U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

06/09/2023

Well Name: MESA 8105 11 FEDERAL	**Well Location:** T26S / R32E / SEC 11 / NENW /	**County or Parish/State:**
Well Number: 65H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM014492	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3002548719	**Well Status:** Approved Application for Permit to Drill	**Operator:** BTA OIL PRODUCERS LLC

Notice of Intent

Sundry ID: 2733503

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/31/2023

Time Sundry Submitted: 08:42

Date proposed operation will begin: 05/31/2023

Procedure Description: BTA Oil Producers LLC respectfully requests the following footage, casing, and drill plan changes to the original APD as approved. Please see attachments documents for more details OLD FOOTAGES: SHL: 490' FNL & 1440' FWL (NO CHANGE) FTP: 100' FNL & 330' FWL LTP: 100' FSL & 330' FWL BHL: 50' FSL & 330' FWL NEW FOOTAGES FTP: 100' FNL & 350' FWL LTP: 100' FSL & 350' FWL BHL: 50' FSL & 350' FWL

NOI Attachments

Procedure Description

Mesa_65H_directional_plan_20230531083818.pdf

Mesa_65H_Wall_plot_20230531083809.pdf

Mesa_8105_11_FED__65H___Drill_plan_5_31_23_20230531083737.pdf

Signed_C102___Mesa_8105_11_FED__65H_5_31_23_20230531083510.pdf

Well Name: MESA 8105 11 FEDERAL	**Well Location:** T26S / R32E / SEC 11 / NENW /	**County or Parish/State:**
Well Number: 65H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM014492	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3002548719	**Well Status:** Approved Application for Permit to Drill	**Operator:** BTA OIL PRODUCERS LLC

Conditions of Approval

Specialist Review

MESA_8105_11_Federal_65H_Drilling_Sundry_ID_2733503_COA_OTA_20230608090053.pdf

Operator

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

Operator Electronic Signature: SAMMY HAJAR

Signed on: MAY 31, 2023 08:12 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 Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: AJIBOLA OLABODE

BLM POC Title: Engineer

BLM POC Phone: 5752342231

BLM POC Email Address: OAJIBOLAEIT@BLM.GOV

Disposition: Approved

Disposition Date: 06/08/2023

Signature: Olabode Thomas Ajibola

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**BTA Oil Producers LLC**
LEASE NO.:	**NMNM014492**
WELL NAME & NO.:	MESA 8105 11 Federal 65H
SURFACE HOLE FOOTAGE:	490'/N & 1440'/W
BOTTOM HOLE FOOTAGE	50'/S & 350'/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 **750 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 **11,649** 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 -44%, 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 -6%, 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 tlead 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.

OTA06082023

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-48719	98158	WC-025 ; Wolfcamp

