

Well Name: MESA 8105 11 FEDERAL	Well Location: T26S / R32E / SEC 11 / NENW /	County or Parish/State:
Well Number: 78H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM014492	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549296	Well Status: Approved Application for Permit to Drill	Operator: BTA OIL PRODUCERS LLC

Notice of Intent

Sundry ID: 2645069

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 11/18/2021	Time Sundry Submitted: 11:44
Date proposed operation will begin: 11/18/2021	

Procedure Description: BTA Oil Producers, LLC respectfully requests the following SHL Footage, Casing, and Drill plan changes to the original APD as approved. Please see attached for more details. Original SHL Location 490 FNL / 1560 FWL / LAT 32.063662 / LONG -103.649198 New SHL Location 320 FNL / 1700 FWL / LAT 32.064129 / LONG - 103.648747

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Mesa_78H_Wall_plot_20211118114334.pdf
- Mesa_78H_directional_plan_20211118114334.pdf
- Signed_MESA_8105_11_FED_78H_c102_20211118114303.pdf
- MESA_8105_11_FED_62H__63H__78H__79H_Well_pad_plat_20211118114303.pdf
- Mesa_8105_11_FED_78H_drill_plans_20211118114303.pdf

Well Name: MESA 8105 11 FEDERAL	Well Location: T26S / R32E / SEC 11 / NENW /	County or Parish/State:
Well Number: 78H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM014492	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549296	Well Status: Approved Application for Permit to Drill	Operator: BTA OIL PRODUCERS LLC

Conditions of Approval

Additional Reviews

MESA_8105_11_Federal_78H_Sundry_2645069_Drilling_COA_OTA_20220215183944.pdf

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: SAMMY HAJAR	Signed on: NOV 18, 2021 11:43 AM
Name: BTA OIL PRODUCERS LLC	
Title: Regulatory Analyst	
Street Address: 104 S. Pecos	
City: Midland	State: TX
Phone: (432) 682-3753	
Email address: shajar@btaoil.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: 03/10/2022
Signature: Cody R. Layton	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA Oil Producers LLC
LEASE NO.:	NMNM014492
WELL NAME & NO.:	MESA 8105 11 Federal 78H
SURFACE HOLE FOOTAGE:	320'/N & 1700'/W
BOTTOM HOLE FOOTAGE:	50'/S & 2310'/W
LOCATION:	Section 11, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

All Previous COAs Still Apply.

A. CASING

Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **760 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength,

whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The 7-5/8 inch intermediate casing shall be set at approximately **11,965** feet. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
Excess cement calculates to -42%, additional cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
Excess cement calculates to -5%, additional cement might be required.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5 1/2 X 5 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

OTA02152022

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49296	² Pool Code 98158	³ Pool Name WC-025 ; Wolfcamp
⁴ Property Code 328173	⁵ Property Name MESA 8105 11 FED	⁶ Well Number 78H
⁷ OGRID No. 260297	⁸ Operator Name BTA OIL PRODUCERS, LLC	⁹ Elevation 3254'

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
C	11	26S	32E		320	NORTH	1700	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	11	26S	32E		50	SOUTH	2310	WEST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Sammy Hajar</i> Date: 11/11/2021 Printed Name: Sammy Hajar E-mail Address: SHAJAR@BTAOIL.COM
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. SEPTEMBER 17, 2021 Date of Survey Signature and Seal of Professional Surveyor: <i>David W. Myers</i>
	SURFACE HOLE LOCATION 320' FNL 1700' FWL, SECTION 11 NAD 83, SPCS NM EAST X:753405.29' / Y:387740.50' LAT:32.06412950N / LON:103.64874760W NAD 27, SPCS NM EAST X:712218.54' / Y:387683.08' LAT:32.06400456N / LON:103.64827652W
	KICK OFF/FIRST TAKE POINT 100' FNL 2310' FWL, SECTION 11 NAD 83, SPCS NM EAST X:754012.74' / Y:387964.86' LAT:32.06473561N / LON:103.64678217W NAD 27, SPCS NM EAST X:712826.00' / Y:387907.43' LAT:32.06461067N / LON:103.64631113W
LAST TAKE POINT 100' FSL 2310' FWL, SECTION 11 NAD 83, SPCS NM EAST X:754075.45' / Y:382816.07' LAT:32.05058162N / LON:103.64668543W NAD 27, SPCS NM EAST X:712888.49' / Y:382758.77' LAT:32.05045657N / LON:103.64621519W	BOTTOM HOLE LOCATION 50' FSL 2310' FWL, SECTION 11 NAD 83, SPCS NM EAST X:754076.10' / Y:382768.08' LAT:32.05044418N / LON:103.64668439W NAD 27, SPCS NM EAST X:712889.13' / Y:382708.77' LAT:32.05031913N / LON:103.64621415W
SHEET 1 OF 1 JOB No. R4168.007 REV 3 DEF 9/17/2021	

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99981493 Convergence Angle: 00°23'48.779988"

☐ Horizontal Spacing Unit



BTA Oil Producers, LLC
104 S Pecos
Midland, TX 79701

WELL: Mesa 8105 11 Fed #78H
TVD: 12443
MD: 17562

DRILLING PLAN

Casing Program

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/Buoyant	Mud Weight (ppg)
14 3/4	10 3/4	0	750	0	750	No	40.5	J-55	STC	4.9	9.7	20.7	13.8	Dry	8.3
9 7/8	7 5/8	0	8064	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8064	11965	8000	11916	yes	29.7	P110	FJ	1.7	1.6	2.6	2.7	Dry	9.4
6 3/4	5 1/2	0	11765	0	11716	Yes	20	P110	Buttress	1.9	1.4	2.7	2.8	Dry	14
6 3/4	5	11765	17562	11716	12443	Yes	18	P110	Buttress	1.9	1.4	1.8	1.9	Dry	14

