

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

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Advance Energy Partners Hat Mesa, LLC 11490 Westheimer RD, Suite 950 Houston, TX		² OGRID Number 372417	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30-025-48902	⁵ Pool Name WC-025 G-06 S213326D; BONE SPRING		⁶ Pool Code 97929
⁷ Property Code 319601	⁸ Property Name DAGGER STATE COM		⁹ Well Number 608H

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	S	710	W	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		86	N	321	W	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, LP 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 5/29/21	²² Ready Date 1/15/22	²³ TD 20,104'	²⁴ PBTD 20,076'	²⁵ Perforations 12,348' - 20 067'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
15.375"		13.375"	1577'		910
12.25"		9.625"	3356'/5498'		1190
8.5"		5.5"	20,084'		3815

V. Well Test Data

³¹ Date New Oil 1/16/22	³² Gas Delivery Date 1/15/22	³³ Test Date 2/14/22	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure --	³⁶ Csg. Pressure 300
³⁷ Choke Size 50	³⁸ Oil 253	³⁹ Water 1868	⁴⁰ Gas 555		⁴¹ Test Method 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: <i>Eileen Kosakowski</i>			OIL CONSERVATION DIVISION Approved by: Title: Approval Date:		
Printed name: Eileen M Kosakowski					
Title: Sr. Eng. Tech					
E-mail Address: ekosakowski@advanceenergypartners.com					
Date: 7/20/22		Phone: 832-672-4604			

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) 476-3480 Fax: (505) 476-3482

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 30-025-48902	Pool Code 97929	Pool Name WC-025 G-06 S213326D; BONE SPRING
Property Code 319601	Property Name DAGGER STATE COM	Well Number 608H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA	Elevation 3816'

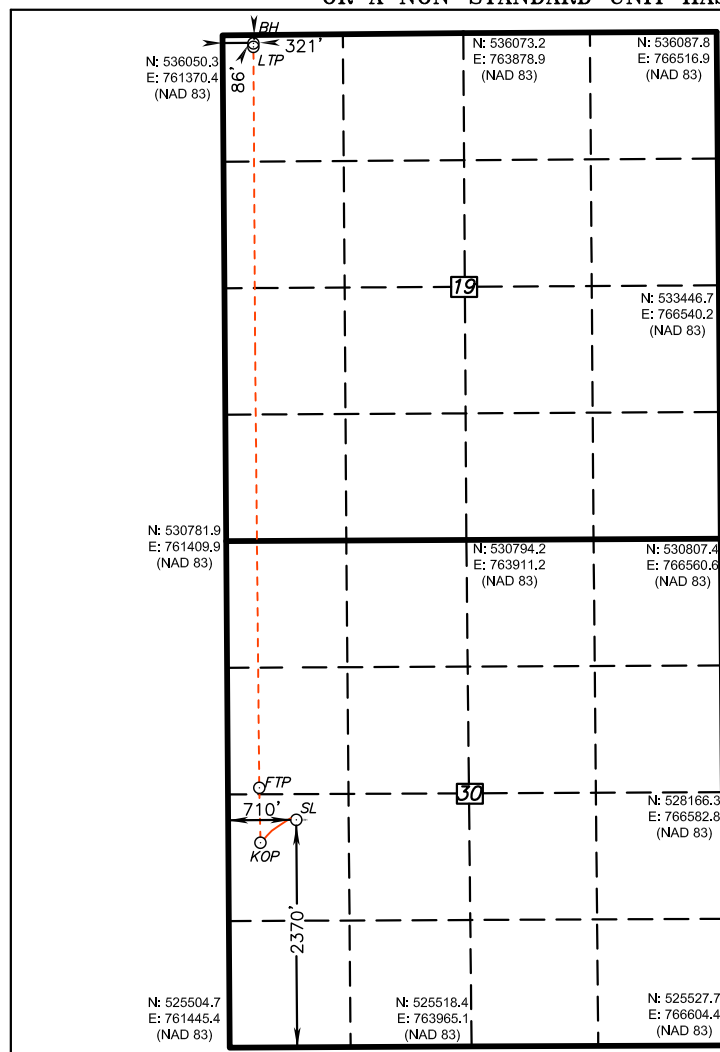
Surface Location

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	710	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		86	NORTH	321	WEST	LEA
Dedicated Acres 240	Joint or Infill	Consolidation Code C	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



BOTTOM HOLE LOCATION

Lat - N 32.471410°
Long - W 103.618813°
NMSPCE- N 535967.7
E 761692.0
(NAD-83)

LAST TAKE POINT
123' FNL & 321' FWL

Lat - N 32.471309°
Long - W 103.618811°
NMSPCE- N 535930.7
E 761692.7
(NAD-83)

FIRST TAKE POINT
2571' FNL & 327' FWL

Lat - N 32.450093°
Long - W 103.618781°
NMSPCE- N 528212.5
E 761753.8
(NAD-83)

KICK OFF POINT
2130' FSL & 335' FWL

Lat - N 32.448521°
Long - W 103.618752°
NMSPCE- N 527640.5
E 761766.5
(NAD-83)

SURFACE LOCATION

Lat - N 32.449167°
Long - W 103.617538°
NMSPCE- N 527878.0
E 762139.3
(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 6/22/22
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 supervision, and that the same is true and correct to the best of my belief.

JUNE 11, 2022
Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No. Gary L. Jones 7977
BASIN SURVEYING

0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 35745



End of Well Report

Advance Energy Partners, LLC Dagger State Com, Well No. 608H Lea County, New Mexico

Rig: Nabors #X50

Job No.: WT-21-066

Start Date: 05/26/2021

End Date: 08/12/2021

Directional Drillers:
Advanced 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





Performance Overview

Dagger State Com 608H (WT-21-066)

2021-05-26 to 2021-08-12

Lea, New Mexico, US (32.45, 103.62)

BHA Performance

BHA 1

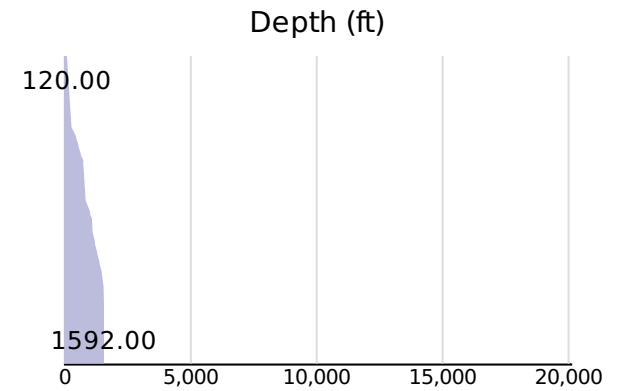
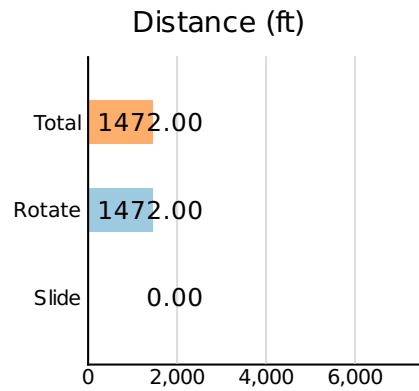
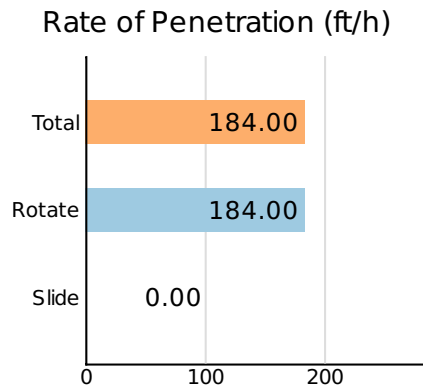
BHA #1 (17.5"
Surface)

In: **05/29/2021**

13:30

Out: **05/30/2021**

10:30



BHA 2

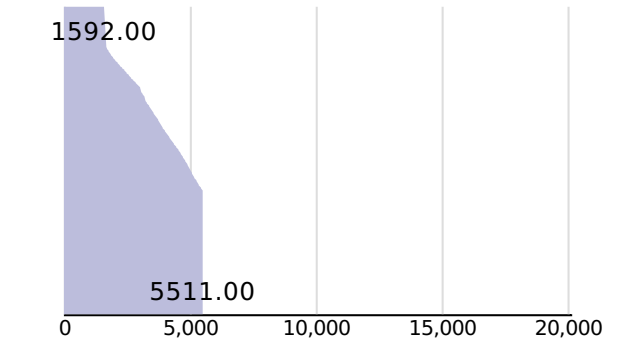
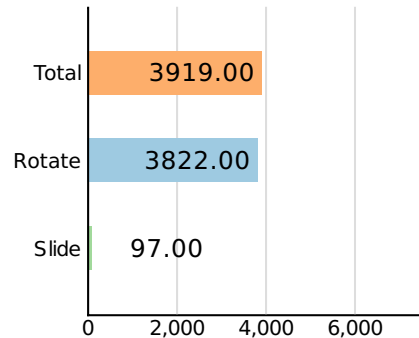
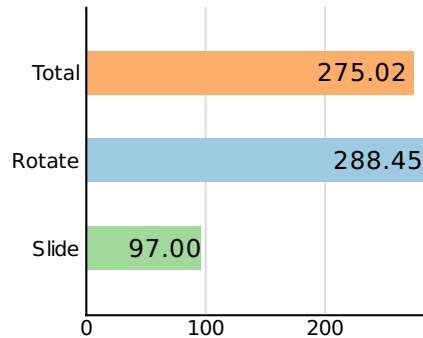
Intermediate
12.25"

In: **05/31/2021**

10:30

Out: **06/01/2021**

21:30



BHA 3

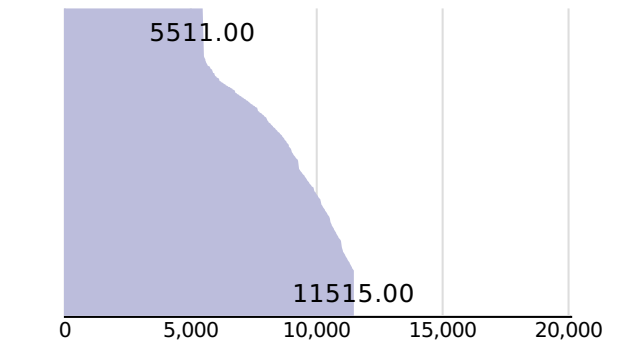
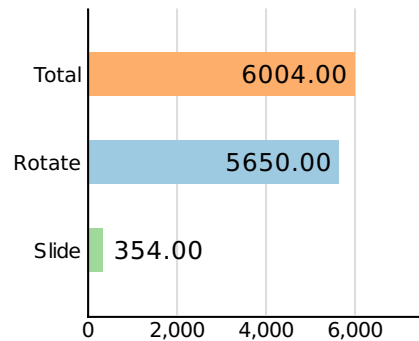
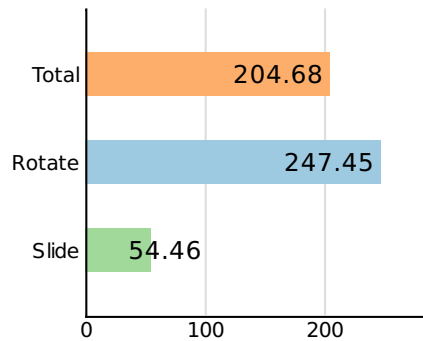
Intermediate 8.75"

In: **08/03/2021**

00:30

Out: **08/05/2021**

02:15



BHA 4

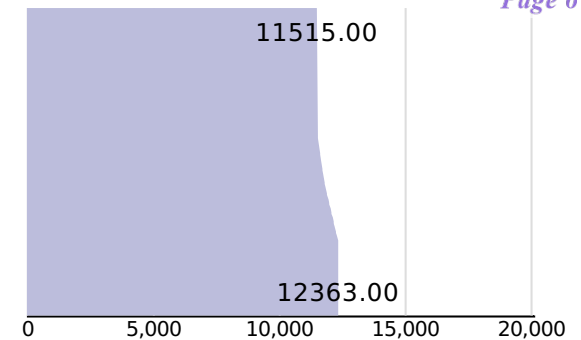
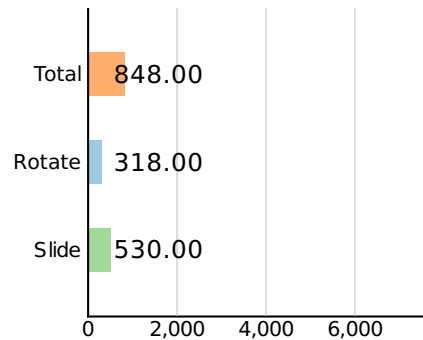
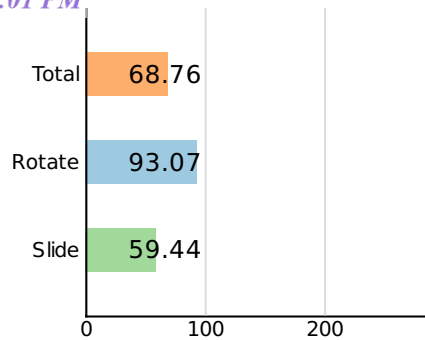
8.75" CURVE

In: 08/05/2021

02:15

Out: 08/06/2021

15:50



BHA 5

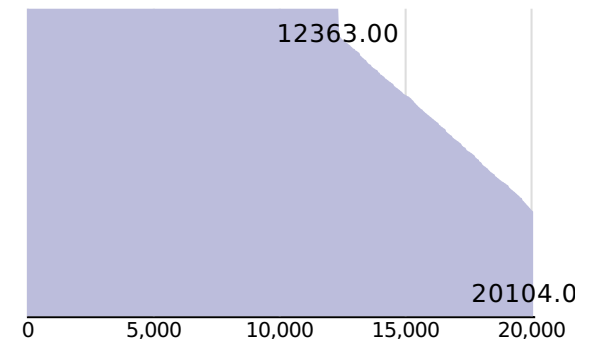
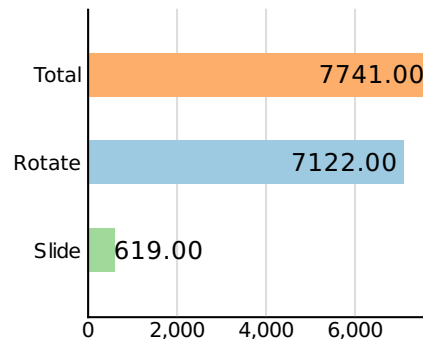
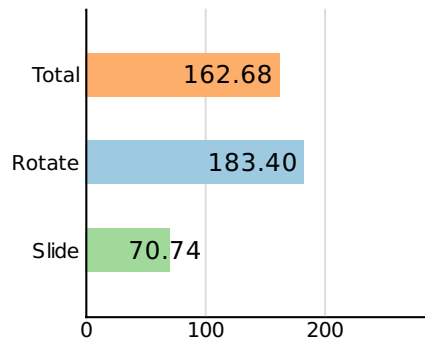
8.75" LATERAL w/
Agitator

In: 08/06/2021

16:30

Out: 08/10/2021

17:45



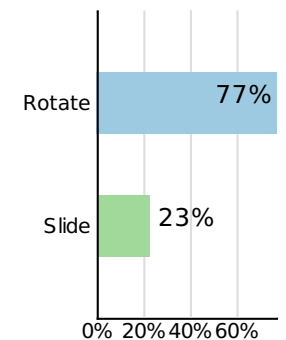
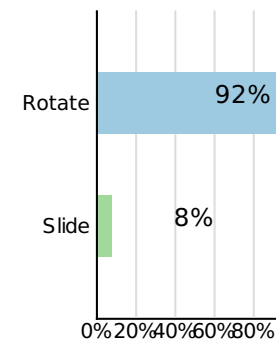
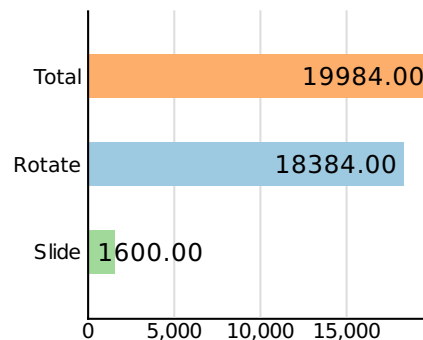
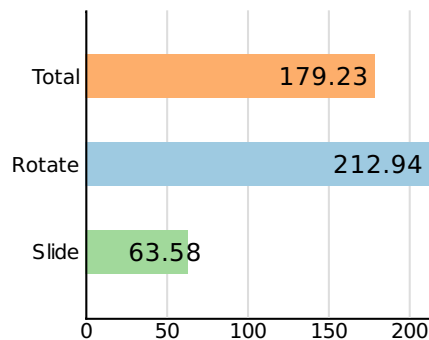
Rate of Penetration (ft/h)

Distance (ft)

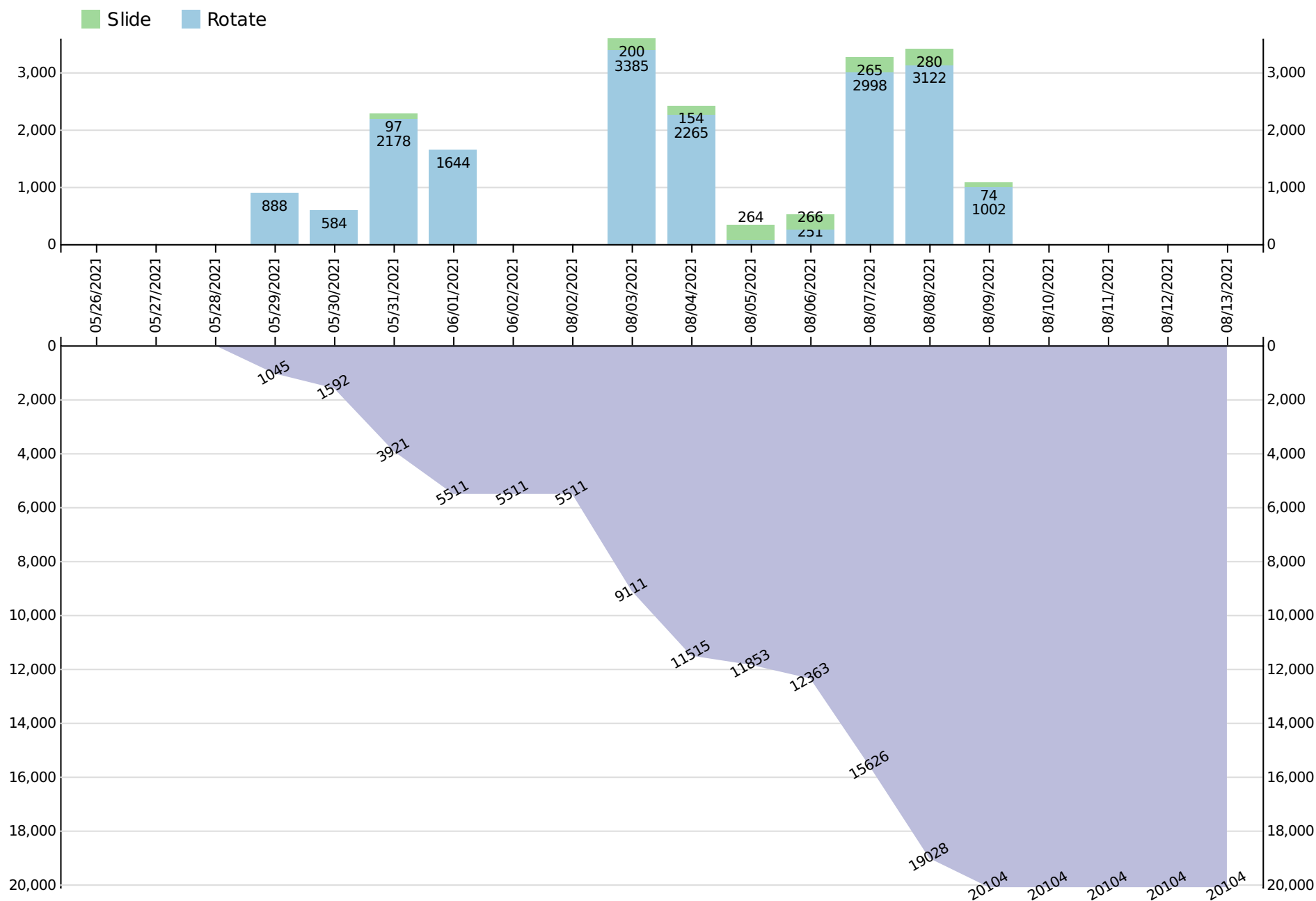
Distance
Percentage

Time Percentage

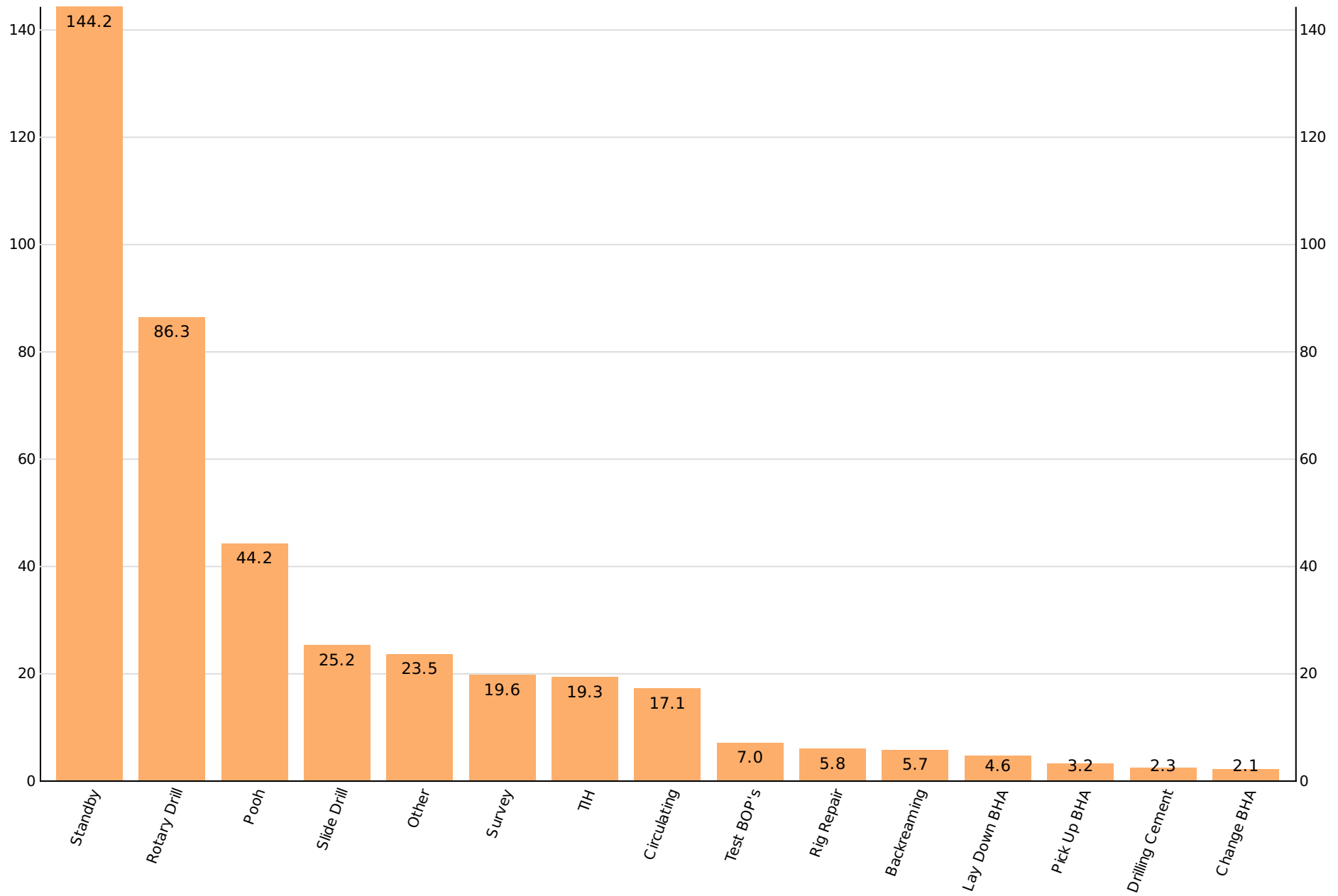
Total



Days vs. Depth



Directional Activity Hours





Proposed vs. As Drilled

Dagger State Com 608H (WT-21-066)

2021-05-26 to 2021-08-12

Lea, New Mexico, US (32.45, 103.62)

Advance Energy Partners, LLC

Dagger State Com 608H
Lea County, New Mexico
Job No. WT-21-066
Nabors X50
Plan 2.0

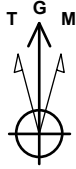


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Received by OCD: 7/20/2022 2:39:01 PM

South(-)/North(+) (2000 usft/in)

Page 10 of 10

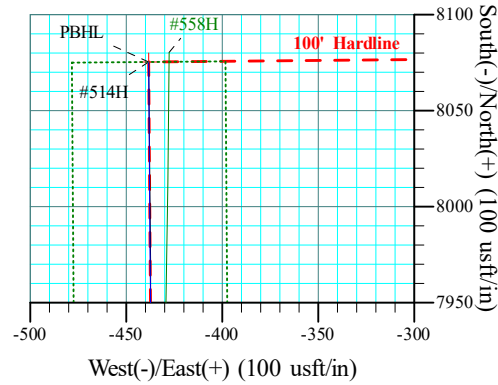


Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.06°

Magnetic Field
Strength: 47888.0nT
Dip Angle: 60.17°
Date: 8/3/2021
Model: MVHD

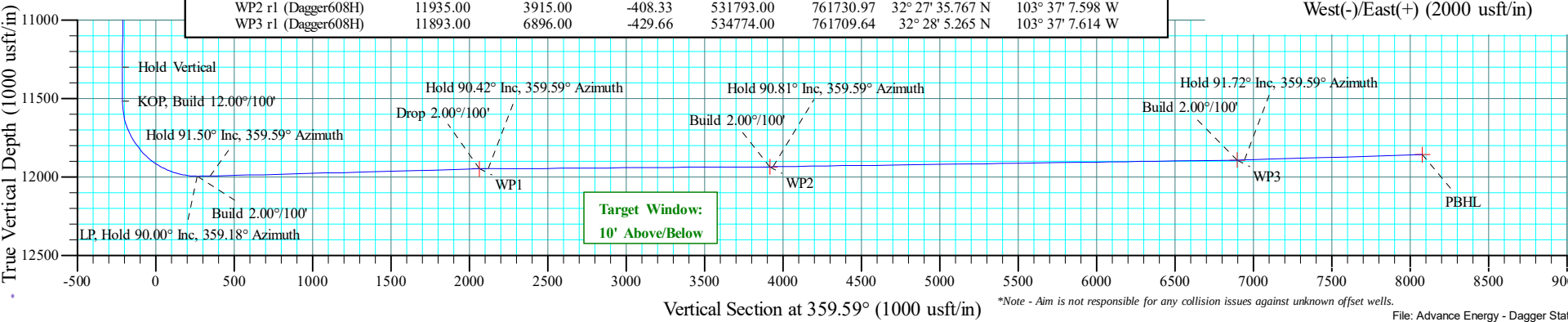
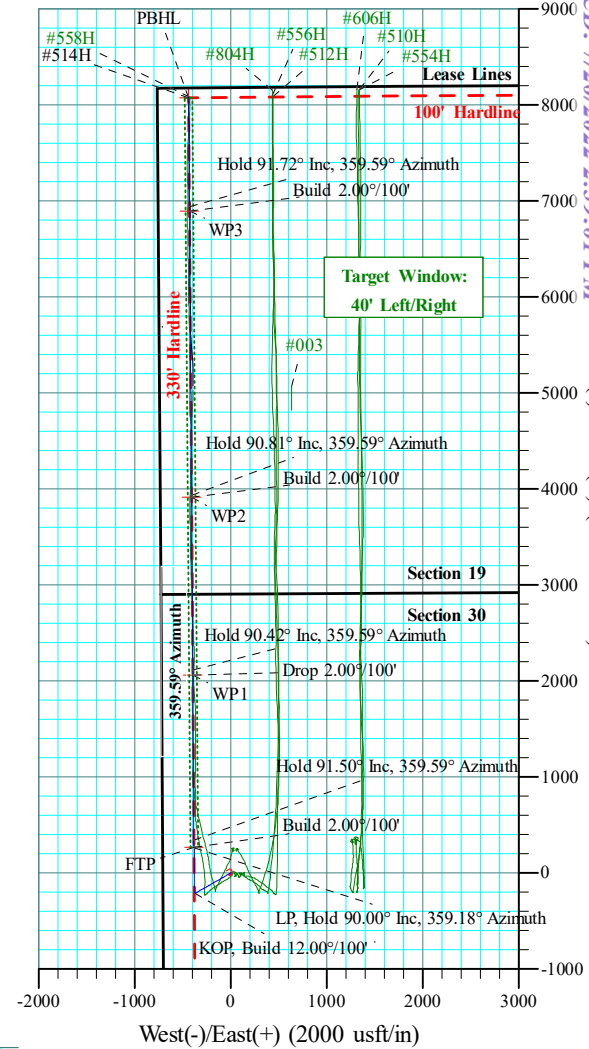
Magnetic North: 6.06° to Grid North

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:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
SITE DETAILS: Dagger State Com 608H	
Site Centre Northing:	527878.00
Easting:	762139.30
Positional Uncertainty:	0.00
Convergence:	0.38
Local North:	Grid



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	Build 1.00°/100'
3	5420.55	4.21	240.18	5420.17	-7.67	-13.38	1.00	240.18	-7.58	Hold 4.21° Inc, 240.18° Azimuth
4	10894.95	4.21	240.18	10879.83	-207.33	-361.67	0.00	0.00	-204.73	Drop 1.00°/100'
5	11315.50	0.00	0.00	11300.00	-215.00	-375.06	1.00	180.00	-212.31	Hold Vertical
6	11533.04	0.00	0.00	11517.54	-215.00	-375.06	0.00	0.00	-212.31	KOP, Build 12.00°/100'
7	12283.04	90.00	359.18	11995.00	262.42	-381.89	12.00	359.18	265.14	LP, Hold 90.00° Inc, 359.18° Azimuth
8	12286.24	90.00	359.18	11995.00	265.62	-381.94	0.00	0.00	268.35	Build 2.00°/100'
9	12363.96	91.50	359.59	11993.99	343.33	-382.77	2.00	15.29	346.06	Hold 91.50° Inc, 359.59° Azimuth
10	14083.47	91.50	359.59	11949.00	2062.20	-395.07	0.00	0.00	2064.97	Drop 2.00°/100'
11	14137.58	90.42	359.59	11948.09	2116.30	-395.46	2.00	-180.00	2119.08	Hold 90.42° Inc, 359.59° Azimuth
12	15936.37	90.42	359.59	11935.00	3915.00	-408.33	0.00	0.00	3917.82	Build 2.00°/100'
13	15955.94	90.81	359.59	11934.79	3934.57	-408.47	2.00	0.00	3937.40	Hold 90.81° Inc, 359.59° Azimuth
14	18917.74	90.81	359.59	11893.00	6896.00	-429.66	0.00	0.00	6898.90	Build 2.00°/100'
15	18963.19	91.72	359.59	11892.00	6941.43	-429.99	2.00	0.00	6944.33	Hold 91.72° Inc, 359.59° Azimuth
16	20097.59	91.72	359.59	11858.00	8075.30	-438.10	0.00	0.00	8078.23	PBHL

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Dagger608H)	0.00	265.60	-381.60	528143.60	761757.70	32° 26' 59.655 N	103° 37' 7.571 W
PBHL r1 (Dagger608H)	11858.00	8075.30	-438.10	535953.30	761701.20	32° 28' 16.935 N	103° 37' 7.620 W
WP1 r1 (Dagger608H)	11949.00	2062.20	-395.07	529940.20	761744.23	32° 27' 17.433 N	103° 37' 7.588 W
WP2 r1 (Dagger608H)	11935.00	3915.00	-408.33	531793.00	761730.97	32° 27' 35.767 N	103° 37' 7.598 W
WP3 r1 (Dagger608H)	11893.00	6896.00	-429.66	534774.00	761709.64	32° 28' 5.265 N	103° 37' 7.614 W

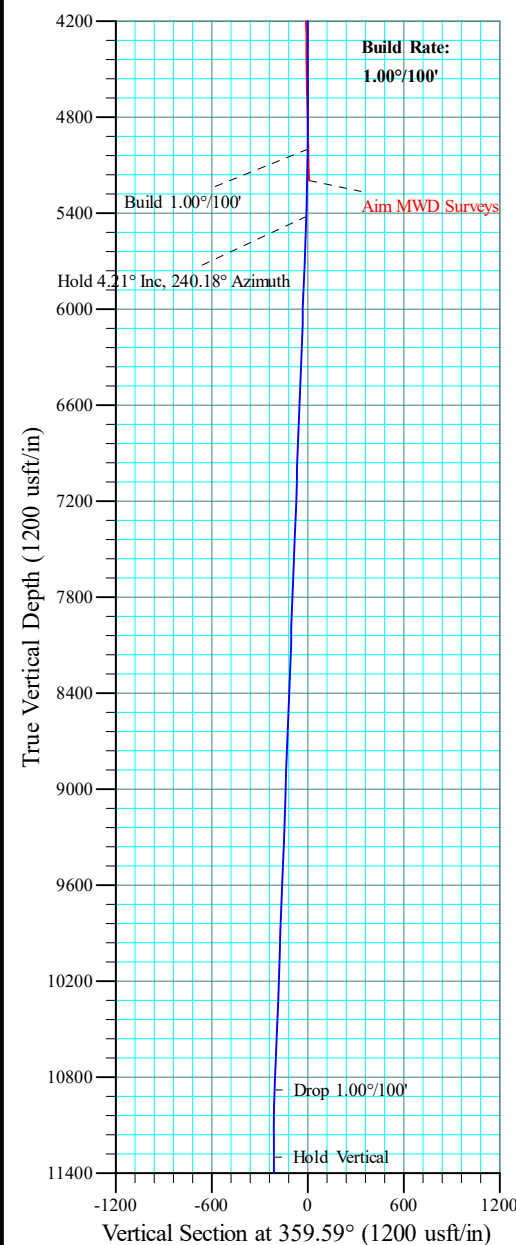


*Note - Aim is not responsible for any collision issues against unknown offset wells.