4 Property Code	5 Property Name	6 Well Number
328173	MESA 8105 11 FED	65H

7 OGRID No.	8 Operator Name	9 Elevation
206297	BTA OIL PRODUCERS, LLC	3241'

10 Surface Location

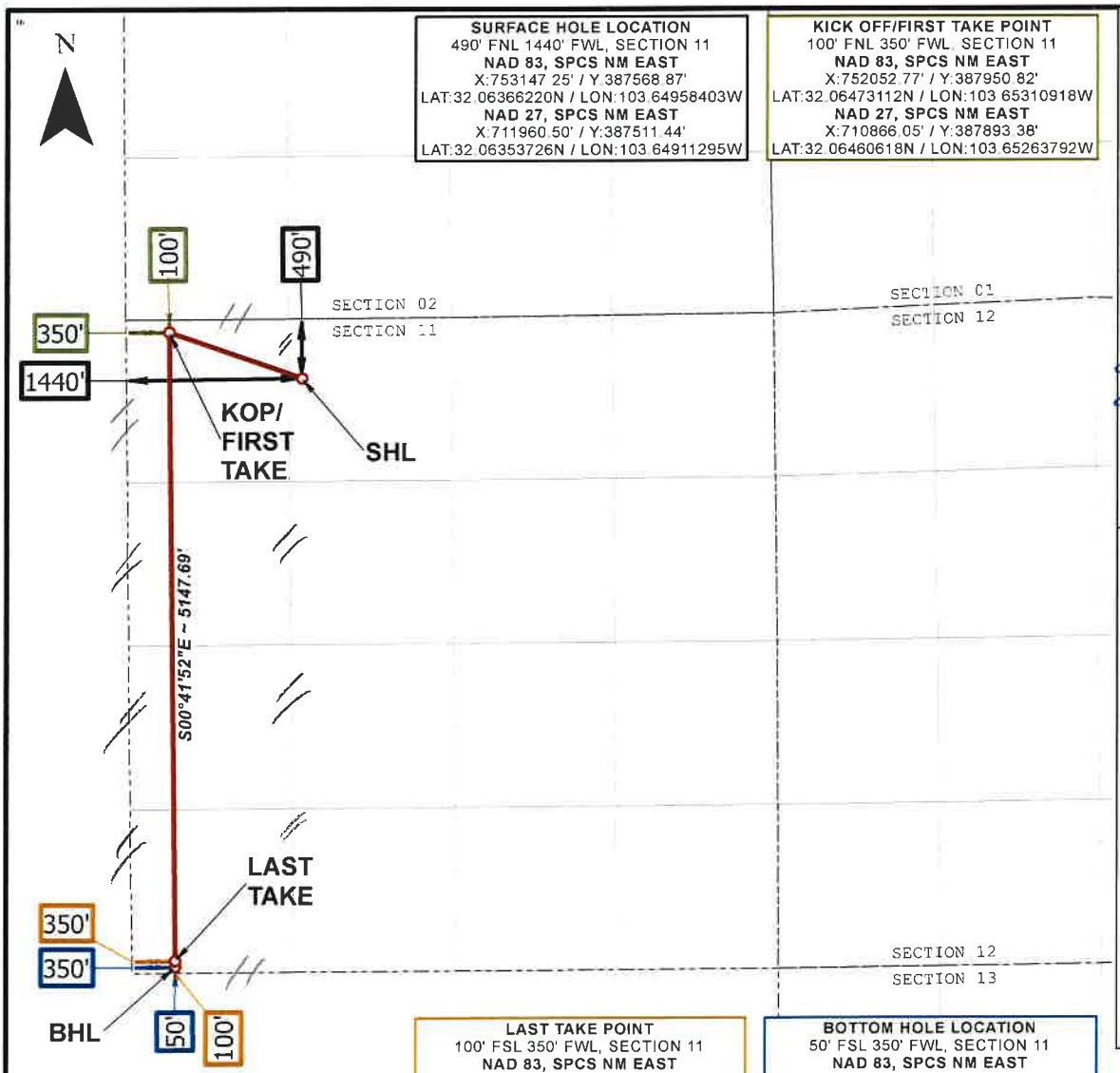
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	11	26S	32E		490	North	1440	West	LEA

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
M	11	26S	32E		50	South	350	West	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
160			

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 — Date: 5/31/2021

Sammy Hajar
Printed Name

SHAJAR@BTAOIL.COM
E-mail Address

18 SURVEYOR CERTIFICATION

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

Date of Survey: MAY 17, 2023
Signature and Seal of Professional Surveyor

LLOYD P. SHORT
NEW MEXICO
21653
PROFESSIONAL SURVEYOR

SHEET 1 OF 1
JOB No. R4168_008
REV 4 TCS 5/4/2023

Released to Imaging: 7/12/2023 3:01:27 PM

Scale Factor: 0.99981493 Convergence Angle: 00|23|48.779988°

BTA Oil Producers, LLC

Lea County, NM (NAD 83)
Mesa Sec 11, T26S, R32E
Mesa #65H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

30 May, 2023

Microsoft

Planning Report - Geographic

Database:	EDM16	**Local Co-ordinate Reference:**	Well Mesa #65H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3241.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3241.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #65H	**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	**Latitude:**	32° 3' 50.761 N
From:	Map	**Easting:**	752,135.43 usft	**Longitude:**	103° 39' 10.249 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Mesa #65H

Well Position	**+N/-S**	0.0 usft	**Northing:**	387,511.44 usft	**Latitude:**	32° 3' 48.616 N
	+E/-W	0.0 usft	**Easting:**	753,147.25 usft	**Longitude:**	103° 38' 58.507 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,241.0 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	48,689.21251403

Design Design #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	192.46

Plan Survey Tool Program **Date** 5/30/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,199.9	Design #1 (Wellbore #1)		