*7 5/8" has DV Tool @ 4626'

Dv Tool Depth 4626

Cementing Program

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
10 3/4	Lead		0	505	Class C	315	1.8	13.5	567	100%	2% CaCl2
	Tail		505	750	Class C	200	1.34	14.8	268	100%	2% CaCl2
7 5/8	Stg 2 Lead		0	4200	Class C	675	2.19	12.7	1478.25	50%	0.5% CaCl2
	Stg 2 Tail		4200	4626	Class C	150	1.33	14.8	199.5	50%	1% CaCl2
	Stg 1 Lead		4626	8415	Class H	385	2.64	10.5	1016.4	25%	0.5% CaCl2
	Stg 1 Tail		8415	11965	Class H	400	1.19	15.6	476	25%	1% CaCl2
5 1/2	Lead										
	Tail		10965	11765							
5	Lead										
	Tail		11765	17562	Class H	645	1.27	14.8	819.15	10%	0.1% Fluid Loss

BOP/CHOKE

Testing BOP break when we don't penetrate WC

5M Annular on 10M BOPE

Pressure Rating: 10M

Rating Depth: 14000

Requesting Variance?

Choke Hose

Multi Bowl Wellhead

Pressure

Anticipated Bottom Hole Pressure: 9,059 psi

Anticipated Bottom Hole Temperature: 181 °F

Anticipated abnormal pressures, temperatures, or potential geologic hazards? None

Anticipated Bottom Surface Pressure: 6,321 psi

Hydrogen sulfide drilling operations plan required? Yes

Circulating Medium Table			
Depth (TVD)		Type	Weight (ppg)
From	To		
0	750	FW Spud	8.3 – 8.4
750	11965	DBE	9.0 – 9.4
11965	12443	OBM	11.0 – 14.0

LEGEND

PROPOSED WELL PAD	
ARCH SURVEY LIMITS	
PROPOSED LEASE ROAD	
SECTION LINE	
RECLAMATION & TOPSOIL AREA	

WELL PAD PLAT

MESA 8105 11 FED PAD #3
SEC. 11 TWP. 26-S RGE. 32-E
SURVEY: N.M.P.M.

COUNTY: LEA

OPERATOR: BTA OIL PRODUCERS, LLC

U.S.G.S. TOPOGRAPHIC MAP: PADUCA BREAKS WEST, N.M., TX

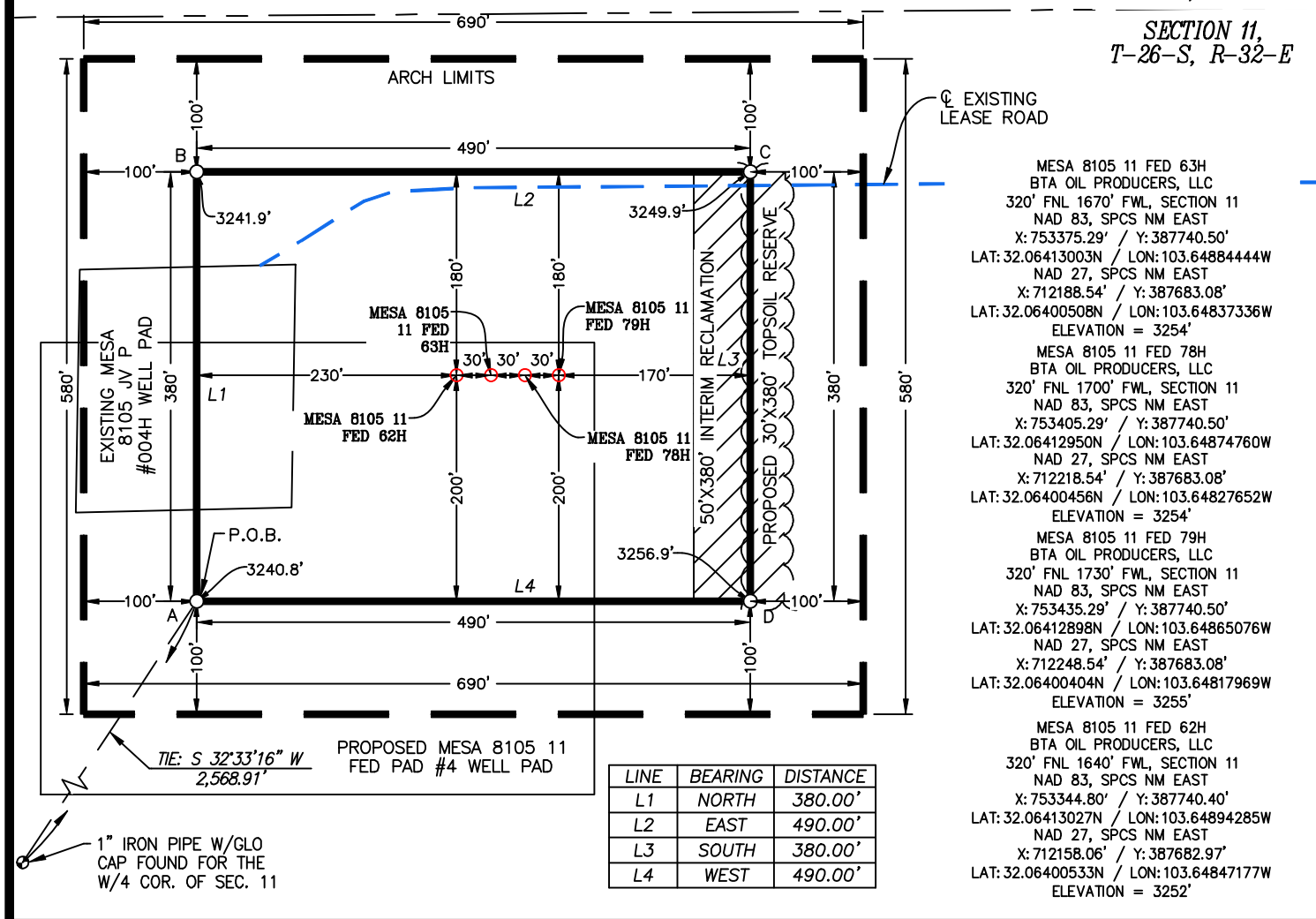


PROPOSED WELL PAD AREA = 4.27 ACRES
PROPOSED SHORT-TERM DISTURBANCE AREA = 4.54 ACRES
PROPOSED INTERIM RECLAMATION AREA = 0.70 ACRES
PROPOSED LONG-TERM DISTURBANCE AREA = 3.84 ACRES

