

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 1 /	County or Parish/State:
Well Number: 705H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549484	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Sundry ID: 2641601

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 10/26/2021	Time Sundry Submitted: 12:11
Date proposed operation will begin: 11/01/2021	

Procedure Description: Request to move the Surface Hole Location from 630' FNL & 892' FEL, Section 2, T-22-S, R-32-E, Lot 1 to 630' FNL & 1090' FEL, Section 2, T-22-S, R-32-E, Lot 1. Please see attached drill plan, directional plan, and plats for detailed information regarding changes to casing, cement, and mud programs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Anderson_705H_SHL_Sundry_Attachment_20211026121013.pdf

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 1 /	County or Parish/State:
Well Number: 705H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549484	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: BRIAN WOOD	Signed on: OCT 26, 2021 12:10 PM
Name: ADVANCE ENERGY PARTNERS HAT MESA LLC	
Title: President	
Street Address: 37 VERANO LOOP	
City: SANTA FE	State: NM
Phone: (505) 466-8120	
Email address: AFMSS@PERMITSWEST.COM	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 11/12/2021
Signature: Chris Walls	

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

API Number 30-025-	Pool Code 98033	Pool Name WC-025 G-10 S2133280; Wolfcamp
Property Code	Property Name ANDERSON FED COM	Well Number 705H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3657'

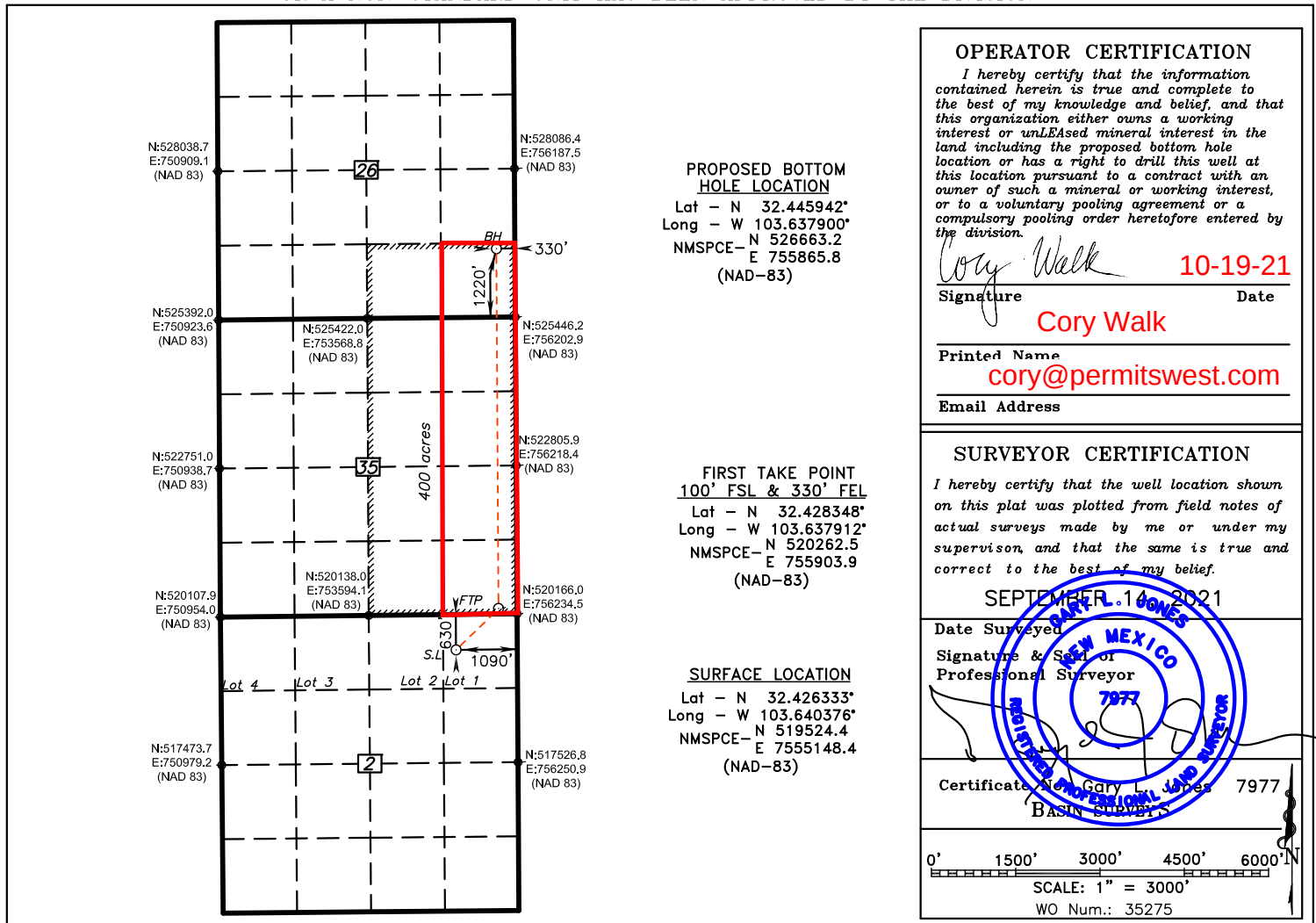
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 1	2	22 S	32 E		630	NORTH	1090	EAST	LEA