Drawn by: IG
Date Created: 5/26/2021
Date Revised: 6/3/2021
File: Advance Energy - Dagger State Com 608H Plan 2.0.wpd



Dagger State Com 608H
Lea County, New Mexico
Job No. WT-21-066
Nabors X50
Plan 2.0



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

Magnetic Field
Strength: 47888.0nT
Dip Angle: 60.17°
Date: 8/3/2021
Model: MVHD

Magnetic North: 6.06° to Grid North

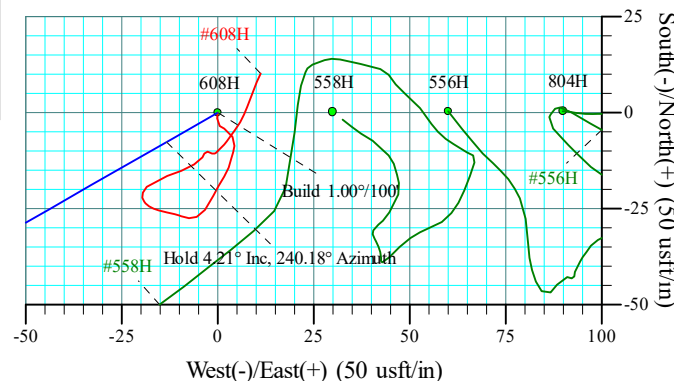
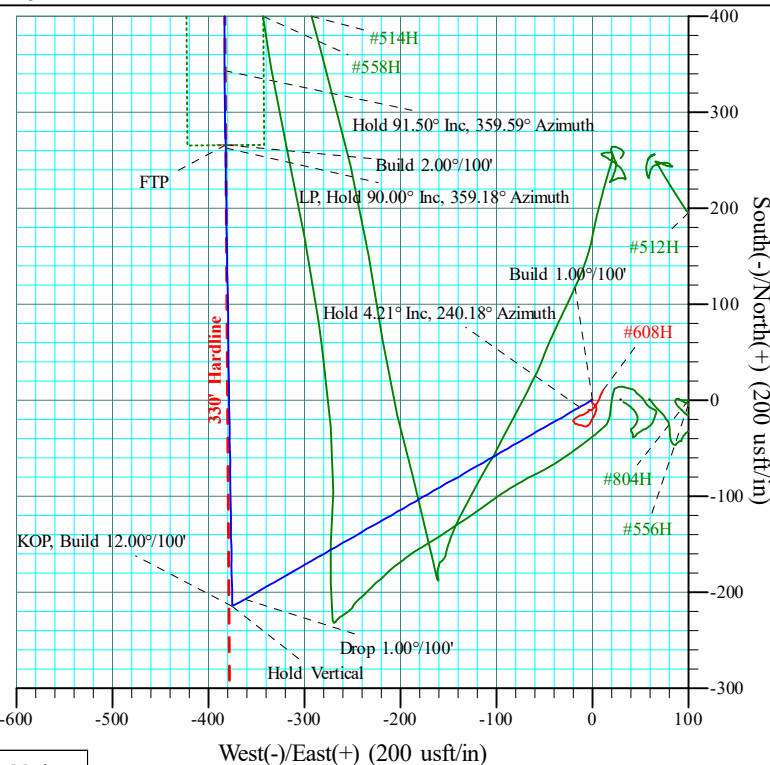
SLOTS		
Slot Name	+N/-S	+E/-W
#003	4819.93	633.71
556H	0.30	60.00
558H	0.20	30.00
608H	0.00	0.00
804H	0.40	89.90

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 608H

Site Centre Northing: 527878.00
Easting: 762139.30
Positional Uncertainty: 0.00
Convergence: 0.38
Local North: Grid
Depth Reference:
3816'GL+32.5'KB @ 3848.50usft (Nabors X50)



*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
FTP (Dagger608H)	0.00	265.60	-381.60	528143.60	761757.70	32° 26' 59.655 N	103° 37' 7.571 W
PBHL r1 (Dagger608H)	11858.00	8075.30	-438.10	535953.30	761701.20	32° 28' 16.935 N	103° 37' 7.620 W
WP1 r1 (Dagger608H)	11949.00	2062.20	-395.07	529940.20	761744.23	32° 27' 17.433 N	103° 37' 7.588 W
WP2 r1 (Dagger608H)	11935.00	3915.00	-408.33	531793.00	761730.97	32° 27' 35.767 N	103° 37' 7.598 W
WP3 r1 (Dagger608H)	11893.00	6896.00	-429.66	534774.00	761709.64	32° 28' 5.265 N	103° 37' 7.614 W

Drawn By: IG
Date Created: 5/26/2021
Date Revised: 8/3/2021

File: Advance Energy - Dagger State Com 608H Plan 2.0 Surface.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	0.00	0.00	0.00	
2	5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	Build 1.00°/100'
3	5420.55	4.21	240.18	5420.17	-7.67	-13.38	1.00	240.18	-7.58	Hold 4.21° Inc, 240.18° Azimuth
4	10894.95	4.21	240.18	10879.83	-207.33	-361.67	0.00	0.00	-204.73	Drop 1.00°/100'
5	11315.50	0.00	0.00	11300.00	-215.00	-375.06	1.00	180.00	-212.31	Hold Vertical
6	11533.04	0.00	0.00	11517.54	-215.00	-375.06	0.00	0.00	-212.31	KOP, Build 12.00°/100'
7	12283.04	90.00	359.18	11995.00	262.42	-381.89	12.00	359.18	265.14	LP, Hold 90.00° Inc, 359.18° Azimuth
8	12286.24	90.00	359.18	11995.00	265.62	-381.94	0.00	0.00	268.35	Build 2.00°/100'
9	12363.96	91.50	359.59	11993.99	343.33	-382.77	2.00	15.29	346.06	Hold 91.50° Inc, 359.59° Azimuth
10	14083.47	91.50	359.59	11949.00	2062.20	-395.07	0.00	0.00	2064.97	Drop 2.00°/100'
11	14137.58	90.42	359.59	11948.09	2116.30	-395.46	2.00	180.00	2119.08	Hold 90.42° Inc, 359.59° Azimuth
12	15936.37	90.42	359.59	11935.00	3915.00	-408.33	0.00	0.00	3917.82	Build 2.00°/100'
13	15955.94	90.81	359.59	11934.79	3934.57	-408.47	2.00	0.00	3937.40	Hold 90.81° Inc, 359.59° Azimuth
14	18917.74	90.81	359.59	11893.00	6896.00	-429.66	0.00	0.00	6898.90	Build 2.00°/100'
15	18963.19	91.72	359.59	11892.00	6941.43	-429.99	2.00	0.00	6944.33	Hold 91.72° Inc, 359.59° Azimuth
				11858.00	8075.30	-438.10	0.00	0.00	8078.23	PBHL

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well #608H - Slot 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Lateral 1r1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	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 608H			
Site Position:		Northing:	527,878.00 usft	Latitude:	32° 26' 57.001 N
From:	Map	Easting:	762,139.30 usft	Longitude:	103° 37' 3.139 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	#608H - Slot 608H					
Well Position	+N/-S	0.00 usft	Northing:	527,878.00 usft	Latitude:	32° 26' 57.001 N
	+E/-W	0.00 usft	Easting:	762,139.30 usft	Longitude:	103° 37' 3.139 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,816.00 usft

Wellbore	Lateral 1r1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	8/3/2021	6.44	60.17	47,888.03893226

Design	Plan 2.0				
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	359.59	

Survey Tool Program	Date	8/3/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,097.59	Plan 2.0 (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 (°/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	
FTP (Dagger608H)										
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well #608H - Slot 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Lateral 1r1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	Database:	EDM 5000.1 Aim Database

Planned 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)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1.00°/100'									
5,100.00	1.00	240.18	5,100.00	-0.43	-0.76	-0.43	1.00	1.00	0.00

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well #608H - Slot 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Lateral 1r1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	Database:	EDM 5000.1 Aim Database

Planned 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)
5,200.00	2.00	240.18	5,199.96	-1.74	-3.03	-1.71	1.00	1.00	0.00
5,300.00	3.00	240.18	5,299.86	-3.91	-6.81	-3.86	1.00	1.00	0.00
5,400.00	4.00	240.18	5,399.68	-6.94	-12.11	-6.85	1.00	1.00	0.00
5,420.55	4.21	240.18	5,420.17	-7.67	-13.38	-7.58	1.00	1.00	0.00
Hold 4.21° Inc, 240.18° Azimuth									
5,500.00	4.21	240.18	5,499.41	-10.57	-18.44	-10.44	0.00	0.00	0.00
5,600.00	4.21	240.18	5,599.14	-14.22	-24.80	-14.04	0.00	0.00	0.00
5,700.00	4.21	240.18	5,698.87	-17.86	-31.16	-17.64	0.00	0.00	0.00
5,800.00	4.21	240.18	5,798.60	-21.51	-37.53	-21.24	0.00	0.00	0.00
5,900.00	4.21	240.18	5,898.33	-25.16	-43.89	-24.84	0.00	0.00	0.00
6,000.00	4.21	240.18	5,998.06	-28.81	-50.25	-28.45	0.00	0.00	0.00
6,100.00	4.21	240.18	6,097.79	-32.45	-56.61	-32.05	0.00	0.00	0.00
6,200.00	4.21	240.18	6,197.52	-36.10	-62.97	-35.65	0.00	0.00	0.00
6,300.00	4.21	240.18	6,297.25	-39.75	-69.34	-39.25	0.00	0.00	0.00
6,400.00	4.21	240.18	6,396.99	-43.39	-75.70	-42.85	0.00	0.00	0.00
6,500.00	4.21	240.18	6,496.72	-47.04	-82.06	-46.45	0.00	0.00	0.00
6,600.00	4.21	240.18	6,596.45	-50.69	-88.42	-50.05	0.00	0.00	0.00
6,700.00	4.21	240.18	6,696.18	-54.33	-94.78	-53.66	0.00	0.00	0.00
6,800.00	4.21	240.18	6,795.91	-57.98	-101.15	-57.26	0.00	0.00	0.00
6,900.00	4.21	240.18	6,895.64	-61.63	-107.51	-60.86	0.00	0.00	0.00
7,000.00	4.21	240.18	6,995.37	-65.28	-113.87	-64.46	0.00	0.00	0.00
7,100.00	4.21	240.18	7,095.10	-68.92	-120.23	-68.06	0.00	0.00	0.00
7,200.00	4.21	240.18	7,194.83	-72.57	-126.60	-71.66	0.00	0.00	0.00
7,300.00	4.21	240.18	7,294.56	-76.22	-132.96	-75.26	0.00	0.00	0.00
7,400.00	4.21	240.18	7,394.29	-79.86	-139.32	-78.87	0.00	0.00	0.00
7,500.00	4.21	240.18	7,494.02	-83.51	-145.68	-82.47	0.00	0.00	0.00
7,600.00	4.21	240.18	7,593.75	-87.16	-152.04	-86.07	0.00	0.00	0.00
7,700.00	4.21	240.18	7,693.49	-90.81	-158.41	-89.67	0.00	0.00	0.00
7,800.00	4.21	240.18	7,793.22	-94.45	-164.77	-93.27	0.00	0.00	0.00
7,900.00	4.21	240.18	7,892.95	-98.10	-171.13	-96.87	0.00	0.00	0.00
8,000.00	4.21	240.18	7,992.68	-101.75	-177.49	-100.47	0.00	0.00	0.00
8,100.00	4.21	240.18	8,092.41	-105.39	-183.85	-104.08	0.00	0.00	0.00
8,200.00	4.21	240.18	8,192.14	-109.04	-190.22	-107.68	0.00	0.00	0.00
8,300.00	4.21	240.18	8,291.87	-112.69	-196.58	-111.28	0.00	0.00	0.00
8,400.00	4.21	240.18	8,391.60	-116.34	-202.94	-114.88	0.00	0.00	0.00
8,500.00	4.21	240.18	8,491.33	-119.98	-209.30	-118.48	0.00	0.00	0.00
8,600.00	4.21	240.18	8,591.06	-123.63	-215.67	-122.08	0.00	0.00	0.00
8,700.00	4.21	240.18	8,690.79	-127.28	-222.03	-125.68	0.00	0.00	0.00
8,800.00	4.21	240.18	8,790.52	-130.92	-228.39	-129.29	0.00	0.00	0.00
8,900.00	4.21	240.18	8,890.25	-134.57	-234.75	-132.89	0.00	0.00	0.00
9,000.00	4.21	240.18	8,989.98	-138.22	-241.11	-136.49	0.00	0.00	0.00
9,100.00	4.21	240.18	9,089.72	-141.86	-247.48	-140.09	0.00	0.00	0.00
9,200.00	4.21	240.18	9,189.45	-145.51	-253.84	-143.69	0.00	0.00	0.00
9,300.00	4.21	240.18	9,289.18	-149.16	-260.20	-147.29	0.00	0.00	0.00

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well #608H - Slot 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Lateral 1r1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	Database:	EDM 5000.1 Aim Database

Planned 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)
9,400.00	4.21	240.18	9,388.91	-152.81	-266.56	-150.89	0.00	0.00	0.00
9,500.00	4.21	240.18	9,488.64	-156.45	-272.92	-154.50	0.00	0.00	0.00
9,600.00	4.21	240.18	9,588.37	-160.10	-279.29	-158.10	0.00	0.00	0.00
9,700.00	4.21	240.18	9,688.10	-163.75	-285.65	-161.70	0.00	0.00	0.00
9,800.00	4.21	240.18	9,787.83	-167.39	-292.01	-165.30	0.00	0.00	0.00
9,900.00	4.21	240.18	9,887.56	-171.04	-298.37	-168.90	0.00	0.00	0.00
10,000.00	4.21	240.18	9,987.29	-174.69	-304.74	-172.50	0.00	0.00	0.00
10,100.00	4.21	240.18	10,087.02	-178.34	-311.10	-176.10	0.00	0.00	0.00
10,200.00	4.21	240.18	10,186.75	-181.98	-317.46	-179.71	0.00	0.00	0.00
10,300.00	4.21	240.18	10,286.48	-185.63	-323.82	-183.31	0.00	0.00	0.00
10,400.00	4.21	240.18	10,386.22	-189.28	-330.18	-186.91	0.00	0.00	0.00
10,500.00	4.21	240.18	10,485.95	-192.92	-336.55	-190.51	0.00	0.00	0.00
10,600.00	4.21	240.18	10,585.68	-196.57	-342.91	-194.11	0.00	0.00	0.00
10,700.00	4.21	240.18	10,685.41	-200.22	-349.27	-197.71	0.00	0.00	0.00
10,800.00	4.21	240.18	10,785.14	-203.86	-355.63	-201.31	0.00	0.00	0.00
10,894.95	4.21	240.18	10,879.83	-207.33	-361.67	-204.73	0.00	0.00	0.00
Drop 1.00°/100'									
10,900.00	4.15	240.18	10,884.87	-207.51	-361.99	-204.92	1.00	-1.00	0.00
11,000.00	3.15	240.18	10,984.66	-210.68	-367.52	-208.05	1.00	-1.00	0.00
11,100.00	2.15	240.18	11,084.56	-212.98	-371.54	-210.32	1.00	-1.00	0.00
11,200.00	1.15	240.18	11,184.51	-214.42	-374.05	-211.74	1.00	-1.00	0.00
11,300.00	0.15	240.18	11,284.51	-214.99	-375.04	-212.30	1.00	-1.00	0.00
11,315.50	0.00	0.00	11,300.01	-215.00	-375.06	-212.31	1.00	-1.00	0.00
Hold Vertical									
11,400.00	0.00	0.00	11,384.51	-215.00	-375.06	-212.31	0.00	0.00	0.00
11,500.00	0.00	0.00	11,484.51	-215.00	-375.06	-212.31	0.00	0.00	0.00
11,533.04	0.00	0.00	11,517.55	-215.00	-375.06	-212.31	0.00	0.00	0.00
KOP, Build 12.00°/100'									
11,550.00	2.04	359.18	11,534.50	-214.70	-375.06	-212.01	12.00	12.00	0.00
11,575.00	5.04	359.18	11,559.45	-213.16	-375.08	-210.47	12.00	12.00	0.00
11,600.00	8.04	359.18	11,584.29	-210.31	-375.12	-207.62	12.00	12.00	0.00
11,625.00	11.04	359.18	11,608.94	-206.17	-375.18	-203.48	12.00	12.00	0.00
11,650.00	14.04	359.18	11,633.34	-200.75	-375.26	-198.06	12.00	12.00	0.00
11,675.00	17.04	359.18	11,657.42	-194.05	-375.36	-191.36	12.00	12.00	0.00
11,700.00	20.04	359.18	11,681.12	-186.11	-375.47	-183.41	12.00	12.00	0.00
11,725.00	23.04	359.18	11,704.38	-176.93	-375.60	-174.24	12.00	12.00	0.00
11,750.00	26.04	359.18	11,727.12	-166.55	-375.75	-163.86	12.00	12.00	0.00
11,775.00	29.04	359.18	11,749.28	-155.00	-375.92	-152.30	12.00	12.00	0.00
11,800.00	32.04	359.18	11,770.81	-142.30	-376.10	-139.60	12.00	12.00	0.00
11,825.00	35.04	359.18	11,791.65	-128.49	-376.30	-125.79	12.00	12.00	0.00
11,850.00	38.04	359.18	11,811.73	-113.61	-376.51	-110.91	12.00	12.00	0.00
11,875.00	41.04	359.18	11,831.01	-97.70	-376.74	-95.00	12.00	12.00	0.00
11,900.00	44.04	359.18	11,849.43	-80.80	-376.98	-78.10	12.00	12.00	0.00

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well #608H - Slot 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Lateral 1r1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	Database:	EDM 5000.1 Aim Database

Planned 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)	
11,925.00	47.04	359.18	11,866.94	-62.96	-377.23	-60.26	12.00	12.00	0.00	
11,950.00	50.04	359.18	11,883.49	-44.23	-377.50	-41.53	12.00	12.00	0.00	
11,975.00	53.04	359.18	11,899.04	-24.66	-377.78	-21.96	12.00	12.00	0.00	
12,000.00	56.04	359.18	11,913.54	-4.30	-378.07	-1.60	12.00	12.00	0.00	
12,025.00	59.04	359.18	11,926.96	16.78	-378.37	19.49	12.00	12.00	0.00	
12,050.00	62.04	359.18	11,939.26	38.55	-378.69	41.25	12.00	12.00	0.00	
12,075.00	65.04	359.18	11,950.40	60.92	-379.01	63.63	12.00	12.00	0.00	
12,100.00	68.04	359.18	11,960.35	83.85	-379.33	86.56	12.00	12.00	0.00	
12,125.00	71.04	359.18	11,969.09	107.27	-379.67	109.98	12.00	12.00	0.00	
12,150.00	74.04	359.18	11,976.59	131.11	-380.01	133.82	12.00	12.00	0.00	
12,175.00	77.04	359.18	11,982.83	155.31	-380.36	158.03	12.00	12.00	0.00	
12,200.00	80.04	359.18	11,987.80	179.81	-380.71	182.53	12.00	12.00	0.00	
12,225.00	83.04	359.18	11,991.48	204.53	-381.06	207.25	12.00	12.00	0.00	
12,250.00	86.04	359.18	11,993.86	229.41	-381.42	232.13	12.00	12.00	0.00	
12,275.00	89.04	359.18	11,994.94	254.38	-381.78	257.11	12.00	12.00	0.00	
12,283.04	90.00	359.18	11,995.01	262.42	-381.89	265.15	11.99	11.99	0.00	
LP, Hold 90.00° Inc, 359.18° Azimuth										
12,286.24	90.00	359.18	11,995.01	265.62	-381.94	268.35	0.00	0.00	0.00	
Build 2.00°/100'										
12,300.00	90.27	359.25	11,994.97	279.38	-382.12	282.11	2.00	1.93	0.53	
12,363.96	91.50	359.59	11,993.99	343.33	-382.77	346.06	2.00	1.93	0.53	
Hold 91.50° Inc, 359.59° Azimuth										
12,400.00	91.50	359.59	11,993.05	379.35	-383.03	382.08	0.00	0.00	0.00	
12,500.00	91.50	359.59	11,990.43	479.32	-383.74	482.05	0.00	0.00	0.00	
12,600.00	91.50	359.59	11,987.81	579.28	-384.46	582.02	0.00	0.00	0.00	
12,700.00	91.50	359.59	11,985.20	679.24	-385.17	681.98	0.00	0.00	0.00	
12,800.00	91.50	359.59	11,982.58	779.21	-385.89	781.95	0.00	0.00	0.00	
12,900.00	91.50	359.59	11,979.96	879.17	-386.60	881.91	0.00	0.00	0.00	
13,000.00	91.50	359.59	11,977.35	979.13	-387.32	981.88	0.00	0.00	0.00	
13,100.00	91.50	359.59	11,974.73	1,079.10	-388.04	1,081.85	0.00	0.00	0.00	
13,200.00	91.50	359.59	11,972.11	1,179.06	-388.75	1,181.81	0.00	0.00	0.00	
13,300.00	91.50	359.59	11,969.50	1,279.02	-389.47	1,281.78	0.00	0.00	0.00	
13,400.00	91.50	359.59	11,966.88	1,378.99	-390.18	1,381.74	0.00	0.00	0.00	
13,500.00	91.50	359.59	11,964.26	1,478.95	-390.90	1,481.71	0.00	0.00	0.00	
13,600.00	91.50	359.59	11,961.65	1,578.91	-391.61	1,581.67	0.00	0.00	0.00	
13,700.00	91.50	359.59	11,959.03	1,678.88	-392.33	1,681.64	0.00	0.00	0.00	
13,800.00	91.50	359.59	11,956.41	1,778.84	-393.04	1,781.61	0.00	0.00	0.00	
13,900.00	91.50	359.59	11,953.80	1,878.80	-393.76	1,881.57	0.00	0.00	0.00	
14,000.00	91.50	359.59	11,951.18	1,978.77	-394.47	1,981.54	0.00	0.00	0.00	
14,083.47	91.50	359.59	11,949.00	2,062.20	-395.07	2,064.97	0.00	0.00	0.00	
Drop 2.00°/100' - WP1 r1 (Dagger608H)										
14,100.00	91.17	359.59	11,948.61	2,078.73	-395.19	2,081.50	2.00	-2.00	0.00	
14,137.58	90.42	359.59	11,948.09	2,116.30	-395.46	2,119.08	2.00	-2.00	0.00	
Hold 90.42° Inc, 359.59° Azimuth										
14,200.00	90.42	359.59	11,947.64	2,178.72	-395.90	2,181.50	0.00	0.00	0.00	

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well #608H - Slot 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Lateral 1r1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	Database:	EDM 5000.1 Aim Database

Planned 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)
14,300.00	90.42	359.59	11,946.91	2,278.72	-396.62	2,281.50	0.00	0.00	0.00
14,400.00	90.42	359.59	11,946.18	2,378.71	-397.34	2,381.49	0.00	0.00	0.00
14,500.00	90.42	359.59	11,945.46	2,478.71	-398.05	2,481.49	0.00	0.00	0.00
14,600.00	90.42	359.59	11,944.73	2,578.70	-398.77	2,581.49	0.00	0.00	0.00
14,700.00	90.42	359.59	11,944.00	2,678.70	-399.48	2,681.49	0.00	0.00	0.00
14,800.00	90.42	359.59	11,943.27	2,778.69	-400.20	2,781.48	0.00	0.00	0.00
14,900.00	90.42	359.59	11,942.54	2,878.68	-400.91	2,881.48	0.00	0.00	0.00
15,000.00	90.42	359.59	11,941.82	2,978.68	-401.63	2,981.48	0.00	0.00	0.00
15,100.00	90.42	359.59	11,941.09	3,078.67	-402.34	3,081.47	0.00	0.00	0.00
15,200.00	90.42	359.59	11,940.36	3,178.67	-403.06	3,181.47	0.00	0.00	0.00
15,300.00	90.42	359.59	11,939.63	3,278.66	-403.78	3,281.47	0.00	0.00	0.00
15,400.00	90.42	359.59	11,938.91	3,378.66	-404.49	3,381.47	0.00	0.00	0.00
15,500.00	90.42	359.59	11,938.18	3,478.65	-405.21	3,481.46	0.00	0.00	0.00
15,600.00	90.42	359.59	11,937.45	3,578.65	-405.92	3,581.46	0.00	0.00	0.00
15,700.00	90.42	359.59	11,936.72	3,678.64	-406.64	3,681.46	0.00	0.00	0.00
15,800.00	90.42	359.59	11,935.99	3,778.64	-407.35	3,781.46	0.00	0.00	0.00
15,900.00	90.42	359.59	11,935.27	3,878.63	-408.07	3,881.45	0.00	0.00	0.00
15,936.37	90.42	359.59	11,935.00	3,915.00	-408.33	3,917.82	0.00	0.00	0.00
Build 2.00°/100' - WP2 r1 (Dagger608H)									
15,955.94	90.81	359.59	11,934.79	3,934.57	-408.47	3,937.39	2.00	2.00	0.00
Hold 90.81° Inc, 359.59° Azimuth									
16,000.00	90.81	359.59	11,934.17	3,978.62	-408.78	3,981.45	0.00	0.00	0.00
16,100.00	90.81	359.59	11,932.76	4,078.61	-409.50	4,081.44	0.00	0.00	0.00
16,200.00	90.81	359.59	11,931.35	4,178.60	-410.22	4,181.43	0.00	0.00	0.00
16,300.00	90.81	359.59	11,929.94	4,278.59	-410.93	4,281.42	0.00	0.00	0.00
16,400.00	90.81	359.59	11,928.53	4,378.57	-411.65	4,381.41	0.00	0.00	0.00
16,500.00	90.81	359.59	11,927.12	4,478.56	-412.36	4,481.40	0.00	0.00	0.00
16,600.00	90.81	359.59	11,925.70	4,578.55	-413.08	4,581.39	0.00	0.00	0.00
16,700.00	90.81	359.59	11,924.29	4,678.54	-413.79	4,681.38	0.00	0.00	0.00
16,800.00	90.81	359.59	11,922.88	4,778.52	-414.51	4,781.37	0.00	0.00	0.00
16,900.00	90.81	359.59	11,921.47	4,878.51	-415.22	4,881.36	0.00	0.00	0.00
17,000.00	90.81	359.59	11,920.06	4,978.50	-415.94	4,981.35	0.00	0.00	0.00
17,100.00	90.81	359.59	11,918.65	5,078.49	-416.65	5,081.34	0.00	0.00	0.00
17,200.00	90.81	359.59	11,917.24	5,178.47	-417.37	5,181.33	0.00	0.00	0.00
17,300.00	90.81	359.59	11,915.83	5,278.46	-418.09	5,281.32	0.00	0.00	0.00
17,400.00	90.81	359.59	11,914.42	5,378.45	-418.80	5,381.31	0.00	0.00	0.00
17,500.00	90.81	359.59	11,913.00	5,478.44	-419.52	5,481.30	0.00	0.00	0.00
17,600.00	90.81	359.59	11,911.59	5,578.42	-420.23	5,581.29	0.00	0.00	0.00
17,700.00	90.81	359.59	11,910.18	5,678.41	-420.95	5,681.28	0.00	0.00	0.00
17,800.00	90.81	359.59	11,908.77	5,778.40	-421.66	5,781.27	0.00	0.00	0.00
17,900.00	90.81	359.59	11,907.36	5,878.39	-422.38	5,881.26	0.00	0.00	0.00
18,000.00	90.81	359.59	11,905.95	5,978.37	-423.09	5,981.25	0.00	0.00	0.00
18,100.00	90.81	359.59	11,904.54	6,078.36	-423.81	6,081.24	0.00	0.00	0.00

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well #608H - Slot 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Lateral 1r1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	Database:	EDM 5000.1 Aim Database

Planned 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)
18,200.00	90.81	359.59	11,903.13	6,178.35	-424.53	6,181.23	0.00	0.00	0.00
18,300.00	90.81	359.59	11,901.72	6,278.34	-425.24	6,281.22	0.00	0.00	0.00
18,400.00	90.81	359.59	11,900.31	6,378.32	-425.96	6,381.21	0.00	0.00	0.00
18,500.00	90.81	359.59	11,898.89	6,478.31	-426.67	6,481.20	0.00	0.00	0.00
18,600.00	90.81	359.59	11,897.48	6,578.30	-427.39	6,581.19	0.00	0.00	0.00
18,700.00	90.81	359.59	11,896.07	6,678.29	-428.10	6,681.18	0.00	0.00	0.00
18,800.00	90.81	359.59	11,894.66	6,778.27	-428.82	6,781.17	0.00	0.00	0.00
18,900.00	90.81	359.59	11,893.25	6,878.26	-429.53	6,881.16	0.00	0.00	0.00
18,917.74	90.81	359.59	11,893.00	6,896.00	-429.66	6,898.90	0.00	0.00	0.00
Build 2.00°/100' - WP3 r1 (Dagger608H)									
18,963.19	91.72	359.59	11,892.00	6,941.44	-429.99	6,944.34	2.00	2.00	0.00
Hold 91.72° Inc, 359.59° Azimuth									
19,000.00	91.72	359.59	11,890.89	6,978.23	-430.25	6,981.13	0.00	0.00	0.00
19,100.00	91.72	359.59	11,887.90	7,078.18	-430.96	7,081.08	0.00	0.00	0.00
19,200.00	91.72	359.59	11,884.90	7,178.13	-431.68	7,181.04	0.00	0.00	0.00
19,300.00	91.72	359.59	11,881.90	7,278.09	-432.40	7,280.99	0.00	0.00	0.00
19,400.00	91.72	359.59	11,878.91	7,378.04	-433.11	7,380.95	0.00	0.00	0.00
19,500.00	91.72	359.59	11,875.91	7,477.99	-433.83	7,480.90	0.00	0.00	0.00
19,600.00	91.72	359.59	11,872.91	7,577.94	-434.54	7,580.86	0.00	0.00	0.00
19,700.00	91.72	359.59	11,869.92	7,677.90	-435.26	7,680.81	0.00	0.00	0.00
19,800.00	91.72	359.59	11,866.92	7,777.85	-435.97	7,780.77	0.00	0.00	0.00
19,900.00	91.72	359.59	11,863.92	7,877.80	-436.69	7,880.72	0.00	0.00	0.00
20,000.00	91.72	359.59	11,860.93	7,977.75	-437.40	7,980.68	0.00	0.00	0.00
20,097.59	91.72	359.59	11,858.00	8,075.30	-438.10	8,078.23	0.00	0.00	0.00
PBHL - PBHL r1 (Dagger608H)									

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	
FTP (Dagger608H) - plan misses target center by 464.93usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	265.60	-381.60	528,143.60	761,757.70	32° 26' 59.655 N	103° 37' 7.571 W	
PBHL r1 (Dagger608H) - plan hits target center - Point	0.00	0.00	11,858.00	8,075.30	-438.10	535,953.30	761,701.20	32° 28' 16.935 N	103° 37' 7.620 W	
WP3 r1 (Dagger608H) - plan hits target center - Point	0.00	0.00	11,893.00	6,896.00	-429.66	534,774.00	761,709.64	32° 28' 5.265 N	103° 37' 7.614 W	
WP2 r1 (Dagger608H) - plan hits target center - Point	0.00	0.00	11,935.00	3,915.00	-408.33	531,793.00	761,730.97	32° 27' 35.767 N	103° 37' 7.598 W	
WP1 r1 (Dagger608H) - plan hits target center - Point	0.00	0.00	11,949.00	2,062.20	-395.07	529,940.20	761,744.23	32° 27' 17.433 N	103° 37' 7.588 W	

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Well #608H - Slot 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Lateral 1r1	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	Database:	EDM 5000.1 Aim Database

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5000	5000	0	0	Build 1.00°/100'
5421	5420	-8	-13	Hold 4.21° Inc, 240.18° Azimuth
10,895	10,880	-207	-362	Drop 1.00°/100'
11,316	11,300	-215	-375	Hold Vertical
11,533	11,518	-215	-375	KOP, Build 12.00°/100'
12,283	11,995	262	-382	LP, Hold 90.00° Inc, 359.18° Azimuth
12,286	11,995	266	-382	Build 2.00°/100'
12,364	11,994	343	-383	Hold 91.50° Inc, 359.59° Azimuth
14,083	11,949	2062	-395	Drop 2.00°/100'
14,138	11,948	2116	-395	Hold 90.42° Inc, 359.59° Azimuth
15,936	11,935	3915	-408	Build 2.00°/100'
15,956	11,935	3935	-408	Hold 90.81° Inc, 359.59° Azimuth
18,918	11,893	6896	-430	Build 2.00°/100'
18,963	11,892	6941	-430	Hold 91.72° Inc, 359.59° Azimuth
20,098	11,858	8075	-438	PBHL

Advance Energy Partners, LLC

Dagger State Com 608H
Lea County, New Mexico
Job No. WT-21-066
Nabors X50
Plan 2.0 PVA



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

Magnetic Field
Strength: 47888.0nT
Dip Angle: 60.17°
Date: 8/3/2021
Model: MVHD

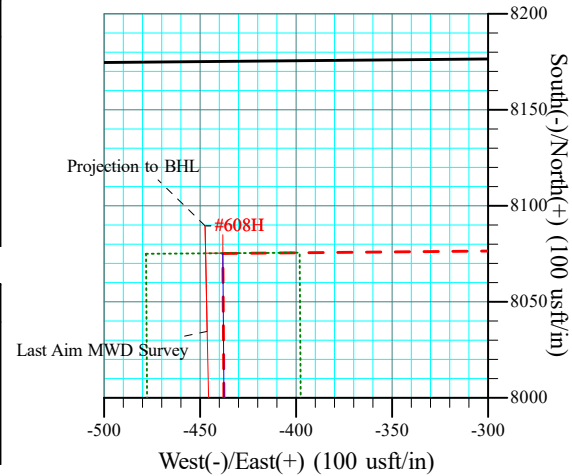
Magnetic North: 6.06° to Grid North

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:
3816'GL+32.5'KB @ 3848.50usft (Nabors X50)

SITE DETAILS: Dagger State Com 608H

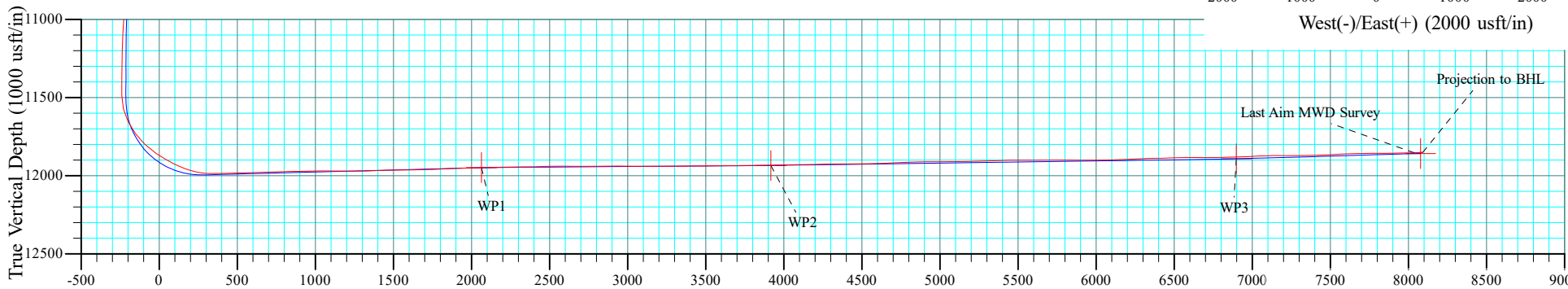
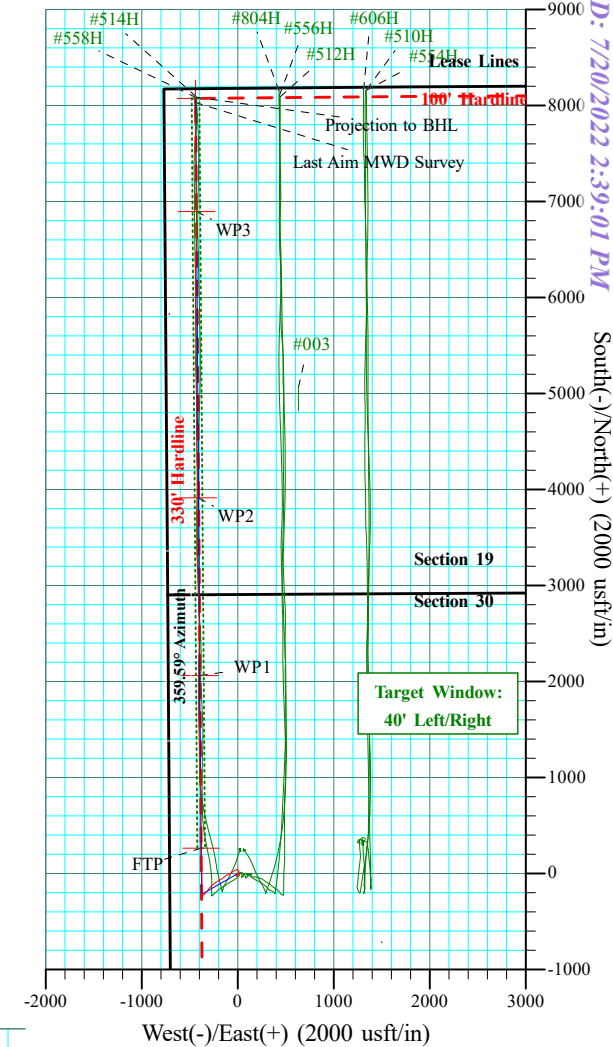
Site Centre Northing: 527878.00
Easting: 762139.30

Positional Uncertainty: 0.00
Convergence: 0.38
Local North: Grid



SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation	
1	20049.00	91.91	358.85	11853.01	8034.70	-446.23	0.000	0.00	8037.68	Last Aim MWD Survey	
2	20104.00	91.91	358.85	11851.18	8089.65	-447.33	0.000	0.00	8092.65	Projection to BHL	

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
FTP (Dagger608H)	0.00	265.60	-381.60	528143.60	761757.70	32° 26' 59.655 N	103° 37' 7.571 W		
PBHL r1 (Dagger608H)	11858.00	8075.30	-438.10	535953.30	761701.20	32° 28' 16.935 N	103° 37' 7.620 W		
WP1 r1 (Dagger608H)	11949.00	2062.20	-395.07	529940.20	761744.23	32° 27' 17.433 N	103° 37' 7.588 W		
WP2 r1 (Dagger608H)	11935.00	3915.00	-408.33	531793.00	761730.97	32° 27' 35.767 N	103° 37' 7.598 W		
WP3 r1 (Dagger608H)	11893.00	6896.00	-429.66	534774.00	761709.64	32° 28' 5.265 N	103° 37' 7.614 W		



Vertical Section at 359.59° (1000 usft/in)*Note - Aim is not responsible for any collision issues against unknown offset wells.



Survey Reports

Dagger State Com 608H (WT-21-066)

2021-05-26 to 2021-08-12

Lea, New Mexico, US (32.45, 103.62)



Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	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 608H		
Site Position:		Northing:	527,878.00 usft
From:	Map	Easting:	762,139.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 26' 57.001 N
		Longitude:	103° 37' 3.139 W
		Grid Convergence:	0.38 °

Well	#608H - Slot 608H		
Well Position	+N/-S	0.00 usft	Northing: 527,878.00 usft
	+E/-W	0.00 usft	Easting: 762,139.30 usft
Position Uncertainty	0.00 usft		Wellhead Elevation: usft
			Latitude: 32° 26' 57.001 N
			Longitude: 103° 37' 3.139 W
			Ground Level: 3,816.00 usft

Wellbore	Aim MWD Surveys				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	6/1/2021	6.46	60.18	47,906.249

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	359.59	

Survey Program	Date	8/10/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
232.00	20,104.00	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 (°/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	
232.00	0.75	186.96	231.99	-1.51	-0.18	-1.51	0.323	0.323	0.000	
First Aim MWD Survey										
419.00	0.70	129.04	418.98	-3.44	0.55	-3.45	0.376	-0.027	-30.973	
512.00	0.92	123.94	511.97	-4.22	1.62	-4.23	0.249	0.237	-5.484	
605.00	0.57	139.76	604.96	-4.99	2.53	-5.00	0.433	-0.376	17.011	
699.00	0.53	125.17	698.96	-5.59	3.19	-5.62	0.154	-0.043	-15.521	
792.00	0.62	146.18	791.95	-6.26	3.82	-6.29	0.245	0.097	22.591	
979.00	0.97	181.25	978.94	-8.68	4.35	-8.71	0.312	0.187	18.754	
1,072.00	1.05	200.41	1,071.92	-10.27	4.04	-10.30	0.371	0.086	20.602	
1,165.00	1.19	191.00	1,164.91	-12.01	3.56	-12.04	0.248	0.151	-10.118	



Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDMRESTORED

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)
1,259.00	1.71	203.31	1,258.88	-14.26	2.81	-14.28	0.642	0.553	13.096
1,348.00	1.71	211.13	1,347.84	-16.62	1.60	-16.63	0.262	0.000	8.786
1,438.00	2.02	205.15	1,437.79	-19.20	0.23	-19.20	0.406	0.344	-6.644
1,511.00	2.33	210.95	1,510.74	-21.64	-1.08	-21.63	0.520	0.425	7.945
1,618.00	2.29	214.21	1,617.65	-25.27	-3.40	-25.25	0.128	-0.037	3.047
1,707.00	1.45	244.00	1,706.60	-27.24	-5.41	-27.20	1.414	-0.944	33.472
1,797.00	1.32	286.36	1,796.58	-27.44	-7.43	-27.39	1.120	-0.144	47.067
1,886.00	1.32	283.73	1,885.55	-26.91	-9.41	-26.84	0.068	0.000	-2.955
1,976.00	1.14	283.99	1,975.53	-26.45	-11.28	-26.37	0.200	-0.200	0.289
2,065.00	1.14	283.73	2,064.52	-26.03	-13.00	-25.93	0.006	0.000	-0.292
2,155.00	1.05	283.90	2,154.50	-25.61	-14.67	-25.51	0.100	-0.100	0.189
2,244.00	0.97	291.11	2,243.49	-25.15	-16.17	-25.03	0.169	-0.090	8.101
2,334.00	0.84	290.23	2,333.47	-24.65	-17.49	-24.52	0.145	-0.144	-0.978
2,423.00	0.70	313.08	2,422.47	-24.05	-18.50	-23.92	0.376	-0.157	25.674
2,513.00	0.79	327.67	2,512.46	-23.15	-19.24	-23.01	0.232	0.100	16.211
2,602.00	0.70	350.35	2,601.45	-22.09	-19.66	-21.95	0.344	-0.101	25.483
2,691.00	0.97	21.29	2,690.44	-20.86	-19.47	-20.72	0.580	0.303	34.764
2,781.00	1.45	43.43	2,780.42	-19.32	-18.41	-19.19	0.735	0.533	24.600
2,960.00	2.51	72.53	2,959.32	-16.50	-13.12	-16.40	0.798	0.592	16.257
3,049.00	2.42	68.39	3,048.24	-15.22	-9.51	-15.15	0.224	-0.101	-4.652
3,139.00	2.51	56.27	3,138.15	-13.43	-6.11	-13.38	0.587	0.100	-13.467
3,228.00	1.14	35.52	3,227.11	-11.62	-3.97	-11.60	1.685	-1.539	-23.315
3,318.00	0.40	1.51	3,317.10	-10.58	-3.44	-10.56	0.932	-0.822	-37.789
3,497.00	0.53	106.10	3,496.09	-10.19	-2.63	-10.17	0.413	0.073	58.430
3,676.00	0.26	114.36	3,675.09	-10.58	-1.47	-10.57	0.154	-0.151	4.615
3,855.00	0.18	71.73	3,854.09	-10.66	-0.83	-10.66	0.099	-0.045	-23.816
3,944.00	0.31	72.96	3,943.09	-10.55	-0.47	-10.54	0.146	0.146	1.382
4,123.00	0.48	27.96	4,122.08	-9.74	0.35	-9.75	0.190	0.095	-25.140
4,302.00	0.75	50.99	4,301.07	-8.34	1.61	-8.36	0.202	0.151	12.866
4,392.00	0.66	29.37	4,391.07	-7.52	2.32	-7.54	0.310	-0.100	-24.022
4,482.00	1.27	35.52	4,481.05	-6.26	3.16	-6.28	0.687	0.678	6.833
4,572.00	1.63	40.27	4,571.03	-4.47	4.56	-4.50	0.421	0.400	5.278
4,661.00	1.41	26.73	4,659.99	-2.53	5.87	-2.57	0.472	-0.247	-15.213
4,751.00	1.41	22.16	4,749.97	-0.51	6.79	-0.56	0.125	0.000	-5.078
4,840.00	1.49	22.60	4,838.94	1.57	7.65	1.52	0.091	0.090	0.494
5,019.00	1.49	21.37	5,017.88	5.89	9.39	5.82	0.018	0.000	-0.687
5,109.00	1.49	21.29	5,107.85	8.07	10.24	7.99	0.002	0.000	-0.089
5,198.00	1.41	24.19	5,196.82	10.14	11.11	10.06	0.122	-0.090	3.258
5,288.00	1.23	20.41	5,286.80	12.06	11.90	11.97	0.222	-0.200	-4.200
5,377.00	1.10	26.12	5,375.78	13.72	12.61	13.63	0.196	-0.146	6.416
5,445.00	1.23	29.11	5,443.76	14.94	13.25	14.85	0.211	0.191	4.397
5,553.00	2.11	20.65	5,551.72	17.82	14.52	17.71	0.844	0.815	-7.833
5,642.00	5.41	328.27	5,640.53	22.92	12.89	22.83	4.997	3.708	-58.854



Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDMRESTORED

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)	
5,732.00	6.55	324.58	5,730.04	30.71	7.68	30.66	1.336	1.267	-4.100	
5,822.00	5.80	313.59	5,819.52	38.03	1.41	38.02	1.552	-0.833	-12.211	
5,912.00	5.23	281.25	5,909.13	41.97	-5.91	42.01	3.462	-0.633	-35.933	
6,001.00	6.46	249.08	5,997.68	40.97	-14.57	41.08	3.869	1.382	-36.146	
6,091.00	6.90	239.32	6,087.08	36.41	-23.94	36.58	1.351	0.489	-10.844	
6,180.00	5.41	240.73	6,175.56	31.63	-32.20	31.86	1.683	-1.674	1.584	
6,270.00	4.92	239.76	6,265.20	27.61	-39.24	27.89	0.553	-0.544	-1.078	
6,359.00	5.23	238.97	6,353.85	23.60	-46.01	23.93	0.357	0.348	-0.888	
6,449.00	5.27	236.77	6,443.47	19.22	-52.98	19.60	0.228	0.044	-2.444	
6,539.00	5.27	232.73	6,533.09	14.45	-59.73	14.88	0.412	0.000	-4.489	
6,629.00	5.32	230.36	6,622.70	9.28	-66.23	9.76	0.249	0.056	-2.633	
6,718.00	5.45	229.30	6,711.31	3.90	-72.61	4.42	0.184	0.146	-1.191	
6,808.00	6.46	241.08	6,800.83	-1.34	-80.29	-0.77	1.756	1.122	13.089	
6,897.00	7.34	247.94	6,889.18	-5.90	-89.94	-5.25	1.353	0.989	7.708	
6,986.00	7.47	245.65	6,977.44	-10.42	-100.48	-9.70	0.362	0.146	-2.573	
7,075.00	7.43	243.28	7,065.69	-15.39	-110.89	-14.60	0.348	-0.045	-2.663	
7,165.00	7.12	237.83	7,154.97	-20.98	-120.81	-20.11	0.840	-0.344	-6.056	
7,255.00	6.90	234.75	7,244.30	-27.07	-129.94	-26.14	0.484	-0.244	-3.422	
7,344.00	6.24	232.64	7,332.71	-33.09	-138.15	-32.10	0.790	-0.742	-2.371	
7,434.00	6.24	231.68	7,422.18	-39.09	-145.88	-38.04	0.116	0.000	-1.067	
7,523.00	6.37	230.97	7,510.64	-45.20	-153.51	-44.10	0.170	0.146	-0.798	
7,613.00	6.42	226.93	7,600.08	-51.78	-161.06	-50.62	0.503	0.056	-4.489	
7,703.00	5.80	239.06	7,689.57	-57.55	-168.64	-56.34	1.587	-0.689	13.478	
7,792.00	5.10	246.53	7,778.17	-61.44	-176.13	-60.18	1.118	-0.787	8.393	
7,882.00	4.35	246.00	7,867.86	-64.42	-182.91	-63.11	0.835	-0.833	-0.589	
7,972.00	4.04	242.49	7,957.62	-67.27	-188.84	-65.92	0.447	-0.344	-3.900	
8,061.00	4.79	239.94	8,046.36	-70.58	-194.84	-69.19	0.871	0.843	-2.865	
8,151.00	4.92	238.53	8,136.03	-74.48	-201.38	-73.04	0.196	0.144	-1.567	
8,240.00	5.05	238.71	8,224.70	-78.51	-207.99	-77.02	0.147	0.146	0.202	
8,330.00	4.53	236.77	8,314.38	-82.51	-214.34	-80.97	0.605	-0.578	-2.156	
8,419.00	4.75	235.37	8,403.09	-86.53	-220.32	-84.95	0.278	0.247	-1.573	
8,509.00	4.62	235.63	8,492.79	-90.69	-226.37	-89.07	0.146	-0.144	0.289	
8,599.00	4.57	235.45	8,582.50	-94.77	-232.32	-93.11	0.058	-0.056	-0.200	
8,688.00	4.66	234.05	8,671.21	-98.91	-238.17	-97.20	0.162	0.101	-1.573	
8,778.00	4.70	232.64	8,760.91	-103.29	-244.06	-101.54	0.135	0.044	-1.567	
8,868.00	4.40	229.48	8,850.63	-107.77	-249.61	-105.98	0.434	-0.333	-3.511	
8,957.00	4.22	224.56	8,939.38	-112.32	-254.50	-110.50	0.462	-0.202	-5.528	
9,047.00	4.97	233.26	9,029.09	-117.01	-259.95	-115.15	1.135	0.833	9.667	
9,136.00	4.22	232.03	9,117.80	-121.34	-265.62	-119.43	0.850	-0.843	-1.382	
9,226.00	2.99	218.67	9,207.62	-125.21	-269.70	-123.27	1.646	-1.367	-14.844	
9,316.00	4.62	227.72	9,297.42	-129.48	-273.85	-127.51	1.925	1.811	10.056	
9,405.00	5.93	223.94	9,386.05	-135.20	-279.69	-133.19	1.522	1.472	-4.247	
9,495.00	5.27	220.69	9,475.62	-141.68	-285.61	-139.63	0.813	-0.733	-3.611	



Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDMRESTORED

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)	
9,585.00	5.14	221.92	9,565.24	-147.81	-291.00	-145.73	0.190	-0.144	1.367	
9,674.00	4.70	223.06	9,653.92	-153.45	-296.15	-151.32	0.506	-0.494	1.281	
9,764.00	4.62	215.42	9,743.62	-159.09	-300.77	-156.94	0.695	-0.089	-8.489	
9,854.00	4.00	215.06	9,833.36	-164.62	-304.68	-162.43	0.690	-0.689	-0.400	
9,943.00	4.26	220.43	9,922.13	-169.67	-308.60	-167.46	0.523	0.292	6.034	
10,033.00	3.78	215.68	10,011.91	-174.63	-312.50	-172.39	0.649	-0.533	-5.278	
10,122.00	3.60	217.61	10,100.73	-179.22	-315.92	-176.96	0.246	-0.202	2.169	
10,212.00	4.44	215.15	10,190.51	-184.31	-319.65	-182.02	0.953	0.933	-2.733	
10,302.00	4.79	217.26	10,280.21	-190.15	-323.93	-187.83	0.432	0.389	2.344	
10,392.00	4.00	223.33	10,369.95	-195.42	-328.36	-193.07	1.017	-0.878	6.744	
10,481.00	2.95	228.51	10,458.78	-199.20	-332.20	-196.82	1.230	-1.180	5.820	
10,571.00	3.87	224.73	10,548.62	-202.89	-336.08	-200.48	1.052	1.022	-4.200	
10,660.00	5.45	226.05	10,637.33	-207.96	-341.23	-205.51	1.779	1.775	1.483	
10,750.00	4.97	229.21	10,726.96	-213.47	-347.26	-210.98	0.621	-0.533	3.511	
10,839.00	4.70	229.74	10,815.64	-218.35	-352.96	-215.82	0.307	-0.303	0.596	
10,929.00	5.41	225.70	10,905.29	-223.69	-358.81	-221.12	0.882	0.789	-4.489	
11,018.00	4.70	220.95	10,993.94	-229.38	-364.21	-226.77	0.925	-0.798	-5.337	
11,108.00	3.16	207.33	11,083.73	-234.37	-367.76	-231.73	1.989	-1.711	-15.133	
11,198.00	2.15	213.48	11,173.63	-237.98	-369.83	-235.33	1.164	-1.122	6.833	
11,287.00	1.80	230.18	11,262.58	-240.27	-371.83	-237.60	0.753	-0.393	18.764	
11,377.00	0.70	224.12	11,352.56	-241.57	-373.29	-238.89	1.229	-1.222	-6.733	
11,451.00	0.44	207.33	11,426.55	-242.14	-373.74	-239.46	0.414	-0.351	-22.689	
11,508.00	0.88	119.79	11,483.55	-242.56	-373.46	-239.88	1.696	0.772	-153.579	
11,597.00	13.32	3.69	11,571.77	-232.62	-372.20	-229.95	15.426	13.977	-130.449	
11,687.00	27.34	0.08	11,655.96	-201.45	-371.50	-198.78	15.633	15.578	-4.011	
11,776.00	36.31	359.20	11,731.50	-154.56	-371.84	-151.90	10.092	10.079	-0.989	
11,866.00	46.64	359.38	11,798.84	-95.04	-372.57	-92.37	11.479	11.478	0.200	
11,956.00	55.65	359.12	11,855.24	-25.04	-373.50	-22.36	10.014	10.011	-0.289	
12,045.00	60.84	357.97	11,902.07	50.59	-375.44	53.27	5.934	5.831	-1.292	
12,135.00	65.76	357.01	11,942.50	130.89	-378.97	133.60	5.549	5.467	-1.067	
12,225.00	76.00	357.27	11,971.94	215.70	-383.20	218.44	11.381	11.378	0.289	
12,314.00	86.07	359.64	11,985.79	303.47	-385.55	306.22	11.615	11.315	2.663	
12,345.00	90.81	0.35	11,986.63	334.45	-385.55	337.20	15.461	15.290	2.290	
12,434.00	92.04	359.82	11,984.42	423.42	-385.42	426.16	1.505	1.382	-0.596	
12,523.00	90.42	0.79	11,982.51	512.39	-384.94	515.13	2.121	-1.820	1.090	
12,613.00	90.99	0.35	11,981.40	602.38	-384.05	605.11	0.800	0.633	-0.489	
12,703.00	92.09	359.73	11,978.98	692.34	-383.98	695.07	1.403	1.222	-0.689	
12,792.00	93.10	359.47	11,974.95	781.25	-384.60	783.98	1.172	1.135	-0.292	
12,882.00	90.64	358.77	11,972.02	871.18	-385.99	873.92	2.842	-2.733	-0.778	
12,971.00	90.90	358.41	11,970.82	960.15	-388.18	962.90	0.499	0.292	-0.404	
13,061.00	89.71	358.24	11,970.34	1,050.11	-390.81	1,052.88	1.336	-1.322	-0.189	
13,151.00	89.58	357.27	11,970.90	1,140.04	-394.33	1,142.83	1.087	-0.144	-1.078	
13,240.00	90.11	359.12	11,971.14	1,228.99	-397.14	1,231.80	2.162	0.596	2.079	
13,330.00	91.16	359.03	11,970.14	1,318.97	-398.59	1,321.79	1.171	1.167	-0.100	



Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDMRESTORED

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)
13,419.00	92.40	358.41	11,967.38	1,407.90	-400.58	1,410.73	1.558	1.393	-0.697
13,509.00	90.68	358.59	11,964.96	1,497.83	-402.93	1,500.68	1.922	-1.911	0.200
13,599.00	90.68	357.97	11,963.89	1,587.79	-405.63	1,590.65	0.689	0.000	-0.689
13,688.00	91.34	0.26	11,962.32	1,676.76	-407.01	1,679.63	2.677	0.742	2.573
13,778.00	92.18	359.82	11,959.56	1,766.71	-406.94	1,769.58	1.054	0.933	-0.489
13,868.00	92.79	358.85	11,955.66	1,856.62	-407.99	1,859.49	1.272	0.678	-1.078
13,957.00	91.60	359.12	11,952.25	1,945.54	-409.56	1,948.42	1.371	-1.337	0.303
14,047.00	91.03	1.67	11,950.18	2,035.51	-408.94	2,038.38	2.903	-0.633	2.833
14,137.00	92.26	1.14	11,947.60	2,125.44	-406.74	2,128.30	1.488	1.367	-0.589
14,227.00	90.20	1.67	11,945.67	2,215.39	-404.53	2,218.22	2.363	-2.289	0.589
14,316.00	90.73	0.96	11,944.94	2,304.36	-402.49	2,307.18	0.995	0.596	-0.798
14,406.00	91.34	0.43	11,943.32	2,394.34	-401.40	2,397.15	0.898	0.678	-0.589
14,496.00	92.22	0.00	11,940.52	2,484.29	-401.06	2,487.10	1.088	0.978	-0.478
14,585.00	89.10	359.64	11,939.50	2,573.27	-401.34	2,576.08	3.529	-3.506	-0.404
14,675.00	89.63	359.56	11,940.49	2,663.27	-401.97	2,666.07	0.596	0.589	-0.089
14,765.00	90.59	357.97	11,940.32	2,753.24	-403.91	2,756.06	2.064	1.067	-1.767
14,854.00	91.03	357.01	11,939.06	2,842.15	-407.80	2,844.99	1.186	0.494	-1.079
14,944.00	89.32	358.50	11,938.79	2,932.07	-411.33	2,934.94	2.520	-1.900	1.656
15,034.00	89.58	359.03	11,939.65	3,022.05	-413.27	3,024.93	0.656	0.289	0.589
15,123.00	89.76	358.41	11,940.17	3,111.02	-415.26	3,113.91	0.725	0.202	-0.697
15,213.00	90.33	357.53	11,940.09	3,200.96	-418.44	3,203.88	1.165	0.633	-0.978
15,303.00	90.95	356.57	11,939.09	3,290.84	-423.07	3,293.78	1.270	0.689	-1.067
15,392.00	89.63	359.56	11,938.64	3,379.77	-426.08	3,382.74	3.672	-1.483	3.360
15,482.00	90.07	0.35	11,938.87	3,469.77	-426.15	3,472.73	1.005	0.489	0.878
15,571.00	90.95	359.73	11,938.08	3,558.77	-426.09	3,561.72	1.210	0.989	-0.697
15,661.00	91.87	359.47	11,935.87	3,648.74	-426.72	3,651.70	1.062	1.022	-0.289
15,750.00	89.98	1.49	11,934.43	3,737.71	-425.97	3,740.67	3.108	-2.124	2.270
15,840.00	90.42	1.58	11,934.12	3,827.68	-423.56	3,830.61	0.499	0.489	0.100
15,930.00	90.95	0.35	11,933.04	3,917.66	-422.04	3,920.58	1.488	0.589	-1.367
16,019.00	91.12	359.82	11,931.43	4,006.64	-421.91	4,009.56	0.625	0.191	-0.596
16,109.00	90.77	359.47	11,929.95	4,096.63	-422.47	4,099.55	0.550	-0.389	-0.389
16,198.00	91.08	358.94	11,928.51	4,185.61	-423.70	4,188.53	0.690	0.348	-0.596
16,287.00	91.47	357.97	11,926.53	4,274.55	-426.10	4,277.49	1.174	0.438	-1.090
16,377.00	90.11	0.26	11,925.29	4,364.53	-427.49	4,367.47	2.959	-1.511	2.544
16,466.00	90.46	359.47	11,924.85	4,453.52	-427.70	4,456.47	0.971	0.393	-0.888
16,556.00	91.03	358.59	11,923.68	4,543.50	-429.23	4,546.46	1.165	0.633	-0.978
16,645.00	92.00	0.79	11,921.32	4,632.46	-429.71	4,635.42	2.701	1.090	2.472
16,735.00	92.26	0.35	11,917.98	4,722.40	-428.81	4,725.34	0.568	0.289	-0.489
16,824.00	92.97	0.08	11,913.92	4,811.30	-428.48	4,814.25	0.853	0.798	-0.303
16,914.00	90.29	359.64	11,911.36	4,901.26	-428.70	4,904.20	3.018	-2.978	-0.489
17,003.00	90.11	359.03	11,911.05	4,990.25	-429.73	4,993.20	0.715	-0.202	-0.685
17,093.00	90.73	358.50	11,910.39	5,080.23	-431.67	5,083.18	0.906	0.689	-0.589
17,183.00	90.95	357.36	11,909.07	5,170.16	-434.92	5,173.14	1.290	0.244	-1.267



Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDMRESTORED

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)	
17,272.00	91.34	359.56	11,907.29	5,259.10	-437.31	5,262.10	2.510	0.438	2.472	
17,362.00	92.62	359.56	11,904.18	5,349.04	-438.00	5,352.04	1.422	1.422	0.000	
17,451.00	90.46	0.52	11,901.79	5,438.00	-437.94	5,441.00	2.656	-2.427	1.079	
17,541.00	90.02	0.87	11,901.41	5,528.00	-436.85	5,530.98	0.625	-0.489	0.389	
17,630.00	90.46	0.08	11,901.04	5,616.99	-436.11	5,619.97	1.016	0.494	-0.888	
17,720.00	90.37	359.12	11,900.39	5,706.99	-436.74	5,709.96	1.071	-0.100	-1.067	
17,810.00	89.36	359.38	11,900.60	5,796.98	-437.92	5,799.96	1.159	-1.122	0.289	
17,899.00	89.54	359.29	11,901.45	5,885.97	-438.95	5,888.96	0.226	0.202	-0.101	
17,989.00	90.33	358.06	11,901.56	5,975.94	-441.03	5,978.94	1.624	0.878	-1.367	
18,078.00	91.30	0.79	11,900.29	6,064.92	-441.93	6,067.92	3.255	1.090	3.067	
18,168.00	92.26	1.49	11,897.49	6,154.85	-440.14	6,157.85	1.320	1.067	0.778	
18,257.00	93.27	0.87	11,893.20	6,243.73	-438.30	6,246.71	1.331	1.135	-0.697	
18,347.00	90.86	1.67	11,889.96	6,333.64	-436.31	6,336.60	2.821	-2.678	0.889	
18,436.00	91.47	1.93	11,888.15	6,422.58	-433.52	6,425.52	0.745	0.685	0.292	
18,525.00	92.53	1.40	11,885.04	6,511.49	-430.93	6,514.40	1.331	1.191	-0.596	
18,615.00	89.36	0.70	11,883.56	6,601.45	-429.28	6,604.35	3.607	-3.522	-0.778	
18,705.00	89.85	0.17	11,884.18	6,691.44	-428.60	6,694.34	0.802	0.544	-0.589	
18,795.00	90.81	359.64	11,883.66	6,781.44	-428.75	6,784.33	1.218	1.067	-0.589	
18,884.00	91.69	359.29	11,881.72	6,870.41	-429.58	6,873.31	1.064	0.989	-0.393	
18,973.00	92.48	359.56	11,878.48	6,959.35	-430.47	6,962.25	0.938	0.888	0.303	
19,063.00	93.41	359.29	11,873.86	7,049.22	-431.37	7,052.13	1.076	1.033	-0.300	
19,152.00	89.58	359.29	11,871.54	7,138.17	-432.48	7,141.08	4.303	-4.303	0.000	
19,242.00	89.67	359.47	11,872.12	7,228.16	-433.45	7,231.08	0.224	0.100	0.200	
19,332.00	90.73	359.12	11,871.81	7,318.15	-434.56	7,321.08	1.240	1.178	-0.389	
19,421.00	91.78	358.94	11,869.86	7,407.12	-436.06	7,410.05	1.197	1.180	-0.202	
19,510.00	92.79	359.03	11,866.31	7,496.03	-437.64	7,498.97	1.139	1.135	0.101	
19,600.00	93.71	359.12	11,861.21	7,585.88	-439.09	7,588.82	1.027	1.022	0.100	
19,689.00	90.11	359.20	11,858.24	7,674.80	-440.39	7,677.76	4.046	-4.045	0.090	
19,779.00	90.29	359.38	11,857.93	7,764.79	-441.51	7,767.75	0.283	0.200	0.200	
19,868.00	90.59	358.85	11,857.25	7,853.78	-442.88	7,856.75	0.684	0.337	-0.596	
19,958.00	91.43	359.03	11,855.66	7,943.75	-444.55	7,946.73	0.955	0.933	0.200	
20,049.00	91.91	358.85	11,853.01	8,034.70	-446.23	8,037.68	0.563	0.527	-0.198	
Last Aim MWD Survey										
20,104.00	91.91	358.85	11,851.18	8,089.65	-447.33	8,092.65	0.000	0.000	0.000	
Projection to BHL										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
232.00	231.99	-1.51	-0.18	First Aim MWD Survey	
20,049.00	11,853.01	8,034.70	-446.23	Last Aim MWD Survey	
20,104.00	11,851.18	8,089.65	-447.33	Projection to BHL	



Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 608H
Project:	Lea County, New Mexico	TVD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Site:	Dagger State Com 608H	MD Reference:	3816'GL+32.5'KB @ 3848.50usft (Nabors X50)
Well:	#608H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDMRESTORED

Checked By: _____ Approved By: _____ Date: _____



BHA Reports

Dagger State Com 608H (WT-21-066)

2021-05-26 to 2021-08-12

Lea, New Mexico, US (32.45, 103.62)



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

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

Motor Details		Date/Depth/Distances	Hours
Size (in)	8.00	Date In	2021-05-29 13:30
Lobe/Stage	7/8, 5.9	Depth In (ft)	120.00
Bend Angle	1.75	Date Out	2021-05-30 10:30
Speed (rev/gal)	0.15	Depth Out (ft)	1592.00
Wear Pad OD (in)	8.313	Distance Slid (ft)	0.00
Incident	No	Distance Rotated (ft)	1472.00
Motor Post Run/Notes		% Distance Sliding	0.00%
Average Total ROP (ft/h)	184.00	% Distance Rotating	100.00%
Average Slide ROP (ft/h)	0.00	BHA Objective	
Average Rotating ROP (ft/h)	184.00	Drill 17.5 Surface	

Notes: N/A	
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Bit Details		POOH Reason/Notes	
OD (in)	17.500		
Vendor	Varel		
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: 6	
Notes:	Chipped / Broken cutters on Shoulder		

MWD	
Max Downhole Temp (°F)	N/A

Mud Properties		Parameters	
Type	Water Based	Flow Rate (gpm)	550.00 - 800.00
WT	9.10	On Bottom Pressure (psi)	1000.00 - 3000.00
VIS	29.00	Off Bottom Pressure (psi)	500.00 - 2500.00
PV	1.00	Stall Pressure (psi)	1330.00
YP	3.00	Stalls	0
		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: VTD619SHX, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.40, Size (in): 17.50	Varel	4012197	6 5/8" Reg Pin			17.500		1.50	1.50
Mud Motor Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9	Butch's	BDT-800-025	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: NM DAO UBHO, 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 WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

BHA #2 - Intermediate 12.25" (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size (in)	8.00	Date In	2021-05-31 10:30	Downhole Hours	35.00
Lobe/Stage	7/8, 5.9	Depth In (ft)	1592.00	Drilling/Circulating Hours	24.00
Bend Angle	1.75	Date Out	2021-06-01 21:30	Drilling Hours	14.25
Speed (rev/gal)	0.15	Depth Out (ft)	5511.00	Circulating Hours	9.75
Wear Pad OD (in)	8.313	Distance Slid (ft)	97.00	Sliding Hours	1.00
Incident	No	Distance Rotated (ft)	3822.00	Rotating Hours	13.25
Motor Post Run/Notes		% Distance Sliding	2.48%	% Hours Sliding	7.02%
Average Total ROP (ft/h)	275.02	% Distance Rotating	97.52%	% Hours Rotating	92.98%
Average Slide ROP (ft/h)	97.00	BHA Objective			
Average Rotating ROP (ft/h)	288.45	Drill 12 1/4 Intermediate			

Notes: N/A	
Bit Details	
OD (in)	12.250
Vendor	REED
Nozzles	6x16's
Total Flow Area (in²)	1.178
Bit Distances	
Bit To Survey (Bit to Survey): 66.00 ft	
Bit Post Run/Notes	
Dull Grading	1-3
Notes: 1/4 " Under Gauge , chipped cutters on shoulder	
MWD	
Max Downhole Temp (°F)	N/A
Mud Properties	
Type	Water Based
WT	10.20
VIS	30.00
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

Parameters

Flow Rate (gpm)	793.00 - 900.00	Motor RPM	60.00 - 140.00
On Bottom Pressure (psi)	2100.00 - 3100.00	Surface RPM	50.00 - 70.00
Off Bottom Pressure (psi)	1504.00 - 2300.00	Rotating WOB (klbs)	52.00 - 60.00
Stall Pressure (psi)	1390.04	Sliding WOB (klbs)	20.00 - 25.00
Stalls	0	Temp (°F)	107.00 - 176.00
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: <i>TKC66</i> , Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in): 0.40, Size (in): 12.25	REED	A270957	6 5/8" Reg Pin			12.250		1.50	1.50
Mud Motor Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9	Butch's	BDT-800-025	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: NM DAO UBHO, 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 WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

BHA #3 - Intermediate 8.75" (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size (in)	7.00	Date In	2021-08-03 00:30	Downhole Hours	49.75
Lobe/Stage	7/8, 8.5	Depth In (ft)	5511.00	Drilling/Circulating Hours	31.17
Bend Angle	1.75	Date Out	2021-08-05 02:15	Drilling Hours	29.33
Speed (rev/gal)	0.26	Depth Out (ft)	11515.00	Circulating Hours	1.83
Wear Pad OD (in)	7.250	Distance Slid (ft)	354.00	Sliding Hours	6.50
Incident	No	Distance Rotated (ft)	5650.00	Rotating Hours	22.83
Motor Post Run/Notes		% Distance Sliding	5.90%	% Hours Sliding	22.16%
Average Total ROP (ft/h)	204.68	% Distance Rotating	94.10%	% Hours Rotating	77.84%
Average Slide ROP (ft/h)	54.46	BHA Objective			
Average Rotating ROP (ft/h)	247.45	Drill 8.75" Intermediate to KOP			
Notes:	N/A				
Bit Details					
OD (in)	8.750				
Vendor	REED	POOH Reason/Notes			
Nozzles	6x16's	Total Depth/Casing Point: MOTOR LOOKED GREAT DRAINED AS EXPECTED			
Total Flow Area (in²)	1.178				
Bit Distances		Incident Notes			
Bit To Survey (Bit to Sensor): 64.00 ft, Gamma (Bit to Gamma): 50.00 ft		Directional: NONE			
		MWD:			
Bit Post Run/Notes		Comments			
Dull Grading	1-2	Directional: Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0			
Notes:					
MWD					
Max Downhole Temp (°F)	N/A				
Mud Properties		Parameters			
Type	Water	Flow Rate (gpm)	700.00 - 700.00	Motor RPM	30.00 - 30.00
WT	9.30	On Bottom Pressure (psi)	2100.00 - 2900.00	Surface RPM	30.00 - 40.00
VIS	29.00	Off Bottom Pressure (psi)	1800.00 - 1950.00	Rotating WOB (klbs)	35.00 - 50.00
PV	2.00	Stall Pressure (psi)	1910.00	Sliding WOB (klbs)	18.00 - 50.00
YP	3.00	Stalls	0	Temp (°F)	90.00 - 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: <i>TK66</i> , Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in): <i>0.00</i> , Size (in): <i>8.75</i>	REED	A281334	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: <i>8" 7/8 8.5 Stg. 1.75° FBH w/ 8 1/2" NBS</i> , Size (in): <i>7.00</i> , Bend Angle (°): <i>1.75</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>8.5</i>	Patriot	CD700021	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.89	35.89
Stabilizer Description: <i>8.5" Stabilizer</i>	JAO	JAO 86901	4 1/2" IF Box	4 1/2" IF Pin	2.250	6.750		5.37	41.26
UBHO Sub Description: <i>NM DAO UBHO</i> , Material: <i>Non-Magnetic</i>	AIM	AIM 675-355	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.625		1.80	43.06
Drill Collar Description: <i>NMDC (MWD Tool)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	73.31
Drill Collar Description: <i>NMDC (Spacer)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	103.57
Crossover Sub Description: <i>X-O SUB</i> , Material: <i>Steel</i>	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	106.57
HWDP Description: <i>13 STANDS HWDP</i> , Type: <i>Slick</i>			EverDrlg54 Box	EverDrlg54 Pin	3.500	5.500		1213.05	1319.62





Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

BHA #4 - 8.75" CURVE (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size (in)	6.50	Date In	2021-08-05 02:15	Downhole Hours	37.58
Lobe/Stage	7/8, 5.0	Depth In (ft)	11515.00	Drilling/Circulating Hours	14.58
Bend Angle	2.25	Date Out	2021-08-06 15:50	Drilling Hours	12.33
Speed (rev/gal)	0.27	Depth Out (ft)	12363.00	Circulating Hours	2.25
Wear Pad OD (in)	7.000	Distance Slid (ft)	530.00	Sliding Hours	8.92
Incident	No	Distance Rotated (ft)	318.00	Rotating Hours	3.42
Motor Post Run/Notes		% Distance Sliding	62.50%	% Hours Sliding	72.30%
Average Total ROP (ft/h)	68.76	% Distance Rotating	37.50%	% Hours Rotating	27.70%
Average Slide ROP (ft/h)	59.44	BHA Objective			
Average Rotating ROP (ft/h)	93.07	Drill 8.75" curve			

Notes: N/A	
Bit Details	
OD (in)	8.750
Vendor	Ultrerra
Nozzles	6x15's
Total Flow Area (in²)	1.035
Bit Distances	
Bit To Survey (Bit to Sensor): 49.00 ft, Gamma (Bit to Gamma): 34.00 ft	
Bit Post Run/Notes	
Dull Grading	1-1
Notes: Bit had little / no damage in all areas	
MWD	
Max Downhole Temp (°F)	N/A
Mud Properties	
Type	Oil Based
WT	9.50
VIS	72.00
PV	16.00
YP	8.00

POOH Reason/Notes

Change Bottom Hole Assembly

Incident Notes**Directional:****MWD:****Comments****Directional:** Flow Range: 300-650 GPM, Max Diff: 1180 psi, Max Torque: 10650ft/lbs, Bit Runs: 0**Parameters**

Flow Rate (gpm)	555.00 - 6000.00	Motor RPM	0.00 - 0.00
On Bottom Pressure (psi)	2550.00 - 2850.00	Surface RPM	20.00 - 30.00
Off Bottom Pressure (psi)	2100.00 - 2300.00	Rotating WOB (klbs)	40.00 - 40.00
Stall Pressure (psi)	1859.96	Sliding WOB (klbs)	22.00 - 50.00
Stalls	0	Temp (°F)	90.00 - 152.00
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): 0.30, Size (in): 8.75	Ultrerra	56831	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: 6.5" 7/8 5.0 Stg. 2.25° FBH, Size (in): 6.50, Bend Angle (°): 2.25, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.0	Paradigm	PDT65016SS	4 1/2" IF Box	4 1/2" Reg Box		6.500		24.96	25.96
UBHO Sub Description: NM DAO UBHO, Material: Non-Magnetic	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	28.22
Drill Collar Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	58.47
Drill Collar Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	88.73
Crossover Sub Description: X-O SUB, Material: Steel	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	91.73





Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

BHA #5 - 8.75" LATERAL w/ Agitator (Directional)

Motor Details		Date/Depth/Distances		Hours	
Size(in)	7.00	Date In	2021-08-06 16:30	Downhole Hours	97.25
Lobe/Stage	7/8, 8.5	Depth In (ft)	12363.00	Drilling/Circulating Hours	56.92
Bend Angle	1.75	Date Out	2021-08-10 17:45	Drilling Hours	47.58
Speed (rev/gal)	0.25	Depth Out (ft)	20104.00	Circulating Hours	9.33
Wear Pad OD (in)	7.375	Distance Slid (ft)	619.00	Sliding Hours	8.75
Incident	No	Distance Rotated (ft)	7122.00	Rotating Hours	38.83
Motor Post Run/Notes		% Distance Sliding	8.00%	% Hours Sliding	18.39%
Average Total ROP (ft/h)	162.68	% Distance Rotating	92.00%	% Hours Rotating	81.61%
Average Slide ROP (ft/h)	70.74	BHA Objective			
Average Rotating ROP (ft/h)	183.40	Drill 8.75" Lateral Section			
Notes: N/A		POOH Reason/Notes			
Bit Details					
OD (in)	8.750	Total Depth/Casing Point: when motor reached rig floor we noticed fluid coming from body of motor			
Vendor	Reed				
Nozzles	7 x 14	Incident Notes			
Total Flow Area (in²)	1.052				
Bit Distances		Directional: hole in middle of body			
Bit To Survey (Bit to Sensor): 55.00 ft, Gamma (Bit to Gamma): 40.00 ft					
Bit Post Run/Notes		MWD:			
Dull Grading					
Notes: bit looked great		Comments			
MWD					
Max Downhole Temp (°F)	N/A	Parameters			
Mud Properties					
Type	Oil Based	Flow Rate (gpm)	600.00 - 682.00	Motor RPM	40.00 - 40.00
WT	9.50	On Bottom Pressure (psi)	3650.00 - 4700.00	Surface RPM	40.00 - 40.00
VIS	77.00	Off Bottom Pressure (psi)	2955.00 - 4100.00	Rotating WOB (klbs)	40.00 - 45.00
PV	17.00	Stall Pressure (psi)	2000.07	Sliding WOB (klbs)	50.00 - 55.00
YP	8.00	Stalls	0	Temp (°F)	160.00 - 197.00
		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: <i>TKC76</i> , Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in): <i>3.00</i> , Size (in): <i>8.75</i>	Reed	A280805	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: <i>7" 7/8 8.5 Stg . 1.75° Fxd. (Slick)</i> , Size (in): <i>7.00</i> , Bend Angle (°): <i>1.75</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>8.5</i>	Bico	BPB5700-0002	4 1/2" IF Box	4 1/2" Reg Box		7.000		30.12	31.12
UBHO Sub Description: <i>NM DAO UBHO</i> , Material: <i>Non-Magnetic</i>	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	33.38
Drill Collar Description: <i>NMDC (MWD Tool)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	63.63
Drill Collar Description: <i>NMDC (Spacer)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	93.89
Crossover Sub Description: <i>X-O SUB</i> , Material: <i>Steel</i>	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	96.89
Drill Pipe Description: <i>5.5" Drill Pipe - 22 Stands</i> , Type: <i>Slick</i>	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1969.49	2066.38
Crossover Sub Description: <i>4.5 IF (B) x EverDrill 54 (P)</i> , Material: <i>Steel</i>	BLACK DIAMOND	BD13825	4 1/2" IF Box	EverDrlg54 Pin	3.250	6.750		3.49	2069.87
Agitator Description: <i>Agitator</i> , Size (in): <i>7.00</i>	NOV	AGHF0675-0186	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.49	2094.36
Crossover Sub Description: <i>EverDrill 54 (B) x 4.5 IF (P)</i> , Material: <i>Steel</i>	BLACK DIAMOND	BD8074	EverDrlg54 Box	4 1/2" IF Pin	3.250	6.750		3.49	2097.85





Mud Motor Reports

Dagger State Com 608H (WT-21-066)

2021-05-26 to 2021-08-12

Lea, New Mexico, US (32.45, 103.62)



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

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

Motor Details		Date/Depth/Distances		Hours	
S/N	BDT-800-025	Date In	2021-05-29 13:30	Downhole Hours	21.00
Size (in)	8.0	Depth In (ft)	120.00	Drilling/Circulating Hours	9.92
Lobe/Stage	7/8, 5.90	Date Out	2021-05-30 10:30		
Bend Angle	1.75	Depth Out (ft)	1592.00	Circulating Hours	1.92
Speed (rev/gal)	0.15	Total Drilled (ft)	1472.00	Drilling Hours	8.00
Wear Pad OD (in)	8.313	Distance Slid (ft)	0.00	Sliding Hours	0.00
Manufacturer	Butch's	Distance Rotated (ft)	1472.00	Rotating Hours	8.00
Motor Results		% Distance Sliding	0.00%	% Hours Rotating	100.00%
Motor Incident	No	% Distance Rotating	100.00%	% Hours Sliding	0.00%
Average Total ROP (ft/h)	184.00	BHA Parameters			
Average Slide ROP (ft/h)	0.00	Flow Rate (gpm)	550.00 - 800.00	Motor RPM	60.00 - 140.00
Average Rotating ROP (ft/h)	184.00	Stalls	0	Surface RPM	40.00 - 70.00
Bit Details		Stall Pressure (psi)	1330.00	Rotating WOB (klbs)	10.00 - 54.00
OD (in)	17.500	On Bottom Pressure (psi)	1000.00 - 3000.00	Sliding WOB (klbs)	0.00 - 0.00
Vendor	Varel	Off Bottom Pressure (psi)	500.00 - 2500.00	Temp (°F)	-0.00 - 96.80
S/N	4012197	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	9.10				
VIS	29.00				
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: 6					
MWD:					



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

Mud Motor Report - BHA 2 (Intermediate 12.25")

Motor Details		Date/Depth/Distances		Hours		
S/N	BDT-800-025	Date In	2021-05-31 10:30	Downhole Hours	35.00	
Size (in)	8.0	Depth In (ft)	1592.00	Drilling/Circulating Hours	24.00	
Lobe/Stage	7/8, 5.90	Date Out	2021-06-01 21:30			
Bend Angle	1.75	Depth Out (ft)	5511.00	Circulating Hours	9.75	
Speed (rev/gal)	0.15	Total Drilled (ft)	3919.00	Drilling Hours	14.25	
Wear Pad OD (in)	8.313	Distance Slid (ft)	97.00	Sliding Hours	1.00	
Manufacturer	Butch's	Distance Rotated (ft)	3822.00	Rotating Hours	13.25	
Motor Results		% Distance Sliding	2.48%	% Hours Rotating	92.98%	
Motor Incident		% Distance Rotating	97.52%	% Hours Sliding	7.02%	
Average Total ROP (ft/h)		BHA Parameters				
Average Slide ROP (ft/h)		97.00	Flow Rate (gpm)	793.00 - 900.00	Motor RPM	60.00 - 140.00
Average Rotating ROP (ft/h)		288.45	Stalls	0	Surface RPM	50.00 - 70.00
Bit Details		Stall Pressure (psi)		1390.04	Rotating WOB (klbs)	52.00 - 60.00
OD (in)	12.250	On Bottom Pressure (psi)	2100.00 - 3100.00	Sliding WOB (klbs)	20.00 - 25.00	
Vendor	REED	Off Bottom Pressure (psi)	1504.00 - 2300.00	Temp (°F)	107.00 - 176.00	
S/N	A270957	NPT	0.0			
Nozzles	6x16's	BHA Objective				
Total Flow Area (in²)		1.178	Drill 12 1/4 Intermediate			
Bit Type	PDC (Polycrystalline Diamond Compacts)					
Bit Distances						
Survey (Bit to Survey): 66.00 ft						
Mud Properties						
Type	Water Based					
WT	10.20					
VIS	30.00					
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 WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Mud Motor Report - BHA 3 (Intermediate 8.75")

Motor Details		Date/Depth/Distances		Hours	
S/N	CD700021	Date In	2021-08-03 00:30	Downhole Hours	49.75
Size (in)	7.0	Depth In (ft)	5511.00	Drilling/Circulating Hours	31.17
Lobe/Stage	7/8, 8.50	Date Out	2021-08-05 02:15		
Bend Angle	1.75	Depth Out (ft)	11515.00	Circulating Hours	1.83
Speed (rev/gal)	0.26	Total Drilled (ft)	6004.00	Drilling Hours	29.33
Wear Pad OD (in)	7.250	Distance Slid (ft)	354.00	Sliding Hours	6.50
Manufacturer	Patriot	Distance Rotated (ft)	5650.00	Rotating Hours	22.83
Motor Results		% Distance Sliding	5.90%	% Hours Rotating	77.84%
Motor Incident	No	% Distance Rotating	94.10%	% Hours Sliding	22.16%
Average Total ROP (ft/h)	204.68	BHA Parameters			
Average Slide ROP (ft/h)	54.46	Flow Rate (gpm)	700.00 - 700.00	Motor RPM	30.00 - 30.00
Average Rotating ROP (ft/h)	247.45	Stalls	0	Surface RPM	30.00 - 40.00
Bit Details		Stall Pressure (psi)	1910.00	Rotating WOB (klbs)	35.00 - 50.00
OD (in)	8.750	On Bottom Pressure (psi)	2100.00 - 2900.00	Sliding WOB (klbs)	18.00 - 50.00
Vendor	REED	Off Bottom Pressure (psi)	1800.00 - 1950.00	Temp (°F)	90.00 - 140.00
S/N	A281334	NPT	0.0		
Nozzles	6x16's	BHA Objective			
Total Flow Area (in²)	1.178	Drill 8.75" Intermediate to KOP			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey (Bit to Sensor): 64.00 ft, Gamma (Bit to Gamma): 50.00 ft					
Mud Properties					
Type	Water				
WT	9.30				
VIS	29.00				
PV	2.00				
YP	3.00				
POOH Reason/Notes					
Total Depth/Casing Point: MOTOR LOOKED GREAT DRAINED AS EXPECTED					
Incident Notes					
Directional: NONE					
MWD:					
Comments					
Directional: Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0					
MWD:					