Microsoft

Planning Report - Geographic

Database:	EDM16	**Local Co-ordinate Reference:**	Well Mesa #65H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3241.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3241.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #65H	**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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,450.0	9.00	293.33	1,448.2	14.0	-32.4	2.00	2.00	0.00	293.33	
8,587.0	9.00	293.33	8,497.3	456.0	-1,057.6	0.00	0.00	0.00	0.00	
9,037.0	0.00	0.00	8,945.4	470.0	-1,090.0	2.00	-2.00	0.00	180.00	
11,649.1	0.00	0.00	11,557.5	470.0	-1,090.0	0.00	0.00	0.00	0.00	
11,699.1	0.00	0.00	11,607.5	470.0	-1,090.0	0.00	0.00	0.00	0.00	
12,449.1	90.00	179.57	12,085.0	-7.5	-1,086.5	12.00	12.00	0.00	179.57	
17,199.9	90.00	179.57	12,085.0	-4,758.1	-1,051.2	0.00	0.00	0.00	0.00	Mesa #65H BHL

Microsoft

Planning Report - Geographic

Database:	EDM16	**Local Co-ordinate Reference:**	Well Mesa #65H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3241.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3241.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #65H	**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	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
100.0	0.00	0.00	100.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
200.0	0.00	0.00	200.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
300.0	0.00	0.00	300.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
400.0	0.00	0.00	400.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
500.0	0.00	0.00	500.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
600.0	0.00	0.00	600.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
700.0	0.00	0.00	700.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
800.0	0.00	0.00	800.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
900.0	0.00	0.00	900.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	387,511.44	753,147.25	32° 3' 48.616 N	103° 38' 58.507 W
1,100.0	2.00	293.33	1,100.0	0.7	-1.6	387,512.13	753,145.64	32° 3' 48.623 N	103° 38' 58.525 W
1,200.0	4.00	293.33	1,199.8	2.8	-6.4	387,514.20	753,140.84	32° 3' 48.643 N	103° 38' 58.581 W
1,300.0	6.00	293.33	1,299.5	6.2	-14.4	387,517.65	753,132.84	32° 3' 48.678 N	103° 38' 58.674 W
1,400.0	8.00	293.33	1,398.7	11.0	-25.6	387,522.48	753,121.65	32° 3' 48.727 N	103° 38' 58.803 W
1,450.0	9.00	293.33	1,448.2	14.0	-32.4	387,525.40	753,114.86	32° 3' 48.756 N	103° 38' 58.882 W
1,500.0	9.00	293.33	1,497.5	17.1	-39.6	387,528.50	753,107.68	32° 3' 48.787 N	103° 38' 58.965 W
1,600.0	9.00	293.33	1,596.3	23.3	-53.9	387,534.69	753,093.31	32° 3' 48.849 N	103° 38' 59.132 W
1,700.0	9.00	293.33	1,695.1	29.5	-68.3	387,540.89	753,078.95	32° 3' 48.911 N	103° 38' 59.298 W
1,800.0	9.00	293.33	1,793.8	35.6	-82.7	387,547.08	753,064.59	32° 3' 48.974 N	103° 38' 59.465 W
1,900.0	9.00	293.33	1,892.6	41.8	-97.0	387,553.28	753,050.22	32° 3' 49.036 N	103° 38' 59.631 W
2,000.0	9.00	293.33	1,991.4	48.0	-111.4	387,559.47	753,035.86	32° 3' 49.098 N	103° 38' 59.798 W
2,100.0	9.00	293.33	2,090.1	54.2	-125.8	387,565.66	753,021.49	32° 3' 49.160 N	103° 38' 59.964 W
