ROP (ft/h)	0.00	**% Distance Sliding**	
AVG Rotating ROP (ft/h)	0.00	**% Distance Rotating**	
AVG Sliding ROP (ft/h)	0.00		

Drilling Parameters

Rotating WOB (klbs)	
Sliding WOB (klbs)	
Rotating SPM	
Sliding SPM	
Motor RPM	182.00 - 182.00
Surface RPM	
Flow Rate (gpm)	
On Bottom Pressure (psi)	
Off Bottom Pressure (psi)	

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

BHA #10 - 8.75" LATERAL w/ Agitator

Date In: Jul 29, 2021, 23:30 Date Out: Aug 1, 2021, 10:00

Bit Details

OD (in)	8.750
Vendor	REED
S/N	A263858
Nozzles	7 x 14
Total Flow Area (in²)	1.052
Drilling Hours for Day	0.00
Total Drilled for Day (ft)	
Drilling Hours for BHA	27.83
Total Drilled for BHA (ft)	2600.00

Motor Details

Size (in)	7.0
Lobe/Stage	7/8, 8.5
Bend Angle	1.75
Speed (rev/gal)	0.26
Wear Pad OD (in)	7.500

Bit Distances

Survey: 68.00 ft, **Gamma:** 44.00 ft, **Resistivity:** 54.00 ft

Directional Comments

Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710 ft/lbs, Bit Runs: 6

MWD Comments

POOH Reason

Total Depth/Casing Point: Motor Drained weak , 1/8" Squat in bearings

Directional Items

Description	Vendor	SN#	Top Conn	Btm Conn	ID (in)	OD (in)	Fn Len. (ft)	Len (ft)	Aggr. Len (ft)
Bit (Fixed Cutter) Description: *SKC7616M-G1D*, Type: *PDC (Polycrystalline Diamond Compacts)*, Gauge Length (in): *4.00*, Size (in): *8.75*	REED	A263858	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: *7'' 7/8 8.5 FXD 1.75° w/ TRUE SLICK*, Size (in): *7.00*, Bend Angle (°): *1.75*, Rotor Lobe: *7*, Stator Lobe: *8*, Stator Stage: *8.5*	Patriot	CD700041	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.92	35.92
Resistivity Description: *RESISTIVITY-MWD*	BENCHTREE	650-1012						31.39	67.31
Battery Description: *Resistivity Battery*	BENCHTREE	4500803A4						17.38	84.69
Drill Collar Description: *NMDC*, Material: *Non-Magnetic*, Type: *Slick Drill*	GATOR	GT 67-30-233	4 1/2" IF Box	4 1/2" IF Pin	3.313	6.420		30.38	115.07
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	118.07
Drill Pipe Description: *21 Stands*, Type: *Slick*	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1880.10	1998.17
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD11669	4 1/2" IF Box	EverDrlg54 Pin	3.000	3.000		3.45	2001.62
Agitator Description: *AGITATOR*, Size (in): *7.00*	NOV	AGHF 0675-0078	4 1/2" IF Box	4 1/2" IF Pin		7.000		25.15	2026.77
Crossover Sub Description: *X-O SUB*, Material: *Steel*	BLACK DIAMOND	BD12360	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.625		3.49	2030.26

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Pooh	7	07-31	23:30	06:00	08-01			POOH / TD well
Pooh	7	08-01	06:00	10:00	08-01			POOH / LD BHA - TD of well
Other	16	08-01	10:00	07:30	08-02			Run casing

MWD Activities

No Activities

Job Number	Operator		Rig Name
WT-21-067	Advance Energy Partners		Nabors X50
Start Date	**Well Name**		**Legal Well Name | AFE**
2021-06-02	Dagger State Com 558H		Dagger State Com 558H
Play	**State/Province and Country**	**County**	**Company Man**
Delaware Basin	New Mexico, US	Lea	

Monday, Aug 02 00:00 - 23:59 (Day 23 of 23)

Billing: $3,200.00 ($253,435.75 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)		**Downhole Hours**	0.00	**Rotating WOB (klbs)**	
Bit Depth (ft)		**Drilling Hours**	0.00	**Sliding WOB (klbs)**	
Bottom Hole Depth (ft)		**Hours Circulating**	0.00	**Rotating SPM**	
Total Distance (ft)	0.00	**Hours Sliding**	0.00	**Sliding SPM**	
Distance Rotated (ft)	0.00	**Hours Rotating**	0.00	**Motor RPM**	-
Distance Slid (ft)	0.00			**Surface RPM**	
Inclination In				**Flow Rate (gpm)**	
Inclination Out				**On Bottom Pressure (psi)**	
Azimuth In		**% Hours Rotating**		**Off Bottom Pressure (psi)**	
Azimuth Out		**% Hours Sliding**			
AVG Total ROP (ft/h)	0.00	**% Distance Sliding**			
AVG Rotating ROP (ft/h)	0.00	**% Distance Rotating**			
AVG Sliding ROP (ft/h)	0.00				