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

Mud Motor Report - BHA 4 (8.75" CURVE)

Motor Details		Date/Depth/Distances		Hours	
S/N	PDT65016SS	Date In	2021-08-05 02:15	Downhole Hours	37.58
Size (in)	6.5	Depth In (ft)	11515.00	Drilling/Circulating Hours	14.58
Lobe/Stage	7/8, 5.00	Date Out	2021-08-06 15:50		
Bend Angle	2.25	Depth Out (ft)	12363.00	Circulating Hours	2.25
Speed (rev/gal)	0.27	Total Drilled (ft)	848.00	Drilling Hours	12.33
Wear Pad OD (in)	7.000	Distance Slid (ft)	530.00	Sliding Hours	8.92
Manufacturer	Paradigm	Distance Rotated (ft)	318.00	Rotating Hours	3.42
Motor Results		% Distance Sliding	62.50%	% Hours Rotating	27.70%
Motor Incident	No	% Distance Rotating	37.50%	% Hours Sliding	72.30%
Average Total ROP (ft/h)	68.76	BHA Parameters			
Average Slide ROP (ft/h)	59.44	Flow Rate (gpm)	555.00 - 6000.00	Motor RPM	0.00 - 0.00
Average Rotating ROP (ft/h)	93.07	Stalls	0	Surface RPM	20.00 - 30.00
Bit Details		Stall Pressure (psi)	1859.96	Rotating WOB (klbs)	40.00 - 40.00
OD (in)	8.750	On Bottom Pressure (psi)	2550.00 - 2850.00	Sliding WOB (klbs)	22.00 - 50.00
Vendor	Ultrerra	Off Bottom Pressure (psi)	2100.00 - 2300.00	Temp (°F)	90.00 - 152.00
S/N	56831	NPT	0.0		
Nozzles	6x15's	BHA Objective			
Total Flow Area (in²)	1.035	Drill 8.75" curve			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey (Bit to Sensor): 49.00 ft, Gamma (Bit to Gamma): 34.00 ft					
Mud Properties					
Type	Oil Based				
WT	9.50				
VIS	72.00				
PV	16.00				
YP	8.00				
POOH Reason/Notes					
Change Bottom Hole Assembly					
Incident Notes					
Directional:					
MWD:					
Comments					
Directional: Flow Range: 300-650 GPM, Max Diff: 1180 psi, Max Torque: 10650ft/lbs, Bit Runs: 0					
MWD:					

	Job Number WT-21-066	Operator Advance Energy Partners		Rig Name Nabors X50
	Start Date 2021-05-26	Well Name Dagger State Com 608H		Legal Well Name AFE Dagger State Com 608H
	Play Delaware Basin	State/Province and Country New Mexico, US	County Lea	Company Man

Mud Motor Report - BHA 5 (8.75" LATERAL w/ Agitator)

Motor Details		Date/Depth/Distances		Hours	
S/N	BPB5700-0002	Date In	2021-08-06 16:30	Downhole Hours	97.25
Size (in)	7.0	Depth In (ft)	12363.00	Drilling/Circulating Hours	56.92
Lobe/Stage	7/8, 8.50	Date Out	2021-08-10 17:45		
Bend Angle	1.75	Depth Out (ft)	20104.00	Circulating Hours	9.33
Speed (rev/gal)	0.25	Total Drilled (ft)	7741.00	Drilling Hours	47.58
Wear Pad OD (in)	7.375	Distance Slid (ft)	619.00	Sliding Hours	8.75
Manufacturer	Bico	Distance Rotated (ft)	7122.00	Rotating Hours	38.83
Motor Results		% Distance Sliding	8.00%	% Hours Rotating	81.61%
Motor Incident	No	% Distance Rotating	92.00%	% Hours Sliding	18.39%
Average Total ROP (ft/h)	162.68	BHA Parameters			
Average Slide ROP (ft/h)	70.74	Flow Rate (gpm)	600.00 - 682.00	Motor RPM	40.00 - 40.00
Average Rotating ROP (ft/h)	183.40	Stalls	0	Surface RPM	40.00 - 40.00
Bit Details		Stall Pressure (psi)	2000.07	Rotating WOB (klbs)	40.00 - 45.00
OD (in)	8.750	On Bottom Pressure (psi)	3650.00 - 4700.00	Sliding WOB (klbs)	50.00 - 55.00
Vendor	Reed	Off Bottom Pressure (psi)	2955.00 - 4100.00	Temp (°F)	160.00 - 197.00
S/N	A280805	NPT	0.0		
Nozzles	7 x 14	BHA Objective			
Total Flow Area (in²)	1.052	Drill 8.75" Lateral Section			
Bit Type	PDC (Polycrystalline Diamond Compacts)				
Bit Distances					
Survey (Bit to Sensor): 55.00 ft, Gamma (Bit to Gamma): 40.00 ft					
Mud Properties					
Type	Oil Based				
WT	9.50				
VIS	77.00				
PV	17.00				
YP	8.00				
POOH Reason/Notes					
Total Depth/Casing Point: when motor reached rig floor we noticed fluid coming from body of motor					
Incident Notes					
Directional: hole in middle of body					
MWD:					
Comments					
Directional: Flow Range: 300-700 GPM,RPG: 0.25 , Max Diff: 1800 psi, Max Torque: 17100ft/lbs, Bit Runs: 0					
MWD:					



Slide/Rotate Reports

Dagger State Com 608H (WT-21-066)

2021-05-26 to 2021-08-12

Lea, New Mexico, US (32.45, 103.62)



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

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	05-29	17:20	18:15	05-29	0.92	120.00	298.00	178.00	194.18	N/A	550.00	40.0	10.00	1000.00	600.00	Surface
Rotate	05-29	18:20	19:00	05-29	0.67	298.00	485.00	187.00	280.50	N/A	550.00	70.0	10.00	1400.00	500.00	Surface
Rotate	05-29	19:05	19:35	05-29	0.5	485.00	578.00	93.00	186.00	N/A						Surface
Rotate	05-29	19:40	20:10	05-29	0.5	578.00	671.00	93.00	186.00	N/A	790.00	70.0	20.00	2400.00	1500.00	Surface
Rotate	05-29	20:15	20:40	05-29	0.42	671.00	780.00	109.00	261.60	N/A	790.00	70.0	20.00	2400.00	1500.00	Surface
Rotate	05-29	22:50	23:10	05-29	0.33	780.00	858.00	78.00	234.00	N/A	800.00	70.0	25.00	2600.00	1850.00	Surface
Rotate	05-29	23:20	00:10	05-30	0.83	858.00	1045.00	187.00	224.40	N/A	800.00	70.0	25.00	2600.00	1850.00	Surface
Rotate	05-30	00:20	00:35	05-30	0.25	1045.00	1112.00	67.00	268.00	N/A	800.00	70.0	25.00	2600.00	1850.00	Surface
Rotate	05-30	01:30	02:10	05-30	0.67	1112.00	1231.00	119.00	178.50	N/A	800.00	70.0	40.00	2600.00	2000.00	Surface
Rotate	05-30	02:20	02:55	05-30	0.58	1231.00	1325.00	94.00	161.14	N/A						Surface
Rotate	05-30	03:00	03:35	05-30	0.58	1325.00	1414.00	89.00	152.57	N/A	800.00	70.0	50.00	3000.00	2500.00	Surface
Rotate	05-30	03:40	04:15	05-30	0.58	1414.00	1504.00	90.00	154.29	N/A	800.00	70.0	50.00	3000.00	2500.00	Surface
Rotate	05-30	04:20	05:15	05-30	0.92	1504.00	1577.00	73.00	79.64	N/A	793.00	50.0	54.00	2301.00	1504.00	Surface
Rotate	05-30	06:15	06:30	05-30	0.25	1577.00	1592.00	15.00	60.00	N/A	800.00	70.0	50.00	3000.00	2500.00	Surface, Intermediate



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Slide/Rotate Report - 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	05-31	14:10	15:00	05-31	0.83	1592.00	1684.00	92.00	110.40	N/A	793.00	50.0	54.00	2301.00	1504.00	Intermediate
Rotate	05-31	15:05	15:10	05-31	0.08	1684.00	1700.00	16.00	192.00	N/A	793.00	70.0	52.00	2100.00	1525.00	Intermediate
Slide	05-31	15:10	15:20	05-31	0.17	1700.00	1720.00	20.00	120.00	340.0	793.00	N/A	25.00	2100.00	1525.00	Intermediate
Rotate	05-31	15:20	15:30	05-31	0.17	1720.00	1773.00	53.00	318.00	N/A	793.00	70.0	52.00	2100.00	1525.00	Intermediate
Rotate	05-31	15:35	15:55	05-31	0.33	1773.00	1863.00	90.00	270.00	N/A	793.00	70.0	52.00	2100.00	1525.00	Intermediate
Rotate	05-31	16:00	16:15	05-31	0.25	1863.00	1952.00	89.00	356.00	N/A	793.00	70.0	52.00	2100.00	1525.00	Intermediate
Rotate	05-31	16:20	16:35	05-31	0.25	1952.00	2042.00	90.00	360.00	N/A	793.00	70.0	52.00	2100.00	1525.00	Intermediate
Rotate	05-31	16:40	16:50	05-31	0.17	2042.00	2131.00	89.00	534.00	N/A	793.00	70.0	52.00	2100.00	1525.00	Intermediate
Rotate	05-31	16:55	17:10	05-31	0.25	2131.00	2221.00	90.00	360.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	17:15	17:25	05-31	0.17	2221.00	2310.00	89.00	534.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	17:30	17:40	05-31	0.17	2310.00	2400.00	90.00	540.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	17:45	18:00	05-31	0.25	2400.00	2489.00	89.00	356.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	18:05	18:15	05-31	0.17	2489.00	2579.00	90.00	540.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	18:20	18:35	05-31	0.25	2579.00	2668.00	89.00	356.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	18:40	18:50	05-31	0.17	2668.00	2757.00	89.00	534.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	18:55	19:05	05-31	0.17	2757.00	2847.00	90.00	540.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	19:10	19:40	05-31	0.5	2847.00	3026.00	179.00	358.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	19:45	19:50	05-31	0.08	3026.00	3038.00	12.00	144.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Slide	05-31	19:50	20:15	05-31	0.42	3038.00	3075.00	37.00	88.80	250.0	900.00	N/A	20.00	2800.00	2300.00	Intermediate
Rotate	05-31	20:15	20:20	05-31	0.08	3075.00	3115.00	40.00	480.00	N/A	895.00	70.0	52.00	3000.00	2100.00	Intermediate
Rotate	05-31	20:25	20:45	05-31	0.33	3115.00	3205.00	90.00	270.00	N/A	895.00	70.0	60.00	3000.00	2100.00	Intermediate
Slide	05-31	20:50	21:15	05-31	0.42	3205.00	3245.00	40.00	96.00	250.0	900.00	N/A	20.00	2600.00	2250.00	Intermediate
Rotate	05-31	21:15	21:25	05-31	0.17	3245.00	3294.00	49.00	294.00	N/A	900.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	05-31	21:30	21:45	05-31	0.25	3294.00	3384.00	90.00	360.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	05-31	21:50	22:35	05-31	0.75	3384.00	3563.00	179.00	238.67	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	05-31	22:40	23:20	05-31	0.67	3563.00	3742.00	179.00	268.50	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	05-31	23:25	00:15	06-01	0.83	3742.00	3921.00	179.00	214.80	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	00:20	00:35	06-01	0.25	3921.00	4010.00	89.00	356.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	00:40	01:20	06-01	0.67	4010.00	4189.00	179.00	268.50	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	01:25	02:05	06-01	0.67	4189.00	4368.00	179.00	268.50	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	02:10	02:25	06-01	0.25	4368.00	4458.00	90.00	360.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	02:30	02:45	06-01	0.25	4458.00	4548.00	90.00	360.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	02:50	03:10	06-01	0.33	4548.00	4638.00	90.00	270.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	03:15	03:35	06-01	0.33	4638.00	4727.00	89.00	267.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	03:40	04:00	06-01	0.33	4727.00	4817.00	90.00	270.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	04:05	04:25	06-01	0.33	4817.00	4906.00	89.00	267.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	04:30	05:25	06-01	0.92	4906.00	5085.00	179.00	195.27	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	05:30	05:55	06-01	0.42	5085.00	5175.00	90.00	216.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	06:00	06:15	06-01	0.25	5175.00	5264.00	89.00	356.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	06:20	06:45	06-01	0.42	5264.00	5354.00	90.00	216.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	06:50	07:05	06-01	0.25	5354.00	5443.00	89.00	356.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate
Rotate	06-01	07:10	07:25	06-01	0.25	5443.00	5511.00	68.00	272.00	N/A	895.00	70.0	60.00	3100.00	2250.00	Intermediate

	Job Number WT-21-066	Operator Advance Energy Partners		Rig Name Nabors X50
	Start Date 2021-05-26	Well Name Dagger State Com 608H		Legal Well Name AFE Dagger State Com 608H
	Play Delaware Basin	State/Province and Country New Mexico, US	County Lea	Company Man

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	08-03	07:50	08:15	08-03	0.42	5511.00	5561.00	50.00	120.00	N/A	700.00	40.0	35.00	2400.00	1800.00	Intermediate
Slide	08-03	08:15	08:30	08-03	0.25	5561.00	5584.00	23.00	92.00	330.0	700.00	N/A	18.00	2100.00	1800.00	Intermediate
Rotate	08-03	08:30	08:45	08-03	0.25	5584.00	5617.00	33.00	132.00	N/A	700.00	40.0	35.00	2400.00	1800.00	Intermediate
Rotate	08-03	08:55	09:00	08-03	0.08	5617.00	5629.00	12.00	144.00	N/A	700.00	40.0	35.00	2400.00	1800.00	Intermediate
Slide	08-03	09:00	09:15	08-03	0.25	5629.00	5649.00	20.00	80.00	300.0	700.00	N/A	18.00	2100.00	1800.00	Intermediate
Rotate	08-03	09:15	09:40	08-03	0.42	5649.00	5706.00	57.00	136.80	N/A	700.00	40.0	35.00	2400.00	1800.00	Intermediate
Rotate	08-03	09:45	09:55	08-03	0.17	5706.00	5796.00	90.00	540.00	N/A	700.00	40.0	35.00	2650.00	1800.00	Intermediate
Rotate	08-03	10:00	10:05	08-03	0.08	5796.00	5809.00	13.00	156.00	N/A	700.00	40.0	35.00	2650.00	1800.00	Intermediate
Slide	08-03	10:05	10:15	08-03	0.17	5809.00	5826.00	17.00	102.00	205.0	700.00	N/A	18.00	2100.00	1800.00	Intermediate
Rotate	08-03	10:15	10:25	08-03	0.17	5826.00	5886.00	60.00	360.00	N/A	700.00	40.0	35.00	2650.00	1800.00	Intermediate
Rotate	08-03	10:30	10:35	08-03	0.08	5886.00	5898.00	12.00	144.00	N/A	700.00	40.0	35.00	2650.00	1800.00	Intermediate
Slide	08-03	10:35	10:55	08-03	0.33	5898.00	5923.00	25.00	75.00	210.0	700.00	N/A	18.00	2100.00	1800.00	Intermediate
Rotate	08-03	10:55	11:00	08-03	0.08	5923.00	5976.00	53.00	636.00	N/A	700.00	40.0	35.00	2650.00	1800.00	Intermediate
Rotate	08-03	11:05	11:15	08-03	0.17	5976.00	5988.00	12.00	72.00	N/A	700.00	40.0	35.00	2650.00	1800.00	Intermediate
Slide	08-03	11:15	11:25	08-03	0.17	5988.00	6008.00	20.00	120.00	200.0	700.00	N/A	18.00	2100.00	1800.00	Intermediate
Rotate	08-03	11:25	11:35	08-03	0.17	6008.00	6065.00	57.00	342.00	N/A	700.00	40.0	35.00	2650.00	1800.00	Intermediate
Rotate	08-03	11:40	11:50	08-03	0.17	6065.00	6155.00	90.00	540.00	N/A	700.00	40.0	35.00	2650.00	1800.00	Intermediate
Rotate	08-03	11:55	12:00	08-03	0.08	6155.00	6168.00	13.00	156.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Slide	08-03	12:00	12:15	08-03	0.25	6168.00	6183.00	15.00	60.00	65.0	700.00	N/A	18.00	2100.00	1900.00	Intermediate
Rotate	08-03	12:15	12:20	08-03	0.08	6183.00	6244.00	61.00	732.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Rotate	08-03	12:25	12:35	08-03	0.17	6244.00	6334.00	90.00	540.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Rotate	08-03	12:40	12:50	08-03	0.17	6334.00	6423.00	89.00	534.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Rotate	08-03	12:55	13:05	08-03	0.17	6423.00	6513.00	90.00	540.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Rotate	08-03	13:10	13:15	08-03	0.08	6513.00	6603.00	90.00	1080.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Rotate	08-03	13:20	13:30	08-03	0.17	6603.00	6693.00	90.00	540.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Rotate	08-03	13:35	13:45	08-03	0.17	6693.00	6782.00	89.00	534.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Rotate	08-03	13:50	13:55	08-03	0.08	6782.00	6795.00	13.00	156.00	N/A	700.00	40.0	35.00	2750.00	1900.00	Intermediate
Slide	08-03	13:55	14:10	08-03	0.25	6795.00	6815.00	20.00	80.00	300.0	700.00	N/A	20.00	2200.00	1900.00	Intermediate
Rotate	08-03	14:10	14:15	08-03	0.08	6815.00	6872.00	57.00	684.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	14:20	14:30	08-03	0.17	6872.00	6961.00	89.00	534.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	14:35	14:45	08-03	0.17	6961.00	7050.00	89.00	534.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	14:50	15:00	08-03	0.17	7050.00	7139.00	89.00	534.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	15:05	15:15	08-03	0.17	7139.00	7229.00	90.00	540.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	15:20	15:30	08-03	0.17	7229.00	7319.00	90.00	540.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	15:35	15:50	08-03	0.25	7319.00	7408.00	89.00	356.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	15:55	16:05	08-03	0.17	7408.00	7498.00	90.00	540.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	16:10	16:20	08-03	0.17	7498.00	7587.00	89.00	534.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate

Rotate	08-03	16:25	16:35	08-03	0.17	7587.00	7677.00	90.00	540.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	16:40	16:45	08-03	0.08	7677.00	7687.00	10.00	120.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Slide	08-03	16:45	17:05	08-03	0.33	7687.00	7707.00	20.00	60.00	330.0	700.00	N/A	25.00	2250.00	1900.00	Intermediate
Rotate	08-03	17:05	17:15	08-03	0.17	7707.00	7767.00	60.00	360.00	N/A	700.00	40.0	35.00	2800.00	1950.00	Intermediate
Rotate	08-03	17:20	17:30	08-03	0.17	7767.00	7856.00	89.00	534.00	N/A	700.00	40.0	35.00	2900.00	1950.00	Intermediate
Rotate	08-03	17:35	17:50	08-03	0.25	7856.00	7946.00	90.00	360.00	N/A	700.00	40.0	35.00	2900.00	1950.00	Intermediate
Rotate	08-03	17:55	18:10	08-03	0.25	7946.00	8036.00	90.00	360.00	N/A	700.00	40.0	35.00	2900.00	1950.00	Intermediate
Rotate	08-03	18:15	18:20	08-03	0.08	8036.00	8055.00	19.00	228.00	N/A	700.00	40.0	35.00	2900.00	1950.00	Intermediate
Slide	08-03	18:20	18:35	08-03	0.25	8055.00	8075.00	20.00	80.00	240.0	700.00	N/A	25.00	2250.00	1900.00	Intermediate
Rotate	08-03	18:35	18:50	08-03	0.25	8075.00	8125.00	50.00	200.00	N/A	700.00	40.0	35.00	2900.00	1950.00	Intermediate
Rotate	08-03	18:55	19:10	08-03	0.25	8125.00	8215.00	90.00	360.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	19:15	19:35	08-03	0.33	8215.00	8304.00	89.00	267.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	19:40	19:55	08-03	0.25	8304.00	8394.00	90.00	360.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	20:00	20:20	08-03	0.33	8394.00	8483.00	89.00	267.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	20:25	20:40	08-03	0.25	8483.00	8573.00	90.00	360.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	20:45	21:05	08-03	0.33	8573.00	8663.00	90.00	270.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	21:10	21:35	08-03	0.42	8663.00	8752.00	89.00	213.60	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	21:40	22:05	08-03	0.42	8752.00	8842.00	90.00	216.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	22:10	22:35	08-03	0.42	8842.00	8932.00	90.00	216.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	22:50	23:15	08-03	0.42	8932.00	9021.00	89.00	213.60	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-03	23:20	23:25	08-03	0.08	9021.00	9032.00	11.00	132.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Slide	08-03	23:25	23:45	08-03	0.33	9032.00	9052.00	20.00	60.00	300.0	700.00	N/A	50.00	2150.00	1950.00	Intermediate
Rotate	08-03	23:45	00:05	08-04	0.33	9052.00	9111.00	59.00	177.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	00:10	00:35	08-04	0.42	9111.00	9200.00	89.00	213.60	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	00:40	01:00	08-04	0.33	9200.00	9290.00	90.00	270.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	01:05	01:10	08-04	0.08	9290.00	9300.00	10.00	120.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Slide	08-04	01:10	02:30	08-04	1.33	9300.00	9340.00	40.00	30.00	250.0	700.00	N/A	50.00	2150.00	1950.00	Intermediate
Rotate	08-04	02:30	02:40	08-04	0.17	9340.00	9380.00	40.00	240.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	02:45	03:10	08-04	0.42	9380.00	9469.00	89.00	213.60	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	03:15	03:35	08-04	0.33	9469.00	9559.00	90.00	270.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	03:40	04:10	08-04	0.5	9559.00	9649.00	90.00	180.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	04:15	04:40	08-04	0.42	9649.00	9738.00	89.00	213.60	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	04:45	05:10	08-04	0.42	9738.00	9828.00	90.00	216.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	05:15	05:30	08-04	0.25	9828.00	9918.00	90.00	360.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	05:35	05:45	08-04	0.17	9918.00	9927.00	9.00	54.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Slide	08-04	05:45	06:05	08-04	0.33	9927.00	9947.00	20.00	60.00	245.0	700.00	N/A	40.00	2200.00	1950.00	Intermediate
Rotate	08-04	06:05	06:20	08-04	0.25	9947.00	10007.00	60.00	240.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	06:25	06:55	08-04	0.5	10007.00	10097.00	90.00	180.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	07:00	07:25	08-04	0.42	10097.00	10186.00	89.00	213.60	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	07:30	07:40	08-04	0.17	10186.00	10198.00	12.00	72.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Slide	08-04	07:40	08:15	08-04	0.58	10198.00	10228.00	30.00	51.43	240.0	700.00	N/A	40.00	2200.00	1950.00	Intermediate
Rotate	08-04	08:15	08:30	08-04	0.25	10228.00	10276.00	48.00	192.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	08:35	09:05	08-04	0.5	10276.00	10366.00	90.00	180.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate

Rotate	08-04	09:10	09:40	08-04	0.5	10366.00	10456.00	90.00	180.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	09:45	10:15	08-04	0.5	10456.00	10545.00	89.00	178.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	10:20	10:25	08-04	0.08	10545.00	10557.00	12.00	144.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Slide	08-04	10:25	11:05	08-04	0.67	10557.00	10588.00	31.00	46.50	220.0	700.00	N/A	40.00	2200.00	1950.00	Intermediate
Rotate	08-04	11:05	11:30	08-04	0.42	10588.00	10635.00	47.00	112.80	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	11:35	12:10	08-04	0.58	10635.00	10724.00	89.00	152.57	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	12:15	12:50	08-04	0.58	10724.00	10814.00	90.00	154.29	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	12:55	13:30	08-04	0.58	10814.00	10903.00	89.00	152.57	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	13:35	14:00	08-04	0.42	10903.00	10993.00	90.00	216.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	14:05	14:10	08-04	0.08	10993.00	11005.00	12.00	144.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Slide	08-04	14:10	15:10	08-04	1.0	11005.00	11038.00	33.00	33.00	55.0	700.00	N/A	40.00	2200.00	1950.00	Intermediate
Rotate	08-04	15:10	15:45	08-04	0.58	11038.00	11082.00	44.00	75.43	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	15:50	16:25	08-04	0.58	11082.00	11172.00	90.00	154.29	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	16:30	17:05	08-04	0.58	11172.00	11262.00	90.00	154.29	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	17:10	17:40	08-04	0.5	11262.00	11351.00	89.00	178.00	N/A	700.00	40.0	50.00	2900.00	1950.00	Intermediate
Rotate	08-04	17:45	18:25	08-04	0.67	11351.00	11441.00	90.00	135.00	N/A						Intermediate
Rotate	08-04	18:30	18:55	08-04	0.42	11441.00	11515.00	74.00	177.60	N/A	700.00	30.0	50.00	2600.00	1950.00	Intermediate, Curve



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
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	08-05	16:45	17:55	08-05	1.17	11515.00	11557.00	42.00	36.00	0.0	555.00	N/A	22.00	2550.00	2100.00	Curve
Slide	08-05	18:10	20:00	08-05	1.83	11557.00	11646.00	89.00	48.55	350.0	555.00	N/A	22.00	2550.00	2100.00	Curve
Slide	08-05	20:10	20:35	08-05	0.42	11646.00	11668.00	22.00	52.80	350.0	555.00	N/A	22.00	2550.00	2100.00	Curve
Rotate	08-05	20:35	20:55	08-05	0.33	11668.00	11683.00	15.00	45.00	N/A	6000.00	20.0	40.00	2800.00	2300.00	Curve
Slide	08-05	20:55	21:55	08-05	1.0	11683.00	11736.00	53.00	53.00	355.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-05	22:05	22:35	08-05	0.5	11736.00	11767.00	31.00	62.00	N/A	6000.00	20.0	40.00	2800.00	2300.00	Curve
Slide	08-05	22:35	23:35	08-05	1.0	11767.00	11825.00	58.00	58.00	0.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-05	23:45	00:05	08-06	0.33	11825.00	11853.00	28.00	84.00	N/A	6000.00	20.0	40.00	2800.00	2300.00	Curve
Slide	08-06	00:05	00:55	08-06	0.83	11853.00	11915.00	62.00	74.40	0.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-06	01:05	01:40	08-06	0.58	11915.00	11980.00	65.00	111.43	N/A	6000.00	20.0	40.00	2800.00	2300.00	Curve
Slide	08-06	01:40	02:05	08-06	0.42	11980.00	12005.00	25.00	60.00	0.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-06	02:15	02:45	08-06	0.5	12005.00	12065.00	60.00	120.00	N/A	6000.00	30.0	40.00	2800.00	2300.00	Curve
Slide	08-06	02:45	03:15	08-06	0.5	12065.00	12094.00	29.00	58.00	0.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-06	03:25	03:50	08-06	0.42	12094.00	12149.00	55.00	132.00	N/A	6000.00	30.0	40.00	2800.00	2300.00	Curve
Slide	08-06	03:50	04:20	08-06	0.5	12149.00	12184.00	35.00	70.00	0.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-06	04:30	04:40	08-06	0.17	12184.00	12191.00	7.00	42.00	N/A	6000.00	30.0	40.00	2800.00	2300.00	Curve
Slide	08-06	04:40	04:55	08-06	0.25	12191.00	12217.00	26.00	104.00	30.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-06	04:55	05:05	08-06	0.17	12217.00	12230.00	13.00	78.00	N/A	6000.00	30.0	40.00	2800.00	2300.00	Curve
Slide	08-06	05:05	05:35	08-06	0.5	12230.00	12274.00	44.00	88.00	15.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-06	05:45	06:00	08-06	0.25	12274.00	12303.00	29.00	116.00	N/A	6000.00	30.0	40.00	2800.00	2300.00	Curve
Slide	08-06	06:00	06:30	08-06	0.5	12303.00	12348.00	45.00	90.00	0.0	600.00	N/A	50.00	2850.00	2300.00	Curve
Rotate	08-06	06:30	06:40	08-06	0.17	12348.00	12363.00	15.00	90.00	N/A						Curve, Lateral



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Slide/Rotate Report - BHA #5 (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	08-07	00:50	01:05	08-07	0.25	12363.00	12400.00	37.00	148.00	N/A	600.00	40.0	40.00	3650.00	2955.00	Lateral
Rotate	08-07	01:10	01:50	08-07	0.67	12400.00	12489.00	89.00	133.50	N/A	600.00	40.0	40.00	3650.00	2955.00	Lateral
Slide	08-07	01:55	02:05	08-07	0.17	12489.00	12499.00	10.00	60.00	150.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	02:05	02:30	08-07	0.42	12499.00	12578.00	79.00	189.60	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	02:35	03:05	08-07	0.5	12578.00	12668.00	90.00	180.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	03:10	03:35	08-07	0.42	12668.00	12758.00	90.00	216.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	03:40	04:10	08-07	0.5	12758.00	12847.00	89.00	178.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Slide	08-07	04:15	04:25	08-07	0.17	12847.00	12867.00	20.00	120.00	180.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	04:25	04:55	08-07	0.5	12867.00	12937.00	70.00	140.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	05:00	05:20	08-07	0.33	12937.00	13026.00	89.00	267.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	05:25	05:30	08-07	0.08	13026.00	13032.00	6.00	72.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Slide	08-07	05:30	05:40	08-07	0.17	13032.00	13042.00	10.00	60.00	145.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	05:40	05:55	08-07	0.25	13042.00	13116.00	74.00	296.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	06:00	06:30	08-07	0.5	13116.00	13206.00	90.00	180.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	06:35	06:45	08-07	0.17	13206.00	13220.00	14.00	84.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Slide	08-07	07:05	07:20	08-07	0.25	13220.00	13240.00	20.00	80.00	70.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	07:20	07:40	08-07	0.33	13240.00	13295.00	55.00	165.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	07:45	08:20	08-07	0.58	13295.00	13385.00	90.00	154.29	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	08:25	08:50	08-07	0.42	13385.00	13474.00	89.00	213.60	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	08:55	09:05	08-07	0.17	13474.00	13488.00	14.00	84.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Slide	08-07	09:05	09:20	08-07	0.25	13488.00	13504.00	16.00	64.00	135.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	09:30	09:50	08-07	0.33	13504.00	13564.00	60.00	180.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	09:55	10:15	08-07	0.33	13564.00	13654.00	90.00	270.00	N/A	650.00	40.0	42.00	4200.00	3300.00	Lateral
Rotate	08-07	10:20	10:25	08-07	0.08	13654.00	13668.00	14.00	168.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-07	10:25	10:50	08-07	0.42	13668.00	13696.00	28.00	67.20	80.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	10:50	11:05	08-07	0.25	13696.00	13743.00	47.00	188.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	11:10	11:35	08-07	0.42	13743.00	13833.00	90.00	216.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	11:40	12:00	08-07	0.33	13833.00	13923.00	90.00	270.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	12:05	12:15	08-07	0.17	13923.00	13937.00	14.00	84.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-07	12:15	12:35	08-07	0.33	13937.00	13959.00	22.00	66.00	150.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	12:35	12:50	08-07	0.25	13959.00	14012.00	53.00	212.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	12:55	13:05	08-07	0.17	14012.00	14024.00	12.00	72.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-07	13:05	13:20	08-07	0.25	14024.00	14045.00	21.00	84.00	115.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	13:20	13:30	08-07	0.17	14045.00	14102.00	57.00	342.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	13:35	14:05	08-07	0.5	14102.00	14192.00	90.00	180.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	14:10	14:15	08-07	0.08	14192.00	14208.00	16.00	192.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-07	14:15	14:35	08-07	0.33	14208.00	14233.00	25.00	75.00	150.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	14:35	14:45	08-07	0.17	14233.00	14282.00	49.00	294.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	14:50	15:20	08-07	0.5	14282.00	14371.00	89.00	178.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	15:25	15:50	08-07	0.42	14371.00	14461.00	90.00	216.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	15:55	16:20	08-07	0.42	14461.00	14551.00	90.00	216.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	16:25	16:40	08-07	0.25	14551.00	14565.00	14.00	56.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-07	16:40	17:00	08-07	0.33	14565.00	14593.00	28.00	84.00	160.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	17:00	17:15	08-07	0.25	14593.00	14640.00	47.00	188.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	17:20	17:45	08-07	0.42	14640.00	14730.00	90.00	216.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	17:50	18:20	08-07	0.5	14730.00	14820.00	90.00	180.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	18:25	18:55	08-07	0.5	14820.00	14909.00	89.00	178.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	19:00	19:05	08-07	0.08	14909.00	14918.00	9.00	108.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-07	19:05	19:20	08-07	0.25	14918.00	14943.00	25.00	100.00	110.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	19:20	19:35	08-07	0.25	14943.00	14999.00	56.00	224.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	19:40	20:00	08-07	0.33	14999.00	15089.00	90.00	270.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	20:05	20:20	08-07	0.25	15089.00	15178.00	89.00	356.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	20:25	21:00	08-07	0.58	15178.00	15268.00	90.00	154.29	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	21:05	21:45	08-07	0.67	15268.00	15358.00	90.00	135.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-07	21:50	22:15	08-07	0.42	15358.00	15398.00	40.00	96.00	95.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-07	22:15	22:35	08-07	0.33	15398.00	15447.00	49.00	147.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	22:40	23:20	08-07	0.67	15447.00	15537.00	90.00	135.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-07	23:25	00:00	08-08	0.58	15537.00	15626.00	89.00	152.57	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	00:05	00:30	08-08	0.42	15626.00	15716.00	90.00	216.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	00:35	00:50	08-08	0.25	15716.00	15741.00	25.00	100.00	120.0	650.00	N/A	50.00	3900.00	3500.00	Lateral
Rotate	08-08	00:50	01:15	08-08	0.42	15741.00	15805.00	64.00	153.60	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	01:20	01:50	08-08	0.5	15805.00	15895.00	90.00	180.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	01:55	02:25	08-08	0.5	15895.00	15985.00	90.00	180.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	02:30	03:00	08-08	0.5	15985.00	16074.00	89.00	178.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral

Rotate	08-08	03:05	03:35	08-08	0.5	16074.00	16164.00	90.00	180.00	N/A	650.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	03:40	04:10	08-08	0.5	16164.00	16253.00	89.00	178.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	04:15	04:40	08-08	0.42	16253.00	16342.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	04:45	05:15	08-08	0.5	16342.00	16372.00	30.00	60.00	110.0	678.00	N/A	50.00	4300.00	3900.00	Lateral
Rotate	08-08	05:15	05:30	08-08	0.25	16372.00	16432.00	60.00	240.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	05:40	06:05	08-08	0.42	16432.00	16521.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	06:10	06:35	08-08	0.42	16521.00	16611.00	90.00	216.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	06:40	06:45	08-08	0.08	16611.00	16625.00	14.00	168.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	06:45	07:25	08-08	0.67	16625.00	16653.00	28.00	42.00	80.0	678.00	N/A	50.00	4300.00	3900.00	Lateral
Rotate	08-08	07:25	07:40	08-08	0.25	16653.00	16700.00	47.00	188.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	07:45	08:15	08-08	0.5	16700.00	16790.00	90.00	180.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	08:20	08:45	08-08	0.42	16790.00	16879.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	08:50	09:00	08-08	0.17	16879.00	16892.00	13.00	78.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	09:00	09:20	08-08	0.33	16892.00	16920.00	28.00	84.00	170.0	678.00	N/A	50.00	4300.00	3900.00	Lateral
Rotate	08-08	09:20	09:35	08-08	0.25	16920.00	16969.00	49.00	196.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	09:40	10:05	08-08	0.42	16969.00	17058.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	10:10	10:35	08-08	0.42	17058.00	17148.00	90.00	216.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	10:40	11:10	08-08	0.5	17148.00	17238.00	90.00	180.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	11:15	11:20	08-08	0.08	17238.00	17250.00	12.00	144.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	11:20	11:50	08-08	0.5	17250.00	17285.00	35.00	70.00	90.0	678.00	N/A	50.00	4300.00	3900.00	Lateral
Rotate	08-08	11:50	12:05	08-08	0.25	17285.00	17327.00	42.00	168.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	12:10	12:30	08-08	0.33	17327.00	17417.00	90.00	270.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	12:35	12:45	08-08	0.17	17417.00	17433.00	16.00	96.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	12:45	13:15	08-08	0.5	17433.00	17464.00	31.00	62.00	150.0	678.00	N/A	50.00	4300.00	3900.00	Lateral
Rotate	08-08	13:15	13:25	08-08	0.17	17464.00	17506.00	42.00	252.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	13:30	13:50	08-08	0.33	17506.00	17596.00	90.00	270.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	13:55	14:20	08-08	0.42	17596.00	17685.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	14:25	14:55	08-08	0.5	17685.00	17775.00	90.00	180.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	15:00	15:10	08-08	0.17	17775.00	17792.00	17.00	102.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	15:10	15:30	08-08	0.33	17792.00	17810.00	18.00	54.00	150.0		N/A				Lateral
Rotate	08-08	15:30	15:50	08-08	0.33	17810.00	17865.00	55.00	165.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	15:55	16:20	08-08	0.42	17865.00	17954.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	16:40	17:10	08-08	0.5	17954.00	18044.00	90.00	180.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	17:15	17:20	08-08	0.08	18044.00	18057.00	13.00	156.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	17:20	17:50	08-08	0.5	18057.00	18092.00	35.00	70.00	75.0		N/A				Lateral
Rotate	08-08	17:50	18:05	08-08	0.25	18092.00	18133.00	41.00	164.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	18:10	18:35	08-08	0.42	18133.00	18223.00	90.00	216.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	18:40	19:10	08-08	0.5	18223.00	18312.00	89.00	178.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	19:15	19:30	08-08	0.25	18312.00	18337.00	25.00	100.00	150.0	682.00	N/A	55.00	4500.00	4100.00	Lateral
Rotate	08-08	19:30	20:00	08-08	0.5	18337.00	18402.00	65.00	130.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	20:05	20:30	08-08	0.42	18402.00	18491.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	20:35	21:00	08-08	0.42	18491.00	18580.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-08	21:10	21:30	08-08	0.33	18580.00	18605.00	25.00	75.00	175.0	682.00	N/A	55.00	4500.00	4100.00	Lateral
Rotate	08-08	21:30	21:50	08-08	0.33	18605.00	18670.00	65.00	195.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	21:55	22:25	08-08	0.5	18670.00	18760.00	90.00	180.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	22:30	23:00	08-08	0.5	18760.00	18850.00	90.00	180.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	23:05	23:25	08-08	0.33	18850.00	18939.00	89.00	267.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-08	23:30	23:55	08-08	0.42	18939.00	19028.00	89.00	213.60	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	00:00	00:25	08-09	0.42	19028.00	19118.00	90.00	216.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-09	00:30	01:05	08-09	0.58	19118.00	19157.00	39.00	66.86	150.0	682.00	N/A	55.00	4500.00	4100.00	Lateral
Rotate	08-09	01:05	01:25	08-09	0.33	19157.00	19207.00	50.00	150.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	01:30	02:00	08-09	0.5	19207.00	19297.00	90.00	180.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	02:05	02:35	08-09	0.5	19297.00	19387.00	90.00	180.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	02:40	03:15	08-09	0.58	19387.00	19476.00	89.00	152.57	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	03:20	03:50	08-09	0.5	19476.00	19565.00	89.00	178.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	04:05	04:25	08-09	0.33	19565.00	19655.00	90.00	270.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Slide	08-09	04:30	05:10	08-09	0.67	19655.00	19690.00	35.00	52.50	160.0	682.00	N/A	55.00	4500.00	4100.00	Lateral
Rotate	08-09	05:10	05:30	08-09	0.33	19690.00	19744.00	54.00	162.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	05:35	06:20	08-09	0.75	19744.00	19834.00	90.00	120.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	06:25	07:05	08-09	0.67	19834.00	19923.00	89.00	133.50	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	07:10	07:55	08-09	0.75	19923.00	20013.00	90.00	120.00	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral
Rotate	08-09	08:00	08:40	08-09	0.67	20013.00	20104.00	91.00	136.50	N/A	677.00	40.0	45.00	4700.00	3900.00	Lateral