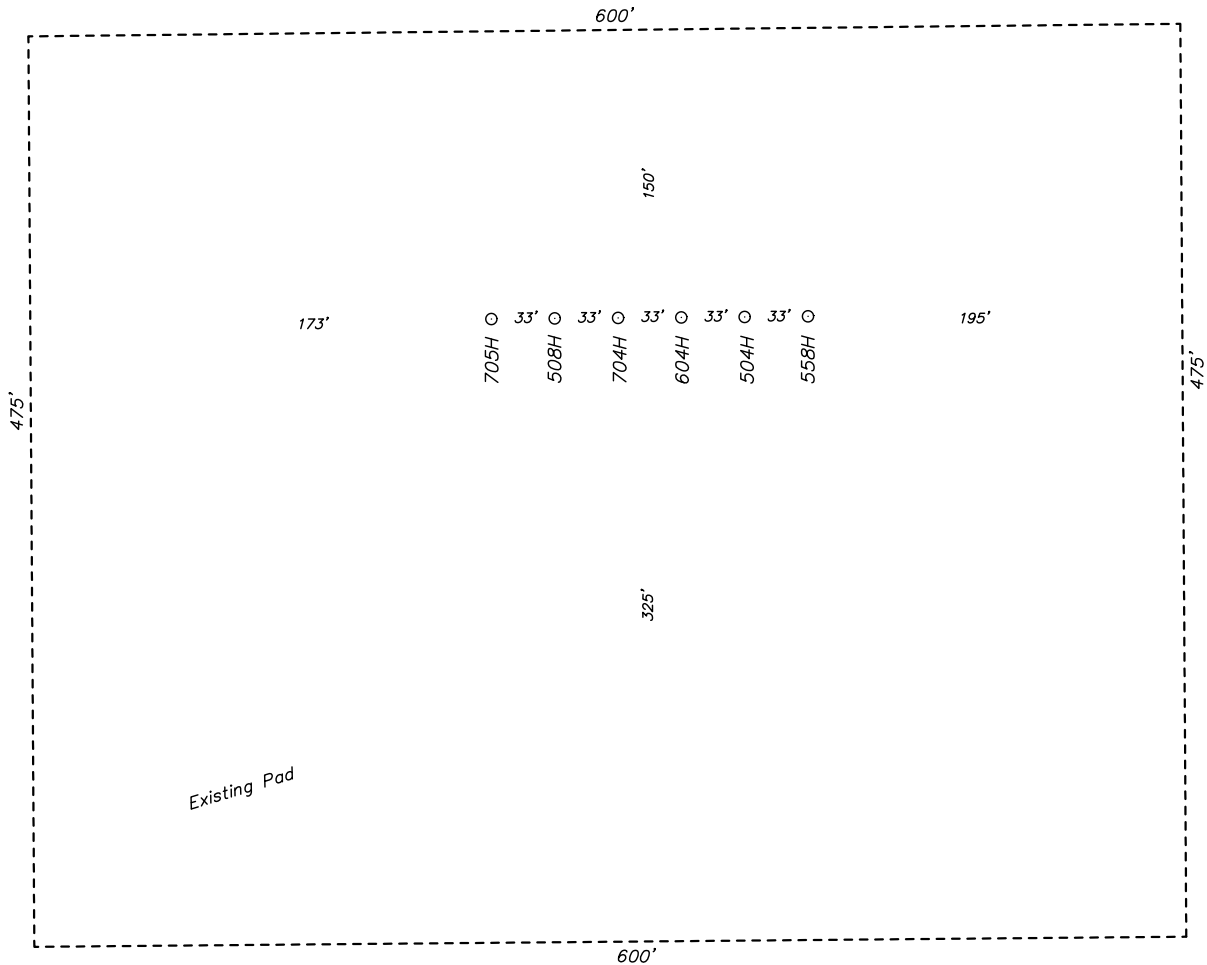
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
P	26	21 S	32 E		1220	SOUTH	330	EAST	LEA
Dedicated Acres 200.00	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



**SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



basin
surveys
focused on excellence
in the oilfield

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

100 0 100 200 FEET
SCALE: 1" = 100'

ADVANCE ENERGY PARTNERS HAT MESA, LLC

REF: ANDERSON FED COM 705H / WELL PAD TOPO

THE ANDERSON FED COM 705H LOCATED 630' FROM
THE NORTH LINE AND 1090' FROM THE EAST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.

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

W.O. Number: 35275	Drawn By: K. GOAD	Date: 09-14-2021	Survey Date: 09-14-2021	Sheet 1 of 1 Sheets
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CHANGE TO PLANS

Move Surface Hole Location

From: 630' FNL & 892' FEL, Section 2, T-22-S, R-32-E, Lot 1

To: 630' FNL & 1090' FEL, Section 2, T-22-S, R-32-E, Lot 1

Please see attached drill plan, directional plan, and plats for additional information.

**Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 705H
SHL 630' FNL & 1090' FEL Section 2, T22S, R32E
BHL 1220' FSL & 330' FEL Section 26, T21S, R32E
Lea County, NM**

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surface csg set @ 1217')	1192'	1192'	N/A
Salado salt	1347'	1347'	Salt
Bell Canyon sandstone	4770'	4770'	N/A
Lower Brushy Canyon sandstone	8417'	8431'	hydrocarbons
Bone Spring Lime	8744'	8763'	hydrocarbons
Avalon shale	8937'	8954'	Hydrocarbons
1 st Bone Spring sandstone	9804'	9825'	hydrocarbons
2 nd Bone Spring sandstone (Int csg set @ TVD 10600')	10422'	10445'	hydrocarbons
3 rd Bone Spring carbonate	10990'	11016'	hydrocarbons
3 rd Bone Spring sandstone	11567'	11596'	hydrocarbons
KOP	11723'	11763'	hydrocarbons
Wolfcamp carbonate	11911'	12007'	hydrocarbons
TD	12050'	18738'	hydrocarbons

2. NOTABLE ZONES

Wolfcamp carbonate is the goal. Closest water well (CP 02821) is 2.48 miles southwest. Depth to water was reported at 410' in the 540' deep well.

3. PRESSURE CONTROL

See attached Helmerich & Payne BOP Testing – BLM manual for equipment and procedures for a 5000-psi system.

Variance is requested to use a co-flex hose between the BOP and choke instead of a steel line. See attached 3" I. D. x 10K test certificate. If this hose is unavailable, then a hose of equal or higher-pressure rating will be used.

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 Anderson Fed Com 705H
 SHL 630' FNL & 1090' FEL Section 2, T22S, R32E
 BHL 1220' FSL & 330' FEL Section 26, T21S, R32E
 Lea County, NM**

DRILL PLAN PAGE 2

Variance is requested to use a speed head (aka, multi-bowl wellhead) after setting intermediate 1. Advance has drilled >50 wells in immediate area to depths >5,000' and never encountered any type of flows. This will allow Advance to land the intermediate 1 and use the current proposed wellhead design. Advance will then NU BOPE on the 10.75" and continue using the BOPE to the completion of the well.

4. CASING & CEMENT

All casing will be API and new. See attached casing assumption worksheet.

Name	Hole OD	Casing OD	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	14.75"	10.75"	No	0	1217	0	1217	J-55	40.5	BTC	1.125	1.125	1.6
1st Intermediate	9.875"	7.625"	No	0	10612	0	10600	HCP-110	29.7	LTC	1.125	1.125	1.6
Production	6.75"	5.5"	No	0	10112	0	10100	HCP-110	20	CDC	1.125	1.125	1.6
	6.75"	5.5"	No	10112	10612	10100	10600	HCP-110	20	VAM SFC	1.125	1.125	1.6
	6.75"	5.5"	No	10612	18738	10600	12050	HCP-110	20	CDC	1.125	1.125	1.6

Bow spring centralizers will be installed on the surface (10 bowsprings) and intermediate (59 bowsprings) casing strings.

Variance is requested for an option to use a surface rig to drill the surface hole and set and cement the surface casing. If time between rigs would not be allow presetting the surface casing, then the primary rig will drill all of the well.

Cement additive names in following table are West Texas Cementers trade names. They, or equivalent, products will be used.

**Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 705H
SHL 630' FNL & 1090' FEL Section 2, T22S, R32E
BHL 1220' FSL & 330' FEL Section 26, T21S, R32E
Lea County, NM**

DRILL PLAN PAGE 3

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	440	1.9	836	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	917	165	1.35	223	14.8	20%	C	2% CaCl2 + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	2800	840	3.02	2537	11	107%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendedCem 6302 + 0.85% R-1300 + 0.5% C-47B + 3PPS Gilsonite +
	Tail	8489	470	1.19	559	15.6	20%	H	0.2% SMS + 0.35% C-20 + 0.2% C-47B + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	495	3	1485	11	468%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendedCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2200	100	1.33	133	14.8	0%	C	0.005GPS NoFoam V1A
Production	Lead	0	705	1.87	1318	12.8	235%	B Poz + H	3% Gel + 5% SALT + 0.3% SMS + 1% R-1300 + 0.1% C-37 + 0.2% C-17 + 0.005GPS NoFoam V1A
	Tail	11763	585	1.22	714	14.5	20%	B Poz + H	5% SALT + 0.65% C-20 + 0.5% C-47B + 0.005GPS NoFoam V1A

Note: Intermediate 1 is a two-stage cement job. DVT will be placed at approximately 2,800'.

5. MUD PROGRAM

An electronic pit volume totalizer (PVT) will be used to monitor volume, flow rate, pump pressure, and stroke rate. All necessary additives (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase needs will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

Name	Top	Bottom	Type	Mud Weight (ppg)	Visc	Fluid Loss
Surface	0	1217	FW Spud Mud	8.4 - 10.0	28 - 36	NC
Intermediate 1	1217	10612	Brine Water	10.0 - 10.5	28 - 32	NC
Production	10612	11763	Cut Brine	9.2 - 9.3	28 - 30	NC
Production	11763	18738	OBM	9.2 - 10.5	55 - 65	6 - 8

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Anderson Fed Com 705H
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BHL 1220' FSL & 330' FEL Section 26, T21S, R32E
Lea County, NM**

DRILL PLAN PAGE 4

6. CORES, TESTS, & LOGS

No core, drill stem test, or open hole log is planned.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 5427 psi. Expected bottom hole temperature is $\approx 241^{\circ}$ F.

H2S monitoring and detection equipment will be used from surface casing point to TD.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ≈ 3 -4 months to drill and complete the well.

**WELL DETAILS: Anderson Fed Com 705H**

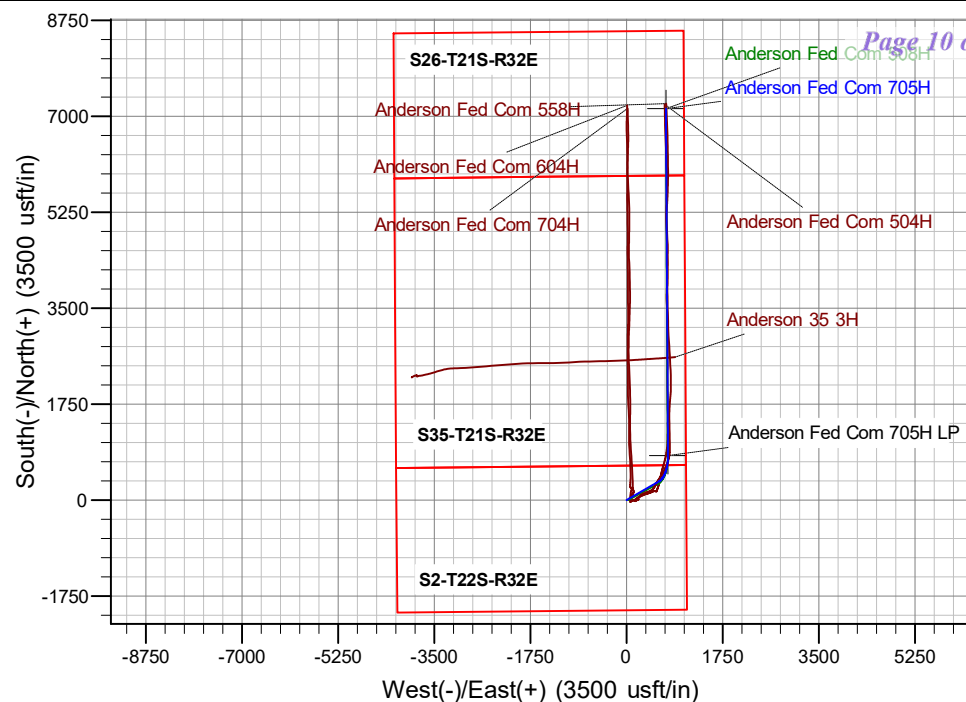
Ground Elev: 3657.0 KB: 3689.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519525.21	755148.69	32° 25' 34.807 N	103° 38' 25.349 W

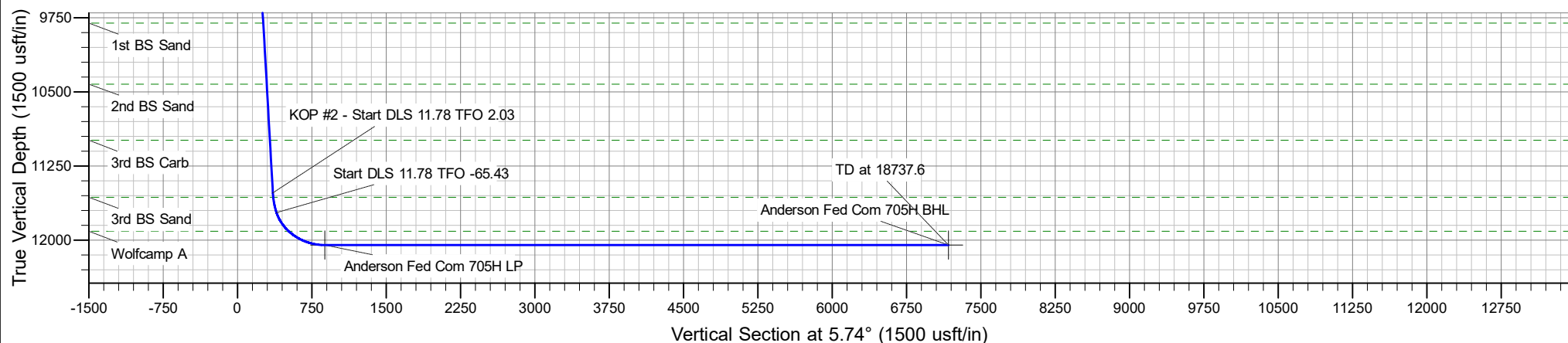
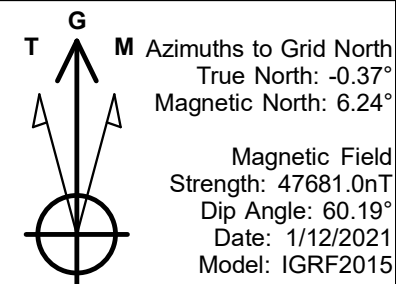
PROJECT DETAILS: Hat Mesa