NAD 83				NAD 27			
A	E:(X)753114.80 N:(Y)387540.40	LAT:32.06358452 LON:-103.64968937		A	E:(X)711928.05 N:(Y)387482.98	LAT:32.06345958 LON:-103.64921829	
B	E:(X)753114.80 N:(Y)387920.40	LAT:32.06462906 LON:-103.64968160		B	E:(X)711928.07 N:(Y)387862.97	LAT:32.06450412 LON:-103.64921046	
C	E:(X)753604.80 N:(Y)387920.40	LAT:32.06462052 LON:-103.64809990		C	E:(X)712418.06 N:(Y)387862.97	LAT:32.06449558 LON:-103.64762881	
D	E:(X)753604.80 N:(Y)387540.40	LAT:32.06357598 LON:-103.64810769		D	E:(X)712418.04 N:(Y)387482.98	LAT:32.06345103 LON:-103.64763666	

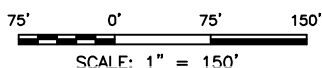
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T-26-S, R-32-E

SECTION 11,
T-26-S, R-32-E

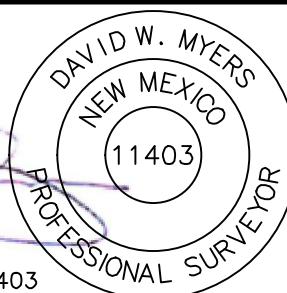


NOTE:
THIS IS NOT A BOUNDARY SURVEY,
APPARENT PROPERTY CORNERS AND
PROPERTY LINES ARE SHOWN FOR
INFORMATION ONLY. BOUNDARY DATA SHOWN
IS FROM STATE OF NEW MEXICO OIL
CONSERVATION DIVISION FORM C-102
INCLUDED IN THIS SUBMITTAL.

OCTOBER 6, 2021



DAVID W. MYERS 11403

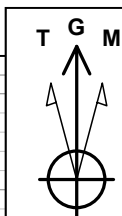


2	09/27/2021	BFF
REV.	DATE	BY

SHEET 2 OF 3

PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST., UNIT B,
WEST MONROE, LA 71291
318-323-8900 OFFICE
JOB No. R4168_007

BTA Oil Producers, LLC



Azimuths to Grid North
True North: -0.36°
Magnetic North: 7.41°

Magnetic Field
Strength: 48689.5nT
Dip Angle: 60.08°
Date: 12/31/2009
Model: IGRF200510

SITE DETAILS: Mesa Sec 11, T26S, R32E

Site Centre Northing: 387721.83
Easting: 752135.43

Positional Uncertainty: 0.0
Convergence: 0.36
Local North: Grid

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	
2	1009.0	0.00	0.00	1009.0	0.0	0.0	0.00	
3	1434.0	8.50	63.81	1432.4	13.9	28.2	2.00	
4	5607.2	8.50	63.81	5559.8	286.1	581.8	0.00	
5	6032.2	0.00	0.00	5983.3	300.0	610.0	2.00	
6	11964.5	0.00	0.00	11915.5	300.0	610.0	0.00	
7	12014.5	0.00	0.00	11965.5	300.0	610.0	0.00	
8	12764.5	90.00	179.34	12443.0	-177.4	615.5	12.00	
9	17562.0	90.00	179.34	12443.0	-4974.6	670.8	0.00	