Personnel

Name	Position
Advance Directional	Directional Driller
Francisco DeLeon	MWD Engineer
Robert Olivarez	MWD Engineer

No BHAs

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Other	16	08-01	10:00	07:30	08-02			Run casing
Other	16	08-02	07:30	14:30	08-02			Cementing ops & rig down

MWD Activities

No Activities

Surface Plat

Dagger State Com 558H (WT-21-067)

2021-06-02 to 2021-08-02
Lea, New Mexico, US (32.45, -103.62)

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 4, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name

Property Code	Property Name	Well Number
	DAGGER STATE COM	558H
OGRID No.	**Operator Name**	**Elevation**
	ADVANCE ENERGY PARTNERS HAT MESA	3815'

Surface Location

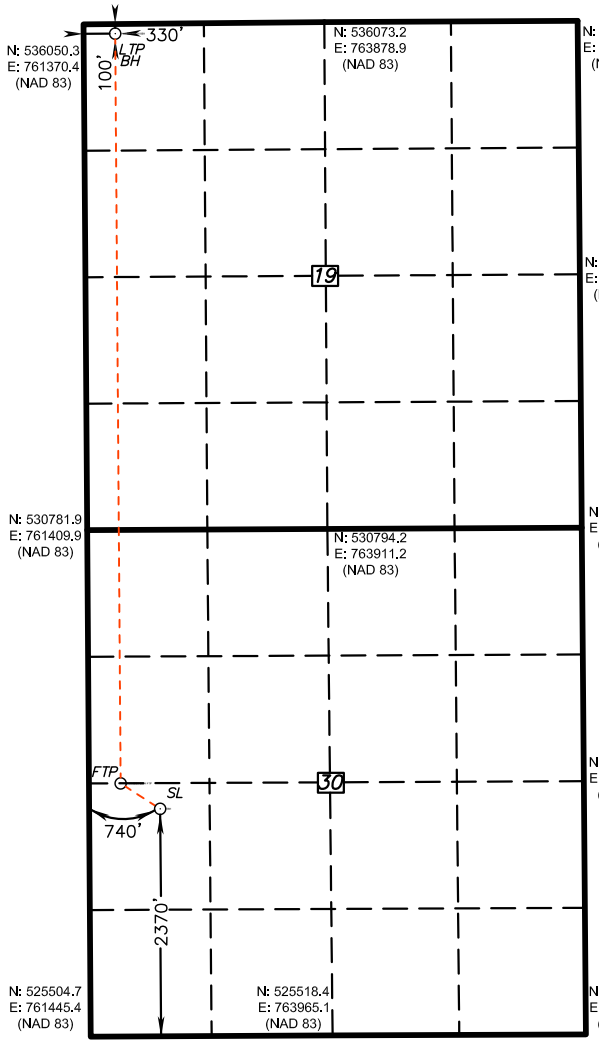
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
L	30	21 S	33 E		2370	SOUTH	740	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
D	19	21 S	33 E		100	NORTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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



LAST TAKE POINT/
PROPOSED BOTTOM HOLE
Lat – N 32.471371°
Long – W 103.618784°
NMSPCE– N 535953.3
E 761701.2
(NAD-83)

FIRST TAKE POINT
2640' FNL & 330' FWL
Lat – N 32.449904°
Long – W 103.618770°
NMSPCE– N 528143.6
E 761757.7
(NAD-83)

SURFACE LOCATION
Lat – N 32.449167°
Long – W 103.617441°
NMSPCE– N 527878.2
E 762169.3
(NAD-83)

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.