2,200.0	9.00	293.33	2,188.9	60.4	-140.1	387,571.86	753,007.13	32° 3' 49.222 N	103° 39' 0.131 W
2,300.0	9.00	293.33	2,287.7	66.6	-154.5	387,578.05	752,992.76	32° 3' 49.285 N	103° 39' 0.297 W
2,400.0	9.00	293.33	2,386.5	72.8	-168.9	387,584.24	752,978.40	32° 3' 49.347 N	103° 39' 0.464 W
2,500.0	9.00	293.33	2,485.2	79.0	-183.2	387,590.44	752,964.03	32° 3' 49.409 N	103° 39' 0.630 W
2,600.0	9.00	293.33	2,584.0	85.2	-197.6	387,596.63	752,949.67	32° 3' 49.471 N	103° 39' 0.796 W
2,700.0	9.00	293.33	2,682.8	91.4	-211.9	387,602.83	752,935.31	32° 3' 49.533 N	103° 39' 0.963 W
2,800.0	9.00	293.33	2,781.5	97.6	-226.3	387,609.02	752,920.94	32° 3' 49.595 N	103° 39' 1.129 W
2,900.0	9.00	293.33	2,880.3	103.8	-240.7	387,615.21	752,906.58	32° 3' 49.658 N	103° 39' 1.296 W
3,000.0	9.00	293.33	2,979.1	110.0	-255.0	387,621.41	752,892.21	32° 3' 49.720 N	103° 39' 1.462 W
3,100.0	9.00	293.33	3,077.8	116.2	-269.4	387,627.60	752,877.85	32° 3' 49.782 N	103° 39' 1.629 W
3,200.0	9.00	293.33	3,176.6	122.4	-283.8	387,633.80	752,863.48	32° 3' 49.844 N	103° 39' 1.795 W
3,300.0	9.00	293.33	3,275.4	128.6	-298.1	387,639.99	752,849.12	32° 3' 49.906 N	103° 39' 1.962 W
3,400.0	9.00	293.33	3,374.1	134.7	-312.5	387,646.18	752,834.76	32° 3' 49.969 N	103° 39' 2.128 W
3,500.0	9.00	293.33	3,472.9	140.9	-326.9	387,652.38	752,820.39	32° 3' 50.031 N	103° 39' 2.295 W
3,600.0	9.00	293.33	3,571.7	147.1	-341.2	387,658.57	752,806.03	32° 3' 50.093 N	103° 39' 2.461 W
3,700.0	9.00	293.33	3,670.5	153.3	-355.6	387,664.76	752,791.66	32° 3' 50.155 N	103° 39' 2.628 W
3,800.0	9.00	293.33	3,769.2	159.5	-370.0	387,670.96	752,777.30	32° 3' 50.217 N	103° 39' 2.794 W
3,900.0	9.00	293.33	3,868.0	165.7	-384.3	387,677.15	752,762.93	32° 3' 50.280 N	103° 39' 2.961 W
4,000.0	9.00	293.33	3,966.8	171.9	-398.7	387,683.35	752,748.57	32° 3' 50.342 N	103° 39' 3.127 W
4,100.0	9.00	293.33	4,065.5	178.1	-413.1	387,689.54	752,734.20	32° 3' 50.404 N	103° 39' 3.293 W
4,200.0	9.00	293.33	4,164.3	184.3	-427.4	387,695.73	752,719.84	32° 3' 50.466 N	103° 39' 3.460 W
4,300.0	9.00	293.33	4,263.1	190.5	-441.8	387,701.93	752,705.48	32° 3' 50.528 N	103° 39' 3.626 W
4,400.0	9.00	293.33	4,361.8	196.7	-456.2	387,708.12	752,691.11	32° 3' 50.591 N	103° 39' 3.793 W
4,500.0	9.00	293.33	4,460.6	202.9	-470.5	387,714.31	752,676.75	32° 3' 50.653 N	103° 39' 3.959 W
4,600.0	9.00	293.33	4,559.4	209.1	-484.9	387,720.51	752,662.38	32° 3' 50.715 N	103° 39' 4.126 W
4,700.0	9.00	293.33	4,658.1	215.3	-499.2	387,726.70	752,648.02	32° 3' 50.777 N	103° 39' 4.292 W
4,800.0	9.00	293.33	4,756.9	221.5	-513.6	387,732.90	752,633.65	32° 3' 50.839 N	103° 39' 4.459 W
4,900.0	9.00	293.33	4,855.7	227.7	-528.0	387,739.09	752,619.29	32° 3' 50.901 N	103° 39' 4.625 W
5,000.0	9.00	293.33	4,954.4	233.9	-542.3	387,745.28	752,604.93	32° 3' 50.964 N	103° 39' 4.792 W
5,100.0	9.00	293.33	5,053.2	240.0	-556.7	387,751.48	752,590.56	32° 3' 51.026 N	103° 39' 4.958 W
5,200.0	9.00	293.33	5,152.0	246.2	-571.1	387,757.67	752,576.20	32° 3' 51.088 N	103° 39' 5.125 W
5,300.0	9.00	293.33	5,250.8	252.4	-585.4	387,763.87	752,561.83	32° 3' 51.150 N	103° 39' 5.291 W