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

System Datum: Mean Sea Level

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4900.0	0.00	0.00	4900.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5450.0	5.50	60.00	5449.2	13.2	22.8	1.00	60.00	15.4	Start 6099.9 hold at 5450.0 MD
4	11549.9	5.50	60.00	11521.0	305.5	529.2	0.00	0.00	356.9	KOP #2 - Start DLS 11.78 TFO 2.03
5	11762.9	30.59	61.69	11721.9	336.8	586.6	11.78	2.03	393.8	Start DLS 11.78 TFO -65.43
6	12409.5	90.00	359.66	12050.0	810.0	755.2	11.78	-65.43	881.4	Start DLS 0.00 TFO -90.00
7	18737.6	90.00	359.65	12050.0	7138.0	717.2	0.00	-90.00	7174.0	TD at 18737.6





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad A

Anderson Fed Com 705H

Anderson Fed Com 705H

Plan: Anderson Fed Com 705H - Prelim 1

Standard Planning Report

23 September, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 705H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3689.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad A	North Reference:	Grid
Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 705H		
Design:	Anderson Fed Com 705H - Prelim 1		

Project	Hat Mesa, Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Anderson Fed Com - Pad A			
Site Position: From:		Northing:	519,525.43 usft	Latitude:	32° 25' 34.802 N
	Lat/Long	Easting:	755,247.69 usft	Longitude:	103° 38' 24.194 W
	Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	

Well	Anderson Fed Com 705H					
Well Position	+N/-S	0.0 usft	Northing:	519,525.21 usft	Latitude:	32° 25' 34.807 N
	+E/-W	0.0 usft	Easting:	755,148.69 usft	Longitude:	103° 38' 25.349 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,657.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 705H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/12/2021	6.61	60.19	47,680.97904344

Design	Anderson Fed Com 705H - Prelim 1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	5.74	

Plan Survey Tool Program	Date	9/23/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	18,737.6	Anderson Fed Com 705H - Prelim	MWD+HRGM	
			OWSG MWD + HRGM		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,450.0	5.50	60.00	5,449.2	13.2	22.8	1.00	1.00	0.00	60.00	
11,549.9	5.50	60.00	11,521.0	305.5	529.2	0.00	0.00	0.00	0.00	
11,762.9	30.59	61.69	11,721.9	336.8	586.6	11.78	11.78	0.79	2.03	
12,409.5	90.00	359.66	12,050.0	810.0	755.2	11.78	9.19	-9.59	-65.43	Anderson Fed Com 705H
18,737.6	90.00	359.65	12,050.0	7,138.0	717.2	0.00	0.00	0.00	-90.00	Anderson Fed Com 705H



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 705H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3689.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad A	North Reference:	Grid
Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 705H		
Design:	Anderson Fed Com 705H - Prelim 1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,191.5	0.00	0.00	1,191.5	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,769.5	0.00	0.00	4,769.5	0.0	0.0	0.0	0.00	0.00	0.00
Base of Limestone									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 705H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3689.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad A	North Reference:	Grid
Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 705H		
Design:	Anderson Fed Com 705H - Prelim 1		

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)
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,000.0	1.00	60.00	5,000.0	0.4	0.8	0.5	1.00	1.00	0.00
5,100.0	2.00	60.00	5,100.0	1.7	3.0	2.0	1.00	1.00	0.00
5,200.0	3.00	60.00	5,199.9	3.9	6.8	4.6	1.00	1.00	0.00
5,300.0	4.00	60.00	5,299.7	7.0	12.1	8.2	1.00	1.00	0.00
5,400.0	5.00	60.00	5,399.4	10.9	18.9	12.7	1.00	1.00	0.00
5,450.0	5.50	60.00	5,449.2	13.2	22.8	15.4	1.00	1.00	0.00
Start 6099.9 hold at 5450.0 MD									
5,500.0	5.50	60.00	5,498.9	15.6	27.0	18.2	0.00	0.00	0.00
5,600.0	5.50	60.00	5,598.5	20.4	35.3	23.8	0.00	0.00	0.00
5,700.0	5.50	60.00	5,698.0	25.2	43.6	29.4	0.00	0.00	0.00
5,800.0	5.50	60.00	5,797.5	30.0	51.9	35.0	0.00	0.00	0.00
5,900.0	5.50	60.00	5,897.1	34.8	60.2	40.6	0.00	0.00	0.00
6,000.0	5.50	60.00	5,996.6	39.5	68.5	46.2	0.00	0.00	0.00
6,100.0	5.50	60.00	6,096.2	44.3	76.8	51.8	0.00	0.00	0.00
6,200.0	5.50	60.00	6,195.7	49.1	85.1	57.4	0.00	0.00	0.00
6,300.0	5.50	60.00	6,295.2	53.9	93.4	63.0	0.00	0.00	0.00
6,400.0	5.50	60.00	6,394.8	58.7	101.7	68.6	0.00	0.00	0.00
6,500.0	5.50	60.00	6,494.3	63.5	110.0	74.2	0.00	0.00	0.00
6,600.0	5.50	60.00	6,593.9	68.3	118.3	79.8	0.00	0.00	0.00
6,700.0	5.50	60.00	6,693.4	73.1	126.6	85.4	0.00	0.00	0.00
6,800.0	5.50	60.00	6,792.9	77.9	134.9	91.0	0.00	0.00	0.00
6,900.0	5.50	60.00	6,892.5	82.7	143.2	96.6	0.00	0.00	0.00
7,000.0	5.50	60.00	6,992.0	87.5	151.5	102.2	0.00	0.00	0.00
7,100.0	5.50	60.00	7,091.6	92.3	159.8	107.8	0.00	0.00	0.00
7,200.0	5.50	60.00	7,191.1	97.1	168.1	113.4	0.00	0.00	0.00
7,300.0	5.50	60.00	7,290.6	101.8	176.4	119.0	0.00	0.00	0.00
7,400.0	5.50	60.00	7,390.2	106.6	184.7	124.6	0.00	0.00	0.00
7,500.0	5.50	60.00	7,489.7	111.4	193.0	130.2	0.00	0.00	0.00
7,600.0	5.50	60.00	7,589.3	116.2	201.3	135.8	0.00	0.00	0.00
7,700.0	5.50	60.00	7,688.8	121.0	209.6	141.4	0.00	0.00	0.00
7,800.0	5.50	60.00	7,788.3	125.8	217.9	147.0	0.00	0.00	0.00
7,900.0	5.50	60.00	7,887.9	130.6	226.2	152.6	0.00	0.00	0.00
8,000.0	5.50	60.00	7,987.4	135.4	234.5	158.2	0.00	0.00	0.00
8,100.0	5.50	60.00	8,087.0	140.2	242.8	163.8	0.00	0.00	0.00
8,200.0	5.50	60.00	8,186.5	145.0	251.1	169.4	0.00	0.00	0.00
8,300.0	5.50	60.00	8,286.0	149.8	259.4	175.0	0.00	0.00	0.00
8,400.0	5.50	60.00	8,385.6	154.6	267.7	180.6	0.00	0.00	0.00
8,431.1	5.50	60.00	8,416.5	156.1	270.3	182.3	0.00	0.00	0.00
Lower Brushy									
8,500.0	5.50	60.00	8,485.1	159.4	276.0	186.1	0.00	0.00	0.00
8,600.0	5.50	60.00	8,584.7	164.1	284.3	191.7	0.00	0.00	0.00
8,700.0	5.50	60.00	8,684.2	168.9	292.6	197.3	0.00	0.00	0.00
8,800.0	5.50	60.00	8,783.7	173.7	300.9	202.9	0.00	0.00	0.00
8,900.0	5.50	60.00	8,883.3	178.5	309.2	208.5	0.00	0.00	0.00
8,953.5	5.50	60.00	8,936.5	181.1	313.6	211.5	0.00	0.00	0.00
Avalon									
9,000.0	5.50	60.00	8,982.8	183.3	317.5	214.1	0.00	0.00	0.00
9,100.0	5.50	60.00	9,082.4	188.1	325.8	219.7	0.00	0.00	0.00
9,200.0	5.50	60.00	9,181.9	192.9	334.1	225.3	0.00	0.00	0.00
9,300.0	5.50	60.00	9,281.4	197.7	342.4	230.9	0.00	0.00	0.00
9,400.0	5.50	60.00	9,381.0	202.5	350.7	236.5	0.00	0.00	0.00