Daily Reports

Dagger State Com 608H (WT-21-066)

2021-05-26 to 2021-08-12

Lea, New Mexico, US (32.45, 103.62)

	Job Number WT-21-066	Operator Advance Energy Partners		Rig Name Nabors X50
	Start Date 2021-05-26	Well Name Dagger State Com 608H		Legal Well Name AFE Dagger State Com 608H
	Play Delaware Basin	State/Province and Country New Mexico, US	County Lea	Company Man

Wednesday, May 26 00:00 - 23:59 (Day 1 of 20) **Billing:** \$1,000.00 (\$95,663.76 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
No BHAs	

Directional Activities								Comments/Details
Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	
Standby	15	05-26	00:00	05:00	05-26			Standby- Rig Move

MWD Activities	
No Activities	

	Job Number WT-21-066	Operator Advance Energy Partners		Rig Name Nabors X50
	Start Date 2021-05-26	Well Name Dagger State Com 608H		Legal Well Name AFE Dagger State Com 608H
	Play Delaware Basin	State/Province and Country New Mexico, US	County Lea	Company Man

Thursday, May 27 00:00 - 23:59 (Day 2 of 20) **Billing:** \$1,000.00 (\$95,663.76 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
No BHAs	

Directional Activities								
Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Standby	15	05-27	00:00	05:00	05-27			Standby- Rig Move

MWD Activities								
No Activities								

	Job Number WT-21-066	Operator Advance Energy Partners		Rig Name Nabors X50
	Start Date 2021-05-26	Well Name Dagger State Com 608H		Legal Well Name AFE Dagger State Com 608H
	Play Delaware Basin	State/Province and Country New Mexico, US	County Lea	Company Man

Friday, May 28 00:00 - 23:59 (Day 3 of 20) Billing: \$11,600.00 (\$95,663.76 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

No BHAs

Directional Activities								
Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Standby	15	05-28	00:00	00:00	05-29			Standby- Rig Move

MWD Activities								
No Activities								



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Saturday, May 29 00:00 - 23:59 (Day 4 of 20)

Billing: \$9,100.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	120.00	Downhole Hours	10.50	Rotating WOB (klbs)	10.00 - 25.00
Bit Depth (ft)	858.00	Drilling Hours	3.33	Sliding WOB (klbs)	
Bottom Hole Depth (ft)	858.00	Hours Circulating	0.00	Rotating SPM	190.00 - 275.00
Total Distance (ft)	738.00	Hours Sliding	0.00	Sliding SPM	
Distance Rotated (ft)	738.00	Hours Rotating	3.33	Motor RPM	60.00 - 140.00
Distance Slid (ft)	0.00			Surface RPM	40.00 - 70.00
Inclination In	0.75			Flow Rate (gpm)	550.00 - 800.00
Inclination Out	0.62			On Bottom Pressure (psi)	1000.00 - 2600.00
Azimuth In	186.96	% Hours Rotating	100%	Off Bottom Pressure (psi)	500.00 - 1850.00
Azimuth Out	146.18	% Hours Sliding	0%		
AVG Total ROP (ft/h)	222.00	% Distance Sliding	0%		
AVG Rotating ROP (ft/h)	222.00	% Distance Rotating	100%		
AVG Sliding ROP (ft/h)	0.00				

Personnel

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

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

Date In: May 29, 2021, 13:30 Date Out: May 30, 2021, 10:30

Bit Details		Motor Details	Directional Comments
OD (in)	17.500	Size (in)	8.0
Vendor	Varel	Lobe/Stage	7/8, 5.9
S/N	4012197	Bend Angle	1.75
Nozzles	9x12's	Speed (rev/gal)	0.15
Total Flow Area (in ²)	0.994	Wear Pad OD (in)	8.313
Drilling Hours for Day	3.33	Bit Distances	
Total Drilled for Day (ft)	738.00	Survey (Bit to Survey):	66.00 ft
Drilling Hours for BHA	8.00		
Total Drilled for BHA (ft)	1472.00		
			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: VTD619SHX, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.40, Size (in): 17.50	Varel	4012197	6 5/8" Reg Pin			17.500		1.50	1.50
Mud Motor Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9	Butch's	BDT-800-025	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: NM DAO UBHO, 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	05-28	00:00	00:00	05-29			Standby- Rig Move
Standby	15	05-29	00:00	13:30	05-29			Standby- Finish Rigging up

Pick Up BHA	64	05-29	13:30	14:50	05-29			P/U BHA #1
Other	16	05-29	14:50	17:20	05-29			R/U cellar pumps & hoses
Rotary Drill	1	05-29	17:20	18:15	05-29	120.00	298.00	Pressure On (psi): 1000.00, Pressure Off (psi): 600.00, Weight On Bit (klbs): 10.00, Surface RPM: 40, Surface Torque (ft lbf): 15000.00, Flow Rate (gpm): 550.00, Strokes Per Minute: 190.00
Survey	46	05-29	18:15	18:20	05-29	298.00	298.00	Inclination (°): 0.750, Azimuth (°): 186.960, TVD (ft): 231.99, Dogleg (°/100 ft): 0.32, Sensor Depth (ft): 232.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-29	18:20	19:00	05-29	298.00	485.00	Pressure On (psi): 1400.00, Pressure Off (psi): 500.00, Weight On Bit (klbs): 10.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 550.00, Strokes Per Minute: 190.00
Survey	46	05-29	19:00	19:05	05-29	485.00	485.00	Inclination (°): 0.700, Azimuth (°): 129.040, TVD (ft): 418.98, Dogleg (°/100 ft): 0.38, Sensor Depth (ft): 419.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-29	19:05	19:35	05-29	485.00	578.00	
Survey	46	05-29	19:35	19:40	05-29	578.00	578.00	Inclination (°): 0.920, Azimuth (°): 123.940, TVD (ft): 511.97, Dogleg (°/100 ft): 0.25, Sensor Depth (ft): 512.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-29	19:40	20:10	05-29	578.00	671.00	Pressure On (psi): 2400.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 790.00, Strokes Per Minute: 240.00
Survey	46	05-29	20:10	20:15	05-29	671.00	671.00	Inclination (°): 0.570, Azimuth (°): 139.760, TVD (ft): 604.96, Dogleg (°/100 ft): 0.43, Sensor Depth (ft): 605.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-29	20:15	20:40	05-29	671.00	780.00	Pressure On (psi): 2400.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 790.00, Strokes Per Minute: 240.00
Survey	46	05-29	20:40	20:45	05-29	765.00	765.00	Inclination (°): 0.530, Azimuth (°): 125.170, TVD (ft): 698.96, Dogleg (°/100 ft): 0.15, Sensor Depth (ft): 699.00, Bit To Sensor (ft): 66.00
Rig Repair	14	05-29	20:45	22:50	05-29			Work on cellar Pumps
Rotary Drill	1	05-29	22:50	23:10	05-29	780.00	858.00	Pressure On (psi): 2600.00, Pressure Off (psi): 1850.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 25000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00
Survey	46	05-29	23:10	23:20	05-29	858.00	858.00	Inclination (°): 0.620, Azimuth (°): 146.180, TVD (ft): 791.95, Dogleg (°/100 ft): 0.24, Sensor Depth (ft): 792.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-29	23:20	00:10	05-30	858.00	1045.00	Pressure On (psi): 2600.00, Pressure Off (psi): 1850.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 25000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Sunday, May 30 00:00 - 23:59 (Day 5 of 20)

Billing: \$5,200.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	858.00	Downhole Hours	10.50	Rotating WOB (klbs)	25.00 - 54.00
Bit Depth (ft)	1592.00	Drilling Hours	4.67	Sliding WOB (klbs)	
Bottom Hole Depth (ft)	1592.00	Hours Circulating	1.92	Rotating SPM	273.00 - 275.00
Total Distance (ft)	734.00	Hours Sliding	0.00	Sliding SPM	
Distance Rotated (ft)	734.00	Hours Rotating	4.67	Motor RPM	60.00 - 140.00
Distance Slid (ft)	0.00			Surface RPM	50.00 - 70.00
Inclination In	0.97			Flow Rate (gpm)	793.00 - 800.00
Inclination Out	2.33			On Bottom Pressure (psi)	2301.00 - 3000.00
Azimuth In	181.25	% Hours Rotating	100%	Off Bottom Pressure (psi)	1504.00 - 2500.00
Azimuth Out	210.95	% Hours Sliding	0%		
AVG Total ROP (ft/h)	157.29	% Distance Sliding	0%		
AVG Rotating ROP (ft/h)	157.29	% Distance Rotating	100%		
AVG Sliding ROP (ft/h)	0.00				

Personnel

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

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

Date In: May 29, 2021, 13:30 Date Out: May 30, 2021, 10:30

Bit Details		Motor Details	Directional Comments
OD (in)	17.500	Size (in)	8.0
Vendor	Varel	Lobe/Stage	7/8, 5.9
S/N	4012197	Bend Angle	1.75
Nozzles	9x12's	Speed (rev/gal)	0.15
Total Flow Area (in ²)	0.994	Wear Pad OD (in)	8.313
Drilling Hours for Day	4.67	Bit Distances	
Total Drilled for Day (ft)	734.00	Survey (Bit to Survey):	66.00 ft
Drilling Hours for BHA	8.00		
Total Drilled for BHA (ft)	1472.00		
			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: VTD619SHX, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.40, Size (in): 17.50	Varel	4012197	6 5/8" Reg Pin			17.500		1.50	1.50
Mud Motor Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9	Butch's	BDT-800-025	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: NM DAO UBHO, 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
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Rotary Drill	1	05-29	23:20	00:10	05-30	858.00	1045.00	Pressure On (psi): 2600.00, Pressure Off (psi): 1850.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 25000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00
Survey	46	05-30	00:10	00:20	05-30	1045.00	1045.00	Inclination (°): 0.970, Azimuth (°): 181.250, TVD (ft): 978.94, Dogleg (°/100 ft): 0.31, Sensor Depth (ft): 979.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-30	00:20	00:35	05-30	1045.00	1112.00	Pressure On (psi): 2600.00, Pressure Off (psi): 1850.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 25000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00
Rig Repair	14	05-30	00:35	01:20	05-30			Work on Trnsfer Pump
Survey	46	05-30	01:20	01:30	05-30	1138.00	1138.00	Inclination (°): 1.050, Azimuth (°): 200.410, TVD (ft): 1071.92, Dogleg (°/100 ft): 0.37, Sensor Depth (ft): 1072.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-30	01:30	02:10	05-30	1112.00	1231.00	Pressure On (psi): 2600.00, Pressure Off (psi): 2000.00, Weight On Bit (klbs): 40.00, Surface RPM: 70, Surface Torque (ft lbf): 25000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00
Survey	46	05-30	02:10	02:20	05-30	1231.00	1231.00	Inclination (°): 1.190, Azimuth (°): 191.000, TVD (ft): 1164.91, Dogleg (°/100 ft): 0.25, Sensor Depth (ft): 1165.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-30	02:20	02:55	05-30	1231.00	1325.00	
Survey	46	05-30	02:55	03:00	05-30	1325.00	1325.00	Inclination (°): 1.710, Azimuth (°): 203.310, TVD (ft): 1258.88, Dogleg (°/100 ft): 0.64, Sensor Depth (ft): 1259.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-30	03:00	03:35	05-30	1325.00	1414.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2500.00, Weight On Bit (klbs): 50.00, Surface RPM: 70, Surface Torque (ft lbf): 25000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00
Survey	46	05-30	03:35	03:40	05-30	1414.00	1414.00	Inclination (°): 1.710, Azimuth (°): 211.130, TVD (ft): 1347.84, Dogleg (°/100 ft): 0.26, Sensor Depth (ft): 1348.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-30	03:40	04:15	05-30	1414.00	1504.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2500.00, Weight On Bit (klbs): 50.00, Surface RPM: 70, Surface Torque (ft lbf): 25000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00
Survey	46	05-30	04:15	04:20	05-30	1504.00	1504.00	Inclination (°): 2.020, Azimuth (°): 205.150, TVD (ft): 1437.79, Dogleg (°/100 ft): 0.41, Sensor Depth (ft): 1438.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-30	04:20	05:15	05-30	1504.00	1577.00	Pressure On (psi): 2301.00, Pressure Off (psi): 1504.00, Weight On Bit (klbs): 54.00, Surface RPM: 50, Surface Torque (ft lbf): 14108.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273.00
Survey	46	05-30	05:15	05:20	05-30	1577.00	1577.00	Inclination (°): 2.330, Azimuth (°): 210.950, TVD (ft): 1510.74, Dogleg (°/100 ft): 0.52, Sensor Depth (ft): 1511.00, Bit To Sensor (ft): 66.00
Circulating	3	05-30	05:20	06:15	05-30			Circulate
Rotary Drill	1	05-30	06:15	06:30	05-30	1577.00	1592.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2500.00, Weight On Bit (klbs): 50.00, Surface RPM: 70, Surface Torque (ft lbf): 25000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00
Circulating	3	05-30	06:30	07:30	05-30			Circulate
Pooh	7	05-30	07:30	09:35	05-30			POOH - TD of section
Pooh	7	05-30	09:35	10:30	05-30			POOH - L/D BHA #1
Standby	15	05-30	10:30	00:00	05-31			Standby while Run Casing & Cementing
MWD Activities								
No Activities								



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Monday, May 31 00:00 - 23:59 (Day 6 of 20)

Billing: \$5,200.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	1592.00	Downhole Hours	13.50	Rotating WOB (klbs)	52.00 - 60.00
Bit Depth (ft)	3742.00	Drilling Hours	7.50	Sliding WOB (klbs)	20.00 - 25.00
Bottom Hole Depth (ft)	3742.00	Hours Circulating	1.67	Rotating SPM	273.00 - 310.00
Total Distance (ft)	2150.00	Hours Sliding	1.00	Sliding SPM	273.00 - 310.00
Distance Rotated (ft)	2053.00	Hours Rotating	6.50	Motor RPM	60.00 - 140.00
Distance Slid (ft)	97.00			Surface RPM	50.00 - 70.00
Inclination In	2.29			Flow Rate (gpm)	793.00 - 900.00
Inclination Out	0.26			On Bottom Pressure (psi)	2100.00 - 3100.00
Azimuth In	214.21	% Hours Rotating	87%	Off Bottom Pressure (psi)	1504.00 - 2300.00
Azimuth Out	114.36	% Hours Sliding	13%		
AVG Total ROP (ft/h)	279.48	% Distance Sliding	5%		
AVG Rotating ROP (ft/h)	304.36	% Distance Rotating	95%		
AVG Sliding ROP (ft/h)	97.00				

Personnel

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

BHA #2 - Intermediate 12.25"

Date In: May 31, 2021, 10:30 Date Out: Jun 1, 2021, 21:30

Bit Details		Motor Details	Directional Comments
OD (in)	12.250	Size (in)	8.0
Vendor	REED	Lobe/Stage	7/8, 5.9
S/N	A270957	Bend Angle	1.75
Nozzles	6x16's	Speed (rev/gal)	0.15
Total Flow Area (in ²)	1.178	Wear Pad OD (in)	8.313
Drilling Hours for Day	7.50	Bit Distances	
Total Drilled for Day (ft)	2150.00	Survey (Bit to Survey):	66.00 ft
Drilling Hours for BHA	14.25		
Total Drilled for BHA (ft)	3919.00		
			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: <i>TKC66</i> , Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in): <i>0.40</i> , Size (in): <i>12.25</i>	REED	A270957	6 5/8" Reg Pin			12.250		1.50	1.50
Mud Motor Description: <i>8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS</i> , Size (in): <i>8.00</i> , Bend Angle (°): <i>1.75</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>5.9</i>	Butch's	BDT-800-025	6 5/8" Reg Box	6 5/8" Reg Box		8.000		37.06	38.56
Stabilizer Description: <i>12" NT Stabilizer</i>	JAO	JAO 12379	6 5/8" Reg Box	6 5/8" Reg Pin	3.000	8.250		6.84	45.40
UBHO Sub Description: <i>NM DAO UBHO</i> , Material: <i>Non-Magnetic</i>	AIM	800613	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.000		3.00	48.40
Drill Collar Description: <i>NMDC (MWD Tool)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	AIM	DY80013MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.25	78.65
Drill Collar Description: <i>NMDC (Spacer)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	AIM	DY800009MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.21	108.86
Crossover Sub Description: <i>X-O SUB</i> , Material: <i>Steel</i>	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	05-30	10:30	00:00	05-31			Standby while Run Casing & Cementing
Standby	15	05-31	00:00	10:30	05-31			Standby while N/U BOP's & Test

Change BHA	6	05-31	10:30	11:15	05-31			P/U BHA # 2
TIH	8	05-31	11:15	12:30	05-31			TIH W/ BHA 2
Drilling Cement	17	05-31	12:30	14:10	05-31	1592.00	1592.00	Drilling Cement and Float Equipment F /1504' - T/ 1592' [GPM = 500, RPM = 40, WOB = 10, DIFF = 200]
Rotary Drill	1	05-31	14:10	15:00	05-31	1592.00	1684.00	Pressure On (psi): 2301.00, Pressure Off (psi): 1504.00, Weight On Bit (klbs): 54.00, Surface RPM: 50, Surface Torque (ft lbf): 14108.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273.00
Survey	46	05-31	15:00	15:05	05-31	1684.00	1684.00	Inclination (°): 2.290, Azimuth (°): 214.210, TVD (ft): 1617.65, Dogleg (%/100 ft): 0.13, Sensor Depth (ft): 1618.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	15:05	15:10	05-31	1684.00	1700.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1525.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273.00
Slide Drill	2	05-31	15:10	15:20	05-31	1700.00	1720.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1525.00, Weight On Bit (klbs): 25.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273, Toolface: 340, Toolface Type: magnetic
Rotary Drill	1	05-31	15:20	15:30	05-31	1720.00	1773.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1525.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273.00
Survey	46	05-31	15:30	15:35	05-31	1773.00	1773.00	Inclination (°): 1.450, Azimuth (°): 244.000, TVD (ft): 1706.60, Dogleg (%/100 ft): 1.41, Sensor Depth (ft): 1707.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	15:35	15:55	05-31	1773.00	1863.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1525.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273.00
Survey	46	05-31	15:55	16:00	05-31	1863.00	1863.00	Inclination (°): 1.320, Azimuth (°): 286.360, TVD (ft): 1796.58, Dogleg (%/100 ft): 1.12, Sensor Depth (ft): 1797.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	16:00	16:15	05-31	1863.00	1952.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1525.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273.00
Survey	46	05-31	16:15	16:20	05-31	1952.00	1952.00	Inclination (°): 1.320, Azimuth (°): 283.730, TVD (ft): 1885.55, Dogleg (%/100 ft): 0.07, Sensor Depth (ft): 1886.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	16:20	16:35	05-31	1952.00	2042.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1525.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273.00
Survey	46	05-31	16:35	16:40	05-31	2042.00	2042.00	Inclination (°): 1.140, Azimuth (°): 283.990, TVD (ft): 1975.53, Dogleg (%/100 ft): 0.20, Sensor Depth (ft): 1976.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	16:40	16:50	05-31	2042.00	2131.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1525.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 793.00, Strokes Per Minute: 273.00
Survey	46	05-31	16:50	16:55	05-31	2131.00	2131.00	Inclination (°): 1.140, Azimuth (°): 283.730, TVD (ft): 2064.52, Dogleg (%/100 ft): 0.01, Sensor Depth (ft): 2065.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	16:55	17:10	05-31	2131.00	2221.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	17:10	17:15	05-31	2221.00	2221.00	Inclination (°): 1.050, Azimuth (°): 283.900, TVD (ft): 2154.50, Dogleg (%/100 ft): 0.10, Sensor Depth (ft): 2155.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	17:15	17:25	05-31	2221.00	2310.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	17:25	17:30	05-31	2310.00	2310.00	Inclination (°): 0.970, Azimuth (°): 291.110, TVD (ft): 2243.49, Dogleg (%/100 ft): 0.17, Sensor Depth (ft): 2244.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	17:30	17:40	05-31	2310.00	2400.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	17:40	17:45	05-31	2400.00	2400.00	Inclination (°): 0.840, Azimuth (°): 290.230, TVD (ft): 2333.47, Dogleg (%/100 ft): 0.15, Sensor Depth (ft): 2334.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	17:45	18:00	05-31	2400.00	2489.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	18:00	18:05	05-31	2489.00	2489.00	Inclination (°): 0.700, Azimuth (°): 313.080, TVD (ft): 2422.47, Dogleg (%/100 ft): 0.38, Sensor Depth (ft): 2423.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	18:05	18:15	05-31	2489.00	2579.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	18:15	18:20	05-31	2579.00	2579.00	Inclination (°): 0.790, Azimuth (°): 327.670, TVD (ft): 2512.46, Dogleg (%/100 ft): 0.23, Sensor Depth (ft): 2513.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	18:20	18:35	05-31	2579.00	2668.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	18:35	18:40	05-31	2668.00	2668.00	Inclination (°): 0.700, Azimuth (°): 350.350, TVD (ft): 2601.45, Dogleg (%/100 ft): 0.34, Sensor Depth (ft): 2602.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	18:40	18:50	05-31	2668.00	2757.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	18:50	18:55	05-31	2757.00	2757.00	Inclination (°): 0.970, Azimuth (°): 21.290, TVD (ft): 2690.44, Dogleg (%/100 ft): 0.58, Sensor Depth (ft): 2691.00, Bit To Sensor (ft): 66.00

Rotary Drill	1	05-31	18:55	19:05	05-31	2757.00	2847.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	19:05	19:10	05-31	2847.00	2847.00	Inclination (°): 1.450, Azimuth (°): 43.430, TVD (ft): 2780.42, Dogleg (°/100 ft): 0.74, Sensor Depth (ft): 2781.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	19:10	19:40	05-31	2847.00	3026.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	19:40	19:45	05-31	3026.00	3026.00	Inclination (°): 2.510, Azimuth (°): 72.530, TVD (ft): 2959.32, Dogleg (°/100 ft): 0.80, Sensor Depth (ft): 2960.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	19:45	19:50	05-31	3026.00	3038.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Slide Drill	2	05-31	19:50	20:15	05-31	3038.00	3075.00	Pressure On (psi): 2800.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 900.00, Strokes Per Minute: 310, Toolface: 250, Toolface Type: magnetic
Rotary Drill	1	05-31	20:15	20:20	05-31	3075.00	3115.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 52.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	20:20	20:25	05-31	3115.00	3115.00	Inclination (°): 2.420, Azimuth (°): 68.390, TVD (ft): 3048.24, Dogleg (°/100 ft): 0.22, Sensor Depth (ft): 3049.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	20:25	20:45	05-31	3115.00	3205.00	Pressure On (psi): 3000.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 17000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	20:45	20:50	05-31	3205.00	3205.00	Inclination (°): 2.510, Azimuth (°): 56.270, TVD (ft): 3138.15, Dogleg (°/100 ft): 0.59, Sensor Depth (ft): 3139.00, Bit To Sensor (ft): 66.00
Slide Drill	2	05-31	20:50	21:15	05-31	3205.00	3245.00	Pressure On (psi): 2600.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 900.00, Strokes Per Minute: 310, Toolface: 250, Toolface Type: magnetic
Rotary Drill	1	05-31	21:15	21:25	05-31	3245.00	3294.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 900.00, Strokes Per Minute: 310.00
Survey	46	05-31	21:25	21:30	05-31	3294.00	3294.00	Inclination (°): 1.140, Azimuth (°): 35.520, TVD (ft): 3227.11, Dogleg (°/100 ft): 1.68, Sensor Depth (ft): 3228.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	21:30	21:45	05-31	3294.00	3384.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	21:45	21:50	05-31	3384.00	3384.00	Inclination (°): 0.400, Azimuth (°): 1.510, TVD (ft): 3317.10, Dogleg (°/100 ft): 0.93, Sensor Depth (ft): 3318.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	21:50	22:35	05-31	3384.00	3563.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	22:35	22:40	05-31	3563.00	3563.00	Inclination (°): 0.530, Azimuth (°): 106.100, TVD (ft): 3496.09, Dogleg (°/100 ft): 0.41, Sensor Depth (ft): 3497.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	22:40	23:20	05-31	3563.00	3742.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	05-31	23:20	23:25	05-31	3742.00	3742.00	Inclination (°): 0.260, Azimuth (°): 114.360, TVD (ft): 3675.09, Dogleg (°/100 ft): 0.15, Sensor Depth (ft): 3676.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	05-31	23:25	00:15	06-01	3742.00	3921.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Tuesday, Jun 01 00:00 - 23:59 (Day 7 of 20)

Billing: \$7,162.88 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	3742.00	Downhole Hours	21.50	Rotating WOB (klbs)	60.00 - 60.00
Bit Depth (ft)	5511.00	Drilling Hours	6.75	Sliding WOB (klbs)	
Bottom Hole Depth (ft)	5511.00	Hours Circulating	8.08	Rotating SPM	308.00 - 308.00
Total Distance (ft)	1769.00	Hours Sliding	0.00	Sliding SPM	
Distance Rotated (ft)	1769.00	Hours Rotating	6.75	Motor RPM	60.00 - 140.00
Distance Slid (ft)	0.00			Surface RPM	70.00 - 70.00
Inclination In	0.18			Flow Rate (gpm)	895.00 - 895.00
Inclination Out	1.23			On Bottom Pressure (psi)	3100.00 - 3100.00
Azimuth In	71.73	% Hours Rotating	100%	Off Bottom Pressure (psi)	2250.00 - 2250.00
Azimuth Out	29.11	% Hours Sliding	0%		
AVG Total ROP (ft/h)	262.07	% Distance Sliding	0%		
AVG Rotating ROP (ft/h)	262.07	% Distance Rotating	100%		
AVG Sliding ROP (ft/h)	0.00				

Personnel

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

BHA #2 - Intermediate 12.25"

Date In: May 31, 2021, 10:30 Date Out: Jun 1, 2021, 21:30

Bit Details		Motor Details	Directional Comments
OD (in)	12.250	Size (in)	8.0
Vendor	REED	Lobe/Stage	7/8, 5.9
S/N	A270957	Bend Angle	1.75
Nozzles	6x16's	Speed (rev/gal)	0.15
Total Flow Area (in ²)	1.178	Wear Pad OD (in)	8.313
Drilling Hours for Day	6.75	Bit Distances	
Total Drilled for Day (ft)	1769.00	Survey (Bit to Survey):	66.00 ft
Drilling Hours for BHA	14.25		
Total Drilled for BHA (ft)	3919.00		
			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: <i>TKC66</i> , Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in): <i>0.40</i> , Size (in): <i>12.25</i>	REED	A270957	6 5/8" Reg Pin			12.250		1.50	1.50
Mud Motor Description: <i>8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS</i> , Size (in): <i>8.00</i> , Bend Angle (°): <i>1.75</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>5.9</i>	Butch's	BDT-800-025	6 5/8" Reg Box	6 5/8" Reg Box		8.000		37.06	38.56
Stabilizer Description: <i>12" NT Stabilizer</i>	JAO	JAO 12379	6 5/8" Reg Box	6 5/8" Reg Pin	3.000	8.250		6.84	45.40
UBHO Sub Description: <i>NM DAO UBHO</i> , Material: <i>Non-Magnetic</i>	AIM	800613	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.000		3.00	48.40
Drill Collar Description: <i>NMDC (MWD Tool)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	AIM	DY80013MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.25	78.65
Drill Collar Description: <i>NMDC (Spacer)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	AIM	DY800009MJ	6 5/8" Reg Box	6 5/8" Reg Pin	3.250	8.063		30.21	108.86
Crossover Sub Description: <i>X-O SUB</i> , Material: <i>Steel</i>	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
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Rotary Drill	1	05-31	23:25	00:15	06-01	3742.00	3921.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	00:15	00:20	06-01	3921.00	3921.00	Inclination (°): 0.180, Azimuth (°): 71.730, TVD (ft): 3854.09, Dogleg (°/100 ft): 0.10, Sensor Depth (ft): 3855.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	00:20	00:35	06-01	3921.00	4010.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	00:35	00:40	06-01	4010.00	4010.00	Inclination (°): 0.310, Azimuth (°): 72.960, TVD (ft): 3943.09, Dogleg (°/100 ft): 0.15, Sensor Depth (ft): 3944.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	00:40	01:20	06-01	4010.00	4189.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	01:20	01:25	06-01	4189.00	4189.00	Inclination (°): 0.480, Azimuth (°): 27.960, TVD (ft): 4122.08, Dogleg (°/100 ft): 0.19, Sensor Depth (ft): 4123.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	01:25	02:05	06-01	4189.00	4368.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	02:05	02:10	06-01	4368.00	4368.00	Inclination (°): 0.750, Azimuth (°): 50.990, TVD (ft): 4301.07, Dogleg (°/100 ft): 0.20, Sensor Depth (ft): 4302.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	02:10	02:25	06-01	4368.00	4458.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	02:25	02:30	06-01	4458.00	4458.00	Inclination (°): 0.660, Azimuth (°): 29.370, TVD (ft): 4391.07, Dogleg (°/100 ft): 0.31, Sensor Depth (ft): 4392.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	02:30	02:45	06-01	4458.00	4548.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	02:45	02:50	06-01	4548.00	4548.00	Inclination (°): 1.270, Azimuth (°): 35.520, TVD (ft): 4481.05, Dogleg (°/100 ft): 0.69, Sensor Depth (ft): 4482.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	02:50	03:10	06-01	4548.00	4638.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	03:10	03:15	06-01	4638.00	4638.00	Inclination (°): 1.630, Azimuth (°): 40.270, TVD (ft): 4571.03, Dogleg (°/100 ft): 0.42, Sensor Depth (ft): 4572.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	03:15	03:35	06-01	4638.00	4727.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	03:35	03:40	06-01	4727.00	4727.00	Inclination (°): 1.410, Azimuth (°): 26.730, TVD (ft): 4659.99, Dogleg (°/100 ft): 0.47, Sensor Depth (ft): 4661.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	03:40	04:00	06-01	4727.00	4817.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	04:00	04:05	06-01	4817.00	4817.00	Inclination (°): 1.410, Azimuth (°): 22.160, TVD (ft): 4749.97, Dogleg (°/100 ft): 0.12, Sensor Depth (ft): 4751.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	04:05	04:25	06-01	4817.00	4906.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	04:25	04:30	06-01	4906.00	4906.00	Inclination (°): 1.490, Azimuth (°): 22.600, TVD (ft): 4838.94, Dogleg (°/100 ft): 0.09, Sensor Depth (ft): 4840.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	04:30	05:25	06-01	4906.00	5085.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	05:25	05:30	06-01	5085.00	5085.00	Inclination (°): 1.490, Azimuth (°): 21.370, TVD (ft): 5017.88, Dogleg (°/100 ft): 0.02, Sensor Depth (ft): 5019.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	05:30	05:55	06-01	5085.00	5175.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	05:55	06:00	06-01	5175.00	5175.00	Inclination (°): 1.490, Azimuth (°): 21.290, TVD (ft): 5107.85, Dogleg (°/100 ft): 0.00, Sensor Depth (ft): 5109.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	06:00	06:15	06-01	5175.00	5264.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00

Survey	46	06-01	06:15	06:20	06-01	5264.00	5264.00	Inclination (°): 1.410, Azimuth (°): 24.190, TVD (ft): 5196.82, Dogleg (°/100 ft): 0.12, Sensor Depth (ft): 5198.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	06:20	06:45	06-01	5264.00	5354.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	06:45	06:50	06-01	5354.00	5354.00	Inclination (°): 1.230, Azimuth (°): 20.410, TVD (ft): 5286.80, Dogleg (°/100 ft): 0.22, Sensor Depth (ft): 5288.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	06:50	07:05	06-01	5354.00	5443.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	07:05	07:10	06-01	5443.00	5443.00	Inclination (°): 1.100, Azimuth (°): 26.120, TVD (ft): 5375.78, Dogleg (°/100 ft): 0.20, Sensor Depth (ft): 5377.00, Bit To Sensor (ft): 66.00
Rotary Drill	1	06-01	07:10	07:25	06-01	5443.00	5511.00	Pressure On (psi): 3100.00, Pressure Off (psi): 2250.00, Weight On Bit (klbs): 60.00, Surface RPM: 70, Surface Torque (ft lbf): 18000.00, Flow Rate (gpm): 895.00, Strokes Per Minute: 308.00
Survey	46	06-01	07:25	07:30	06-01	5511.00	5511.00	Inclination (°): 1.230, Azimuth (°): 29.110, TVD (ft): 5443.76, Dogleg (°/100 ft): 0.21, Sensor Depth (ft): 5445.00, Bit To Sensor (ft): 66.00
Circulating	3	06-01	07:30	09:10	06-01			Circulating @ 5512' (Section TD)
Backreaming	24	06-01	09:10	14:50	06-01			Backreaming F/5511 - T/ 3500 [GPM = 700, RPM = 80]
TIH	8	06-01	14:50	16:00	06-01			TIH W/ BHA #2
Circulating	3	06-01	16:00	16:45	06-01			Circulating @ TD
Pooh	7	06-01	16:45	20:30	06-01			POOH for [TD 12 1/4 Section]
Lay Down BHA	65	06-01	20:30	21:30	06-01			
Standby	15	06-01	21:30	00:00	06-02			Standby while running casing

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Wednesday, Jun 02 00:00 - 23:59 (Day 8 of 20)

Billing: N/A (\$95,663.76 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
Francisco DeLeon	MWD Engineer
Advance Directional	Directional Driller
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	06-01	21:30	00:00	06-02			Standby while running casing
Standby	15	06-02	00:00	09:00	06-02			Standby- 9 5/8" Casing run
Standby	15	06-02	09:00	12:00	06-02			Standby while skidding rig

MWD Activities

No Activities

	Job Number WT-21-066	Operator Advance Energy Partners		Rig Name Nabors X50
	Start Date 2021-05-26	Well Name Dagger State Com 608H		Legal Well Name AFE Dagger State Com 608H
	Play Delaware Basin	State/Province and Country New Mexico, US	County Lea	Company Man

Monday, Aug 02 00:00 - 23:59 (Day 9 of 20) Billing: N/A (\$95,663.76 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
Francisco DeLeon	MWD Engineer
Advance Directional	Directional Driller
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	08-02	00:00	16:30	08-02			Rig released from 558H
Test BOP's	30	08-02	16:30	23:30	08-02			BOP testing operations
Other	16	08-02	23:30	00:00	08-03			Rig Down testers

MWD Activities
No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Tuesday, Aug 03 00:00 - 23:59 (Day 10 of 20)

Billing: \$7,900.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	5511.00	Downhole Hours	23.50	Rotating WOB (klbs)	35.00 - 50.00
Bit Depth (ft)	9052.00	Drilling Hours	12.42	Sliding WOB (klbs)	18.00 - 50.00
Bottom Hole Depth (ft)	9052.00	Hours Circulating	0.67	Rotating SPM	240.00 - 240.00
Total Distance (ft)	3541.00	Hours Sliding	2.58	Sliding SPM	240.00 - 240.00
Distance Rotated (ft)	3341.00	Hours Rotating	9.83	Motor RPM	30.00 - 30.00
Distance Slid (ft)	200.00			Surface RPM	40.00 - 40.00
Inclination In	2.11			Flow Rate (gpm)	700.00 - 700.00
Inclination Out	4.22			On Bottom Pressure (psi)	2100.00 - 2900.00
Azimuth In	20.65	% Hours Rotating	79%	Off Bottom Pressure (psi)	1800.00 - 1950.00
Azimuth Out	224.56	% Hours Sliding	21%		
AVG Total ROP (ft/h)	282.35	% Distance Sliding	6%		
AVG Rotating ROP (ft/h)	334.43	% Distance Rotating	94%		
AVG Sliding ROP (ft/h)	77.42				

Personnel

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

BHA #3 - Intermediate 8.75"

Date In: Aug 3, 2021, 0:30 Date Out: Aug 5, 2021, 2:15

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	7.0	Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0
Vendor	REED	Lobe/Stage	7/8, 8.5	
S/N	A281334	Bend Angle	1.75	
Nozzles	6x16's	Speed (rev/gal)	0.26	MWD Comments
Total Flow Area (in²)	1.178	Wear Pad OD (in)	7.250	
Drilling Hours for Day	12.42	Bit Distances		
Total Drilled for Day (ft)	3541.00	Survey (Bit to Sensor): 64.00 ft, Gamma (Bit to Gamma): 50.00 ft		POOH Reason
Drilling Hours for BHA	29.33			
Total Drilled for BHA (ft)	6004.00			
				Total Depth/Casing Point: MOTOR LOOKED GREAT DRAINED AS EXPECTED

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: TK66, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.00, Size (in): 8.75	REED	A281334	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: 8" 7/8 8.5 Stg. 1.75° FBH w/ 8 1/2" NBS, Size (in): 7.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 8.5	Patriot	CD700021	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.89	35.89
Stabilizer Description: 8.5" Stabilizer	JAO	JAO 86901	4 1/2" IF Box	4 1/2" IF Pin	2.250	6.750		5.37	41.26
UBHO Sub Description: NM DAO UBHO, Material: Non-Magnetic	AIM	AIM 675-355	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.625		1.80	43.06
Drill Collar Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	73.31
Drill Collar Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	103.57
Crossover Sub Description: X-O SUB, Material: Steel	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	106.57
HWDP Description: 13 STANDS HWDP, Type: Slick			EverDrlg54 Box	EverDrlg54 Pin	3.500	5.500		1213.05	1319.62

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Other	16	08-02	23:30	00:00	08-03			Rig Down testers

Other	16	08-03	00:00	00:30	08-03			Install wear bushing
Change BHA	6	08-03	00:30	01:50	08-03			P/U BHA # 3
Other	16	08-03	01:50	02:15	08-03			Test MWD
TIH	8	08-03	02:15	04:15	08-03			TIH W/ BHA #3
Other	16	08-03	04:15	04:50	08-03			Drill DV tool
TIH	8	08-03	04:50	06:10	08-03			TIH W/ BHA 3
Other	16	08-03	06:10	07:10	08-03			Test Casing
Drilling Cement	17	08-03	07:10	07:50	08-03	5511.00	5511.00	Drilling Cement and Float Equipment F/ 5392 - T/ 5496 [GPM = 504, RPM = 30, WOB = 10, DIFF = 150]
Rotary Drill	1	08-03	07:50	08:15	08-03	5511.00	5561.00	Pressure On (psi): 2400.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 12500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	08:15	08:30	08-03	5561.00	5584.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 18.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 330, Toolface Type: magnetic
Rotary Drill	1	08-03	08:30	08:45	08-03	5584.00	5617.00	Pressure On (psi): 2400.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 12500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	08:45	08:55	08-03	5617.00	5617.00	Inclination (°): 2.110, Azimuth (°): 20.650, TVD (ft): 5551.72, Dogleg (%/100 ft): 0.84, Sensor Depth (ft): 5553.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	08:55	09:00	08-03	5617.00	5629.00	Pressure On (psi): 2400.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 12500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	09:00	09:15	08-03	5629.00	5649.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 18.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 300, Toolface Type: magnetic
Rotary Drill	1	08-03	09:15	09:40	08-03	5649.00	5706.00	Pressure On (psi): 2400.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 12500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	09:40	09:45	08-03	5706.00	5706.00	Inclination (°): 5.410, Azimuth (°): 328.270, TVD (ft): 5640.53, Dogleg (%/100 ft): 5.00, Sensor Depth (ft): 5642.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	09:45	09:55	08-03	5706.00	5796.00	Pressure On (psi): 2650.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	09:55	10:00	08-03	5796.00	5796.00	Inclination (°): 6.550, Azimuth (°): 324.580, TVD (ft): 5730.04, Dogleg (%/100 ft): 1.34, Sensor Depth (ft): 5732.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	10:00	10:05	08-03	5796.00	5809.00	Pressure On (psi): 2650.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	10:05	10:15	08-03	5809.00	5826.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 18.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 205, Toolface Type: magnetic
Rotary Drill	1	08-03	10:15	10:25	08-03	5826.00	5886.00	Pressure On (psi): 2650.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	10:25	10:30	08-03	5886.00	5886.00	Inclination (°): 5.800, Azimuth (°): 313.590, TVD (ft): 5819.52, Dogleg (%/100 ft): 1.55, Sensor Depth (ft): 5822.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	10:30	10:35	08-03	5886.00	5898.00	Pressure On (psi): 2650.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	10:35	10:55	08-03	5898.00	5923.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 18.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 210, Toolface Type: magnetic
Rotary Drill	1	08-03	10:55	11:00	08-03	5923.00	5976.00	Pressure On (psi): 2650.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	11:00	11:05	08-03	5976.00	5976.00	Inclination (°): 5.230, Azimuth (°): 281.250, TVD (ft): 5909.13, Dogleg (%/100 ft): 3.46, Sensor Depth (ft): 5912.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	11:05	11:15	08-03	5976.00	5988.00	Pressure On (psi): 2650.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	11:15	11:25	08-03	5988.00	6008.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 18.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 200, Toolface Type: magnetic
Rotary Drill	1	08-03	11:25	11:35	08-03	6008.00	6065.00	Pressure On (psi): 2650.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	11:35	11:40	08-03	6065.00	6065.00	Inclination (°): 6.460, Azimuth (°): 249.080, TVD (ft): 5997.68, Dogleg (%/100 ft): 3.87, Sensor Depth (ft): 6001.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	11:40	11:50	08-03	6065.00	6155.00	Pressure On (psi): 2650.00, Pressure Off (psi): 1800.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	11:50	11:55	08-03	6155.00	6155.00	Inclination (°): 6.900, Azimuth (°): 239.320, TVD (ft): 6087.08, Dogleg (%/100 ft): 1.35, Sensor Depth (ft): 6091.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	11:55	12:00	08-03	6155.00	6168.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00