Microsoft

Planning Report - Geographic

Database:	EDM16	**Local Co-ordinate Reference:**	Well Mesa #65H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3241.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3241.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #65H	**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
5,400.0	9.00	293.33	5,349.5	258.6	-599.8	387,770.06	752,547.47	32° 3' 51.212 N	103° 39' 5.458 W
5,500.0	9.00	293.33	5,448.3	264.8	-614.2	387,776.25	752,533.10	32° 3' 51.275 N	103° 39' 5.624 W
5,600.0	9.00	293.33	5,547.1	271.0	-628.5	387,782.45	752,518.74	32° 3' 51.337 N	103° 39' 5.790 W
5,700.0	9.00	293.33	5,645.8	277.2	-642.9	387,788.64	752,504.38	32° 3' 51.399 N	103° 39' 5.957 W
5,800.0	9.00	293.33	5,744.6	283.4	-657.3	387,794.83	752,490.01	32° 3' 51.461 N	103° 39' 6.123 W
5,900.0	9.00	293.33	5,843.4	289.6	-671.6	387,801.03	752,475.65	32° 3' 51.523 N	103° 39' 6.290 W
6,000.0	9.00	293.33	5,942.1	295.8	-686.0	387,807.22	752,461.28	32° 3' 51.586 N	103° 39' 6.456 W
6,100.0	9.00	293.33	6,040.9	302.0	-700.4	387,813.42	752,446.92	32° 3' 51.648 N	103° 39' 6.623 W
6,200.0	9.00	293.33	6,139.7	308.2	-714.7	387,819.61	752,432.55	32° 3' 51.710 N	103° 39' 6.789 W
6,300.0	9.00	293.33	6,238.4	314.4	-729.1	387,825.80	752,418.19	32° 3' 51.772 N	103° 39' 6.956 W
6,400.0	9.00	293.33	6,337.2	320.6	-743.5	387,832.00	752,403.82	32° 3' 51.834 N	103° 39' 7.122 W
6,500.0	9.00	293.33	6,436.0	326.8	-757.8	387,838.19	752,389.46	32° 3' 51.897 N	103° 39' 7.289 W
6,600.0	9.00	293.33	6,534.7	333.0	-772.2	387,844.38	752,375.10	32° 3' 51.959 N	103° 39' 7.455 W
6,700.0	9.00	293.33	6,633.5	339.2	-786.5	387,850.58	752,360.73	32° 3' 52.021 N	103° 39' 7.622 W
6,800.0	9.00	293.33	6,732.3	345.3	-800.9	387,856.77	752,346.37	32° 3' 52.083 N	103° 39' 7.788 W
6,900.0	9.00	293.33	6,831.1	351.5	-815.3	387,862.97	752,332.00	32° 3' 52.145 N	103° 39' 7.955 W
7,000.0	9.00	293.33	6,929.8	357.7	-829.6	387,869.16	752,317.64	32° 3' 52.207 N	103° 39' 8.121 W
7,100.0	9.00	293.33	7,028.6	363.9	-844.0	387,875.35	752,303.27	32° 3' 52.270 N	103° 39' 8.288 W
7,200.0	9.00	293.33	7,127.4	370.1	-858.4	387,881.55	752,288.91	32° 3' 52.332 N	103° 39' 8.454 W
7,300.0	9.00	293.33	7,226.1	376.3	-872.7	387,887.74	752,274.55	32° 3' 52.394 N	103° 39' 8.620 W
7,400.0	9.00	293.33	7,324.9	382.5	-887.1	387,893.93	752,260.18	32° 3' 52.456 N	103° 39' 8.787 W
7,500.0	9.00	293.33	7,423.7	388.7	-901.5	387,900.13	752,245.82	32° 3' 52.518 N	103° 39' 8.953 W
7,600.0	9.00	293.33	7,522.4	394.9	-915.8	387,906.32	752,231.45	32° 3' 52.581 N	103° 39' 9.120 W
7,700.0	9.00	293.33	7,621.2	401.1	-930.2	387,912.52	752,217.09	32° 3' 52.643 N	103° 39' 9.286 W
7,800.0	9.00	293.33	7,720.0	407.3	-944.6	387,918.71	752,202.72	32° 3' 52.705 N	103° 39' 9.453 W
7,900.0	9.00	293.33	7,818.7	413.5	-958.9	387,924.90	752,188.36	32° 3' 52.767 N	103° 39' 9.619 W
8,000.0	9.00	293.33	7,917.5	419.7	-973.3	387,931.10	752,173.99	32° 3' 52.829 N	103° 39' 9.786 W
8,100.0	9.00	293.33	8,016.3	425.9	-987.7	387,937.29	752,159.63	32° 3' 52.892 N	103° 39' 9.952 W
8,200.0	9.00	293.33	8,115.0	432.1	-1,002.0	387,943.49	752,145.27	32° 3' 52.954 N	103° 39' 10.119 W
8,300.0	9.00	293.33	8,213.8	438.3	-1,016.4	387,949.68	752,130.90	32° 3' 53.016 N	103° 39' 10.285 W
8,400.0	9.00	293.33	8,312.6	444.5	-1,030.8	387,955.87	752,116.54	32° 3' 53.078 N	103° 39' 10.452 W
8,500.0	9.00	293.33	8,411.4	450.6	-1,045.1	387,962.07	752,102.17	32° 3' 53.140 N	103° 39' 10.618 W
8,587.0	9.00	293.33	8,497.3	456.0	-1,057.6	387,967.46	752,089.68	32° 3' 53.194 N	103° 39' 10.763 W
8,600.0	8.74	293.33	8,510.1	456.8	-1,059.5	387,968.25	752,087.84	32° 3' 53.202 N	103° 39' 10.784 W
8,700.0	6.74	293.33	8,609.2	462.2	-1,071.8	387,973.58	752,075.47	32° 3' 53.256 N	103° 39' 10.928 W
8,800.0	4.74	293.33	8,708.7	466.1	-1,081.0	387,977.54	752,066.29	32° 3' 53.296 N	103° 39' 11.034 W
8,900.0	2.74	293.33	8,808.5	468.7	-1,087.0	387,980.12	752,060.30	32° 3' 53.322 N	103° 39' 11.103 W
9,000.0	0.74	293.33	8,908.4	469.9	-1,089.8	387,981.33	752,057.51	32° 3' 53.334 N	103° 39' 11.136 W
9,037.0	0.00	0.00	8,945.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,100.0	0.00	0.00	9,008.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,200.0	0.00	0.00	9,108.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,300.0	0.00	0.00	9,208.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,400.0	0.00	0.00	9,308.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,500.0	0.00	0.00	9,408.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,600.0	0.00	0.00	9,508.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,700.0	0.00	0.00	9,608.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,800.0	0.00	0.00	9,708.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
9,900.0	0.00	0.00	9,808.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,000.0	0.00	0.00	9,908.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,100.0	0.00	0.00	10,008.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,200.0	0.00	0.00	10,108.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,300.0	0.00	0.00	10,208.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,400.0	0.00	0.00	10,308.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,500.0	0.00	0.00	10,408.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,600.0	0.00	0.00	10,508.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W