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad A	North Reference:	Grid
Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 705H		
Design:	Anderson Fed Com 705H - Prelim 1		

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)
9,500.0	5.50	60.00	9,480.5	207.3	359.0	242.1	0.00	0.00	0.00
9,600.0	5.50	60.00	9,580.0	212.1	367.3	247.7	0.00	0.00	0.00
9,700.0	5.50	60.00	9,679.6	216.9	375.6	253.3	0.00	0.00	0.00
9,800.0	5.50	60.00	9,779.1	221.7	383.9	258.9	0.00	0.00	0.00
9,824.5	5.50	60.00	9,803.5	222.8	385.9	260.3	0.00	0.00	0.00
1st BS Sand									
9,900.0	5.50	60.00	9,878.7	226.4	392.2	264.5	0.00	0.00	0.00
10,000.0	5.50	60.00	9,978.2	231.2	400.5	270.1	0.00	0.00	0.00
10,100.0	5.50	60.00	10,077.7	236.0	408.8	275.7	0.00	0.00	0.00
10,200.0	5.50	60.00	10,177.3	240.8	417.1	281.3	0.00	0.00	0.00
10,300.0	5.50	60.00	10,276.8	245.6	425.4	286.9	0.00	0.00	0.00
10,400.0	5.50	60.00	10,376.4	250.4	433.7	292.5	0.00	0.00	0.00
10,445.3	5.50	60.00	10,421.5	252.6	437.5	295.1	0.00	0.00	0.00
2nd BS Sand									
10,500.0	5.50	60.00	10,475.9	255.2	442.0	298.1	0.00	0.00	0.00
10,600.0	5.50	60.00	10,575.4	260.0	450.3	303.7	0.00	0.00	0.00
10,700.0	5.50	60.00	10,675.0	264.8	458.6	309.3	0.00	0.00	0.00
10,800.0	5.50	60.00	10,774.5	269.6	466.9	314.9	0.00	0.00	0.00
10,900.0	5.50	60.00	10,874.1	274.4	475.2	320.5	0.00	0.00	0.00
11,000.0	5.50	60.00	10,973.6	279.2	483.5	326.1	0.00	0.00	0.00
11,016.0	5.50	60.00	10,989.5	279.9	484.8	327.0	0.00	0.00	0.00
3rd BS Carb									
11,100.0	5.50	60.00	11,073.1	284.0	491.8	331.7	0.00	0.00	0.00
11,200.0	5.50	60.00	11,172.7	288.7	500.1	337.3	0.00	0.00	0.00
11,300.0	5.50	60.00	11,272.2	293.5	508.4	342.9	0.00	0.00	0.00
11,400.0	5.50	60.00	11,371.8	298.3	516.7	348.5	0.00	0.00	0.00
11,500.0	5.50	60.00	11,471.3	303.1	525.0	354.1	0.00	0.00	0.00
11,549.9	5.50	60.00	11,521.0	305.5	529.2	356.9	0.00	0.00	0.00
KOP #2 - Start DLS 11.78 TFO 2.03									
11,595.9	10.92	61.01	11,566.5	308.7	534.9	360.7	11.78	11.78	2.20
3rd BS Sand									
11,600.0	11.40	61.05	11,570.5	309.1	535.6	361.1	11.78	11.78	1.07
11,700.0	23.18	61.56	11,665.8	323.3	561.6	377.8	11.78	11.78	0.51
11,762.9	30.59	61.69	11,721.9	336.8	586.6	393.8	11.78	11.78	0.20
Start DLS 11.78 TFO -65.43									
11,800.0	32.63	54.30	11,753.5	347.1	603.1	405.7	11.78	5.49	-19.91
11,900.0	39.83	38.41	11,834.3	388.1	645.0	450.7	11.78	7.20	-15.88
12,000.0	48.60	27.07	11,906.0	446.8	682.1	512.8	11.78	8.77	-11.35
12,006.9	49.24	26.41	11,910.5	451.4	684.4	517.6	11.78	9.30	-9.60
Wolfcamp A									
12,100.0	58.21	18.54	11,965.6	520.8	712.8	589.4	11.78	9.63	-8.45
12,200.0	68.27	11.67	12,010.6	606.8	735.8	677.4	11.78	10.07	-6.88
12,300.0	78.59	5.71	12,039.1	701.4	750.1	772.9	11.78	10.31	-5.96
12,400.0	89.01	0.18	12,049.9	800.5	755.2	872.0	11.78	10.42	-5.53
12,409.5	90.00	359.66	12,050.0	810.0	755.2	881.4	11.78	10.45	-5.45
Start DLS 0.00 TFO -90.00 - Anderson Fed Com 705H LP									
12,500.0	90.00	359.66	12,050.0	900.5	754.6	971.5	0.00	0.00	0.00
12,600.0	90.00	359.66	12,050.0	1,000.5	754.0	1,070.9	0.00	0.00	0.00
12,700.0	90.00	359.66	12,050.0	1,100.5	753.4	1,170.3	0.00	0.00	0.00
12,800.0	90.00	359.66	12,050.0	1,200.5	752.8	1,269.8	0.00	0.00	0.00
12,900.0	90.00	359.66	12,050.0	1,300.5	752.2	1,369.2	0.00	0.00	0.00
13,000.0	90.00	359.66	12,050.0	1,400.5	751.6	1,468.7	0.00	0.00	0.00
13,100.0	90.00	359.66	12,050.0	1,500.5	751.1	1,568.1	0.00	0.00	0.00