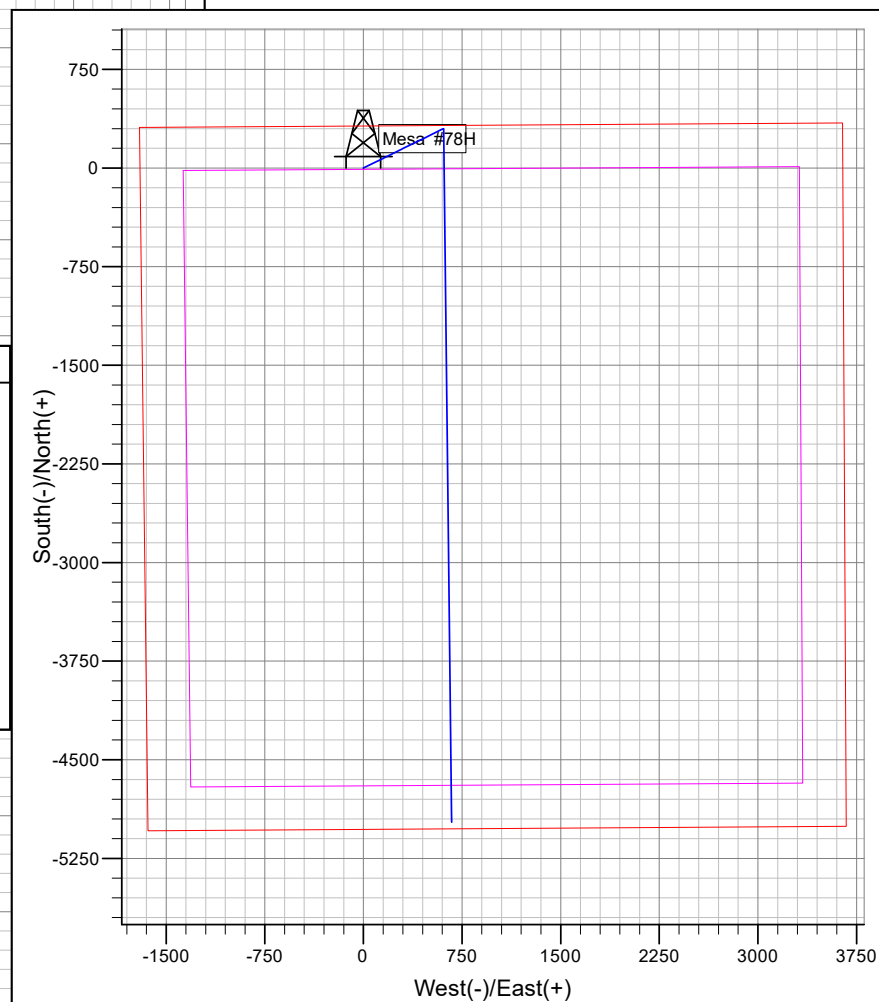
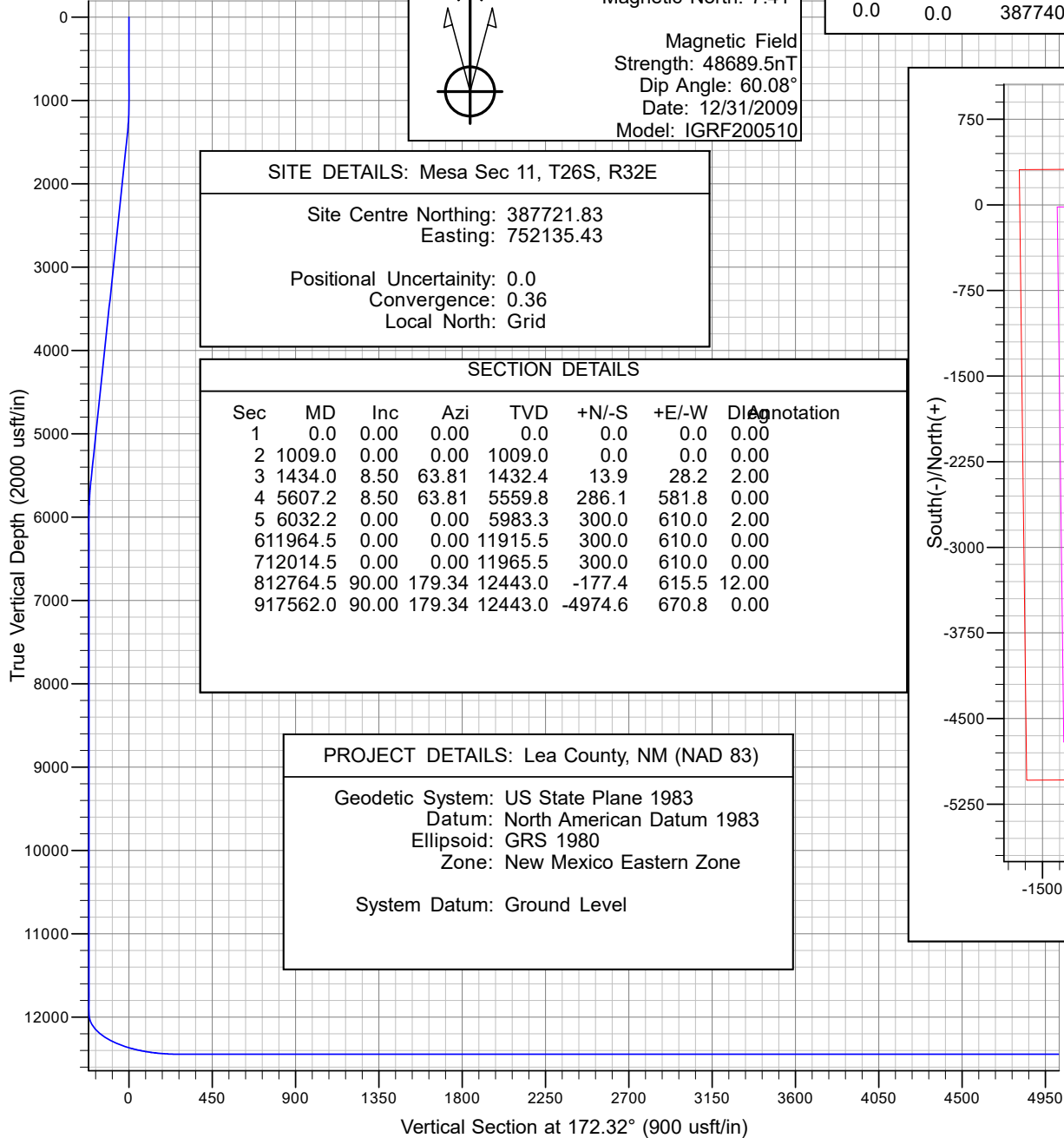
PROJECT DETAILS: Lea County, NM (NAD 83)

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

System Datum: Ground Level

WELL DETAILS: Mesa #78H

+N/-S	+E/-W	Northing	Ground Level Easting	3254.0 Latitude	Longitude
0.0	0.0	387740.50	753405.29	32° 3' 50.866 N	103° 38' 55.491 W



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Mesa Sec 11, T26S, R32E

Mesa #78H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

12 November, 2021

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #78H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #78H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, NM (NAD 83), Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Mesa Sec 11, T26S, R32E		
Site Position:		Northing:	387,721.83 usft
From:	Map	Easting:	752,135.43 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 50.761 N
		Longitude:	103° 39' 10.249 W