Signature Date

Printed Name

Email Address

SURVEYOR CERTIFICATION

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

Date Surveyed: MAY 7, 2021

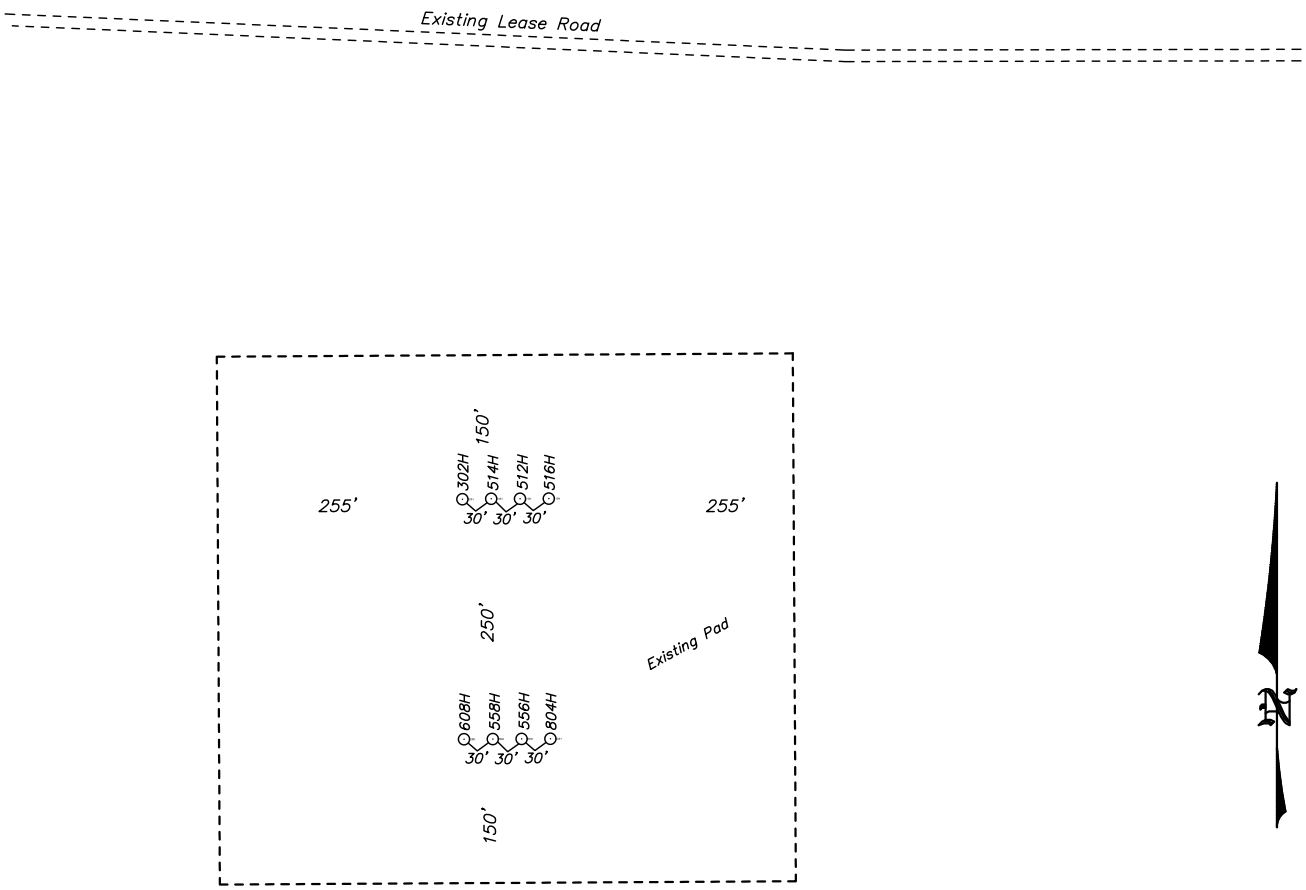
Signature & Seal of Professional Surveyor

GARY L. JONES NEW MEXICO 7977 REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. Gary L. Jones 7977
BASIN SURVEYS

0' 1000' 2000' 3000' 4000' N
SCALE: 1" = 2000'
WO Num.: 35374

SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.



ADVANCE ENERGY PARTNERS HAT MESA
DAGGER STATE COM #558H
ELEV. – 3815'

Lat – N 32.449167°
Long – W 103.617441°
NMSPCE– N 527878.2
E 762169.3
(NAD–83)

EUNICE, NM IS ±26 MILES TO THE EAST OF LOCATION.