Slide Drill	2	08-03	12:00	12:15	08-03	6168.00	6183.00	Pressure On (psi): 2100.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 18.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 65, Toolface Type: magnetic
Rotary Drill	1	08-03	12:15	12:20	08-03	6183.00	6244.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	12:20	12:25	08-03	6244.00	6244.00	Inclination (°): 5.410, Azimuth (°): 240.730, TVD (ft): 6175.56, Dogleg (°/100 ft): 1.68, Sensor Depth (ft): 6180.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	12:25	12:35	08-03	6244.00	6334.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	12:35	12:40	08-03	6334.00	6334.00	Inclination (°): 4.920, Azimuth (°): 239.760, TVD (ft): 6265.20, Dogleg (°/100 ft): 0.55, Sensor Depth (ft): 6270.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	12:40	12:50	08-03	6334.00	6423.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	12:50	12:55	08-03	6423.00	6423.00	Inclination (°): 5.230, Azimuth (°): 238.970, TVD (ft): 6353.85, Dogleg (°/100 ft): 0.36, Sensor Depth (ft): 6359.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	12:55	13:05	08-03	6423.00	6513.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	13:05	13:10	08-03	6513.00	6513.00	Inclination (°): 5.270, Azimuth (°): 236.770, TVD (ft): 6443.47, Dogleg (°/100 ft): 0.23, Sensor Depth (ft): 6449.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	13:10	13:15	08-03	6513.00	6603.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	13:15	13:20	08-03	6603.00	6603.00	Inclination (°): 5.270, Azimuth (°): 232.730, TVD (ft): 6533.09, Dogleg (°/100 ft): 0.41, Sensor Depth (ft): 6539.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	13:20	13:30	08-03	6603.00	6693.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	13:30	13:35	08-03	6693.00	6693.00	Inclination (°): 5.320, Azimuth (°): 230.360, TVD (ft): 6622.70, Dogleg (°/100 ft): 0.25, Sensor Depth (ft): 6629.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	13:35	13:45	08-03	6693.00	6782.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	13:45	13:50	08-03	6782.00	6782.00	Inclination (°): 5.450, Azimuth (°): 229.300, TVD (ft): 6711.31, Dogleg (°/100 ft): 0.18, Sensor Depth (ft): 6718.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	13:50	13:55	08-03	6782.00	6795.00	Pressure On (psi): 2750.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	13:55	14:10	08-03	6795.00	6815.00	Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 300, Toolface Type: magnetic
Rotary Drill	1	08-03	14:10	14:15	08-03	6815.00	6872.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	14:15	14:20	08-03	6872.00	6872.00	Inclination (°): 6.460, Azimuth (°): 241.080, TVD (ft): 6800.83, Dogleg (°/100 ft): 1.76, Sensor Depth (ft): 6808.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	14:20	14:30	08-03	6872.00	6961.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	14:30	14:35	08-03	6961.00	6961.00	Inclination (°): 7.340, Azimuth (°): 247.940, TVD (ft): 6889.18, Dogleg (°/100 ft): 1.35, Sensor Depth (ft): 6897.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	14:35	14:45	08-03	6961.00	7050.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	14:45	14:50	08-03	7050.00	7050.00	Inclination (°): 7.470, Azimuth (°): 245.650, TVD (ft): 6977.44, Dogleg (°/100 ft): 0.36, Sensor Depth (ft): 6986.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	14:50	15:00	08-03	7050.00	7139.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	15:00	15:05	08-03	7139.00	7139.00	Inclination (°): 7.430, Azimuth (°): 243.280, TVD (ft): 7065.69, Dogleg (°/100 ft): 0.35, Sensor Depth (ft): 7075.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	15:05	15:15	08-03	7139.00	7229.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	15:15	15:20	08-03	7229.00	7229.00	Inclination (°): 7.120, Azimuth (°): 237.830, TVD (ft): 7154.97, Dogleg (°/100 ft): 0.84, Sensor Depth (ft): 7165.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	15:20	15:30	08-03	7229.00	7319.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	15:30	15:35	08-03	7319.00	7319.00	Inclination (°): 6.900, Azimuth (°): 234.750, TVD (ft): 7244.30, Dogleg (°/100 ft): 0.48, Sensor Depth (ft): 7255.00, Bit To Sensor (ft): 64.00

Rotary Drill	1	08-03	15:35	15:50	08-03	7319.00	7408.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	15:50	15:55	08-03	7408.00	7408.00	Inclination (°): 6.240, Azimuth (°): 232.640, TVD (ft): 7332.71, Dogleg (°/100 ft): 0.79, Sensor Depth (ft): 7344.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	15:55	16:05	08-03	7408.00	7498.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	16:05	16:10	08-03	7498.00	7498.00	Inclination (°): 6.240, Azimuth (°): 231.680, TVD (ft): 7422.18, Dogleg (°/100 ft): 0.12, Sensor Depth (ft): 7434.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	16:10	16:20	08-03	7498.00	7587.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	16:20	16:25	08-03	7587.00	7587.00	Inclination (°): 6.370, Azimuth (°): 230.970, TVD (ft): 7510.64, Dogleg (°/100 ft): 0.17, Sensor Depth (ft): 7523.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	16:25	16:35	08-03	7587.00	7677.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	16:35	16:40	08-03	7677.00	7677.00	Inclination (°): 6.420, Azimuth (°): 226.930, TVD (ft): 7600.08, Dogleg (°/100 ft): 0.50, Sensor Depth (ft): 7613.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	16:40	16:45	08-03	7677.00	7687.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	16:45	17:05	08-03	7687.00	7707.00	Pressure On (psi): 2250.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 25.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 330, Toolface Type: magnetic
Rotary Drill	1	08-03	17:05	17:15	08-03	7707.00	7767.00	Pressure On (psi): 2800.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	17:15	17:20	08-03	7767.00	7767.00	Inclination (°): 5.800, Azimuth (°): 239.060, TVD (ft): 7689.57, Dogleg (°/100 ft): 1.59, Sensor Depth (ft): 7703.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	17:20	17:30	08-03	7767.00	7856.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	17:30	17:35	08-03	7856.00	7856.00	Inclination (°): 5.100, Azimuth (°): 246.530, TVD (ft): 7778.17, Dogleg (°/100 ft): 1.12, Sensor Depth (ft): 7792.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	17:35	17:50	08-03	7856.00	7946.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	17:50	17:55	08-03	7946.00	7946.00	Inclination (°): 4.350, Azimuth (°): 246.000, TVD (ft): 7867.86, Dogleg (°/100 ft): 0.83, Sensor Depth (ft): 7882.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	17:55	18:10	08-03	7946.00	8036.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	18:10	18:15	08-03	8036.00	8036.00	Inclination (°): 4.040, Azimuth (°): 242.490, TVD (ft): 7957.62, Dogleg (°/100 ft): 0.45, Sensor Depth (ft): 7972.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	18:15	18:20	08-03	8036.00	8055.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	18:20	18:35	08-03	8055.00	8075.00	Pressure On (psi): 2250.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 25.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 240, Toolface Type: magnetic
Rotary Drill	1	08-03	18:35	18:50	08-03	8075.00	8125.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	18:50	18:55	08-03	8125.00	8125.00	Inclination (°): 4.790, Azimuth (°): 239.940, TVD (ft): 8046.36, Dogleg (°/100 ft): 0.87, Sensor Depth (ft): 8061.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	18:55	19:10	08-03	8125.00	8215.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	19:10	19:15	08-03	8215.00	8215.00	Inclination (°): 4.920, Azimuth (°): 238.530, TVD (ft): 8136.03, Dogleg (°/100 ft): 0.20, Sensor Depth (ft): 8151.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	19:15	19:35	08-03	8215.00	8304.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	19:35	19:40	08-03	8304.00	8304.00	Inclination (°): 5.050, Azimuth (°): 238.710, TVD (ft): 8224.70, Dogleg (°/100 ft): 0.15, Sensor Depth (ft): 8240.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	19:40	19:55	08-03	8304.00	8394.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	19:55	20:00	08-03	8394.00	8394.00	Inclination (°): 4.530, Azimuth (°): 236.770, TVD (ft): 8314.38, Dogleg (°/100 ft): 0.61, Sensor Depth (ft): 8330.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	20:00	20:20	08-03	8394.00	8483.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00

Survey	46	08-03	20:20	20:25	08-03	8483.00	8483.00	Inclination (°): 4.750, Azimuth (°): 235.370, TVD (ft): 8403.09, Dogleg (°/100 ft): 0.28, Sensor Depth (ft): 8419.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	20:25	20:40	08-03	8483.00	8573.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	20:40	20:45	08-03	8573.00	8573.00	Inclination (°): 4.620, Azimuth (°): 235.630, TVD (ft): 8492.79, Dogleg (°/100 ft): 0.15, Sensor Depth (ft): 8509.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	20:45	21:05	08-03	8573.00	8663.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	21:05	21:10	08-03	8663.00	8663.00	Inclination (°): 4.570, Azimuth (°): 235.450, TVD (ft): 8582.50, Dogleg (°/100 ft): 0.06, Sensor Depth (ft): 8599.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	21:10	21:35	08-03	8663.00	8752.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	21:35	21:40	08-03	8752.00	8752.00	Inclination (°): 4.660, Azimuth (°): 234.050, TVD (ft): 8671.21, Dogleg (°/100 ft): 0.16, Sensor Depth (ft): 8688.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	21:40	22:05	08-03	8752.00	8842.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	22:05	22:10	08-03	8842.00	8842.00	Inclination (°): 4.700, Azimuth (°): 232.640, TVD (ft): 8760.91, Dogleg (°/100 ft): 0.14, Sensor Depth (ft): 8778.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	22:10	22:35	08-03	8842.00	8932.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	22:35	22:50	08-03	8932.00	8932.00	Inclination (°): 4.400, Azimuth (°): 229.480, TVD (ft): 8850.63, Dogleg (°/100 ft): 0.43, Sensor Depth (ft): 8868.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	22:50	23:15	08-03	8932.00	9021.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-03	23:15	23:20	08-03	9021.00	9021.00	Inclination (°): 4.220, Azimuth (°): 224.560, TVD (ft): 8939.38, Dogleg (°/100 ft): 0.46, Sensor Depth (ft): 8957.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-03	23:20	23:25	08-03	9021.00	9032.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-03	23:25	23:45	08-03	9032.00	9052.00	Pressure On (psi): 2150.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 300, Toolface Type: magnetic
Rotary Drill	1	08-03	23:45	00:05	08-04	9052.00	9111.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Wednesday, Aug 04 00:00 - 23:59 (Day 11 of 20)

Billing: \$5,800.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	9052.00	Downhole Hours	24.00	Rotating WOB (klbs)	50.00 - 50.00
Bit Depth (ft)	11515.00	Drilling Hours	16.92	Sliding WOB (klbs)	40.00 - 50.00
Bottom Hole Depth (ft)	11515.00	Hours Circulating	1.17	Rotating SPM	240.00 - 240.00
Total Distance (ft)	2463.00	Hours Sliding	3.92	Sliding SPM	240.00 - 240.00
Distance Rotated (ft)	2309.00	Hours Rotating	13.00	Motor RPM	30.00 - 30.00
Distance Slid (ft)	154.00			Surface RPM	30.00 - 40.00
Inclination In	4.97			Flow Rate (gpm)	700.00 - 700.00
Inclination Out	0.44			On Bottom Pressure (psi)	2150.00 - 2900.00
Azimuth In	233.26	% Hours Rotating	77%	Off Bottom Pressure (psi)	1950.00 - 1950.00
Azimuth Out	207.33	% Hours Sliding	23%		
AVG Total ROP (ft/h)	145.60	% Distance Sliding	6%		
AVG Rotating ROP (ft/h)	177.62	% Distance Rotating	94%		
AVG Sliding ROP (ft/h)	39.32				

Personnel

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

BHA #3 - Intermediate 8.75"

Date In: Aug 3, 2021, 0:30 Date Out: Aug 5, 2021, 2:15

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	7.0	Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0
Vendor	REED	Lobe/Stage	7/8, 8.5	
S/N	A281334	Bend Angle	1.75	
Nozzles	6x16's	Speed (rev/gal)	0.26	MWD Comments
Total Flow Area (in²)	1.178	Wear Pad OD (in)	7.250	
Drilling Hours for Day	16.92	Bit Distances		
Total Drilled for Day (ft)	2463.00	Survey (Bit to Sensor): 64.00 ft, Gamma (Bit to Gamma): 50.00 ft		POOH Reason
Drilling Hours for BHA	29.33			
Total Drilled for BHA (ft)	6004.00			

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: TK66, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.00, Size (in): 8.75	REED	A281334	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: 8" 7/8 8.5 Stg. 1.75° FBH w/ 8 1/2" NBS, Size (in): 7.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 8.5	Patriot	CD700021	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.89	35.89
Stabilizer Description: 8.5" Stabilizer	JAO	JAO 86901	4 1/2" IF Box	4 1/2" IF Pin	2.250	6.750		5.37	41.26
UBHO Sub Description: NM DAO UBHO, Material: Non-Magnetic	AIM	AIM 675-355	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.625		1.80	43.06
Drill Collar Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	73.31
Drill Collar Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	103.57
Crossover Sub Description: X-O SUB, Material: Steel	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	106.57
HWDP Description: 13 STANDS HWDP, Type: Slick			EverDrlg54 Box	EverDrlg54 Pin	3.500	5.500		1213.05	1319.62

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
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Rotary Drill	1	08-03	23:45	00:05	08-04	9052.00	9111.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 16500.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	00:05	00:10	08-04	9111.00	9111.00	Inclination (°): 4.970, Azimuth (°): 233.260, TVD (ft): 9029.09, Dogleg (°/100 ft): 1.14, Sensor Depth (ft): 9047.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	00:10	00:35	08-04	9111.00	9200.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	00:35	00:40	08-04	9200.00	9200.00	Inclination (°): 4.220, Azimuth (°): 232.030, TVD (ft): 9117.80, Dogleg (°/100 ft): 0.85, Sensor Depth (ft): 9136.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	00:40	01:00	08-04	9200.00	9290.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	01:00	01:05	08-04	9290.00	9290.00	Inclination (°): 2.990, Azimuth (°): 218.670, TVD (ft): 9207.62, Dogleg (°/100 ft): 1.65, Sensor Depth (ft): 9226.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	01:05	01:10	08-04	9290.00	9300.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-04	01:10	02:30	08-04	9300.00	9340.00	Pressure On (psi): 2150.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 250, Toolface Type: magnetic
Rotary Drill	1	08-04	02:30	02:40	08-04	9340.00	9380.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	02:40	02:45	08-04	9380.00	9380.00	Inclination (°): 4.620, Azimuth (°): 227.720, TVD (ft): 9297.42, Dogleg (°/100 ft): 1.92, Sensor Depth (ft): 9316.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	02:45	03:10	08-04	9380.00	9469.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	03:10	03:15	08-04	9469.00	9469.00	Inclination (°): 5.930, Azimuth (°): 223.940, TVD (ft): 9386.05, Dogleg (°/100 ft): 1.52, Sensor Depth (ft): 9405.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	03:15	03:35	08-04	9469.00	9559.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	03:35	03:40	08-04	9559.00	9559.00	Inclination (°): 5.270, Azimuth (°): 220.690, TVD (ft): 9475.62, Dogleg (°/100 ft): 0.81, Sensor Depth (ft): 9495.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	03:40	04:10	08-04	9559.00	9649.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	04:10	04:15	08-04	9649.00	9649.00	Inclination (°): 5.140, Azimuth (°): 221.920, TVD (ft): 9565.24, Dogleg (°/100 ft): 0.19, Sensor Depth (ft): 9585.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	04:15	04:40	08-04	9649.00	9738.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	04:40	04:45	08-04	9738.00	9738.00	Inclination (°): 4.700, Azimuth (°): 223.060, TVD (ft): 9653.92, Dogleg (°/100 ft): 0.51, Sensor Depth (ft): 9674.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	04:45	05:10	08-04	9738.00	9828.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	05:10	05:15	08-04	9828.00	9828.00	Inclination (°): 4.620, Azimuth (°): 215.420, TVD (ft): 9743.62, Dogleg (°/100 ft): 0.69, Sensor Depth (ft): 9764.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	05:15	05:30	08-04	9828.00	9918.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	05:30	05:35	08-04	9918.00	9918.00	Inclination (°): 4.000, Azimuth (°): 215.060, TVD (ft): 9833.36, Dogleg (°/100 ft): 0.69, Sensor Depth (ft): 9854.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	05:35	05:45	08-04	9918.00	9927.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-04	05:45	06:05	08-04	9927.00	9947.00	Pressure On (psi): 2200.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 40.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 245, Toolface Type: magnetic
Rotary Drill	1	08-04	06:05	06:20	08-04	9947.00	10007.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00

Survey	46	08-04	06:20	06:25	08-04	10007.00	10007.00	Inclination (°): 4.260, Azimuth (°): 220.430, TVD (ft): 9922.13, Dogleg (°/100 ft): 0.52, Sensor Depth (ft): 9943.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	06:25	06:55	08-04	10007.00	10097.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	06:55	07:00	08-04	10097.00	10097.00	Inclination (°): 3.780, Azimuth (°): 215.680, TVD (ft): 10011.91, Dogleg (°/100 ft): 0.65, Sensor Depth (ft): 10033.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	07:00	07:25	08-04	10097.00	10186.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	07:25	07:30	08-04	10186.00	10186.00	Inclination (°): 3.600, Azimuth (°): 217.610, TVD (ft): 10100.73, Dogleg (°/100 ft): 0.25, Sensor Depth (ft): 10122.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	07:30	07:40	08-04	10186.00	10198.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-04	07:40	08:15	08-04	10198.00	10228.00	Pressure On (psi): 2200.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 40.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 240, Toolface Type: magnetic
Rotary Drill	1	08-04	08:15	08:30	08-04	10228.00	10276.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	08:30	08:35	08-04	10276.00	10276.00	Inclination (°): 4.440, Azimuth (°): 215.150, TVD (ft): 10190.51, Dogleg (°/100 ft): 0.95, Sensor Depth (ft): 10212.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	08:35	09:05	08-04	10276.00	10366.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	09:05	09:10	08-04	10366.00	10366.00	Inclination (°): 4.790, Azimuth (°): 217.260, TVD (ft): 10280.21, Dogleg (°/100 ft): 0.43, Sensor Depth (ft): 10302.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	09:10	09:40	08-04	10366.00	10456.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	09:40	09:45	08-04	10456.00	10456.00	Inclination (°): 4.000, Azimuth (°): 223.330, TVD (ft): 10369.95, Dogleg (°/100 ft): 1.02, Sensor Depth (ft): 10392.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	09:45	10:15	08-04	10456.00	10545.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	10:15	10:20	08-04	10545.00	10545.00	Inclination (°): 2.950, Azimuth (°): 228.510, TVD (ft): 10458.78, Dogleg (°/100 ft): 1.23, Sensor Depth (ft): 10481.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	10:20	10:25	08-04	10545.00	10557.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-04	10:25	11:05	08-04	10557.00	10588.00	Pressure On (psi): 2200.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 40.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 220, Toolface Type: magnetic
Rotary Drill	1	08-04	11:05	11:30	08-04	10588.00	10635.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	11:30	11:35	08-04	10635.00	10635.00	Inclination (°): 3.870, Azimuth (°): 224.730, TVD (ft): 10548.62, Dogleg (°/100 ft): 1.05, Sensor Depth (ft): 10571.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	11:35	12:10	08-04	10635.00	10724.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	12:10	12:15	08-04	10724.00	10724.00	Inclination (°): 5.450, Azimuth (°): 226.050, TVD (ft): 10637.33, Dogleg (°/100 ft): 1.78, Sensor Depth (ft): 10660.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	12:15	12:50	08-04	10724.00	10814.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	12:50	12:55	08-04	10814.00	10814.00	Inclination (°): 4.970, Azimuth (°): 229.210, TVD (ft): 10726.96, Dogleg (°/100 ft): 0.62, Sensor Depth (ft): 10750.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	12:55	13:30	08-04	10814.00	10903.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	13:30	13:35	08-04	10903.00	10903.00	Inclination (°): 4.700, Azimuth (°): 229.740, TVD (ft): 10815.64, Dogleg (°/100 ft): 0.31, Sensor Depth (ft): 10839.00, Bit To Sensor (ft): 64.00

Rotary Drill	1	08-04	13:35	14:00	08-04	10903.00	10993.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	14:00	14:05	08-04	10993.00	10993.00	Inclination (°): 5.410, Azimuth (°): 225.700, TVD (ft): 10905.29, Dogleg (°/100 ft): 0.88, Sensor Depth (ft): 10929.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	14:05	14:10	08-04	10993.00	11005.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Slide Drill	2	08-04	14:10	15:10	08-04	11005.00	11038.00	Pressure On (psi): 2200.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 40.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240, Toolface: 55, Toolface Type: magnetic
Rotary Drill	1	08-04	15:10	15:45	08-04	11038.00	11082.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	15:45	15:50	08-04	11082.00	11082.00	Inclination (°): 4.700, Azimuth (°): 220.950, TVD (ft): 10993.94, Dogleg (°/100 ft): 0.93, Sensor Depth (ft): 11018.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	15:50	16:25	08-04	11082.00	11172.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	16:25	16:30	08-04	11172.00	11172.00	Inclination (°): 3.160, Azimuth (°): 207.330, TVD (ft): 11083.73, Dogleg (°/100 ft): 1.99, Sensor Depth (ft): 11108.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	16:30	17:05	08-04	11172.00	11262.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	17:05	17:10	08-04	11262.00	11262.00	Inclination (°): 2.150, Azimuth (°): 213.480, TVD (ft): 11173.63, Dogleg (°/100 ft): 1.16, Sensor Depth (ft): 11198.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	17:10	17:40	08-04	11262.00	11351.00	Pressure On (psi): 2900.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 40, Surface Torque (ft lbf): 20000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	17:40	17:45	08-04	11351.00	11351.00	Inclination (°): 1.800, Azimuth (°): 230.180, TVD (ft): 11262.58, Dogleg (°/100 ft): 0.75, Sensor Depth (ft): 11287.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	17:45	18:25	08-04	11351.00	11441.00	
Survey	46	08-04	18:25	18:30	08-04	11441.00	11441.00	Inclination (°): 0.700, Azimuth (°): 224.120, TVD (ft): 11352.56, Dogleg (°/100 ft): 1.23, Sensor Depth (ft): 11377.00, Bit To Sensor (ft): 64.00
Rotary Drill	1	08-04	18:30	18:55	08-04	11441.00	11515.00	Pressure On (psi): 2600.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 50.00, Surface RPM: 30, Surface Torque (ft lbf): 21000.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 240.00
Survey	46	08-04	18:55	19:00	08-04	11515.00	11515.00	Inclination (°): 0.440, Azimuth (°): 207.330, TVD (ft): 11426.55, Dogleg (°/100 ft): 0.41, Sensor Depth (ft): 11451.00, Bit To Sensor (ft): 64.00
Circulating	3	08-04	19:00	20:10	08-04			CIR BOTTOMS UP
Pooh	7	08-04	20:10	00:40	08-05			POOH

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Thursday, Aug 05 00:00 - 23:59 (Day 12 of 20)

Billing: \$15,500.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	11515.00	Downhole Hours	24.00	Rotating WOB (klbs)	40.00 - 40.00
Bit Depth (ft)	11825.00	Drilling Hours	6.25	Sliding WOB (klbs)	22.00 - 50.00
Bottom Hole Depth (ft)	11825.00	Hours Circulating	1.00	Rotating SPM	204.00 - 204.00
Total Distance (ft)	310.00	Hours Sliding	5.42	Sliding SPM	192.00 - 204.00
Distance Rotated (ft)	46.00	Hours Rotating	0.83	Motor RPM	0.00 - 30.00
Distance Slid (ft)	264.00			Surface RPM	20.00 - 20.00
Inclination In	0.88			Flow Rate (gpm)	555.00 - 6000.00
Inclination Out	36.31			On Bottom Pressure (psi)	2550.00 - 2850.00
Azimuth In	119.79	% Hours Rotating	13%	Off Bottom Pressure (psi)	2100.00 - 2300.00
Azimuth Out	359.20	% Hours Sliding	87%		
AVG Total ROP (ft/h)	51.34	% Distance Sliding	85%		
AVG Rotating ROP (ft/h)	63.43	% Distance Rotating	15%		
AVG Sliding ROP (ft/h)	48.74				

Personnel

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

BHA #3 - Intermediate 8.75"

Date In: Aug 3, 2021, 0:30 Date Out: Aug 5, 2021, 2:15

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	7.0	Flow Range: 500-750 GPM, Max Diff: 1910 psi, Max Torque: 18710ft/lbs, Bit Runs: 0
Vendor	REED	Lobe/Stage	7/8, 8.5	
S/N	A281334	Bend Angle	1.75	
Nozzles	6x16's	Speed (rev/gal)	0.26	MWD Comments
Total Flow Area (in²)	1.178	Wear Pad OD (in)	7.250	
Drilling Hours for Day	0.00	Bit Distances		
Total Drilled for Day (ft)		Survey (Bit to Sensor): 64.00 ft, Gamma (Bit to Gamma): 50.00 ft		
Drilling Hours for BHA	29.33			
Total Drilled for BHA (ft)	6004.00			
				POOH Reason
				Total Depth/Casing Point: MOTOR LOOKED GREAT DRAINED AS EXPECTED

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: TK66, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.00, Size (in): 8.75	REED	A281334	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: 8" 7/8 8.5 Stg. 1.75° FBH w/ 8 1/2" NBS, Size (in): 7.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 8.5	Patriot	CD700021	4 1/2" IF Box	4 1/2" Reg Box		7.000		34.89	35.89
Stabilizer Description: 8.5" Stabilizer	JAO	JAO 86901	4 1/2" IF Box	4 1/2" IF Pin	2.250	6.750		5.37	41.26
UBHO Sub Description: NM DAO UBHO, Material: Non-Magnetic	AIM	AIM 675-355	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.625		1.80	43.06
Drill Collar Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	73.31
Drill Collar Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	103.57
Crossover Sub Description: X-O SUB, Material: Steel	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	106.57
HWDP Description: 13 STANDS HWDP, Type: Slick			EverDrlg54 Box	EverDrlg54 Pin	3.500	5.500		1213.05	1319.62

MWD Items

No Items

BHA #4 - 8.75" CURVE

Date In: Aug 5, 2021, 2:15 Date Out: Aug 6, 2021, 15:50

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	6.5	Flow Range: 300-650 GPM, Max Diff: 1180 psi, Max Torque: 10650ft/lbs, Bit Runs: 0
Vendor	Ulterra	Lobe/Stage	7/8, 5.0	
S/N	56831	Bend Angle	2.25	
Nozzles	6x15's	Speed (rev/gal)	0.27	MWD Comments
Total Flow Area (in²)	1.035	Wear Pad OD (in)	7.000	
Drilling Hours for Day	6.25	Bit Distances		POOH Reason
Total Drilled for Day (ft)	310.00	Survey (Bit to Sensor): 49.00 ft, Gamma (Bit to Gamma): 34.00 ft		
Drilling Hours for BHA	12.33			
Total Drilled for BHA (ft)	848.00			
				Change Bottom Hole Assembly

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): 0.30, Size (in): 8.75	Ulterra	56831	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: 6.5" 7/8 5.0 Stg. 2.25° FBH, Size (in): 6.50, Bend Angle (°): 2.25, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.0	Paradigm	PDT65016SS	4 1/2" IF Box	4 1/2" Reg Box		6.500		24.96	25.96
UBHO Sub Description: NM DAO UBHO, Material: Non-Magnetic	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	28.22
Drill Collar Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	58.47
Drill Collar Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	88.73
Crossover Sub Description: X-O SUB, Material: Steel	BLACK DIAMOND	BD13750	EverDrIlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	91.73

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	08-04	20:10	00:40	08-05			POOH
Lay Down BHA	65	08-05	00:40	02:15	08-05			L/D BHA MWD STUCK IN UBHO
Pick Up BHA	64	08-05	02:15	03:30	08-05			P/U BHA TEST
TIH	8	08-05	03:30	05:00	08-05			TIH W/ BHA #4
Rig Repair	14	08-05	05:00	08:00	08-05			Repair 120
TIH	8	08-05	08:00	15:00	08-05			TIH W/ BHA #4
Other	16	08-05	15:00	15:45	08-05			Re=Log F/ 11450' - 11515'
Circulating	3	08-05	15:45	16:45	08-05			Displace w/ 9.5 PPG OBM
Slide Drill	2	08-05	16:45	17:55	08-05	11515.00	11557.00	Pressure On (psi): 2550.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 22.00, Flow Rate (gpm): 555.00, Strokes Per Minute: 192, Toolface: 0, Toolface Type: magnetic
Survey	46	08-05	17:55	18:10	08-05	11557.00	11557.00	Inclination (°): 0.880, Azimuth (°): 119.790, TVD (ft): 11483.55, Dogleg (°/100 ft): 1.70, Sensor Depth (ft): 11508.00, Bit To Sensor (ft): 49.00
Slide Drill	2	08-05	18:10	20:00	08-05	11557.00	11646.00	Pressure On (psi): 2550.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 22.00, Flow Rate (gpm): 555.00, Strokes Per Minute: 192, Toolface: 350, Toolface Type: magnetic
Survey	46	08-05	20:00	20:10	08-05	11646.00	11646.00	Inclination (°): 13.320, Azimuth (°): 3.690, TVD (ft): 11571.77, Dogleg (°/100 ft): 15.43, Sensor Depth (ft): 11597.00, Bit To Sensor (ft): 49.00
Slide Drill	2	08-05	20:10	20:35	08-05	11646.00	11668.00	Pressure On (psi): 2550.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 22.00, Flow Rate (gpm): 555.00, Strokes Per Minute: 192, Toolface: 350, Toolface Type: gravity
Rotary Drill	1	08-05	20:35	20:55	08-05	11668.00	11683.00	Pressure On (psi): 2800.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 40.00, Surface RPM: 20, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 6000.00, Strokes Per Minute: 204.00
Slide Drill	2	08-05	20:55	21:55	08-05	11683.00	11736.00	Pressure On (psi): 2850.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 600.00, Strokes Per Minute: 204, Toolface: 355, Toolface Type: gravity
Survey	46	08-05	21:55	22:05	08-05	11736.00	11736.00	Inclination (°): 27.340, Azimuth (°): 0.080, TVD (ft): 11655.96, Dogleg (°/100 ft): 15.63, Sensor Depth (ft): 11687.00, Bit To Sensor (ft): 49.00
Rotary Drill	1	08-05	22:05	22:35	08-05	11736.00	11767.00	Pressure On (psi): 2800.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 40.00, Surface RPM: 20, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 6000.00, Strokes Per Minute: 204.00

Slide Drill	2	08-05	22:35	23:35	08-05	11767.00	11825.00	Pressure On (psi): 2850.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 600.00, Strokes Per Minute: 204, Toolface: 0, Toolface Type: gravity
Survey	46	08-05	23:35	23:45	08-05	11825.00	11825.00	Inclination (°): 36.310, Azimuth (°): 359.200, TVD (ft): 11731.50, Dogleg (°/100 ft): 10.09, Sensor Depth (ft): 11776.00, Bit To Sensor (ft): 49.00
Rotary Drill	1	08-05	23:45	00:05	08-06	11825.00	11853.00	Pressure On (psi): 2800.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 40.00, Surface RPM: 20, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 6000.00, Strokes Per Minute: 204.00

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Friday, Aug 06 00:00 - 23:59 (Day 13 of 20)

Billing: \$4,300.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	11825.00	Downhole Hours	23.33	Rotating WOB (klbs)	40.00 - 40.00
Bit Depth (ft)	12363.00	Drilling Hours	6.08	Sliding WOB (klbs)	50.00 - 50.00
Bottom Hole Depth (ft)	12363.00	Hours Circulating	4.00	Rotating SPM	204.00 - 204.00
Total Distance (ft)	538.00	Hours Sliding	3.50	Sliding SPM	204.00 - 204.00
Distance Rotated (ft)	272.00	Hours Rotating	2.58	Motor RPM	0.00 - 40.00
Distance Slid (ft)	266.00			Surface RPM	20.00 - 30.00
Inclination In	46.64			Flow Rate (gpm)	600.00 - 6000.00
Inclination Out	86.07			On Bottom Pressure (psi)	2800.00 - 2850.00
Azimuth In	359.38	% Hours Rotating	42%	Off Bottom Pressure (psi)	2300.00 - 2300.00
Azimuth Out	359.64	% Hours Sliding	58%		
AVG Total ROP (ft/h)	88.44	% Distance Sliding	49%		
AVG Rotating ROP (ft/h)	105.29	% Distance Rotating	51%		
AVG Sliding ROP (ft/h)	76.00				

Personnel

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

BHA #4 - 8.75" CURVE

Date In: Aug 5, 2021, 2:15 Date Out: Aug 6, 2021, 15:50

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	6.5	Flow Range: 300-650 GPM, Max Diff: 1180 psi, Max Torque: 10650ft/lbs, Bit Runs: 0
Vendor	Ultrerra	Lobe/Stage	7/8, 5.0	
S/N	56831	Bend Angle	2.25	
Nozzles	6x15's	Speed (rev/gal)	0.27	MWD Comments
Total Flow Area (in²)	1.035	Wear Pad OD (in)	7.000	
Drilling Hours for Day	6.08	Bit Distances		
Total Drilled for Day (ft)	538.00	Survey (Bit to Sensor): 49.00 ft, Gamma (Bit to Gamma): 34.00 ft		POOH Reason Change Bottom Hole Assembly
Drilling Hours for BHA	12.33			
Total Drilled for BHA (ft)	848.00			

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): 0.30, Size (in): 8.75	Ultrerra	56831	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: 6.5" 7/8 5.0 Stg. 2.25° FBH, Size (in): 6.50, Bend Angle (°): 2.25, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.0	Paradigm	PDT65016SS	4 1/2" IF Box	4 1/2" Reg Box		6.500		24.96	25.96
UBHO Sub Description: NM DAO UBHO, Material: Non-Magnetic	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	28.22
Drill Collar Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	58.47
Drill Collar Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	88.73
Crossover Sub Description: X-O SUB, Material: Steel	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	91.73

MWD Items

No Items

BHA #5 - 8.75" LATERAL w/ Agitator

Date In: Aug 6, 2021, 16:30 Date Out: Aug 10, 2021, 17:45

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	7.0	Flow Range: 300-700 GPM,RPG: 0.25 , Max Diff: 1800 psi, Max Torque: 17100ft/lbs, Bit Runs: 0
Vendor	Reed	Lobe/Stage	7/8, 8.5	
S/N	A280805	Bend Angle	1.75	
Nozzles	7 x 14	Speed (rev/gal)	0.25	MWD Comments
Total Flow Area (in²)	1.052	Wear Pad OD (in)	7.375	
Drilling Hours for Day	0.00	Bit Distances		
Total Drilled for Day (ft)		Survey (Bit to Sensor): 55.00 ft, Gamma (Bit to Gamma): 40.00 ft		POOH Reason
Drilling Hours for BHA	47.58			
Total Drilled for BHA (ft)	7741.00			
				Total Depth/Casing Point: when motor reached rig floor we noticed fluid coming from body of motor

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: <i>TKC76</i> , Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in): <i>3.00</i> , Size (in): <i>8.75</i>	Reed	A280805	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: <i>7" 7/8 8.5 Stg . 1.75° Fxd. (Slick)</i> , Size (in): <i>7.00</i> , Bend Angle (°): <i>1.75</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>8.5</i>	Bico	BPB5700-0002	4 1/2" IF Box	4 1/2" Reg Box		7.000		30.12	31.12
UBHO Sub Description: <i>NM DAO UBHO</i> , Material: <i>Non-Magnetic</i>	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	33.38
Drill Collar Description: <i>NMDC (MWD Tool)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	63.63
Drill Collar Description: <i>NMDC (Spacer)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	93.89
Crossover Sub Description: <i>X-O SUB</i> , Material: <i>Steel</i>	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	96.89
Drill Pipe Description: <i>5.5" Drill Pipe - 22 Stands</i> , Type: <i>Slick</i>	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1969.49	2066.38
Crossover Sub Description: <i>4.5 IF (B) x EverDrill 54 (P)</i> , Material: <i>Steel</i>	BLACK DIAMOND	BD13825	4 1/2" IF Box	EverDrlg54 Pin	3.250	6.750		3.49	2069.87
Agitator Description: <i>Agitator</i> , Size (in): <i>7.00</i>	NOV	AGHF0675-0186	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.49	2094.36
Crossover Sub Description: <i>EverDrill 54 (B) x 4.5 IF (P)</i> , Material: <i>Steel</i>	BLACK DIAMOND	BD8074	EverDrlg54 Box	4 1/2" IF Pin	3.250	6.750		3.49	2097.85