Microsoft

Planning Report - Geographic

Database:	EDM16	**Local Co-ordinate Reference:**	Well Mesa #65H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3241.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3241.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #65H	**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
10,700.0	0.00	0.00	10,608.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,800.0	0.00	0.00	10,708.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
10,900.0	0.00	0.00	10,808.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,000.0	0.00	0.00	10,908.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,100.0	0.00	0.00	11,008.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,200.0	0.00	0.00	11,108.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,300.0	0.00	0.00	11,208.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,400.0	0.00	0.00	11,308.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,500.0	0.00	0.00	11,408.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,600.0	0.00	0.00	11,508.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,649.1	0.00	0.00	11,557.5	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,699.1	0.00	0.00	11,607.5	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,700.0	0.11	179.57	11,608.4	470.0	-1,090.0	387,981.42	752,057.29	32° 3' 53.335 N	103° 39' 11.138 W
11,800.0	12.11	179.57	11,707.7	459.4	-1,089.9	387,970.80	752,057.37	32° 3' 53.229 N	103° 39' 11.138 W
11,900.0	24.11	179.57	11,802.6	428.4	-1,089.7	387,939.78	752,057.60	32° 3' 52.922 N	103° 39' 11.138 W
12,000.0	36.11	179.57	11,888.9	378.3	-1,089.3	387,889.71	752,057.97	32° 3' 52.427 N	103° 39' 11.137 W
12,100.0	48.11	179.57	11,963.0	311.4	-1,088.8	387,822.78	752,058.47	32° 3' 51.765 N	103° 39' 11.136 W
12,200.0	60.11	179.57	12,021.5	230.5	-1,088.2	387,741.92	752,059.07	32° 3' 50.965 N	103° 39' 11.135 W
12,300.0	72.11	179.57	12,061.9	139.2	-1,087.5	387,650.67	752,059.75	32° 3' 50.061 N	103° 39' 11.134 W
12,400.0	84.11	179.57	12,082.5	41.6	-1,086.8	387,553.00	752,060.47	32° 3' 49.095 N	103° 39' 11.133 W
12,449.1	90.00	179.57	12,085.0	-7.5	-1,086.5	387,503.99	752,060.83	32° 3' 48.610 N	103° 39' 11.132 W
12,500.0	90.00	179.57	12,085.0	-58.4	-1,086.1	387,453.09	752,061.21	32° 3' 48.106 N	103° 39' 11.131 W
12,600.0	90.00	179.57	12,085.0	-158.3	-1,085.3	387,353.10	752,061.95	32° 3' 47.117 N	103° 39' 11.130 W
12,700.0	90.00	179.57	12,085.0	-258.3	-1,084.6	387,253.10	752,062.70	32° 3' 46.127 N	103° 39' 11.129 W
12,800.0	90.00	179.57	12,085.0	-358.3	-1,083.9	387,153.11	752,063.44	32° 3' 45.138 N	103° 39' 11.127 W
12,900.0	90.00	179.57	12,085.0	-458.3	-1,083.1	387,053.12	752,064.18	32° 3' 44.148 N	103° 39' 11.126 W
13,000.0	90.00	179.57	12,085.0	-558.3	-1,082.4	386,953.12	752,064.92	32° 3' 43.158 N	103° 39' 11.125 W
13,100.0	90.00	179.57	12,085.0	-658.3	-1,081.6	386,853.13	752,065.67	32° 3' 42.169 N	103° 39' 11.124 W