200 0 200 400 FEET

SCALE: 1" = 200'

ADVANCE ENERGY PARTNERS HAT MESA

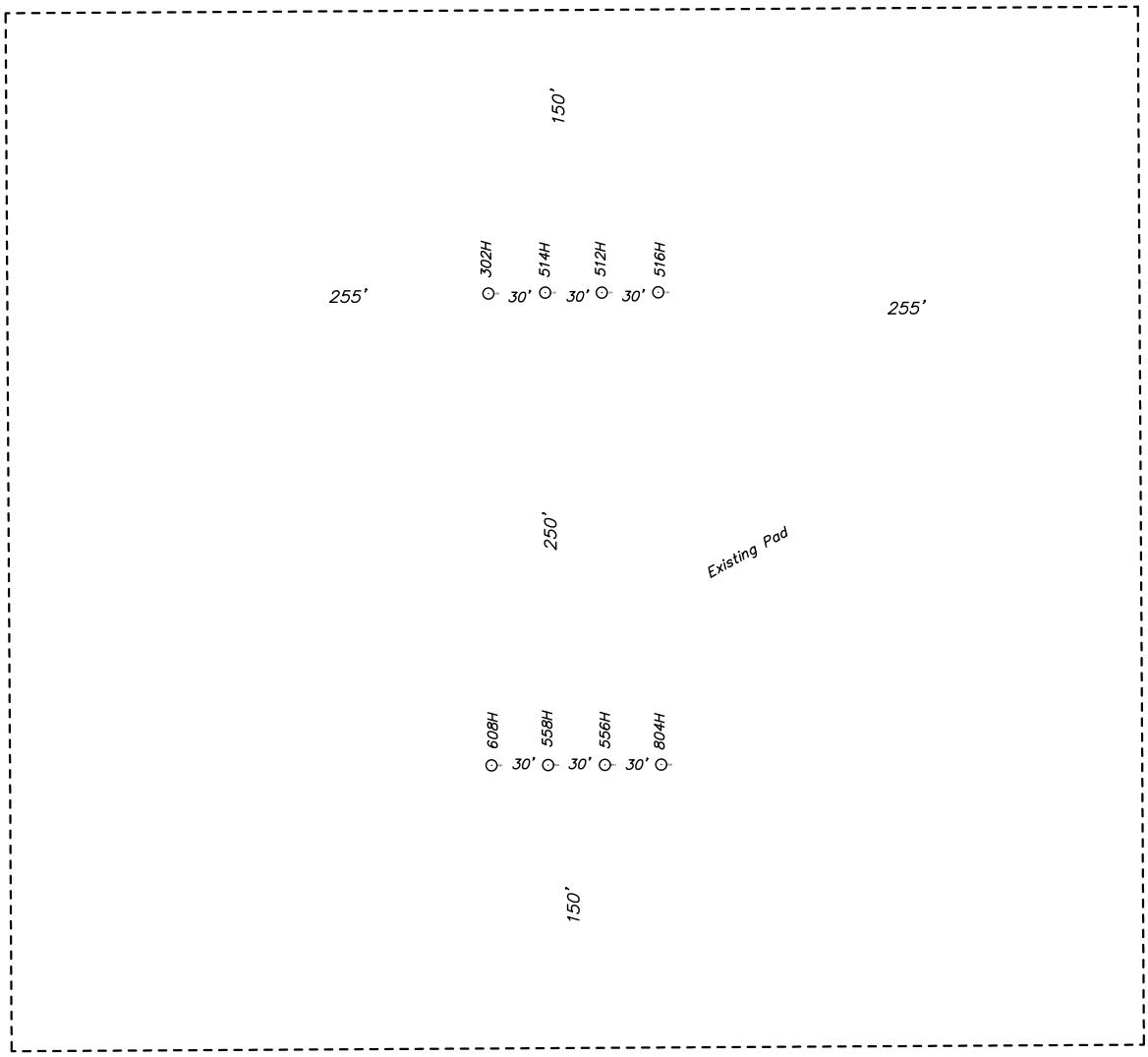
REF: DAGGER STATE COM #558H / WELL PAD TOPO

THE DAGGER STATE COM #558H LOCATED 2370' FROM THE SOUTH LINE AND 740' FROM THE WEST LINE OF SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M., LEA COUNTY, NEW MEXICO.

basin surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393–7316 – Office
(575) 392–2206 – Fax
basinsurveys.com

W.O. Number: 35374	Drawn By: K. GOAD	Date: 05–13–2021	Survey Date: 05–07–2021	Sheet 1 of 1 Sheets

SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.



100 0 100 200 FEET

SCALE: 1" = 100'

ADVANCE ENERGY PARTNERS HAT MESA

REF: DAGGER STATE COM #558H / WELL PAD TOPO

THE DAGGER STATE COM #558H LOCATED 2370' FROM THE SOUTH LINE AND 740' FROM THE WEST LINE OF SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M., LEA COUNTY, NEW MEXICO.