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	08-05	23:45	00:05	08-06	11825.00	11853.00	Pressure On (psi): <i>2800.00</i> , Pressure Off (psi): <i>2300.00</i> , Weight On Bit (klbs): <i>40.00</i> , Surface RPM: <i>20</i> , Surface Torque (ft lbf): <i>14000.00</i> , Flow Rate (gpm): <i>6000.00</i> , Strokes Per Minute: <i>204.00</i>
Slide Drill	2	08-06	00:05	00:55	08-06	11853.00	11915.00	Pressure On (psi): <i>2850.00</i> , Pressure Off (psi): <i>2300.00</i> , Weight On Bit (klbs): <i>50.00</i> , Flow Rate (gpm): <i>600.00</i> , Strokes Per Minute: <i>204</i> , Toolface: <i>0</i> , Toolface Type: <i>gravity</i>
Survey	46	08-06	00:55	01:05	08-06	11915.00	11915.00	Inclination (°): <i>46.640</i> , Azimuth (°): <i>359.380</i> , TVD (ft): <i>11798.84</i> , Dogleg (°/100 ft): <i>11.48</i> , Sensor Depth (ft): <i>11866.00</i> , Bit To Sensor (ft): <i>49.00</i>
Rotary Drill	1	08-06	01:05	01:40	08-06	11915.00	11980.00	Pressure On (psi): <i>2800.00</i> , Pressure Off (psi): <i>2300.00</i> , Weight On Bit (klbs): <i>40.00</i> , Surface RPM: <i>20</i> , Surface Torque (ft lbf): <i>14000.00</i> , Flow Rate (gpm): <i>6000.00</i> , Strokes Per Minute: <i>204.00</i>
Slide Drill	2	08-06	01:40	02:05	08-06	11980.00	12005.00	Pressure On (psi): <i>2850.00</i> , Pressure Off (psi): <i>2300.00</i> , Weight On Bit (klbs): <i>50.00</i> , Flow Rate (gpm): <i>600.00</i> , Strokes Per Minute: <i>204</i> , Toolface: <i>0</i> , Toolface Type: <i>gravity</i>
Survey	46	08-06	02:05	02:15	08-06	12005.00	12005.00	Inclination (°): <i>55.650</i> , Azimuth (°): <i>359.120</i> , TVD (ft): <i>11855.24</i> , Dogleg (°/100 ft): <i>10.01</i> , Sensor Depth (ft): <i>11956.00</i> , Bit To Sensor (ft): <i>49.00</i>
Rotary Drill	1	08-06	02:15	02:45	08-06	12005.00	12065.00	Pressure On (psi): <i>2800.00</i> , Pressure Off (psi): <i>2300.00</i> , Weight On Bit (klbs): <i>40.00</i> , Surface RPM: <i>30</i> , Surface Torque (ft lbf): <i>14000.00</i> , Flow Rate (gpm): <i>6000.00</i> , Strokes Per Minute: <i>204.00</i>
Slide Drill	2	08-06	02:45	03:15	08-06	12065.00	12094.00	Pressure On (psi): <i>2850.00</i> , Pressure Off (psi): <i>2300.00</i> , Weight On Bit (klbs): <i>50.00</i> , Flow Rate (gpm): <i>600.00</i> , Strokes Per Minute: <i>204</i> , Toolface: <i>0</i> , Toolface Type: <i>gravity</i>

Survey	46	08-06	03:15	03:25	08-06	12094.00	12094.00	Inclination (°): 60.840, Azimuth (°): 357.970, TVD (ft): 11902.07, Dogleg (°/100 ft): 5.93, Sensor Depth (ft): 12045.00, Bit To Sensor (ft): 49.00
Rotary Drill	1	08-06	03:25	03:50	08-06	12094.00	12149.00	Pressure On (psi): 2800.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 40.00, Surface RPM: 30, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 6000.00, Strokes Per Minute: 204.00
Slide Drill	2	08-06	03:50	04:20	08-06	12149.00	12184.00	Pressure On (psi): 2850.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 600.00, Strokes Per Minute: 204, Toolface: 0, Toolface Type: gravity
Survey	46	08-06	04:20	04:30	08-06	12184.00	12184.00	Inclination (°): 65.760, Azimuth (°): 357.010, TVD (ft): 11942.50, Dogleg (°/100 ft): 5.55, Sensor Depth (ft): 12135.00, Bit To Sensor (ft): 49.00
Rotary Drill	1	08-06	04:30	04:40	08-06	12184.00	12191.00	Pressure On (psi): 2800.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 40.00, Surface RPM: 30, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 6000.00, Strokes Per Minute: 204.00
Slide Drill	2	08-06	04:40	04:55	08-06	12191.00	12217.00	Pressure On (psi): 2850.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 600.00, Strokes Per Minute: 204, Toolface: 30, Toolface Type: gravity
Rotary Drill	1	08-06	04:55	05:05	08-06	12217.00	12230.00	Pressure On (psi): 2800.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 40.00, Surface RPM: 30, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 6000.00, Strokes Per Minute: 204.00
Slide Drill	2	08-06	05:05	05:35	08-06	12230.00	12274.00	Pressure On (psi): 2850.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 600.00, Strokes Per Minute: 204, Toolface: 15, Toolface Type: gravity
Survey	46	08-06	05:35	05:45	08-06	12274.00	12274.00	Inclination (°): 76.000, Azimuth (°): 357.270, TVD (ft): 11971.94, Dogleg (°/100 ft): 11.38, Sensor Depth (ft): 12225.00, Bit To Sensor (ft): 49.00
Rotary Drill	1	08-06	05:45	06:00	08-06	12274.00	12303.00	Pressure On (psi): 2800.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 40.00, Surface RPM: 30, Surface Torque (ft lbf): 14000.00, Flow Rate (gpm): 6000.00, Strokes Per Minute: 204.00
Slide Drill	2	08-06	06:00	06:30	08-06	12303.00	12348.00	Pressure On (psi): 2850.00, Pressure Off (psi): 2300.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 600.00, Strokes Per Minute: 204, Toolface: 0, Toolface Type: gravity
Rotary Drill	1	08-06	06:30	06:40	08-06	12348.00	12363.00	
Survey	46	08-06	06:40	06:45	08-06	12363.00	12363.00	Inclination (°): 86.070, Azimuth (°): 359.640, TVD (ft): 11985.79, Dogleg (°/100 ft): 11.62, Sensor Depth (ft): 12314.00, Bit To Sensor (ft): 49.00
Circulating	3	08-06	06:45	08:00	08-06			Circulate @ Landing Point
Pooh	7	08-06	08:00	15:50	08-06			POOH for Lateral assembly
Lay Down BHA	65	08-06	15:50	16:30	08-06			L/D BHA #4
Pick Up BHA	64	08-06	16:30	17:05	08-06			P/U BHA #5 & Shallow test
TIH	8	08-06	17:05	21:15	08-06			TIH
Circulating	3	08-06	21:15	00:00	08-07			wash to 11406

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

Saturday, Aug 07 00:00 - 23:59 (Day 14 of 20)

Billing: \$4,300.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	12363.00	Downhole Hours	24.00	Rotating WOB (klbs)	40.00 - 45.00
Bit Depth (ft)	15626.00	Drilling Hours	19.67	Sliding WOB (klbs)	50.00 - 50.00
Bottom Hole Depth (ft)	15626.00	Hours Circulating	0.00	Rotating SPM	207.00 - 225.00
Total Distance (ft)	3263.00	Hours Sliding	3.33	Sliding SPM	222.00 - 222.00
Distance Rotated (ft)	2998.00	Hours Rotating	16.33	Motor RPM	40.00 - 40.00
Distance Slid (ft)	265.00			Surface RPM	40.00 - 40.00
Inclination In	90.81			Flow Rate (gpm)	600.00 - 650.00
Inclination Out	90.07			On Bottom Pressure (psi)	3650.00 - 4700.00
Azimuth In	0.35	% Hours Rotating	83%	Off Bottom Pressure (psi)	2955.00 - 3900.00
Azimuth Out	0.35	% Hours Sliding	17%		
AVG Total ROP (ft/h)	165.92	% Distance Sliding	8%		
AVG Rotating ROP (ft/h)	183.55	% Distance Rotating	92%		
AVG Sliding ROP (ft/h)	79.50				

Personnel

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

BHA #5 - 8.75" LATERAL w/ Agitator

Date In: Aug 6, 2021, 16:30 Date Out: Aug 10, 2021, 17:45

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	7.0	Flow Range: 300-700 GPM,RPG: 0.25 , Max Diff: 1800 psi, Max Torque: 17100ft/lbs, Bit Runs: 0
Vendor	Reed	Lobe/Stage	7/8, 8.5	
S/N	A280805	Bend Angle	1.75	
Nozzles	7 x 14	Speed (rev/gal)	0.25	MWD Comments
Total Flow Area (in²)	1.052	Wear Pad OD (in)	7.375	
Drilling Hours for Day	19.67	Bit Distances		POOH Reason Total Depth/Casing Point: when motor reached rig floor we noticed fluid coming from body of motor
Total Drilled for Day (ft)	3263.00	Survey (Bit to Sensor): 55.00 ft, Gamma (Bit to Gamma): 40.00 ft		
Drilling Hours for BHA	47.58			
Total Drilled for BHA (ft)	7741.00			

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: TKC76, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.00, Size (in): 8.75	Reed	A280805	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: 7" 7/8 8.5 Stg . 1.75° Fxd. (Slick), Size (in): 7.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 8.5	Bico	BPB5700-0002	4 1/2" IF Box	4 1/2" Reg Box		7.000		30.12	31.12
UBHO Sub Description: NM DAO UBHO, Material: Non-Magnetic	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	33.38
Drill Collar Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	63.63
Drill Collar Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	93.89
Crossover Sub Description: X-O SUB, Material: Steel	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	96.89
Drill Pipe Description: 5.5" Drill Pipe - 22 Stands, Type: Slick	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1969.49	2066.38
Crossover Sub Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel	BLACK DIAMOND	BD13825	4 1/2" IF Box	EverDrlg54 Pin	3.250	6.750		3.49	2069.87
Agitator Description: Agitator, Size (in): 7.00	NOV	AGHF0675-0186	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.49	2094.36
Crossover Sub Description: EverDrill 54 (B) x 4.5 IF (P), Material: Steel	BLACK DIAMOND	BD8074	EverDrlg54 Box	4 1/2" IF Pin	3.250	6.750		3.49	2097.85

MWD Items

No Items

Directional Activities

Activity Type	Code	Start Date	Start Time	End Time	End Date	Start (ft)	End (ft)	Comments/Details
Circulating	3	08-06	21:15	00:00	08-07			wash to 11406
TIH	8	08-07	00:00	00:50	08-07			TIH
Rotary Drill	1	08-07	00:50	01:05	08-07	12363.00	12400.00	Pressure On (psi): 3650.00, Pressure Off (psi): 2955.00, Weight On Bit (klbs): 40.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 600.00, Strokes Per Minute: 207.00
Survey	46	08-07	01:05	01:10	08-07	12400.00	12400.00	Inclination (°): 90.810, Azimuth (°): 0.350, TVD (ft): 11986.63, Dogleg (°/100 ft): 15.46, Sensor Depth (ft): 12345.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	01:10	01:50	08-07	12400.00	12489.00	Pressure On (psi): 3650.00, Pressure Off (psi): 2955.00, Weight On Bit (klbs): 40.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 600.00, Strokes Per Minute: 207.00
Survey	46	08-07	01:50	01:55	08-07	12489.00	12489.00	Inclination (°): 92.040, Azimuth (°): 359.820, TVD (ft): 11984.42, Dogleg (°/100 ft): 1.50, Sensor Depth (ft): 12434.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-07	01:55	02:05	08-07	12489.00	12499.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 150, Toolface Type: gravity
Rotary Drill	1	08-07	02:05	02:30	08-07	12499.00	12578.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	02:30	02:35	08-07	12578.00	12578.00	Inclination (°): 90.420, Azimuth (°): 0.790, TVD (ft): 11982.51, Dogleg (°/100 ft): 2.12, Sensor Depth (ft): 12523.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	02:35	03:05	08-07	12578.00	12668.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	03:05	03:10	08-07	12668.00	12668.00	Inclination (°): 90.990, Azimuth (°): 0.350, TVD (ft): 11981.40, Dogleg (°/100 ft): 0.80, Sensor Depth (ft): 12613.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	03:10	03:35	08-07	12668.00	12758.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	03:35	03:40	08-07	12758.00	12758.00	Inclination (°): 92.090, Azimuth (°): 359.730, TVD (ft): 11978.98, Dogleg (°/100 ft): 1.40, Sensor Depth (ft): 12703.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	03:40	04:10	08-07	12758.00	12847.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	04:10	04:15	08-07	12847.00	12847.00	Inclination (°): 93.100, Azimuth (°): 359.470, TVD (ft): 11974.95, Dogleg (°/100 ft): 1.17, Sensor Depth (ft): 12792.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-07	04:15	04:25	08-07	12847.00	12867.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 180, Toolface Type: gravity
Rotary Drill	1	08-07	04:25	04:55	08-07	12867.00	12937.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	04:55	05:00	08-07	12937.00	12937.00	Inclination (°): 90.640, Azimuth (°): 358.770, TVD (ft): 11972.02, Dogleg (°/100 ft): 2.84, Sensor Depth (ft): 12882.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	05:00	05:20	08-07	12937.00	13026.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	05:20	05:25	08-07	13026.00	13026.00	Inclination (°): 90.900, Azimuth (°): 358.410, TVD (ft): 11970.82, Dogleg (°/100 ft): 0.50, Sensor Depth (ft): 12971.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	05:25	05:30	08-07	13026.00	13032.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 21750.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Slide Drill	2	08-07	05:30	05:40	08-07	13032.00	13042.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 145, Toolface Type: gravity
Rotary Drill	1	08-07	05:40	05:55	08-07	13042.00	13116.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	05:55	06:00	08-07	13116.00	13116.00	Inclination (°): 89.710, Azimuth (°): 358.240, TVD (ft): 11970.34, Dogleg (°/100 ft): 1.34, Sensor Depth (ft): 13061.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	06:00	06:30	08-07	13116.00	13206.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	06:30	06:35	08-07	13206.00	13206.00	Inclination (°): 89.580, Azimuth (°): 357.270, TVD (ft): 11970.90, Dogleg (°/100 ft): 1.09, Sensor Depth (ft): 13151.00, Bit To Sensor (ft): 55.00

Rotary Drill	1	08-07	06:35	06:45	08-07	13206.00	13220.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Other	16	08-07	06:45	07:05	08-07			Loss rig power , put generators back online
Slide Drill	2	08-07	07:05	07:20	08-07	13220.00	13240.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 70, Toolface Type: gravity
Rotary Drill	1	08-07	07:20	07:40	08-07	13240.00	13295.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	07:40	07:45	08-07	13295.00	13295.00	Inclination (°): 90.110, Azimuth (°): 359.120, TVD (ft): 11971.14, Dogleg (°/100 ft): 2.16, Sensor Depth (ft): 13240.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	07:45	08:20	08-07	13295.00	13385.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	08:20	08:25	08-07	13385.00	13385.00	Inclination (°): 91.160, Azimuth (°): 359.030, TVD (ft): 11970.14, Dogleg (°/100 ft): 1.17, Sensor Depth (ft): 13330.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	08:25	08:50	08-07	13385.00	13474.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	08:50	08:55	08-07	13474.00	13474.00	Inclination (°): 92.400, Azimuth (°): 358.410, TVD (ft): 11967.38, Dogleg (°/100 ft): 1.56, Sensor Depth (ft): 13419.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	08:55	09:05	08-07	13474.00	13488.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Slide Drill	2	08-07	09:05	09:20	08-07	13488.00	13504.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 135, Toolface Type: gravity
Other	16	08-07	09:20	09:30	08-07			Downlink MWD
Rotary Drill	1	08-07	09:30	09:50	08-07	13504.00	13564.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	09:50	09:55	08-07	13564.00	13564.00	Inclination (°): 90.680, Azimuth (°): 358.590, TVD (ft): 11964.96, Dogleg (°/100 ft): 1.92, Sensor Depth (ft): 13509.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	09:55	10:15	08-07	13564.00	13654.00	Pressure On (psi): 4200.00, Pressure Off (psi): 3300.00, Weight On Bit (klbs): 42.00, Surface RPM: 40, Surface Torque (ft lbf): 23500.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	10:15	10:20	08-07	13654.00	13654.00	Inclination (°): 90.680, Azimuth (°): 357.970, TVD (ft): 11963.89, Dogleg (°/100 ft): 0.69, Sensor Depth (ft): 13599.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	10:20	10:25	08-07	13654.00	13668.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Slide Drill	2	08-07	10:25	10:50	08-07	13668.00	13696.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 80, Toolface Type: gravity
Rotary Drill	1	08-07	10:50	11:05	08-07	13696.00	13743.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	11:05	11:10	08-07	13743.00	13743.00	Inclination (°): 91.340, Azimuth (°): 0.260, TVD (ft): 11962.32, Dogleg (°/100 ft): 2.68, Sensor Depth (ft): 13688.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	11:10	11:35	08-07	13743.00	13833.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	11:35	11:40	08-07	13833.00	13833.00	Inclination (°): 92.180, Azimuth (°): 359.820, TVD (ft): 11959.56, Dogleg (°/100 ft): 1.05, Sensor Depth (ft): 13778.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	11:40	12:00	08-07	13833.00	13923.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	12:00	12:05	08-07	13923.00	13923.00	Inclination (°): 92.790, Azimuth (°): 358.850, TVD (ft): 11955.66, Dogleg (°/100 ft): 1.27, Sensor Depth (ft): 13868.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	12:05	12:15	08-07	13923.00	13937.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Slide Drill	2	08-07	12:15	12:35	08-07	13937.00	13959.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 150, Toolface Type: gravity

Rotary Drill	1	08-07	12:35	12:50	08-07	13959.00	14012.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	12:50	12:55	08-07	14012.00	14012.00	Inclination (°): 91.600, Azimuth (°): 359.120, TVD (ft): 11952.25, Dogleg (°/100 ft): 1.37, Sensor Depth (ft): 13957.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	12:55	13:05	08-07	14012.00	14024.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Slide Drill	2	08-07	13:05	13:20	08-07	14024.00	14045.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 115, Toolface Type: gravity
Rotary Drill	1	08-07	13:20	13:30	08-07	14045.00	14102.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	13:30	13:35	08-07	14102.00	14102.00	Inclination (°): 91.030, Azimuth (°): 1.670, TVD (ft): 11950.18, Dogleg (°/100 ft): 2.90, Sensor Depth (ft): 14047.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	13:35	14:05	08-07	14102.00	14192.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	14:05	14:10	08-07	14192.00	14192.00	Inclination (°): 92.260, Azimuth (°): 1.140, TVD (ft): 11947.60, Dogleg (°/100 ft): 1.49, Sensor Depth (ft): 14137.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	14:10	14:15	08-07	14192.00	14208.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Slide Drill	2	08-07	14:15	14:35	08-07	14208.00	14233.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 150, Toolface Type: gravity
Rotary Drill	1	08-07	14:35	14:45	08-07	14233.00	14282.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	14:45	14:50	08-07	14282.00	14282.00	Inclination (°): 90.200, Azimuth (°): 1.670, TVD (ft): 11945.67, Dogleg (°/100 ft): 2.36, Sensor Depth (ft): 14227.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	14:50	15:20	08-07	14282.00	14371.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	15:20	15:25	08-07	14371.00	14371.00	Inclination (°): 90.730, Azimuth (°): 0.960, TVD (ft): 11944.94, Dogleg (°/100 ft): 1.00, Sensor Depth (ft): 14316.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	15:25	15:50	08-07	14371.00	14461.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	15:50	15:55	08-07	14461.00	14461.00	Inclination (°): 91.340, Azimuth (°): 0.430, TVD (ft): 11943.32, Dogleg (°/100 ft): 0.90, Sensor Depth (ft): 14406.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	15:55	16:20	08-07	14461.00	14551.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	16:20	16:25	08-07	14551.00	14551.00	Inclination (°): 92.220, Azimuth (°): 0.000, TVD (ft): 11940.52, Dogleg (°/100 ft): 1.09, Sensor Depth (ft): 14496.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	16:25	16:40	08-07	14551.00	14565.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Slide Drill	2	08-07	16:40	17:00	08-07	14565.00	14593.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 160, Toolface Type: gravity
Rotary Drill	1	08-07	17:00	17:15	08-07	14593.00	14640.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	17:15	17:20	08-07	14640.00	14640.00	Inclination (°): 89.100, Azimuth (°): 359.640, TVD (ft): 11939.50, Dogleg (°/100 ft): 3.53, Sensor Depth (ft): 14585.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	17:20	17:45	08-07	14640.00	14730.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	17:45	17:50	08-07	14730.00	14730.00	Inclination (°): 89.630, Azimuth (°): 359.560, TVD (ft): 11940.49, Dogleg (°/100 ft): 0.60, Sensor Depth (ft): 14675.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	17:50	18:20	08-07	14730.00	14820.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00

Survey	46	08-07	18:20	18:25	08-07	14820.00	14820.00	Inclination (°): 90.590, Azimuth (°): 357.970, TVD (ft): 11940.32, Dogleg (°/100 ft): 2.06, Sensor Depth (ft): 14765.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	18:25	18:55	08-07	14820.00	14909.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	18:55	19:00	08-07	14909.00	14909.00	Inclination (°): 91.030, Azimuth (°): 357.010, TVD (ft): 11939.06, Dogleg (°/100 ft): 1.19, Sensor Depth (ft): 14854.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	19:00	19:05	08-07	14909.00	14918.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Slide Drill	2	08-07	19:05	19:20	08-07	14918.00	14943.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 110, Toolface Type: gravity
Rotary Drill	1	08-07	19:20	19:35	08-07	14943.00	14999.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	19:35	19:40	08-07	14999.00	14999.00	Inclination (°): 89.320, Azimuth (°): 358.500, TVD (ft): 11938.79, Dogleg (°/100 ft): 2.52, Sensor Depth (ft): 14944.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	19:40	20:00	08-07	14999.00	15089.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	20:00	20:05	08-07	15089.00	15089.00	Inclination (°): 89.580, Azimuth (°): 359.030, TVD (ft): 11939.65, Dogleg (°/100 ft): 0.66, Sensor Depth (ft): 15034.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	20:05	20:20	08-07	15089.00	15178.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	20:20	20:25	08-07	15178.00	15178.00	Inclination (°): 89.760, Azimuth (°): 358.410, TVD (ft): 11940.17, Dogleg (°/100 ft): 0.73, Sensor Depth (ft): 15123.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	20:25	21:00	08-07	15178.00	15268.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	21:00	21:05	08-07	15268.00	15268.00	Inclination (°): 90.330, Azimuth (°): 357.530, TVD (ft): 11940.09, Dogleg (°/100 ft): 1.16, Sensor Depth (ft): 15213.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	21:05	21:45	08-07	15268.00	15358.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	21:45	21:50	08-07	15358.00	15358.00	Inclination (°): 90.950, Azimuth (°): 356.570, TVD (ft): 11939.09, Dogleg (°/100 ft): 1.27, Sensor Depth (ft): 15303.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-07	21:50	22:15	08-07	15358.00	15398.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 95, Toolface Type: gravity
Rotary Drill	1	08-07	22:15	22:35	08-07	15398.00	15447.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	22:35	22:40	08-07	15447.00	15447.00	Inclination (°): 89.630, Azimuth (°): 359.560, TVD (ft): 11938.64, Dogleg (°/100 ft): 3.67, Sensor Depth (ft): 15392.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	22:40	23:20	08-07	15447.00	15537.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-07	23:20	23:25	08-07	15537.00	15537.00	Inclination (°): 90.070, Azimuth (°): 0.350, TVD (ft): 11938.87, Dogleg (°/100 ft): 1.00, Sensor Depth (ft): 15482.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-07	23:25	00:00	08-08	15537.00	15626.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

Sunday, Aug 08 00:00 - 23:59 (Day 15 of 20)

Billing: \$4,300.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	15626.00	Downhole Hours	24.00	Rotating WOB (klbs)	45.00 - 45.00
Bit Depth (ft)	19028.00	Drilling Hours	20.33	Sliding WOB (klbs)	50.00 - 55.00
Bottom Hole Depth (ft)	19028.00	Hours Circulating	0.00	Rotating SPM	225.00 - 234.00
Total Distance (ft)	3402.00	Hours Sliding	4.17	Sliding SPM	222.00 - 240.00
Distance Rotated (ft)	3122.00	Hours Rotating	16.17	Motor RPM	40.00 - 40.00
Distance Slid (ft)	280.00			Surface RPM	40.00 - 40.00
Inclination In	90.95			Flow Rate (gpm)	650.00 - 682.00
Inclination Out	92.48			On Bottom Pressure (psi)	3900.00 - 4700.00
Azimuth In	359.73	% Hours Rotating	80%	Off Bottom Pressure (psi)	3500.00 - 4100.00
Azimuth Out	359.56	% Hours Sliding	20%		
AVG Total ROP (ft/h)	166.90	% Distance Sliding	8%		
AVG Rotating ROP (ft/h)	191.70	% Distance Rotating	92%		
AVG Sliding ROP (ft/h)	67.20				

Personnel

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

BHA #5 - 8.75" LATERAL w/ Agitator

Date In: Aug 6, 2021, 16:30 Date Out: Aug 10, 2021, 17:45

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	7.0	Flow Range: 300-700 GPM,RPG: 0.25 , Max Diff: 1800 psi, Max Torque: 17100ft/lbs, Bit Runs: 0
Vendor	Reed	Lobe/Stage	7/8, 8.5	
S/N	A280805	Bend Angle	1.75	
Nozzles	7 x 14	Speed (rev/gal)	0.25	MWD Comments
Total Flow Area (in²)	1.052	Wear Pad OD (in)	7.375	POOH Reason Total Depth/Casing Point: when motor reached rig floor we noticed fluid coming from body of motor
Drilling Hours for Day	20.33	Bit Distances		
Total Drilled for Day (ft)	3402.00	Survey (Bit to Sensor): 55.00 ft, Gamma (Bit to Gamma): 40.00 ft		
Drilling Hours for BHA	47.58			
Total Drilled for BHA (ft)	7741.00			

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: TKC76, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.00, Size (in): 8.75	Reed	A280805	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: 7" 7/8 8.5 Stg . 1.75° Fxd. (Slick), Size (in): 7.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 8.5	Bico	BPB5700-0002	4 1/2" IF Box	4 1/2" Reg Box		7.000		30.12	31.12
UBHO Sub Description: NM DAO UBHO, Material: Non-Magnetic	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	33.38
Drill Collar Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	63.63
Drill Collar Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	93.89
Crossover Sub Description: X-O SUB, Material: Steel	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	96.89
Drill Pipe Description: 5.5" Drill Pipe - 22 Stands, Type: Slick	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1969.49	2066.38
Crossover Sub Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel	BLACK DIAMOND	BD13825	4 1/2" IF Box	EverDrlg54 Pin	3.250	6.750		3.49	2069.87
Agitator Description: Agitator, Size (in): 7.00	NOV	AGHF0675-0186	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.49	2094.36
Crossover Sub Description: EverDrill 54 (B) x 4.5 IF (P), Material: Steel	BLACK DIAMOND	BD8074	EverDrlg54 Box	4 1/2" IF Pin	3.250	6.750		3.49	2097.85

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	08-07	23:25	00:00	08-08	15537.00	15626.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-08	00:00	00:05	08-08	15626.00	15626.00	Inclination (°): 90.950, Azimuth (°): 359.730, TVD (ft): 11938.08, Dogleg (°/100 ft): 1.21, Sensor Depth (ft): 15571.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	00:05	00:30	08-08	15626.00	15716.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-08	00:30	00:35	08-08	15716.00	15716.00	Inclination (°): 91.870, Azimuth (°): 359.470, TVD (ft): 11935.87, Dogleg (°/100 ft): 1.06, Sensor Depth (ft): 15661.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-08	00:35	00:50	08-08	15716.00	15741.00	Pressure On (psi): 3900.00, Pressure Off (psi): 3500.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 222, Toolface: 120, Toolface Type: gravity
Rotary Drill	1	08-08	00:50	01:15	08-08	15741.00	15805.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-08	01:15	01:20	08-08	15805.00	15805.00	Inclination (°): 89.980, Azimuth (°): 1.490, TVD (ft): 11934.43, Dogleg (°/100 ft): 3.11, Sensor Depth (ft): 15750.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	01:20	01:50	08-08	15805.00	15895.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-08	01:50	01:55	08-08	15895.00	15895.00	Inclination (°): 90.420, Azimuth (°): 1.580, TVD (ft): 11934.12, Dogleg (°/100 ft): 0.50, Sensor Depth (ft): 15840.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	01:55	02:25	08-08	15895.00	15985.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-08	02:25	02:30	08-08	15985.00	15985.00	Inclination (°): 90.950, Azimuth (°): 0.350, TVD (ft): 11933.04, Dogleg (°/100 ft): 1.49, Sensor Depth (ft): 15930.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	02:30	03:00	08-08	15985.00	16074.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-08	03:00	03:05	08-08	16074.00	16074.00	Inclination (°): 91.120, Azimuth (°): 359.820, TVD (ft): 11931.43, Dogleg (°/100 ft): 0.63, Sensor Depth (ft): 16019.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	03:05	03:35	08-08	16074.00	16164.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 24000.00, Flow Rate (gpm): 650.00, Strokes Per Minute: 225.00
Survey	46	08-08	03:35	03:40	08-08	16164.00	16164.00	Inclination (°): 90.770, Azimuth (°): 359.470, TVD (ft): 11929.95, Dogleg (°/100 ft): 0.55, Sensor Depth (ft): 16109.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	03:40	04:10	08-08	16164.00	16253.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	04:10	04:15	08-08	16253.00	16253.00	Inclination (°): 91.080, Azimuth (°): 358.940, TVD (ft): 11928.51, Dogleg (°/100 ft): 0.69, Sensor Depth (ft): 16198.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	04:15	04:40	08-08	16253.00	16342.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	04:40	04:45	08-08	16342.00	16342.00	Inclination (°): 91.470, Azimuth (°): 357.970, TVD (ft): 11926.53, Dogleg (°/100 ft): 1.17, Sensor Depth (ft): 16287.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-08	04:45	05:15	08-08	16342.00	16372.00	Pressure On (psi): 4300.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 678.00, Strokes Per Minute: 234, Toolface: 110, Toolface Type: gravity
Rotary Drill	1	08-08	05:15	05:30	08-08	16372.00	16432.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	05:30	05:40	08-08	16432.00	16432.00	Inclination (°): 90.110, Azimuth (°): 0.260, TVD (ft): 11925.29, Dogleg (°/100 ft): 2.96, Sensor Depth (ft): 16377.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	05:40	06:05	08-08	16432.00	16521.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	06:05	06:10	08-08	16521.00	16521.00	Inclination (°): 90.460, Azimuth (°): 359.470, TVD (ft): 11924.85, Dogleg (°/100 ft): 0.97, Sensor Depth (ft): 16466.00, Bit To Sensor (ft): 55.00

Rotary Drill	1	08-08	06:10	06:35	08-08	16521.00	16611.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	06:35	06:40	08-08	16611.00	16611.00	Inclination (°): 91.030, Azimuth (°): 358.590, TVD (ft): 11923.68, Dogleg (°/100 ft): 1.16, Sensor Depth (ft): 16556.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	06:40	06:45	08-08	16611.00	16625.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Slide Drill	2	08-08	06:45	07:25	08-08	16625.00	16653.00	Pressure On (psi): 4300.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 678.00, Strokes Per Minute: 234, Toolface: 80, Toolface Type: gravity
Rotary Drill	1	08-08	07:25	07:40	08-08	16653.00	16700.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	07:40	07:45	08-08	16700.00	16700.00	Inclination (°): 92.000, Azimuth (°): 0.790, TVD (ft): 11921.32, Dogleg (°/100 ft): 2.70, Sensor Depth (ft): 16645.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	07:45	08:15	08-08	16700.00	16790.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	08:15	08:20	08-08	16790.00	16790.00	Inclination (°): 92.260, Azimuth (°): 0.350, TVD (ft): 11917.98, Dogleg (°/100 ft): 0.57, Sensor Depth (ft): 16735.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	08:20	08:45	08-08	16790.00	16879.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	08:45	08:50	08-08	16879.00	16879.00	Inclination (°): 92.970, Azimuth (°): 0.080, TVD (ft): 11913.92, Dogleg (°/100 ft): 0.85, Sensor Depth (ft): 16824.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	08:50	09:00	08-08	16879.00	16892.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Slide Drill	2	08-08	09:00	09:20	08-08	16892.00	16920.00	Pressure On (psi): 4300.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 678.00, Strokes Per Minute: 234, Toolface: 170, Toolface Type: gravity
Rotary Drill	1	08-08	09:20	09:35	08-08	16920.00	16969.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	09:35	09:40	08-08	16969.00	16969.00	Inclination (°): 90.290, Azimuth (°): 359.640, TVD (ft): 11911.36, Dogleg (°/100 ft): 3.02, Sensor Depth (ft): 16914.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	09:40	10:05	08-08	16969.00	17058.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	10:05	10:10	08-08	17058.00	17058.00	Inclination (°): 90.110, Azimuth (°): 359.030, TVD (ft): 11911.05, Dogleg (°/100 ft): 0.71, Sensor Depth (ft): 17003.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	10:10	10:35	08-08	17058.00	17148.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	10:35	10:40	08-08	17148.00	17148.00	Inclination (°): 90.730, Azimuth (°): 358.500, TVD (ft): 11910.39, Dogleg (°/100 ft): 0.91, Sensor Depth (ft): 17093.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	10:40	11:10	08-08	17148.00	17238.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	11:10	11:15	08-08	17238.00	17238.00	Inclination (°): 90.950, Azimuth (°): 357.360, TVD (ft): 11909.07, Dogleg (°/100 ft): 1.29, Sensor Depth (ft): 17183.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	11:15	11:20	08-08	17238.00	17250.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Slide Drill	2	08-08	11:20	11:50	08-08	17250.00	17285.00	Pressure On (psi): 4300.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 678.00, Strokes Per Minute: 234, Toolface: 90, Toolface Type: gravity
Rotary Drill	1	08-08	11:50	12:05	08-08	17285.00	17327.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	12:05	12:10	08-08	17327.00	17327.00	Inclination (°): 91.340, Azimuth (°): 359.560, TVD (ft): 11907.29, Dogleg (°/100 ft): 2.51, Sensor Depth (ft): 17272.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	12:10	12:30	08-08	17327.00	17417.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00

Survey	46	08-08	12:30	12:35	08-08	17417.00	17417.00	Inclination (°): 92.620, Azimuth (°): 359.560, TVD (ft): 11904.18, Dogleg (°/100 ft): 1.42, Sensor Depth (ft): 17362.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	12:35	12:45	08-08	17417.00	17433.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Slide Drill	2	08-08	12:45	13:15	08-08	17433.00	17464.00	Pressure On (psi): 4300.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 678.00, Strokes Per Minute: 234, Toolface: 150, Toolface Type: gravity
Rotary Drill	1	08-08	13:15	13:25	08-08	17464.00	17506.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	13:25	13:30	08-08	17506.00	17506.00	Inclination (°): 90.460, Azimuth (°): 0.520, TVD (ft): 11901.79, Dogleg (°/100 ft): 2.66, Sensor Depth (ft): 17451.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	13:30	13:50	08-08	17506.00	17596.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	13:50	13:55	08-08	17596.00	17596.00	Inclination (°): 90.020, Azimuth (°): 0.870, TVD (ft): 11901.41, Dogleg (°/100 ft): 0.62, Sensor Depth (ft): 17541.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	13:55	14:20	08-08	17596.00	17685.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	14:20	14:25	08-08	17685.00	17685.00	Inclination (°): 90.460, Azimuth (°): 0.080, TVD (ft): 11901.04, Dogleg (°/100 ft): 1.02, Sensor Depth (ft): 17630.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	14:25	14:55	08-08	17685.00	17775.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	14:55	15:00	08-08	17775.00	17775.00	Inclination (°): 90.370, Azimuth (°): 359.120, TVD (ft): 11900.39, Dogleg (°/100 ft): 1.07, Sensor Depth (ft): 17720.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	15:00	15:10	08-08	17775.00	17792.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Slide Drill	2	08-08	15:10	15:30	08-08	17792.00	17810.00	Toolface: 150, Toolface Type: gravity
Rotary Drill	1	08-08	15:30	15:50	08-08	17810.00	17865.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	15:50	15:55	08-08	17865.00	17865.00	Inclination (°): 89.360, Azimuth (°): 359.380, TVD (ft): 11900.60, Dogleg (°/100 ft): 1.16, Sensor Depth (ft): 17810.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	15:55	16:20	08-08	17865.00	17954.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Other	16	08-08	16:20	16:35	08-08			SPR's
Survey	46	08-08	16:35	16:40	08-08	17954.00	17954.00	Inclination (°): 89.540, Azimuth (°): 359.290, TVD (ft): 11901.45, Dogleg (°/100 ft): 0.23, Sensor Depth (ft): 17899.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	16:40	17:10	08-08	17954.00	18044.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	17:10	17:15	08-08	18044.00	18044.00	Inclination (°): 90.330, Azimuth (°): 358.060, TVD (ft): 11901.56, Dogleg (°/100 ft): 1.62, Sensor Depth (ft): 17989.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	17:15	17:20	08-08	18044.00	18057.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Slide Drill	2	08-08	17:20	17:50	08-08	18057.00	18092.00	Toolface: 75, Toolface Type: gravity
Rotary Drill	1	08-08	17:50	18:05	08-08	18092.00	18133.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	18:05	18:10	08-08	18133.00	18133.00	Inclination (°): 91.300, Azimuth (°): 0.790, TVD (ft): 11900.29, Dogleg (°/100 ft): 3.25, Sensor Depth (ft): 18078.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	18:10	18:35	08-08	18133.00	18223.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	18:35	18:40	08-08	18223.00	18223.00	Inclination (°): 92.260, Azimuth (°): 1.490, TVD (ft): 11897.49, Dogleg (°/100 ft): 1.32, Sensor Depth (ft): 18168.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	18:40	19:10	08-08	18223.00	18312.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00

Survey	46	08-08	19:10	19:15	08-08	18312.00	18312.00	Inclination (°): 93.270, Azimuth (°): 0.870, TVD (ft): 11893.20, Dogleg (°/100 ft): 1.33, Sensor Depth (ft): 18257.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-08	19:15	19:30	08-08	18312.00	18337.00	Pressure On (psi): 4500.00, Pressure Off (psi): 4100.00, Weight On Bit (klbs): 55.00, Flow Rate (gpm): 682.00, Strokes Per Minute: 240, Toolface: 150, Toolface Type: gravity
Rotary Drill	1	08-08	19:30	20:00	08-08	18337.00	18402.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	20:00	20:05	08-08	18402.00	18402.00	Inclination (°): 90.860, Azimuth (°): 1.670, TVD (ft): 11889.96, Dogleg (°/100 ft): 2.82, Sensor Depth (ft): 18347.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	20:05	20:30	08-08	18402.00	18491.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	20:30	20:35	08-08	18491.00	18491.00	Inclination (°): 91.470, Azimuth (°): 1.930, TVD (ft): 11888.15, Dogleg (°/100 ft): 0.75, Sensor Depth (ft): 18436.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	20:35	21:00	08-08	18491.00	18580.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	21:00	21:10	08-08	18580.00	18580.00	Inclination (°): 92.530, Azimuth (°): 1.400, TVD (ft): 11885.04, Dogleg (°/100 ft): 1.33, Sensor Depth (ft): 18525.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-08	21:10	21:30	08-08	18580.00	18605.00	Pressure On (psi): 4500.00, Pressure Off (psi): 4100.00, Weight On Bit (klbs): 55.00, Flow Rate (gpm): 682.00, Strokes Per Minute: 240, Toolface: 175, Toolface Type: gravity
Rotary Drill	1	08-08	21:30	21:50	08-08	18605.00	18670.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	21:50	21:55	08-08	18670.00	18670.00	Inclination (°): 89.360, Azimuth (°): 0.700, TVD (ft): 11883.56, Dogleg (°/100 ft): 3.61, Sensor Depth (ft): 18615.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	21:55	22:25	08-08	18670.00	18760.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	22:25	22:30	08-08	18760.00	18760.00	Inclination (°): 89.850, Azimuth (°): 0.170, TVD (ft): 11884.18, Dogleg (°/100 ft): 0.80, Sensor Depth (ft): 18705.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	22:30	23:00	08-08	18760.00	18850.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	23:00	23:05	08-08	18850.00	18850.00	Inclination (°): 90.810, Azimuth (°): 359.640, TVD (ft): 11883.66, Dogleg (°/100 ft): 1.22, Sensor Depth (ft): 18795.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	23:05	23:25	08-08	18850.00	18939.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	23:25	23:30	08-08	18939.00	18939.00	Inclination (°): 91.690, Azimuth (°): 359.290, TVD (ft): 11881.72, Dogleg (°/100 ft): 1.06, Sensor Depth (ft): 18884.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-08	23:30	23:55	08-08	18939.00	19028.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-08	23:55	00:00	08-09	19028.00	19028.00	Inclination (°): 92.480, Azimuth (°): 359.560, TVD (ft): 11878.48, Dogleg (°/100 ft): 0.94, Sensor Depth (ft): 18973.00, Bit To Sensor (ft): 55.00