Well	Mesa #78H					
Well Position	+N/-S	0.0 usft	Northing:	387,740.50 usft	Latitude:	32° 3' 50.866 N
	+E/-W	0.0 usft	Easting:	753,405.29 usft	Longitude:	103° 38' 55.491 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,254.0 usft
Grid Convergence:		0.36 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.77	60.08	48,689.53899451

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	9.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	9.0	0.0	0.0	172.32

Plan Survey Tool Program	Date	11/12/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	9.0	17,562.0 Design #1 (Wellbore #1)		

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #78H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #78H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	
1,009.0	0.00	0.00	1,009.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,434.0	8.50	63.81	1,432.4	13.9	28.2	2.00	2.00	0.00	63.81	
5,607.2	8.50	63.81	5,559.8	286.1	581.8	0.00	0.00	0.00	0.00	
6,032.2	0.00	0.00	5,983.3	300.0	610.0	2.00	-2.00	0.00	180.00	
11,964.5	0.00	0.00	11,915.5	300.0	610.0	0.00	0.00	0.00	0.00	
12,014.5	0.00	0.00	11,965.5	300.0	610.0	0.00	0.00	0.00	0.00	
12,764.5	90.00	179.34	12,443.0	-177.4	615.5	12.00	12.00	0.00	179.34	
17,562.0	90.00	179.34	12,443.0	-4,974.6	670.8	0.00	0.00	0.00	0.00	Mesa #78H BHL

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #78H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #78H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
100.0	0.00	0.00	100.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
200.0	0.00	0.00	200.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
300.0	0.00	0.00	300.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
400.0	0.00	0.00	400.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
500.0	0.00	0.00	500.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
600.0	0.00	0.00	600.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
700.0	0.00	0.00	700.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
800.0	0.00	0.00	800.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
900.0	0.00	0.00	900.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
1,009.0	0.00	0.00	1,009.0	0.0	0.0	387,740.50	753,405.29	32° 3' 50.866 N	103° 38' 55.491 W
1,100.0	1.82	63.81	1,100.0	0.6	1.3	387,741.14	753,406.58	32° 3' 50.872 N	103° 38' 55.476 W
1,200.0	3.82	63.81	1,199.9	2.8	5.7	387,743.31	753,411.00	32° 3' 50.894 N	103° 38' 55.425 W
1,300.0	5.82	63.81	1,299.5	6.5	13.3	387,747.02	753,418.54	32° 3' 50.930 N	103° 38' 55.337 W
1,400.0	7.82	63.81	1,398.8	11.8	23.9	387,752.26	753,429.19	32° 3' 50.981 N	103° 38' 55.213 W
1,434.0	8.50	63.81	1,432.4	13.9	28.2	387,754.39	753,433.52	32° 3' 51.002 N	103° 38' 55.162 W
1,500.0	8.50	63.81	1,497.7	18.2	37.0	387,758.69	753,442.28	32° 3' 51.044 N	103° 38' 55.060 W
1,600.0	8.50	63.81	1,596.6	24.7	50.3	387,765.21	753,455.54	32° 3' 51.108 N	103° 38' 54.906 W
1,700.0	8.50	63.81	1,695.5	31.2	63.5	387,771.74	753,468.80	32° 3' 51.171 N	103° 38' 54.751 W
1,800.0	8.50	63.81	1,794.4	37.8	76.8	387,778.26	753,482.07	32° 3' 51.235 N	103° 38' 54.596 W
1,900.0	8.50	63.81	1,893.3	44.3	90.0	387,784.78	753,495.33	32° 3' 51.299 N	103° 38' 54.442 W