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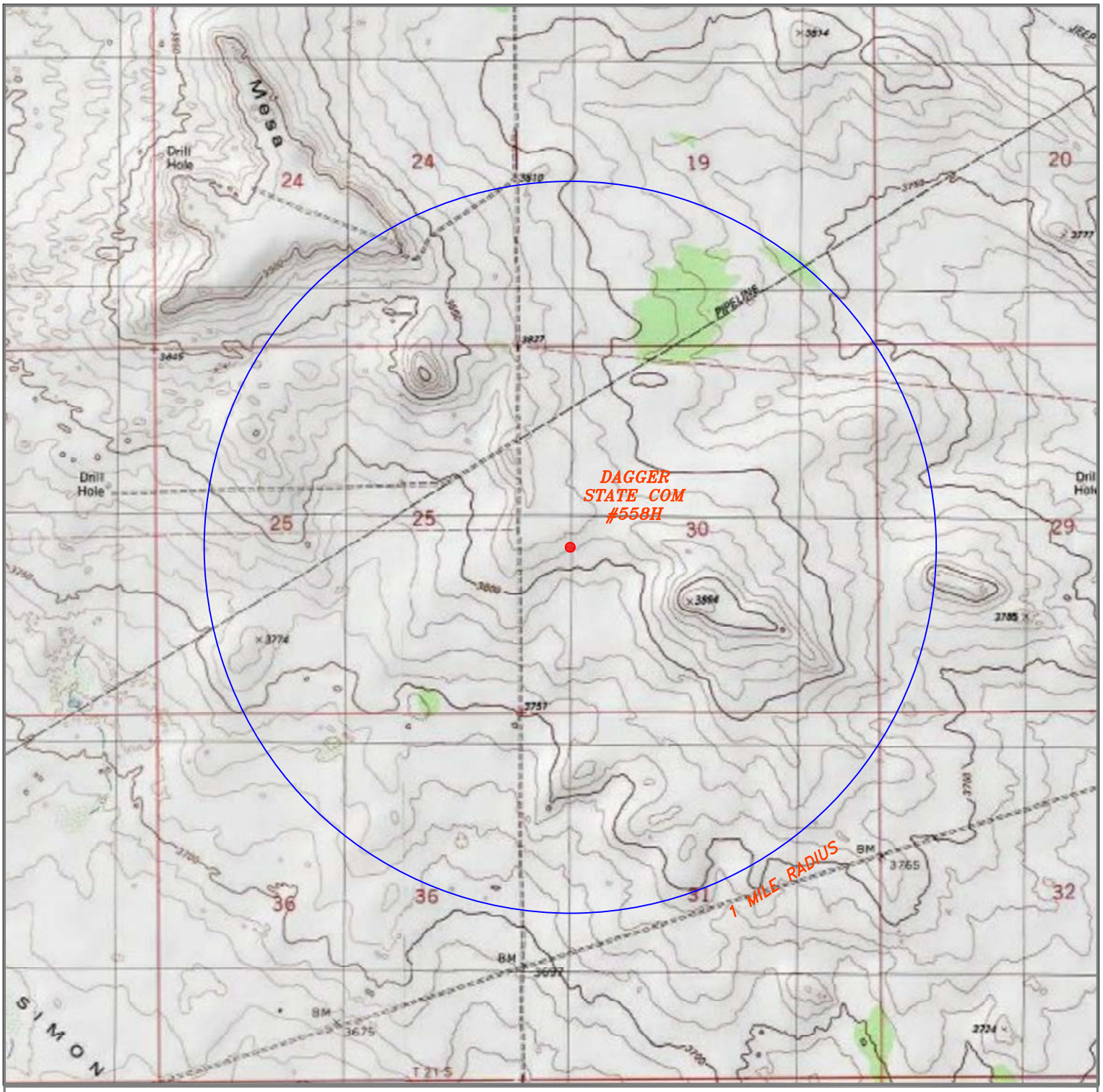
W.O. Number: 35374	Drawn By: K. GOAD	Date: 05-13-2021	Survey Date: 05-07-2021	Sheet 1 of 1 Sheets



DAGGER STATE COM #558H

Located 2370' FSL and 740' FWL
Section 30, Township 21 South, Range 33 East,
N.M.P.M., Lea County, New Mexico.

basin surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 – Office
(575) 392-2206 – Fax
basinsurveys.com