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad A	North Reference:	Grid
Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 705H		
Design:	Anderson Fed Com 705H - Prelim 1		

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)
13,200.0	90.00	359.66	12,050.0	1,600.5	750.5	1,667.5	0.00	0.00	0.00
13,300.0	90.00	359.66	12,050.0	1,700.5	749.9	1,767.0	0.00	0.00	0.00
13,400.0	90.00	359.66	12,050.0	1,800.5	749.3	1,866.4	0.00	0.00	0.00
13,500.0	90.00	359.66	12,050.0	1,900.5	748.7	1,965.8	0.00	0.00	0.00
13,600.0	90.00	359.66	12,050.0	2,000.5	748.1	2,065.3	0.00	0.00	0.00
13,700.0	90.00	359.66	12,050.0	2,100.5	747.5	2,164.7	0.00	0.00	0.00
13,800.0	90.00	359.66	12,050.0	2,200.5	746.9	2,264.2	0.00	0.00	0.00
13,900.0	90.00	359.66	12,050.0	2,300.5	746.3	2,363.6	0.00	0.00	0.00
14,000.0	90.00	359.66	12,050.0	2,400.5	745.7	2,463.0	0.00	0.00	0.00
14,100.0	90.00	359.66	12,050.0	2,500.5	745.1	2,562.5	0.00	0.00	0.00
14,200.0	90.00	359.66	12,050.0	2,600.5	744.5	2,661.9	0.00	0.00	0.00
14,300.0	90.00	359.66	12,050.0	2,700.5	743.9	2,761.4	0.00	0.00	0.00
14,400.0	90.00	359.66	12,050.0	2,800.5	743.3	2,860.8	0.00	0.00	0.00
14,500.0	90.00	359.66	12,050.0	2,900.5	742.7	2,960.2	0.00	0.00	0.00
14,600.0	90.00	359.66	12,050.0	3,000.5	742.1	3,059.7	0.00	0.00	0.00
14,700.0	90.00	359.66	12,050.0	3,100.5	741.5	3,159.1	0.00	0.00	0.00
14,800.0	90.00	359.66	12,050.0	3,200.5	740.9	3,258.5	0.00	0.00	0.00
14,900.0	90.00	359.66	12,050.0	3,300.5	740.3	3,358.0	0.00	0.00	0.00
15,000.0	90.00	359.66	12,050.0	3,400.5	739.7	3,457.4	0.00	0.00	0.00
15,100.0	90.00	359.66	12,050.0	3,500.5	739.1	3,556.8	0.00	0.00	0.00
15,200.0	90.00	359.66	12,050.0	3,600.5	738.5	3,656.3	0.00	0.00	0.00
15,300.0	90.00	359.66	12,050.0	3,700.5	737.9	3,755.7	0.00	0.00	0.00
15,400.0	90.00	359.66	12,050.0	3,800.5	737.3	3,855.2	0.00	0.00	0.00
15,500.0	90.00	359.66	12,050.0	3,900.5	736.7	3,954.6	0.00	0.00	0.00
15,600.0	90.00	359.66	12,050.0	4,000.5	736.1	4,054.0	0.00	0.00	0.00
15,700.0	90.00	359.66	12,050.0	4,100.5	735.5	4,153.5	0.00	0.00	0.00
15,800.0	90.00	359.66	12,050.0	4,200.5	734.9	4,252.9	0.00	0.00	0.00
15,900.0	90.00	359.66	12,050.0	4,300.5	734.3	4,352.3	0.00	0.00	0.00
16,000.0	90.00	359.66	12,050.0	4,400.5	733.7	4,451.8	0.00	0.00	0.00
16,100.0	90.00	359.66	12,050.0	4,500.5	733.1	4,551.2	0.00	0.00	0.00
16,200.0	90.00	359.66	12,050.0	4,600.5	732.5	4,650.7	0.00	0.00	0.00
16,300.0	90.00	359.66	12,050.0	4,700.5	731.9	4,750.1	0.00	0.00	0.00
16,400.0	90.00	359.66	12,050.0	4,800.5	731.3	4,849.5	0.00	0.00	0.00
16,500.0	90.00	359.66	12,050.0	4,900.5	730.7	4,949.0	0.00	0.00	0.00
16,600.0	90.00	359.65	12,050.0	5,000.5	730.1	5,048.4	0.00	0.00	0.00
16,700.0	90.00	359.65	12,050.0	5,100.5	729.5	5,147.8	0.00	0.00	0.00
16,800.0	90.00	359.65	12,050.0	5,200.5	728.9	5,247.3	0.00	0.00	0.00
16,900.0	90.00	359.65	12,050.0	5,300.5	728.3	5,346.7	0.00	0.00	0.00
17,000.0	90.00	359.65	12,050.0	5,400.5	727.7	5,446.2	0.00	0.00	0.00
17,100.0	90.00	359.65	12,050.0	5,500.5	727.1	5,545.6	0.00	0.00	0.00
17,200.0	90.00	359.65	12,050.0	5,600.5	726.5	5,645.0	0.00	0.00	0.00
17,300.0	90.00	359.65	12,050.0	5,700.5	725.9	5,744.5	0.00	0.00	0.00
17,400.0	90.00	359.65	12,050.0	5,800.5	725.3	5,843.9	0.00	0.00	0.00
17,500.0	90.00	359.65	12,050.0	5,900.5	724.7	5,943.3	0.00	0.00	0.00
17,600.0	90.00	359.65	12,050.0	6,000.5	724.1	6,042.8	0.00	0.00	0.00
17,700.0	90.00	359.65	12,050.0	6,100.4	723.5	6,142.2	0.00	0.00	0.00
17,800.0	90.00	359.65	12,050.0	6,200.4	722.9	6,241.7	0.00	0.00	0.00
17,900.0	90.00	359.65	12,050.0	6,300.4	722.3	6,341.1	0.00	0.00	0.00
18,000.0	90.00	359.65	12,050.0	6,400.4	721.7	6,440.5	0.00	0.00	0.00
18,100.0	90.00	359.65	12,050.0	6,500.4	721.0	6,540.0	0.00	0.00	0.00
18,200.0	90.00	359.65	12,050.0	6,600.4	720.4	6,639.4	0.00	0.00	0.00
18,300.0	90.00	359.65	12,050.0	6,700.4	719.8	6,738.8	0.00	0.00	0.00
18,400.0	90.00	359.65	12,050.0	6,800.4	719.2	6,838.3	0.00	0.00	0.00
18,500.0	90.00	359.65	12,050.0	6,900.4	718.6	6,937.7	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 705H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3689.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad A	North Reference:	Grid
Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 705H		
Design:	Anderson Fed Com 705H - Prelim 1		