2,000.0	8.50	63.81	1,992.2	50.8	103.3	387,791.30	753,508.59	32° 3' 51.362 N	103° 38' 54.287 W
2,100.0	8.50	63.81	2,091.1	57.3	116.6	387,797.83	753,521.86	32° 3' 51.426 N	103° 38' 54.133 W
2,200.0	8.50	63.81	2,190.0	63.9	129.8	387,804.35	753,535.12	32° 3' 51.490 N	103° 38' 53.978 W
2,300.0	8.50	63.81	2,288.9	70.4	143.1	387,810.87	753,548.38	32° 3' 51.554 N	103° 38' 53.823 W
2,400.0	8.50	63.81	2,387.8	76.9	156.4	387,817.40	753,561.64	32° 3' 51.617 N	103° 38' 53.669 W
2,500.0	8.50	63.81	2,486.7	83.4	169.6	387,823.92	753,574.91	32° 3' 51.681 N	103° 38' 53.514 W
2,600.0	8.50	63.81	2,585.6	89.9	182.9	387,830.44	753,588.17	32° 3' 51.745 N	103° 38' 53.359 W
2,700.0	8.50	63.81	2,684.5	96.5	196.2	387,836.96	753,601.43	32° 3' 51.808 N	103° 38' 53.205 W
2,800.0	8.50	63.81	2,783.4	103.0	209.4	387,843.49	753,614.70	32° 3' 51.872 N	103° 38' 53.050 W
2,900.0	8.50	63.81	2,882.3	109.5	222.7	387,850.01	753,627.96	32° 3' 51.936 N	103° 38' 52.896 W
3,000.0	8.50	63.81	2,981.2	116.0	235.9	387,856.53	753,641.22	32° 3' 52.000 N	103° 38' 52.741 W
3,100.0	8.50	63.81	3,080.1	122.6	249.2	387,863.06	753,654.49	32° 3' 52.063 N	103° 38' 52.586 W
3,200.0	8.50	63.81	3,179.0	129.1	262.5	387,869.58	753,667.75	32° 3' 52.127 N	103° 38' 52.432 W
3,300.0	8.50	63.81	3,277.9	135.6	275.7	387,876.10	753,681.01	32° 3' 52.191 N	103° 38' 52.277 W
3,400.0	8.50	63.81	3,376.8	142.1	289.0	387,882.62	753,694.28	32° 3' 52.254 N	103° 38' 52.123 W
3,500.0	8.50	63.81	3,475.7	148.7	302.3	387,889.15	753,707.54	32° 3' 52.318 N	103° 38' 51.968 W
3,600.0	8.50	63.81	3,574.7	155.2	315.5	387,895.67	753,720.80	32° 3' 52.382 N	103° 38' 51.813 W
3,700.0	8.50	63.81	3,673.6	161.7	328.8	387,902.19	753,734.07	32° 3' 52.446 N	103° 38' 51.659 W
3,800.0	8.50	63.81	3,772.5	168.2	342.1	387,908.72	753,747.33	32° 3' 52.509 N	103° 38' 51.504 W
3,900.0	8.50	63.81	3,871.4	174.7	355.3	387,915.24	753,760.59	32° 3' 52.573 N	103° 38' 51.350 W
4,000.0	8.50	63.81	3,970.3	181.3	368.6	387,921.76	753,773.86	32° 3' 52.637 N	103° 38' 51.195 W
4,100.0	8.50	63.81	4,069.2	187.8	381.8	387,928.28	753,787.12	32° 3' 52.700 N	103° 38' 51.040 W
4,200.0	8.50	63.81	4,168.1	194.3	395.1	387,934.81	753,800.38	32° 3' 52.764 N	103° 38' 50.886 W
4,300.0	8.50	63.81	4,267.0	200.8	408.4	387,941.33	753,813.64	32° 3' 52.828 N	103° 38' 50.731 W
4,400.0	8.50	63.81	4,365.9	207.4	421.6	387,947.85	753,826.91	32° 3' 52.892 N	103° 38' 50.577 W
4,500.0	8.50	63.81	4,464.8	213.9	434.9	387,954.38	753,840.17	32° 3' 52.955 N	103° 38' 50.422 W
4,600.0	8.50	63.81	4,563.7	220.4	448.2	387,960.90	753,853.43	32° 3' 53.019 N	103° 38' 50.267 W
4,700.0	8.50	63.81	4,662.6	226.9	461.4	387,967.42	753,866.70	32° 3' 53.083 N	103° 38' 50.113 W
4,800.0	8.50	63.81	4,761.5	233.5	474.7	387,973.94	753,879.96	32° 3' 53.146 N	103° 38' 49.958 W
4,900.0	8.50	63.81	4,860.4	240.0	488.0	387,980.47	753,893.22	32° 3' 53.210 N	103° 38' 49.803 W
5,000.0	8.50	63.81	4,959.3	246.5	501.2	387,986.99	753,906.49	32° 3' 53.274 N	103° 38' 49.649 W
5,100.0	8.50	63.81	5,058.2	253.0	514.5	387,993.51	753,919.75	32° 3' 53.338 N	103° 38' 49.494 W
5,200.0	8.50	63.81	5,157.1	259.5	527.7	388,000.04	753,933.01	32° 3' 53.401 N	103° 38' 49.340 W