0' 1000' 2000' 3000' 150'0'
SCALE: 1" = 2000'

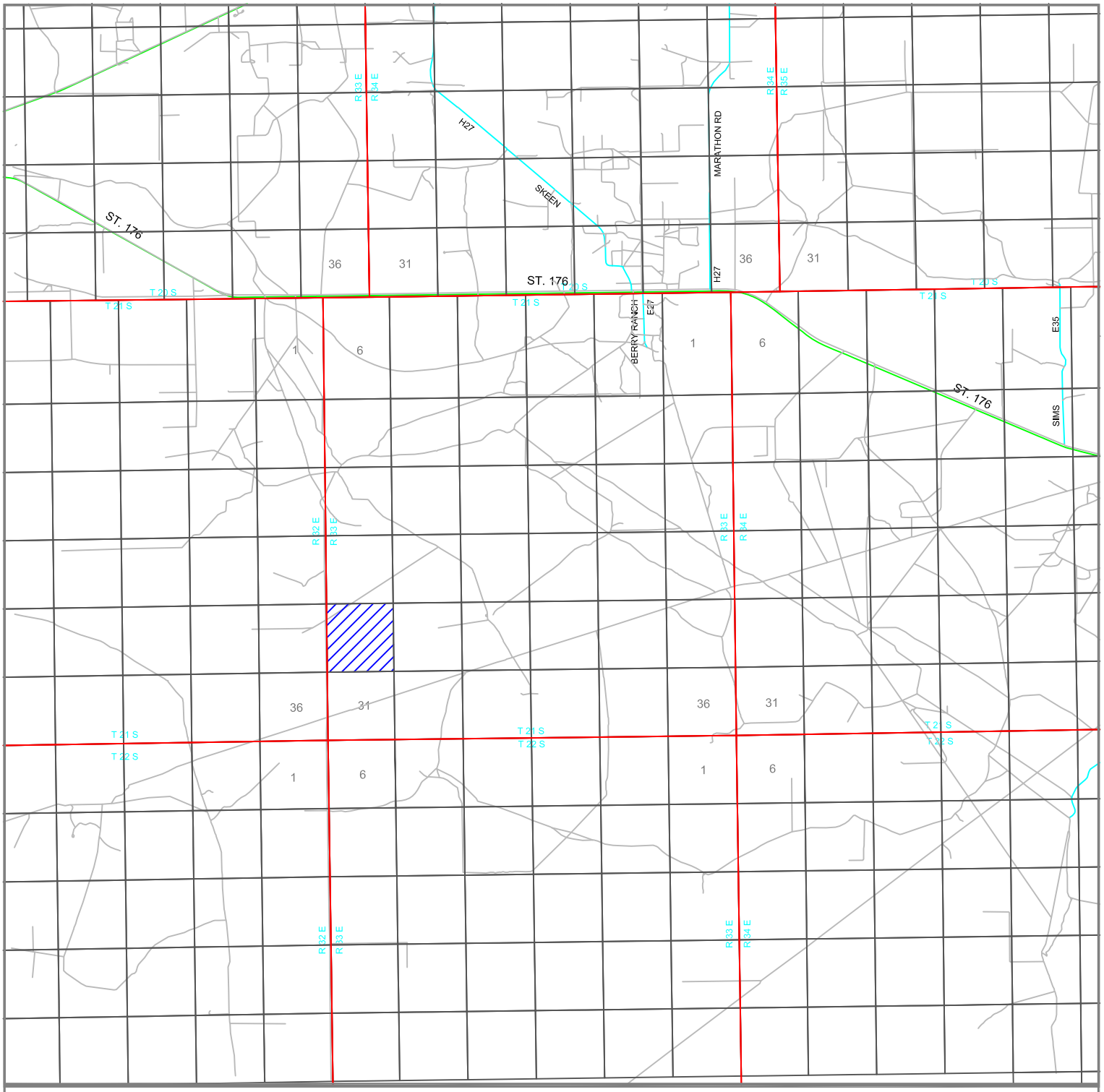
W.O. Number: KJG 35374

Survey Date: 05-07-2021

YELLOW TINT – USA LAND
BLUE TINT – STATE LAND
NATURAL COLOR – FEE LAND

N

ADVANCE ENERGY PARTNERS HAT MESA



DAGGER STATE COM #558H

Located 2370' FSL and 740' FWL
Section 30, Township 21 South, Range 33 East,
N.M.P.M., Lea County, New Mexico.