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)	
18,600.0	90.00	359.65	12,050.0	7,000.4	718.0	7,037.1	0.00	0.00	0.00	
18,700.0	90.00	359.65	12,050.0	7,100.4	717.4	7,136.6	0.00	0.00	0.00	
18,737.6	90.00	359.65	12,050.0	7,138.0	717.2	7,174.0	0.00	0.00	0.00	
TD at 18737.6 - Anderson Fed Com 705H BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Anderson Fed Com 705H	0.00	0.00	12,050.0	810.0	755.2	520,335.21	755,903.84	32° 25' 42.773 N	103° 38' 16.478 W	
- plan hits target center										
- Point										
Anderson Fed Com 705H	0.00	0.00	12,050.0	7,138.0	717.2	526,663.23	755,865.87	32° 26' 45.391 N	103° 38' 16.440 W	
- plan hits target center										
- Point										

Casing Points									
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")					
12,409.5	12,050.0	LP	5-1/2	5-1/2					

Formations									
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)				
1,191.5	1,191.5	Rustler		0.00					
4,769.5	4,769.5	Base of Limestone		0.00					
8,431.1	8,416.5	Lower Brushy		0.00					
8,953.5	8,936.5	Avalon		0.00					
9,824.5	9,803.5	1st BS Sand		0.00					
10,445.3	10,421.5	2nd BS Sand		0.00					
11,016.0	10,989.5	3rd BS Carb		0.00					
11,595.9	11,566.5	3rd BS Sand		0.00					
12,006.9	11,910.5	Wolfcamp A		0.00					

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,900.0	4,900.0	0.0	0.0	KOP - Start Build 1.00	
5,450.0	5,449.2	13.2	22.8	Start 6099.9 hold at 5450.0 MD	
11,549.9	11,521.0	305.5	529.2	KOP #2 - Start DLS 11.78 TFO 2.03	
11,762.9	11,721.9	336.8	586.6	Start DLS 11.78 TFO -65.43	
12,409.5	12,050.0	810.0	755.2	Start DLS 0.00 TFO -90.00	
18,737.6	12,050.0	7,138.0	717.2	TD at 18737.6	



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad A

Anderson Fed Com 705H

Anderson Fed Com 705H

Anderson Fed Com 705H - Prelim 1

Anticollision Summary Report

23 September, 2021



Anticollision Summary Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 705H
Project:	Hat Mesa	TVD Reference:	WELL @ 3689.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad A	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 705H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 705H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 705H - Prelim 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	9/23/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	18,737.6	Anderson Fed Com 705H - Prelim 1 (Ande	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad A						
Anderson 35 3H - Anderson 35 3H - Anderson 35 3H						Out of range
Anderson Fed Com 504H - Anderson Fed Com 504H - A	10,554.1	10,552.7	62.4	9.1	1.170	Level 3, CC
Anderson Fed Com 504H - Anderson Fed Com 504H - A	10,600.0	10,593.8	65.8	3.5	1.057	Level 3, ES, SF
Anderson Fed Com 508H - Anderson Fed Com 508H - A	4,716.3	4,717.3	32.7	7.4	1.295	Level 3, CC
Anderson Fed Com 508H - Anderson Fed Com 508H - A	4,800.0	4,801.0	32.7	7.2	1.281	Level 3, ES
Anderson Fed Com 508H - Anderson Fed Com 508H - A	9,700.0	9,696.8	79.3	17.1	1.274	Level 3, SF
Anderson Fed Com 558H - Anderson Fed Com 558H - A	11,143.5	11,153.5	90.5	25.9	1.401	Level 3, CC
Anderson Fed Com 558H - Anderson Fed Com 558H - A	11,200.0	11,201.8	95.2	24.5	1.347	Level 3, ES, SF
Anderson Fed Com 604H - PH - Anderson Fed Com 604	6,205.6	6,200.3	32.2	0.9	1.029	Level 3, CC, ES
Anderson Fed Com 604H - PH - Anderson Fed Com 604	6,300.0	6,294.4	32.8	0.9	1.029	Level 3, SF
Anderson Fed Com 604H - ST01 - Anderson Fed Com 6	6,205.6	6,200.3	32.2	0.9	1.029	Level 3, CC, ES
Anderson Fed Com 604H - ST01 - Anderson Fed Com 6	6,300.0	6,294.4	32.8	0.9	1.029	Level 3, SF
Anderson Fed Com 704H - Anderson Fed Com 704H - A	6,094.4	6,084.8	37.1	7.4	1.247	Level 3, CC
Anderson Fed Com 704H - Anderson Fed Com 704H - A	6,100.0	6,090.4	37.1	7.3	1.247	Level 3, ES, SF



Anticollision Summary Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 705H
Project:	Hat Mesa	TVD Reference:	WELL @ 3689.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad A	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 705H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 705H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3689.5usft (Original Well Ele