13,200.0	90.00	179.57	12,085.0	-758.3	-1,080.9	386,753.14	752,066.41	32° 3' 41.179 N	103° 39' 11.122 W
13,300.0	90.00	179.57	12,085.0	-858.3	-1,080.1	386,653.14	752,067.15	32° 3' 40.190 N	103° 39' 11.121 W
13,400.0	90.00	179.57	12,085.0	-958.3	-1,079.4	386,553.15	752,067.89	32° 3' 39.200 N	103° 39' 11.120 W
13,500.0	90.00	179.57	12,085.0	-1,058.3	-1,078.7	386,453.16	752,068.63	32° 3' 38.211 N	103° 39' 11.118 W
13,600.0	90.00	179.57	12,085.0	-1,158.3	-1,077.9	386,353.16	752,069.38	32° 3' 37.221 N	103° 39' 11.117 W
13,700.0	90.00	179.57	12,085.0	-1,258.3	-1,077.2	386,253.17	752,070.12	32° 3' 36.232 N	103° 39' 11.116 W
13,800.0	90.00	179.57	12,085.0	-1,358.3	-1,076.4	386,153.18	752,070.86	32° 3' 35.242 N	103° 39' 11.114 W
13,900.0	90.00	179.57	12,085.0	-1,458.3	-1,075.7	386,053.18	752,071.60	32° 3' 34.253 N	103° 39' 11.113 W
14,000.0	90.00	179.57	12,085.0	-1,558.3	-1,074.9	385,953.19	752,072.35	32° 3' 33.263 N	103° 39' 11.112 W
14,100.0	90.00	179.57	12,085.0	-1,658.3	-1,074.2	385,853.20	752,073.09	32° 3' 32.274 N	103° 39' 11.111 W
14,200.0	90.00	179.57	12,085.0	-1,758.3	-1,073.5	385,753.20	752,073.83	32° 3' 31.284 N	103° 39' 11.109 W
14,300.0	90.00	179.57	12,085.0	-1,858.3	-1,072.7	385,653.21	752,074.57	32° 3' 30.294 N	103° 39' 11.108 W
14,400.0	90.00	179.57	12,085.0	-1,958.3	-1,072.0	385,553.22	752,075.31	32° 3' 29.305 N	103° 39' 11.107 W
14,500.0	90.00	179.57	12,085.0	-2,058.3	-1,071.2	385,453.22	752,076.06	32° 3' 28.315 N	103° 39' 11.105 W
14,600.0	90.00	179.57	12,085.0	-2,158.3	-1,070.5	385,353.23	752,076.80	32° 3' 27.326 N	103° 39' 11.104 W
14,700.0	90.00	179.57	12,085.0	-2,258.3	-1,069.7	385,253.24	752,077.54	32° 3' 26.336 N	103° 39' 11.103 W
14,800.0	90.00	179.57	12,085.0	-2,358.3	-1,069.0	385,153.24	752,078.28	32° 3' 25.347 N	103° 39' 11.101 W
14,900.0	90.00	179.57	12,085.0	-2,458.3	-1,068.3	385,053.25	752,079.03	32° 3' 24.357 N	103° 39' 11.100 W
15,000.0	90.00	179.57	12,085.0	-2,558.3	-1,067.5	384,953.26	752,079.77	32° 3' 23.368 N	103° 39' 11.099 W
15,100.0	90.00	179.57	12,085.0	-2,658.3	-1,066.8	384,853.27	752,080.51	32° 3' 22.378 N	103° 39' 11.098 W
15,200.0	90.00	179.57	12,085.0	-2,758.3	-1,066.0	384,753.27	752,081.25	32° 3' 21.389 N	103° 39' 11.096 W
15,300.0	90.00	179.57	12,085.0	-2,858.3	-1,065.3	384,653.28	752,081.99	32° 3' 20.399 N	103° 39' 11.095 W
15,400.0	90.00	179.57	12,085.0	-2,958.3	-1,064.6	384,553.29	752,082.74	32° 3' 19.409 N	103° 39' 11.094 W
15,500.0	90.00	179.57	12,085.0	-3,058.3	-1,063.8	384,453.29	752,083.48	32° 3' 18.420 N	103° 39' 11.092 W
15,600.0	90.00	179.57	12,085.0	-3,158.3	-1,063.1	384,353.30	752,084.22	32° 3' 17.430 N	103° 39' 11.091 W
15,700.0	90.00	179.57	12,085.0	-3,258.3	-1,062.3	384,253.31	752,084.96	32° 3' 16.441 N	103° 39' 11.090 W
15,800.0	90.00	179.57	12,085.0	-3,358.3	-1,061.6	384,153.31	752,085.71	32° 3' 15.451 N	103° 39' 11.088 W