basin surveys
focused on excellence in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 – Office
(575) 392-2206 – Fax
basinsurveys.com

0 1 MI 2 MI 3 MI 4 MI
SCALE: 1" = 2 MILES

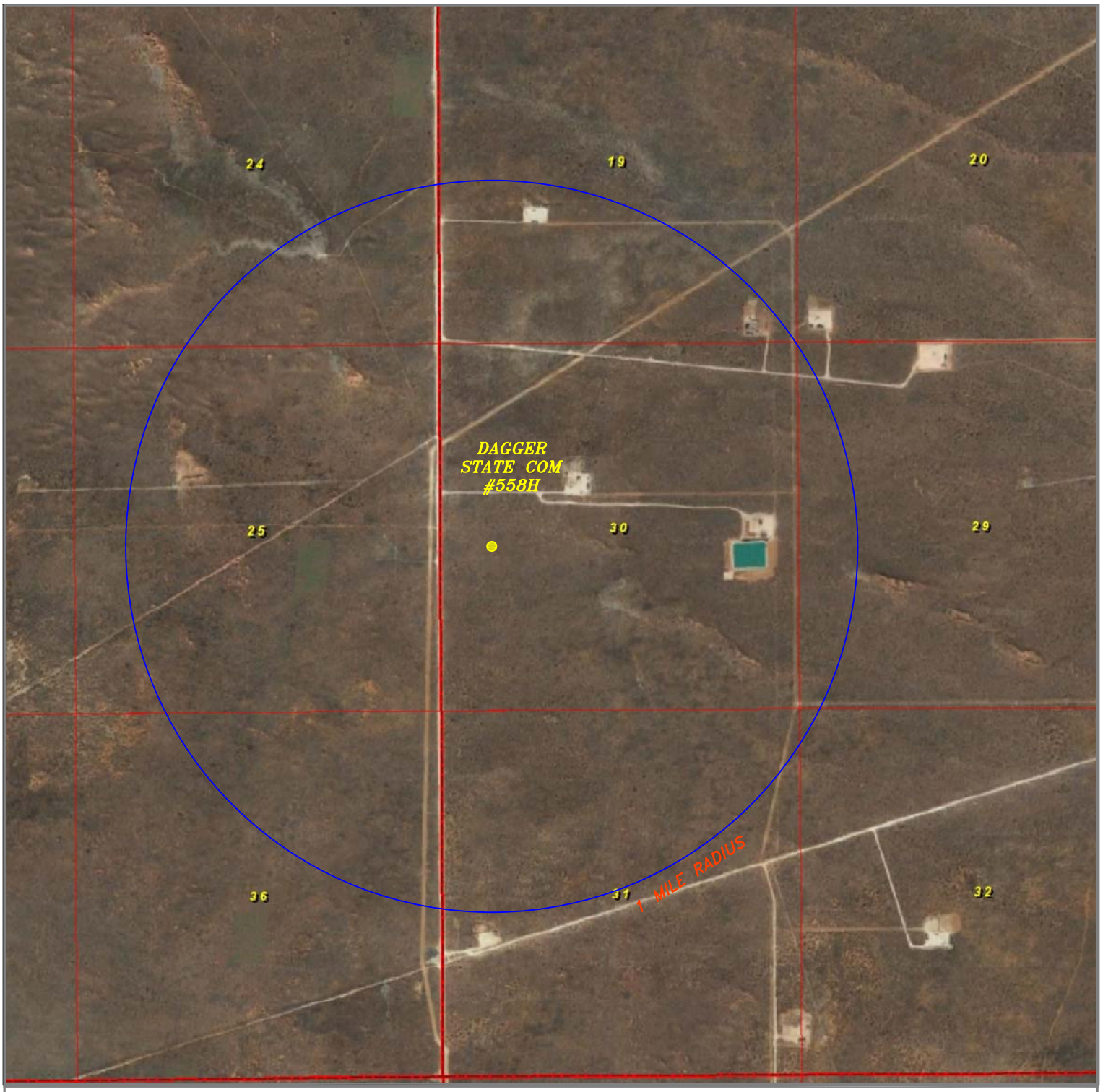
W.O. Number: KJG 35374

Survey Date: 05-07-2021

YELLOW TINT – USA LAND
BLUE TINT – STATE LAND
NATURAL COLOR – FEE LAND

N

ADVANCE ENERGY PARTNERS HAT MESA



DAGGER STATE COM #558H

Located 2370' FSL and 740' FWL
Section 30, Township 21 South, Range 33 East,
N.M.P.M., Lea County, New Mexico.