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #78H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #78H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,300.0	8.50	63.81	5,256.0	266.1	541.0	388,006.56	753,946.28	32° 3' 53.465 N	103° 38' 49.185 W	
5,400.0	8.50	63.81	5,354.9	272.6	554.3	388,013.08	753,959.54	32° 3' 53.529 N	103° 38' 49.030 W	
5,500.0	8.50	63.81	5,453.8	279.1	567.5	388,019.60	753,972.80	32° 3' 53.592 N	103° 38' 48.876 W	
5,600.0	8.50	63.81	5,552.7	285.6	580.8	388,026.13	753,986.07	32° 3' 53.656 N	103° 38' 48.721 W	
5,607.2	8.50	63.81	5,559.8	286.1	581.8	388,026.60	753,987.03	32° 3' 53.661 N	103° 38' 48.710 W	
5,700.0	6.64	63.81	5,651.8	291.5	592.7	388,031.99	753,997.99	32° 3' 53.713 N	103° 38' 48.582 W	
5,800.0	4.64	63.81	5,751.3	295.8	601.6	388,036.33	754,006.82	32° 3' 53.756 N	103° 38' 48.479 W	
5,900.0	2.64	63.81	5,851.1	298.7	607.3	388,039.14	754,012.52	32° 3' 53.783 N	103° 38' 48.413 W	
6,000.0	0.64	63.81	5,951.0	299.9	609.8	388,040.41	754,015.10	32° 3' 53.796 N	103° 38' 48.383 W	
6,032.2	0.00	0.00	5,983.3	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,100.0	0.00	0.00	6,051.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,200.0	0.00	0.00	6,151.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,300.0	0.00	0.00	6,251.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,400.0	0.00	0.00	6,351.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,500.0	0.00	0.00	6,451.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,600.0	0.00	0.00	6,551.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,700.0	0.00	0.00	6,651.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,800.0	0.00	0.00	6,751.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
6,900.0	0.00	0.00	6,851.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,000.0	0.00	0.00	6,951.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,100.0	0.00	0.00	7,051.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,200.0	0.00	0.00	7,151.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,300.0	0.00	0.00	7,251.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,400.0	0.00	0.00	7,351.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,500.0	0.00	0.00	7,451.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,600.0	0.00	0.00	7,551.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,700.0	0.00	0.00	7,651.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,800.0	0.00	0.00	7,751.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
7,900.0	0.00	0.00	7,851.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,000.0	0.00	0.00	7,951.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,100.0	0.00	0.00	8,051.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,200.0	0.00	0.00	8,151.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,300.0	0.00	0.00	8,251.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,400.0	0.00	0.00	8,351.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,500.0	0.00	0.00	8,451.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,600.0	0.00	0.00	8,551.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,700.0	0.00	0.00	8,651.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,800.0	0.00	0.00	8,751.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
8,900.0	0.00	0.00	8,851.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,000.0	0.00	0.00	8,951.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,100.0	0.00	0.00	9,051.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,200.0	0.00	0.00	9,151.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,300.0	0.00	0.00	9,251.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,400.0	0.00	0.00	9,351.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,500.0	0.00	0.00	9,451.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,600.0	0.00	0.00	9,551.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,700.0	0.00	0.00	9,651.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,800.0	0.00	0.00	9,751.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
9,900.0	0.00	0.00	9,851.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,000.0	0.00	0.00	9,951.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,100.0	0.00	0.00	10,051.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,200.0	0.00	0.00	10,151.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,300.0	0.00	0.00	10,251.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,400.0	0.00	0.00	10,351.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,500.0	0.00	0.00	10,451.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #78H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #78H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,600.0	0.00	0.00	10,551.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,700.0	0.00	0.00	10,651.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,800.0	0.00	0.00	10,751.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
10,900.0	0.00	0.00	10,851.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,000.0	0.00	0.00	10,951.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,100.0	0.00	0.00	11,051.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,200.0	0.00	0.00	11,151.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,300.0	0.00	0.00	11,251.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,400.0	0.00	0.00	11,351.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,500.0	0.00	0.00	11,451.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,600.0	0.00	0.00	11,551.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,700.0	0.00	0.00	11,651.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,800.0	0.00	0.00	11,751.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,900.0	0.00	0.00	11,851.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
11,964.5	0.00	0.00	11,915.5	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
12,000.0	0.00	0.00	11,951.0	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
12,014.5	0.00	0.00	11,965.5	300.0	610.0	388,040.49	754,015.26	32° 3' 53.796 N	103° 38' 48.381 W	
12,100.0	10.26	179.34	12,050.6	292.4	610.1	388,032.85	754,015.35	32° 3' 53.721 N	103° 38' 48.380 W	
12,200.0	22.26	179.34	12,146.4	264.4	610.4	388,004.90	754,015.67	32° 3' 53.444 N	103° 38' 48.379 W	