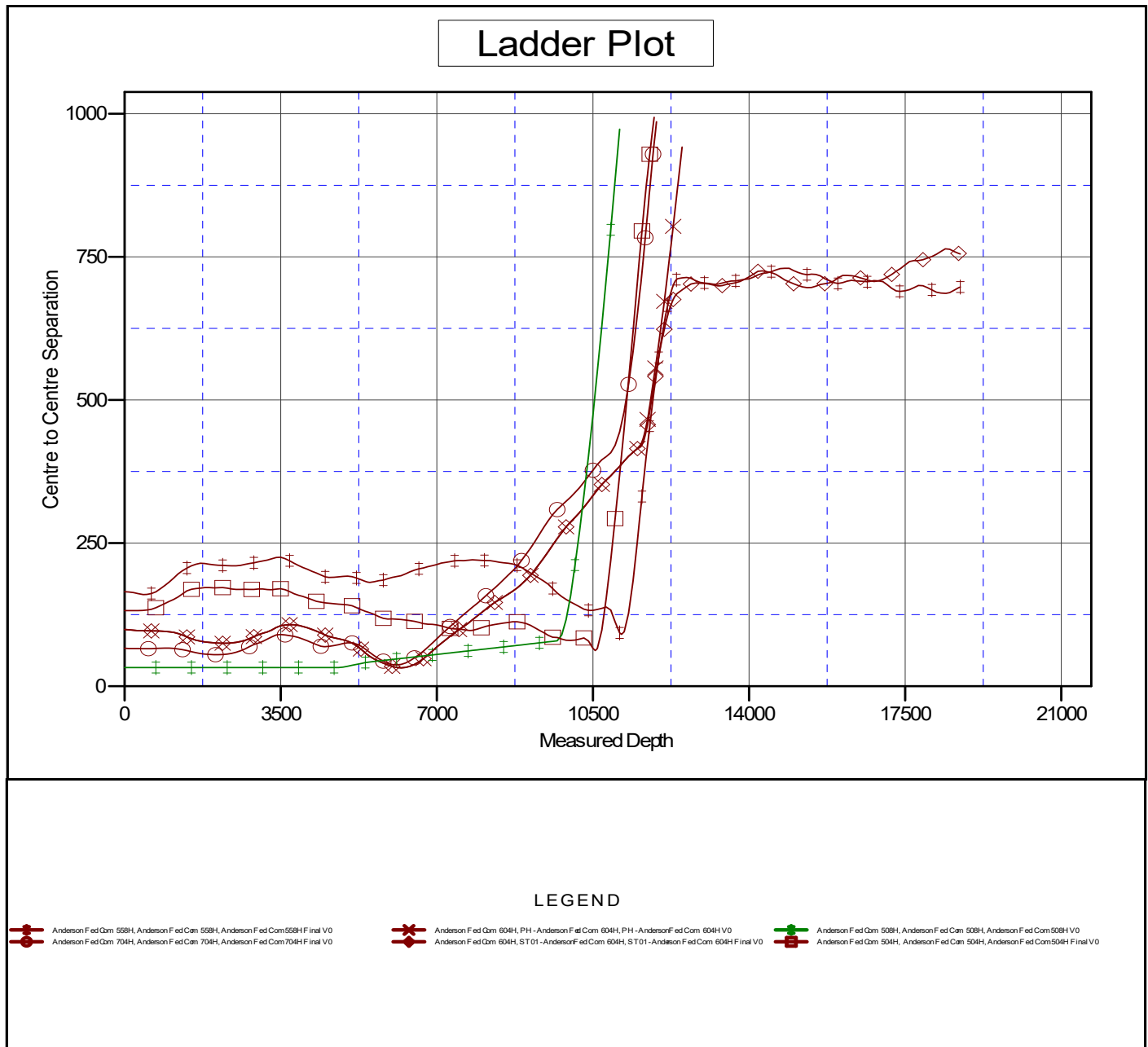
Coordinates are relative to: Anderson Fed Com 705H

Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Central Meridian is 104° 20' 0.000 W

Grid Convergence at Surface is: 0.37°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Summary Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 705H
Project:	Hat Mesa	TVD Reference:	WELL @ 3689.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad A	MD Reference:	WELL @ 3689.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 705H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 705H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 705H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3689.5usft (Original Well Ele

Offset Depths are relative to Offset Datum

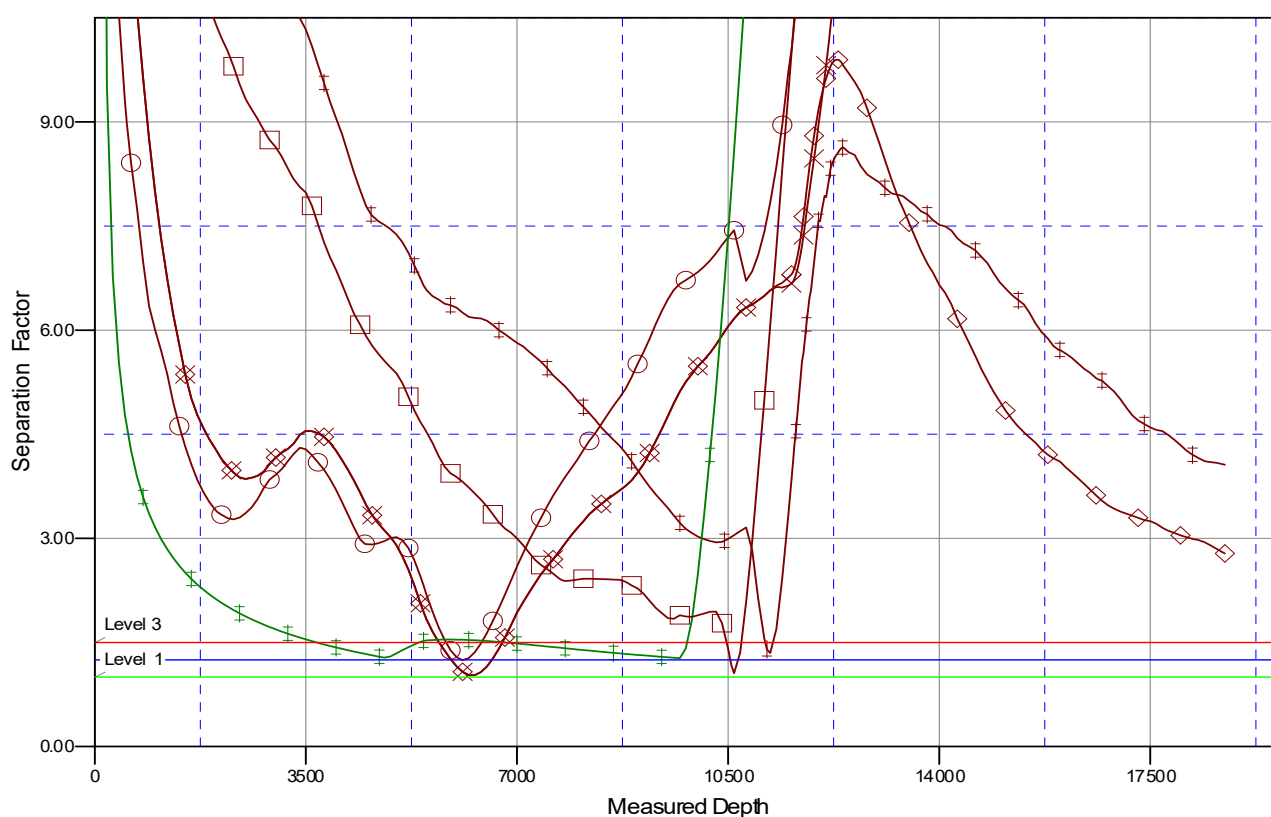
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 705H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

Anderson Fed Qm 558H, Anderson Fed Cam 558H, Anderson Fed Com 558H Final V0
 Anderson Fed Qm 704H, Anderson Fed Cam 704H, Anderson Fed Com 704H Final V0
 Anderson Fed Qm 604H, PH - Anderson Fed Cam 604H, PH - Anderson Fed Com 604H V0
 Anderson Fed Qm 604H, ST01 - Anderson Fed Cam 604H, ST01 - Anderson Fed Com 604H Final V0
 Anderson Fed Qm 508H, Anderson Fed Cam 508H, Anderson Fed Com 508H V0
 Anderson Fed Qm 504H, Anderson Fed Cam 504H, Anderson Fed Com 504H Final V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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1220 S. St Francis Dr., Santa Fe, NM 87505
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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 61813

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 61813
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/16/2021