basin surveys
focused on excellence in the oilfield
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 – Office
(575) 392-2206 – Fax
basinsurveys.com

0' 1000' 2000' 3000' 150'0'
SCALE: 1" = 2000'

W.O. Number: KJG 35374

Survey Date: 05-07-2021

YELLOW TINT – USA LAND
BLUE TINT – STATE LAND
NATURAL COLOR – FEE LAND

N

ADVANCE ENERGY PARTNERS HAT MESA

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.
30-025-48901

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
DAGGER STATE COM

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

8. Well Number
558H

2. Name of Operator
Advance Energy Partners Hat Mesa

9. OGRID Number
372417

3. Address of Operator
11490 Westheimer Rd, Houston, TX 77077

10. Pool name or Wildcat
WC-025 G-06 S213326D; BONE SPRING

4. Well Location
Unit Letter L : 2370 feet from the SOUTH line and 740 feet from the WEST line
Section 30 Township 21 S Range 33 E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3815'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	**PLUG AND ABANDON**	☐	**REMEDIAL WORK**	☐	**ALTERING CASING**	
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 11/26/21: Pressure test casing to 9800 psi for 30 minutes.
- 11/26-12/7/21: Perforate from 11,636' – 19,444' (2400). Frac with 19,379,693 lbs sand and 535,028 gal fluid.
- 1/9-11/22: Drill all plugs out and clean out to a PBTD of 19,452'.
- 1/15/22: Begin flowback operations.
- 3/18-19/22: Run 2-7/8" production tubing to 10,570' and ESP @ 10,810'.

Spud Date: 6/3/21 Rig Release Date: 8/2/21

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE: Eileen Kosakowski TITLE: Sr. Eng. Tech DATE: 7/21/22

PRINT NAME: Eileen M Koskowski E-mail address: ekosakowski@advanceenergypartners.com PHONE: 832-672-4604

For State Use Only

APPROVED BY:_____ TITLE_____ DATE_____
Conditions of Approval (if any):

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-105
Revised April 3, 2017

1. WELL API NO. 30-025-48901
2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN
3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:

☒ **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name: DAGGER STATE COM
6. Well Number: 558H

7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator: Advance Energy Partners Hat Mesa, LLC
9. OGRID: 372417
10. Address of Operator: 11490 Westheimer RD, Suite 950, Houston, TX 77077
11. Pool name or Wildcat: WC-025 G-06 S213326D; BONE SPRING

12.Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	L	30	21 S	33 E		2370	S	740	W	LEA
BH:	D	19	21 S	33 E		95	N	340	W	LEA

13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)
6/3/21	7/31/21	8/2/21	1/15/22	3815’

18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run
19,475’	19,452’	YES	Gamma

22. Producing Interval(s), of this completion - Top, Bottom, Name
11,636’-19,444’ Bone Spring

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13.375”	54.4#	1564’	17.5”	930	
9.625”	40#	3645’/5478’	12.25”	2229	
5.5”	20#	19,460’	8.5”	3695	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8”	10,570’	

26. Perforation record (interval, size, and number)
11,636’-19,444’ (2400) holes

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11,636’-19,444’	19,379,693 lbs sand, 535,028 bbls water

28. PRODUCTION

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*
1/15/22	Flowing	Prod

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
2/21/22	24	52		1808	2059	1278	1139

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas – MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*
-	654		1808	2059	1278	42.7

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
30. Test Witnessed By Amit Kumar

31. List Attachments

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.
33. Rig Release Date: 8/2/21

34. If an on-site burial was used at the well, report the exact location of the on-site burial:
Latitude _____ Longitude _____ NAD83

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Eileen Kosakowski Date: 7/21/22
Printed Name: Eileen M Kosakowski Title: Sr. Eng. Tech E-mail Address: ekosakowski@advanceenergypartners.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs10,010MD/9992TVD	T.Todilto	
T. Abo	T.2BS 10,579MD/10,526TVD	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from……..……..…to……. No. 3, from……to…….……

No. 2, from……to…… No. 4, from……to…….

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from…….to……feet……

No. 2, from…….to……feet……

No. 3, from…….to……feet……

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

ACKNOWLEDGMENTS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	OGRID: 372417
	Action Number: 128140
	Action Type: [C-104] Completion Packet (C-104C)

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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
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Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
ADVANCE ENERGY PARTNERS HAT MESA, LLC 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	372417
	Action Number: 128140
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	9/29/2025