12,300.0	34.26	179.34	12,234.3	217.2	611.0	387,957.65	754,016.22	32° 3' 52.977 N	103° 38' 48.376 W	
12,400.0	46.26	179.34	12,310.5	152.7	611.7	387,893.14	754,016.96	32° 3' 52.338 N	103° 38' 48.372 W	
12,500.0	58.26	179.34	12,371.6	73.7	612.6	387,814.21	754,017.87	32° 3' 51.557 N	103° 38' 48.367 W	
12,600.0	70.26	179.34	12,414.9	-16.2	613.6	387,724.31	754,018.91	32° 3' 50.667 N	103° 38' 48.362 W	
12,700.0	82.26	179.34	12,438.7	-113.1	614.8	387,627.36	754,020.03	32° 3' 49.708 N	103° 38' 48.356 W	
12,764.5	90.00	179.34	12,443.0	-177.4	615.5	387,563.07	754,020.77	32° 3' 49.072 N	103° 38' 48.352 W	
12,800.0	90.00	179.34	12,443.0	-212.9	615.9	387,527.57	754,021.18	32° 3' 48.720 N	103° 38' 48.350 W	
12,900.0	90.00	179.34	12,443.0	-312.9	617.1	387,427.58	754,022.33	32° 3' 47.731 N	103° 38' 48.344 W	
13,000.0	90.00	179.34	12,443.0	-412.9	618.2	387,327.59	754,023.49	32° 3' 46.741 N	103° 38' 48.338 W	
13,100.0	90.00	179.34	12,443.0	-512.9	619.4	387,227.60	754,024.64	32° 3' 45.752 N	103° 38' 48.332 W	
13,200.0	90.00	179.34	12,443.0	-612.9	620.5	387,127.61	754,025.79	32° 3' 44.762 N	103° 38' 48.326 W	
13,300.0	90.00	179.34	12,443.0	-712.9	621.7	387,027.62	754,026.95	32° 3' 43.773 N	103° 38' 48.320 W	
13,400.0	90.00	179.34	12,443.0	-812.9	622.8	386,927.63	754,028.10	32° 3' 42.783 N	103° 38' 48.314 W	
13,500.0	90.00	179.34	12,443.0	-912.9	624.0	386,827.64	754,029.25	32° 3' 41.794 N	103° 38' 48.308 W	
13,600.0	90.00	179.34	12,443.0	-1,012.9	625.1	386,727.65	754,030.40	32° 3' 40.804 N	103° 38' 48.302 W	
13,700.0	90.00	179.34	12,443.0	-1,112.9	626.3	386,627.66	754,031.56	32° 3' 39.815 N	103° 38' 48.296 W	
13,800.0	90.00	179.34	12,443.0	-1,212.9	627.4	386,527.67	754,032.71	32° 3' 38.825 N	103° 38' 48.290 W	
13,900.0	90.00	179.34	12,443.0	-1,312.9	628.6	386,427.68	754,033.86	32° 3' 37.836 N	103° 38' 48.284 W	
14,000.0	90.00	179.34	12,443.0	-1,412.9	629.8	386,327.69	754,035.02	32° 3' 36.846 N	103° 38' 48.278 W	
14,100.0	90.00	179.34	12,443.0	-1,512.9	630.9	386,227.70	754,036.17	32° 3' 35.856 N	103° 38' 48.272 W	
14,200.0	90.00	179.34	12,443.0	-1,612.8	632.1	386,127.71	754,037.32	32° 3' 34.867 N	103° 38' 48.266 W	
14,300.0	90.00	179.34	12,443.0	-1,712.8	633.2	386,027.72	754,038.48	32° 3' 33.877 N	103° 38' 48.260 W	
14,400.0	90.00	179.34	12,443.0	-1,812.8	634.4	385,927.73	754,039.63	32° 3' 32.888 N	103° 38' 48.254 W	
14,500.0	90.00	179.34	12,443.0	-1,912.8	635.5	385,827.75	754,040.78	32° 3' 31.898 N	103° 38' 48.248 W	
14,600.0	90.00	179.34	12,443.0	-2,012.8	636.7	385,727.76	754,041.94	32° 3' 30.909 N	103° 38' 48.242 W	
14,700.0	90.00	179.34	12,443.0	-2,112.8	637.8	385,627.77	754,043.09	32° 3' 29.919 N	103° 38' 48.236 W	
14,800.0	90.00	179.34	12,443.0	-2,212.8	639.0	385,527.78	754,044.24	32° 3' 28.930 N	103° 38' 48.230 W	
14,900.0	90.00	179.34	12,443.0	-2,312.8	640.1	385,427.79	754,045.40	32° 3' 27.940 N	103° 38' 48.224 W	
15,000.0	90.00	179.34	12,443.0	-2,412.8	641.3	385,327.80	754,046.55	32° 3' 26.951 N	103° 38' 48.218 W	
15,100.0	90.00	179.34	12,443.0	-2,512.8	642.4	385,227.81	754,047.70	32° 3' 25.961 N	103° 38' 48.212 W	
15,200.0	90.00	179.34	12,443.0	-2,612.8	643.6	385,127.82	754,048.86	32° 3' 24.972 N	103° 38' 48.206 W	
15,300.0	90.00	179.34	12,443.0	-2,712.8	644.7	385,027.83	754,050.01	32° 3' 23.982 N	103° 38' 48.200 W	
15,400.0	90.00	179.34	12,443.0	-2,812.8	645.9	384,927.84	754,051.16	32° 3' 22.993 N	103° 38' 48.194 W	
15,500.0	90.00	179.34	12,443.0	-2,912.8	647.1	384,827.85	754,052.32	32° 3' 22.003 N	103° 38' 48.188 W	
15,600.0	90.00	179.34	12,443.0	-3,012.8	648.2	384,727.86	754,053.47	32° 3' 21.014 N	103° 38' 48.182 W	
15,700.0	90.00	179.34	12,443.0	-3,112.7	649.4	384,627.87	754,054.62	32° 3' 20.024 N	103° 38' 48.176 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #78H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #78H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
15,800.0	90.00	179.34	12,443.0	-3,212.7	650.5	384,527.88	754,055.78	32° 3' 19.034 N	103° 38' 48.170 W	
15,900.0	90.00	179.34	12,443.0	-3,312.7	651.7	384,427.89	754,056.93	32° 3' 18.045 N	103° 38' 48.164 W	
16,000.0	90.00	179.34	12,443.0	-3,412.7	652.8	384,327.90	754,058.08	32° 3' 17.055 N	103° 38' 48.158 W	
16,100.0	90.00	179.34	12,443.0	-3,512.7	654.0	384,227.91	754,059.24	32° 3' 16.066 N	103° 38' 48.152 W	
16,200.0	90.00	179.34	12,443.0	-3,612.7	655.1	384,127.93	754,060.39	32° 3' 15.076 N	103° 38' 48.146 W	
16,300.0	90.00	179.34	12,443.0	-3,712.7	656.3	384,027.94	754,061.54	32° 3' 14.087 N	103° 38' 48.140 W	
16,400.0	90.00	179.34	12,443.0	-3,812.7	657.4	383,927.95	754,062.70	32° 3' 13.097 N	103° 38' 48.134 W	
16,500.0	90.00	179.34	12,443.0	-3,912.7	658.6	383,827.96	754,063.85	32° 3' 12.108 N	103° 38' 48.128 W	
16,600.0	90.00	179.34	12,443.0	-4,012.7	659.7	383,727.97	754,065.00	32° 3' 11.118 N	103° 38' 48.122 W	
16,700.0	90.00	179.34	12,443.0	-4,112.7	660.9	383,627.98	754,066.16	32° 3' 10.129 N	103° 38' 48.116 W	
16,800.0	90.00	179.34	12,443.0	-4,212.7	662.0	383,527.99	754,067.31	32° 3' 9.139 N	103° 38' 48.110 W	
16,900.0	90.00	179.34	12,443.0	-4,312.7	663.2	383,428.00	754,068.46	32° 3' 8.150 N	103° 38' 48.104 W	
17,000.0	90.00	179.34	12,443.0	-4,412.7	664.4	383,328.01	754,069.62	32° 3' 7.160 N	103° 38' 48.098 W	
17,100.0	90.00	179.34	12,443.0	-4,512.7	665.5	383,228.02	754,070.77	32° 3' 6.171 N	103° 38' 48.092 W	
17,200.0	90.00	179.34	12,443.0	-4,612.6	666.7	383,128.03	754,071.92	32° 3' 5.181 N	103° 38' 48.086 W	
17,300.0	90.00	179.34	12,443.0	-4,712.6	667.8	383,028.04	754,073.08	32° 3' 4.192 N	103° 38' 48.080 W	
17,400.0	90.00	179.34	12,443.0	-4,812.6	669.0	382,928.05	754,074.23	32° 3' 3.202 N	103° 38' 48.074 W	
17,500.0	90.00	179.34	12,443.0	-4,912.6	670.1	382,828.06	754,075.38	32° 3' 2.212 N	103° 38' 48.068 W	
17,562.0	90.00	179.34	12,443.0	-4,974.6	670.8	382,766.08	754,076.10	32° 3' 1.599 N	103° 38' 48.064 W	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Mesa #78H BHL	0.00	0.00	12,443.0	-4,974.6	670.8	382,766.08	754,076.10	32° 3' 1.599 N	103° 38' 48.064 W	
- hit/miss target										
- Shape										
- Point										

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) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 91166

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 91166
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	PREVIOUS COA'S APPLY	5/2/2022