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

Monday, Aug 09 00:00 - 23:59 (Day 16 of 20)

Billing: \$4,300.00 (\$95,663.76 total)

Drilling Summary				Drilling Parameters	
Start Depth (ft)	19028.00	Downhole Hours	24.00	Rotating WOB (klbs)	45.00 - 45.00
Bit Depth (ft)	20104.00	Drilling Hours	7.58	Sliding WOB (klbs)	55.00 - 55.00
Bottom Hole Depth (ft)	20104.00	Hours Circulating	6.58	Rotating SPM	234.00 - 234.00
Total Distance (ft)	1076.00	Hours Sliding	1.25	Sliding SPM	240.00 - 240.00
Distance Rotated (ft)	1002.00	Hours Rotating	6.33	Motor RPM	40.00 - 40.00
Distance Slid (ft)	74.00			Surface RPM	40.00 - 40.00
Inclination In	93.41			Flow Rate (gpm)	677.00 - 682.00
Inclination Out	91.91			On Bottom Pressure (psi)	4500.00 - 4700.00
Azimuth In	359.29	% Hours Rotating	84%	Off Bottom Pressure (psi)	3900.00 - 4100.00
Azimuth Out	358.85	% Hours Sliding	16%		
AVG Total ROP (ft/h)	141.89	% Distance Sliding	7%		
AVG Rotating ROP (ft/h)	158.21	% Distance Rotating	93%		
AVG Sliding ROP (ft/h)	59.20				

Personnel

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

BHA #5 - 8.75" LATERAL w/ Agitator

Date In: Aug 6, 2021, 16:30 Date Out: Aug 10, 2021, 17:45

Bit Details		Motor Details		Directional Comments
OD (in)	8.750	Size (in)	7.0	Flow Range: 300-700 GPM, RPG: 0.25 , Max Diff: 1800 psi, Max Torque: 17100ft/lbs, Bit Runs: 0
Vendor	Reed	Lobe/Stage	7/8, 8.5	
S/N	A280805	Bend Angle	1.75	MWD Comments
Nozzles	7 x 14	Speed (rev/gal)	0.25	
Total Flow Area (in²)	1.052	Wear Pad OD (in)	7.375	POOH Reason Total Depth/Casing Point: when motor reached rig floor we noticed fluid coming from body of motor
Drilling Hours for Day	7.58	Bit Distances		
Total Drilled for Day (ft)	1076.00	Survey (Bit to Sensor): 55.00 ft, Gamma (Bit to Gamma): 40.00 ft		
Drilling Hours for BHA	47.58			
Total Drilled for BHA (ft)	7741.00			

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: <i>TKC76, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.00, Size (in): 8.75</i>	Reed	A280805	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: <i>7" 7/8 8.5 Stg . 1.75° Fxd. (Slick), Size (in): 7.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 8.5</i>	Bico	BPB5700-0002	4 1/2" IF Box	4 1/2" Reg Box		7.000		30.12	31.12
UBHO Sub Description: <i>NM DAO UBHO, Material: Non-Magnetic</i>	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	33.38
Drill Collar Description: <i>NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill</i>	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	63.63
Drill Collar Description: <i>NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill</i>	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	93.89
Crossover Sub Description: <i>X-O SUB, Material: Steel</i>	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	96.89
Drill Pipe Description: <i>5.5" Drill Pipe - 22 Stands, Type: Slick</i>	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1969.49	2066.38
Crossover Sub Description: <i>4.5 IF (B) x EverDrill 54 (P), Material: Steel</i>	BLACK DIAMOND	BD13825	4 1/2" IF Box	EverDrlg54 Pin	3.250	6.750		3.49	2069.87
Agitator Description: <i>Agitator, Size (in): 7.00</i>	NOV	AGHF0675-0186	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.49	2094.36
Crossover Sub Description: <i>EverDrill 54 (B) x 4.5 IF (P), Material: Steel</i>	BLACK DIAMOND	BD8074	EverDrlg54 Box	4 1/2" IF Pin	3.250	6.750		3.49	2097.85

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	08-08	23:55	00:00	08-09	19028.00	19028.00	Inclination (°): 92.480, Azimuth (°): 359.560, TVD (ft): 11878.48, Dogleg (°/100 ft): 0.94, Sensor Depth (ft): 18973.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	00:00	00:25	08-09	19028.00	19118.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	00:25	00:30	08-09	19118.00	19118.00	Inclination (°): 93.410, Azimuth (°): 359.290, TVD (ft): 11873.86, Dogleg (°/100 ft): 1.08, Sensor Depth (ft): 19063.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-09	00:30	01:05	08-09	19118.00	19157.00	Pressure On (psi): 4500.00, Pressure Off (psi): 4100.00, Weight On Bit (klbs): 55.00, Flow Rate (gpm): 682.00, Strokes Per Minute: 240, Toolface: 150, Toolface Type: gravity
Rotary Drill	1	08-09	01:05	01:25	08-09	19157.00	19207.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	01:25	01:30	08-09	19207.00	19207.00	Inclination (°): 89.580, Azimuth (°): 359.290, TVD (ft): 11871.54, Dogleg (°/100 ft): 4.30, Sensor Depth (ft): 19152.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	01:30	02:00	08-09	19207.00	19297.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	02:00	02:05	08-09	19297.00	19297.00	Inclination (°): 89.670, Azimuth (°): 359.470, TVD (ft): 11872.12, Dogleg (°/100 ft): 0.22, Sensor Depth (ft): 19242.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	02:05	02:35	08-09	19297.00	19387.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	02:35	02:40	08-09	19387.00	19387.00	Inclination (°): 90.730, Azimuth (°): 359.120, TVD (ft): 11871.81, Dogleg (°/100 ft): 1.24, Sensor Depth (ft): 19332.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	02:40	03:15	08-09	19387.00	19476.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	03:15	03:20	08-09	19476.00	19476.00	Inclination (°): 91.780, Azimuth (°): 358.940, TVD (ft): 11869.86, Dogleg (°/100 ft): 1.20, Sensor Depth (ft): 19421.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	03:20	03:50	08-09	19476.00	19565.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	03:50	04:05	08-09	19565.00	19565.00	Inclination (°): 92.790, Azimuth (°): 359.030, TVD (ft): 11866.31, Dogleg (°/100 ft): 1.14, Sensor Depth (ft): 19510.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	04:05	04:25	08-09	19565.00	19655.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	04:25	04:30	08-09	19655.00	19655.00	Inclination (°): 93.710, Azimuth (°): 359.120, TVD (ft): 11861.21, Dogleg (°/100 ft): 1.03, Sensor Depth (ft): 19600.00, Bit To Sensor (ft): 55.00
Slide Drill	2	08-09	04:30	05:10	08-09	19655.00	19690.00	Pressure On (psi): 4500.00, Pressure Off (psi): 4100.00, Weight On Bit (klbs): 55.00, Flow Rate (gpm): 682.00, Strokes Per Minute: 240, Toolface: 160, Toolface Type: gravity
Rotary Drill	1	08-09	05:10	05:30	08-09	19690.00	19744.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	05:30	05:35	08-09	19744.00	19744.00	Inclination (°): 90.110, Azimuth (°): 359.200, TVD (ft): 11858.24, Dogleg (°/100 ft): 4.05, Sensor Depth (ft): 19689.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	05:35	06:20	08-09	19744.00	19834.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	06:20	06:25	08-09	19834.00	19834.00	Inclination (°): 90.290, Azimuth (°): 359.380, TVD (ft): 11857.93, Dogleg (°/100 ft): 0.28, Sensor Depth (ft): 19779.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	06:25	07:05	08-09	19834.00	19923.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	07:05	07:10	08-09	19923.00	19923.00	Inclination (°): 90.590, Azimuth (°): 358.850, TVD (ft): 11857.25, Dogleg (°/100 ft): 0.68, Sensor Depth (ft): 19868.00, Bit To Sensor (ft): 55.00
Rotary Drill	1	08-09	07:10	07:55	08-09	19923.00	20013.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	07:55	08:00	08-09	20013.00	20013.00	Inclination (°): 91.430, Azimuth (°): 359.030, TVD (ft): 11855.66, Dogleg (°/100 ft): 0.95, Sensor Depth (ft): 19958.00, Bit To Sensor (ft): 55.00

Rotary Drill	1	08-09	08:00	08:40	08-09	20013.00	20104.00	Pressure On (psi): 4700.00, Pressure Off (psi): 3900.00, Weight On Bit (klbs): 45.00, Surface RPM: 40, Surface Torque (ft lbf): 27000.00, Flow Rate (gpm): 677.00, Strokes Per Minute: 234.00
Survey	46	08-09	08:40	08:45	08-09	20104.00	20104.00	Inclination (°): 91.910, Azimuth (°): 358.850, TVD (ft): 11853.01, Dogleg (°/100 ft): 0.56, Sensor Depth (ft): 20049.00, Bit To Sensor (ft): 55.00
Circulating	3	08-09	08:45	15:20	08-09			cir btms up
Pooh	7	08-09	15:20	18:00	08-09			POOH l/d drill pipe
Pooh	7	08-09	18:00	16:25	08-10			POOH l/d drill pipe

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
		Company Man

Tuesday, Aug 10 00:00 - 23:59 (Day 17 of 20)

Billing: \$4,300.00 (\$95,663.76 total)

Drilling Summary			Drilling Parameters	
Start Depth (ft)		Downhole Hours	17.75	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			40.00 - 40.00
Inclination In				Surface RPM
Inclination Out				Flow Rate (gpm)
Azimuth In		% Hours Rotating		On Bottom Pressure (psi)
Azimuth Out		% Hours Sliding		Off Bottom Pressure (psi)
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
Francisco DeLeon	MWD Engineer
Advance Directional	Directional Driller
Robert Olivarez	MWD Engineer

BHA #5 - 8.75" LATERAL w/ Agitator

Date In: Aug 6, 2021, 16:30 Date Out: Aug 10, 2021, 17:45

Bit Details		Motor Details		Directional Comments		
OD (in)	8.750	Size (in)	7.0	Flow Range: 300-700 GPM,RPG: 0.25 , Max Diff: 1800 psi, Max Torque: 17100ft/lbs, Bit Runs: 0		
Vendor	Reed	Lobe/Stage	7/8, 8.5			
S/N	A280805	Bend Angle	1.75			
Nozzles	7 x 14	Speed (rev/gal)	0.25	MWD Comments		
Total Flow Area (in²)	1.052	Wear Pad OD (in)	7.375	<th colspan="1">POOH Reason</th> <td rowspan="5">Total Depth/Casing Point: when motor reached rig floor we noticed fluid coming from body of motor</td>	POOH Reason	Total Depth/Casing Point: when motor reached rig floor we noticed fluid coming from body of motor
Drilling Hours for Day	0.00	Bit Distances				
Total Drilled for Day (ft)		Survey (Bit to Sensor): 55.00 ft, Gamma (Bit to Gamma): 40.00 ft				
Drilling Hours for BHA	47.58					
Total Drilled for BHA (ft)	7741.00					

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: <i>TKC76, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.00, Size (in): 8.75</i>	Reed	A280805	4 1/2" Reg Pin			8.750		1.00	1.00
Mud Motor Description: <i>7" 7/8 8.5 Stg . 1.75° Fxd. (Slick), Size (in): 7.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 8.5</i>	Bico	BPB5700-0002	4 1/2" IF Box	4 1/2" Reg Box		7.000		30.12	31.12
UBHO Sub Description: <i>NM DAO UBHO, Material: Non-Magnetic</i>	AIM	AIM 675-361	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		2.26	33.38
Drill Collar Description: <i>NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill</i>	GATOR	GT67-30-269	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.25	63.63
Drill Collar Description: <i>NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill</i>	GATOR	GT67-30-307	4 1/2" IF Box	4 1/2" IF Pin	3.250	6.750		30.26	93.89
Crossover Sub Description: <i>X-O SUB, Material: Steel</i>	BLACK DIAMOND	BD13750	EverDrlg54 Box	4 1/2" IF Pin	3.000	6.500		3.00	96.89
Drill Pipe Description: <i>5.5" Drill Pipe - 22 Stands, Type: Slick</i>	BLACK DIAMOND		EverDrlg54 Box	EverDrlg54 Pin	3.000	5.500		1969.49	2066.38
Crossover Sub Description: <i>4.5 IF (B) x EverDrill 54 (P), Material: Steel</i>	BLACK DIAMOND	BD13825	4 1/2" IF Box	EverDrlg54 Pin	3.250	6.750		3.49	2069.87
Agitator Description: <i>Agitator, Size (in): 7.00</i>	NOV	AGHF0675-0186	4 1/2" IF Box	4 1/2" IF Pin		7.000		24.49	2094.36
Crossover Sub Description: <i>EverDrill 54 (B) x 4.5 IF (P), Material: Steel</i>	BLACK DIAMOND	BD8074	EverDrlg54 Box	4 1/2" IF Pin	3.250	6.750		3.49	2097.85

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	08-09	18:00	16:25	08-10			POOH l/d drill pipe
Lay Down BHA	65	08-10	16:25	17:45	08-10			l/d bha
Standby	15	08-10	17:45	17:00	08-11			Standby running casing and cement

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Wednesday, Aug 11 00:00 - 23:59 (Day 18 of 20)

Billing: \$1,000.00 (\$95,663.76 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
Francisco DeLeon	MWD Engineer
Advance Directional	Directional Driller
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	08-10	17:45	17:00	08-11			Standby running casing and cement
Standby	15	08-11	17:00	04:00	08-12			Standby finish cement and begin rigging down rig

MWD Activities

No Activities



Job Number WT-21-066	Operator Advance Energy Partners	Rig Name Nabors X50
Start Date 2021-05-26	Well Name Dagger State Com 608H	Legal Well Name AFE Dagger State Com 608H
Play Delaware Basin	State/Province and Country New Mexico, US	County Lea
Company Man		

Thursday, Aug 12 00:00 - 23:59 (Day 19 of 20)

Billing: \$3,700.88 (\$95,663.76 total)

Drilling Summary

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
Distance Rotated (ft)	0.00	Hours Rotating	0.00
Distance Slid (ft)	0.00	Motor RPM	-
Inclination In		Surface RPM	
Inclination Out		Flow Rate (gpm)	
Azimuth In	% Hours Rotating	On Bottom Pressure (psi)	
Azimuth Out	% Hours Sliding	Off Bottom Pressure (psi)	
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
Francisco DeLeon	MWD Engineer
Advance Directional	Directional Driller
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	08-11	17:00	04:00	08-12			Standby finish cement and begin rigging down rig
Standby	15	08-12	04:00	03:55	08-13			Standby moving rig

MWD Activities

No Activities



Surface Plat

Dagger State Com 608H (WT-21-066)

2021-05-26 to 2021-08-12

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) 334-3344 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

Revised August 4, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

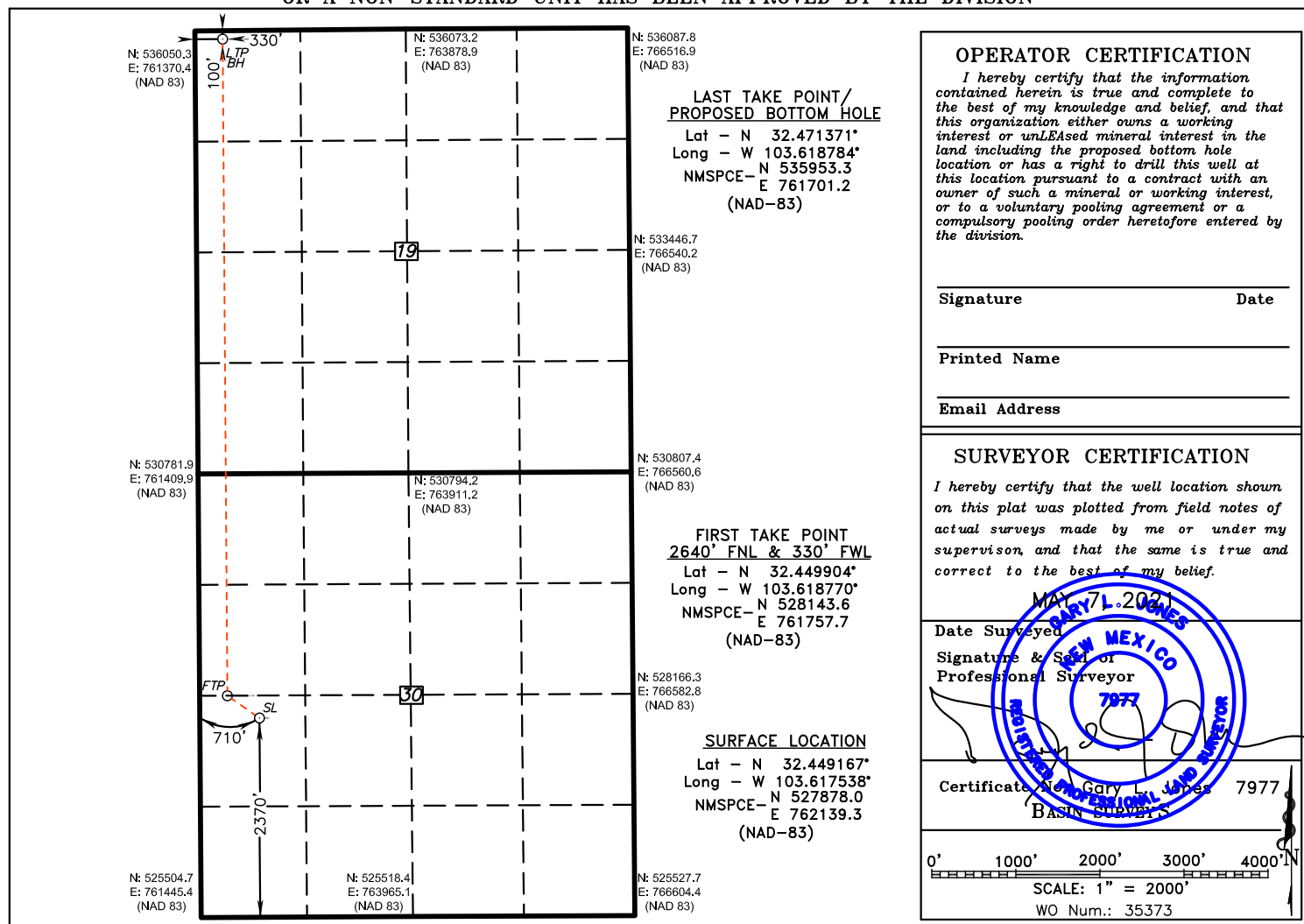
API Number	Pool Code	Pool Name
Property Code	Property Name DAGGER STATE COM	Well Number 608H
OGRID No.	Operator Name ADVANCE ENERGY PARTNERS HAT MESA	Elevation 3816'

Surface Location

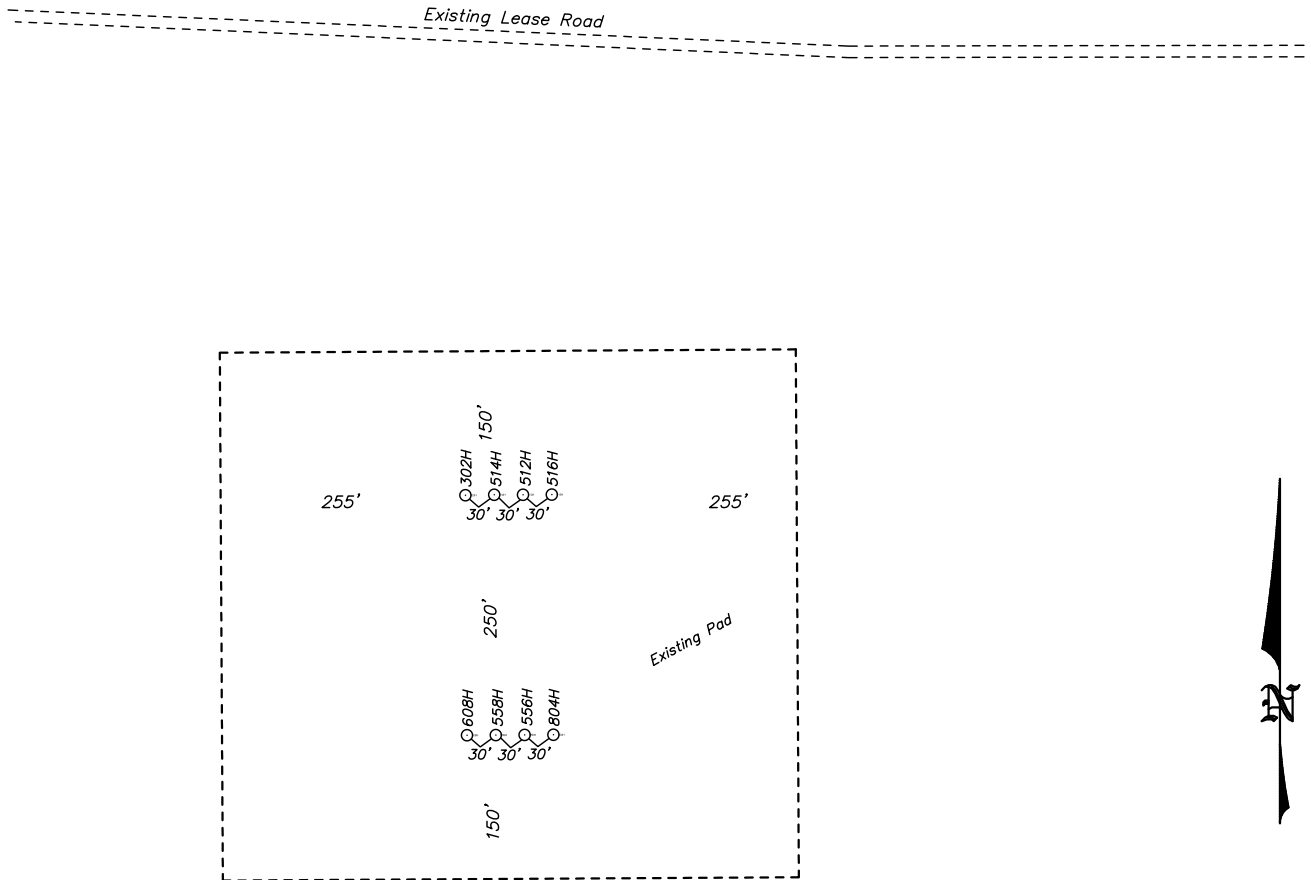
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
L	30	21 S	33 E		2370	SOUTH	710	WEST	LEA

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

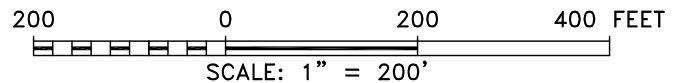
**SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



**ADVANCE ENERGY PARTNERS HAT MESA
DAGGER STATE COM #608H
ELEV. - 3816**

Lat - N 32.449167°
Long - W 103.617538°
NMSPCE - N 527878.0
E 762139.3
(NAD-83)

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



ADVANCE ENERGY PARTNERS HAT MESA

REF: DAGGER STATE COM #608H / WELL PAD TOPO

THE DAGGER STATE COM #608H LOCATED 2370' FROM
THE SOUTH LINE AND 710' FROM THE WEST LINE OF
SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST.

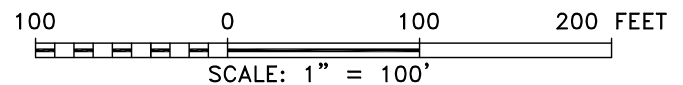
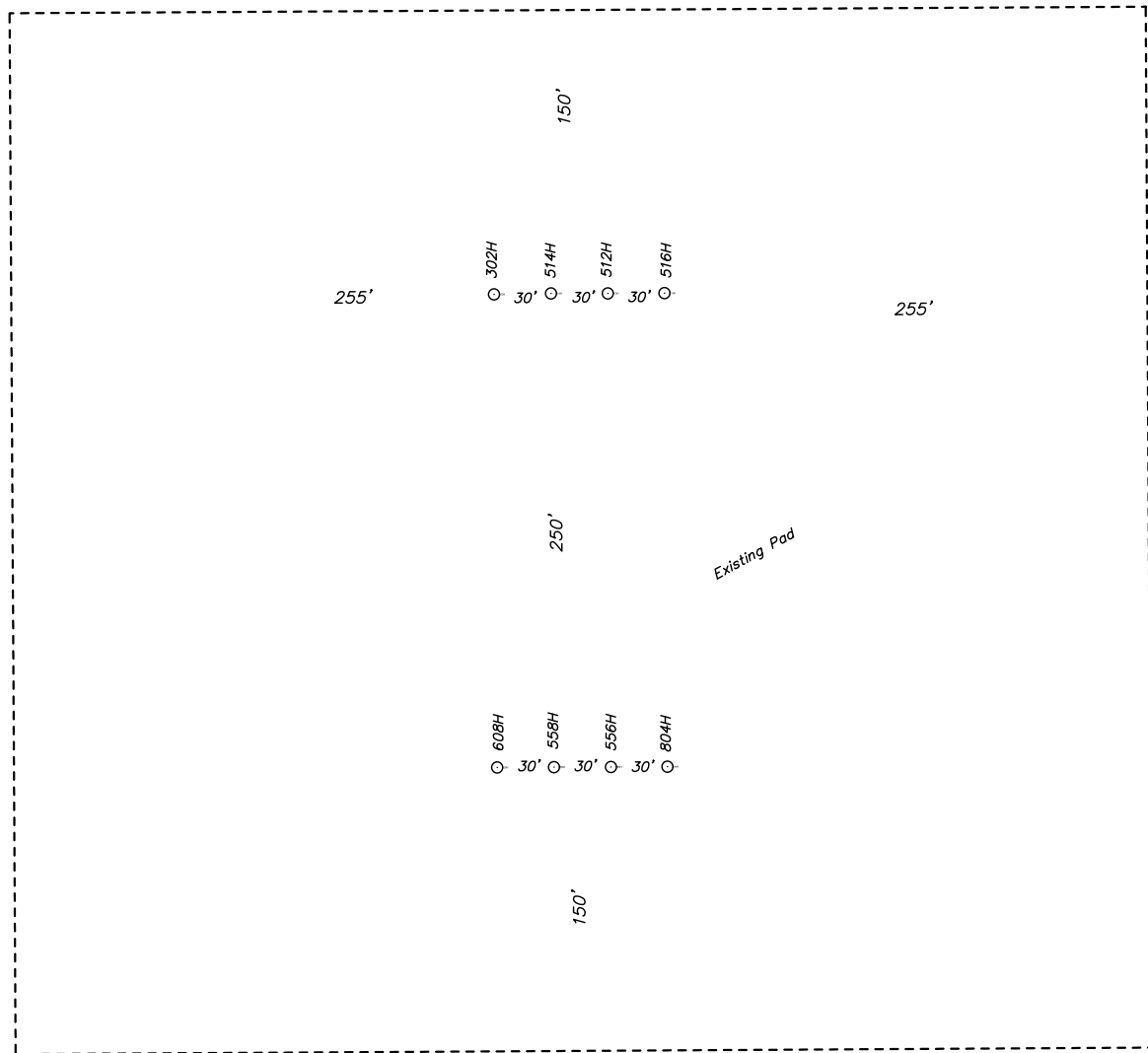
N.M.P.M., LEA COUNTY, NEW MEXICO.

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

W.O. Number: 35373	Drawn By: K. GOAD	Date: 05-13-2021	Survey Date: 05-07-2021	Sheet 1 of 1 Sheets
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**SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



ADVANCE ENERGY PARTNERS HAT MESA

REF: DAGGER STATE COM #608H / WELL PAD TOPO

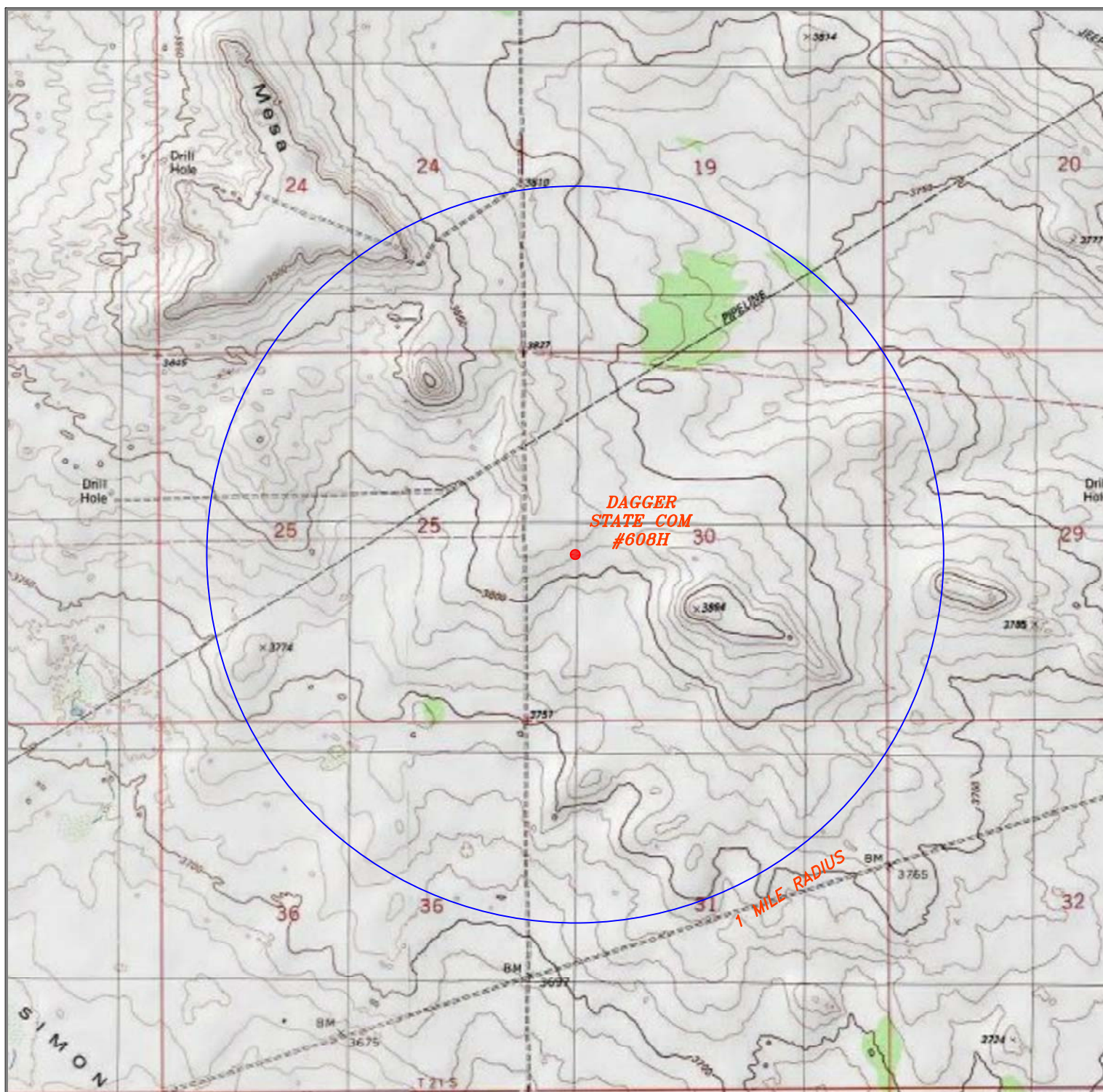
THE DAGGER STATE COM #608H LOCATED 2370' FROM
THE SOUTH LINE AND 710' FROM THE WEST LINE OF
SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST.

N.M.P.M., LEA COUNTY, NEW MEXICO.

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W.O. Number: 35373	Drawn By: K. GOAD	Date: 05-13-2021	Survey Date: 05-07-2021	Sheet 1 of 1 Sheets
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DAGGER STATE COM #608H

Located 2370' FSL and 710' FWL
 Section 30, Township 21 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
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0' 1000' 2000' 3000' 1500'
 SCALE: 1" = 2000'

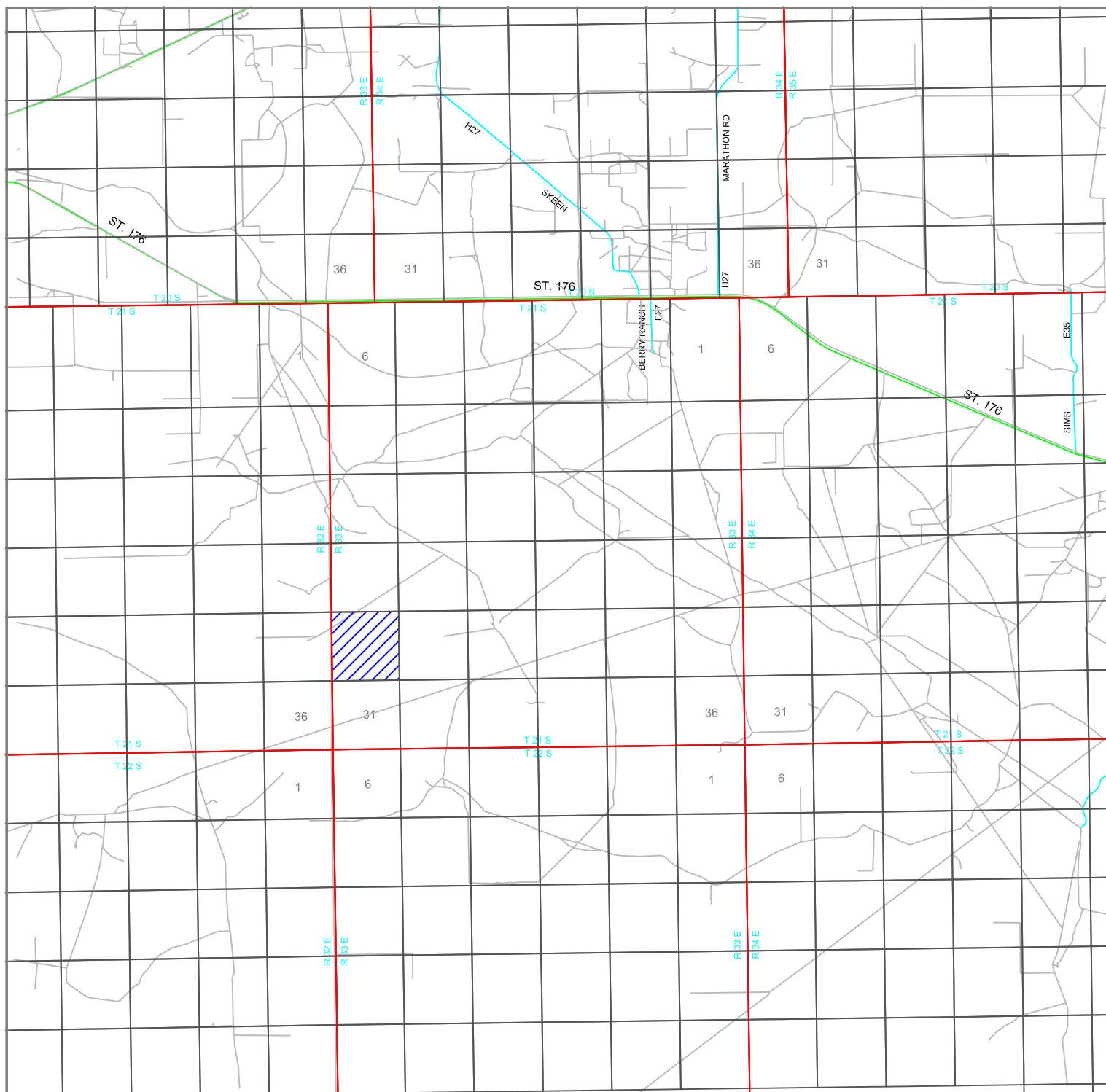
W.O. Number: KJG 35373

Survey Date: 05-07-2021

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



**ADVANCE
 ENERGY
 PARTNERS
 HAT MESA**



DAGGER STATE COM #608H

Located 2370' FSL and 710' FWL
 Section 30, Township 21 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



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 1120 N. West County Rd.
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0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

W.O. Number: KJG 35373

Survey Date: 05-07-2021

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



**ADVANCE
 ENERGY
 PARTNERS
 HAT MESA**



DAGGER STATE COM #608H

Located 2370' FSL and 710' FWL
 Section 30, Township 21 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



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

0' 1000' 2000' 3000' 1500'
 SCALE: 1" = 2000'

W.O. Number: KJG 35373

Survey Date: 05-07-2021

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



**ADVANCE
 ENERGY
 PARTNERS
 HAT MESA**

Submit a 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

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-48902	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Dagger State Com	
8. Well Number 608H	
9. OGRID Number 372417	
10. Pool name or Wildcat WC-025 G-06 S213326D; BONE SPRING	

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.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐ 2. Name of Operator Advance Energy Partners Hat Mesa 3. Address of Operator 11490 Westheimer Rd, Houston, TX 77077 4. Well Location Unit Letter <u>L</u> : <u>2370</u> feet from the <u>S</u> line and <u>710</u> feet from the <u>W</u> line Section <u>30</u> Township <u>21 S</u> Range <u>33 E</u> NMPM County LEA 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3816'	
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12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ CLOSED-LOOP SYSTEM ☐ OTHER: ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☒
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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.
- 11/26-1/5/22: Perforate from 12,348' – 20,067' (1920). Frac with 20,925,590 lbs sand and 480,024 gal fluid.
- 1/9/22: Drill all plugs out and clean out to a PBTD of 20,076'.
- 1/15/22: Begin flowback
- 3/21 – 3/24/22: Run 2-7/8" production tubing to 10,839' and ESP @ 11,094'

Spud Date: 5/29/21

Rig Release Date: 8/12/21

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: 7/20/22

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					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-025-48902		
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)								2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN		
								3. State Oil & Gas Lease No.		
5. Lease Name or Unit Agreement Name Dagger State Com								6. Well Number: 608H		
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	710	W	LEA
BH:	D	19	21 S	33 E		86	N	321	W	LEA
13. Date Spudded 5/29/21	14. Date T.D. Reached 8/9/21	15. Date Rig Released 8/12/21		16. Date Completed (Ready to Produce) 1/15/22			17. Elevations (DF and RKB, RT, GR, etc.) 3816'			
18. Total Measured Depth of Well 20,104'			19. Plug Back Measured Depth 20,076'		20. Was Directional Survey Made? YES			21. Type Electric and Other Logs Run Gamma		
22. Producing Interval(s), of this completion - Top, Bottom, Name 12,348' – 20,067' – 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"		61#		1577'		15.375"		910		
9.625"		40#		3356'/5498'		12.25"		1190		
5.5"		20#		20,084'		8.5"		3815		
24. LINER RECORD										
SIZE	TOP	BOTTOM		SACKS CEMENT	SCREEN		25. TUBING RECORD			
							SIZE		DEPTH SET	PACKER SET
							2-7/8"		10,839'	N/A
26. Perforation record (interval, size, and number)										
12,348' – 20,067' – 1920 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						12,348'-20-067'		20,925,590 lbs sand, 480,024 bbls water		
28. PRODUCTION										
Date First Production 1/15/22		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Prod				
Date of Test 2/14/22	Hours Tested 24	Choke Size 50	Prod'n For Test Period	Oil - Bbl 253	Gas - MCF 555	Water - Bbl. 1868	Gas - Oil Ratio 2194			
Flow Tubing Press. ---	Casing Pressure 300	Calculated 24-Hour Rate	Oil - Bbl. 253	Gas - MCF 555	Water - Bbl. 1868	Oil Gravity - API - (Corr.) 43.0				
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: 8/12/21				
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 <i>Eileen Kosakowski</i> Printed Name: Eileen M Kosakowski				Title: Sr. Eng. Tech Date: 7/20/22 E-mail Address: ekosakowski@advanceenergypartners.com						

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.

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 Springs10,015MD/9995TVD	T.Todilto	
T. Abo	T.2BS 10,595MD/10,573TVD	T. Entrada	
T. Wolfcamp	T.3BS 11,526MD/11,502TVD	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

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.....

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

Action 127488

ACKNOWLEDGMENTS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	OGRID: 372417
	Action Number: 127488
	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
Phone: (505) 629-6116

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

CONDITIONS

Action 127488

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	OGRID: 372417
	Action Number: 127488
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	9/25/2025