Microsoft

Planning Report - Geographic

Database:	EDM16	**Local Co-ordinate Reference:**	Well Mesa #65H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3241.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3241.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #65H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

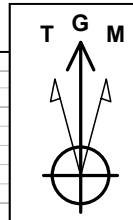
Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,900.0	90.00	179.57	12,085.0	-3,458.3	-1,060.8	384,053.32	752,086.45	32° 3' 14.462 N	103° 39' 11.087 W
16,000.0	90.00	179.57	12,085.0	-3,558.3	-1,060.1	383,953.33	752,087.19	32° 3' 13.472 N	103° 39' 11.086 W
16,100.0	90.00	179.57	12,085.0	-3,658.3	-1,059.4	383,853.33	752,087.93	32° 3' 12.483 N	103° 39' 11.084 W
16,200.0	90.00	179.57	12,085.0	-3,758.2	-1,058.6	383,753.34	752,088.68	32° 3' 11.493 N	103° 39' 11.083 W
16,300.0	90.00	179.57	12,085.0	-3,858.2	-1,057.9	383,653.35	752,089.42	32° 3' 10.504 N	103° 39' 11.082 W
16,400.0	90.00	179.57	12,085.0	-3,958.2	-1,057.1	383,553.35	752,090.16	32° 3' 9.514 N	103° 39' 11.081 W
16,500.0	90.00	179.57	12,085.0	-4,058.2	-1,056.4	383,453.36	752,090.90	32° 3' 8.525 N	103° 39' 11.079 W
16,600.0	90.00	179.57	12,085.0	-4,158.2	-1,055.6	383,353.37	752,091.64	32° 3' 7.535 N	103° 39' 11.078 W
16,700.0	90.00	179.57	12,085.0	-4,258.2	-1,054.9	383,253.37	752,092.39	32° 3' 6.545 N	103° 39' 11.077 W
16,800.0	90.00	179.57	12,085.0	-4,358.2	-1,054.2	383,153.38	752,093.13	32° 3' 5.556 N	103° 39' 11.075 W
16,900.0	90.00	179.57	12,085.0	-4,458.2	-1,053.4	383,053.39	752,093.87	32° 3' 4.566 N	103° 39' 11.074 W
17,000.0	90.00	179.57	12,085.0	-4,558.2	-1,052.7	382,953.39	752,094.61	32° 3' 3.577 N	103° 39' 11.073 W
17,100.0	90.00	179.57	12,085.0	-4,658.2	-1,051.9	382,853.40	752,095.36	32° 3' 2.587 N	103° 39' 11.071 W
17,199.9	90.00	179.57	12,085.0	-4,758.1	-1,051.2	382,753.51	752,096.10	32° 3' 1.599 N	103° 39' 11.070 W

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
Mesa #65H BHL - plan hits target center - Point	0.00	0.00	12,085.0	-4,758.1	-1,051.2	382,753.51	752,096.10	32° 3' 1.599 N	103° 39' 11.070 W

BTA Oil Producers, LLC



Azimuths to Grid N
True North: -0
Magnetic North: 7

Magnetic Field
Strength: 48689.2nT
Dip Angle: 60.08°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: Mesa #65H

+N/-S	+E/-W	Northing	Easting	Ground Level	Latittude	Longitude
0.0	0.0	387511.44	753147.25	3241.0	32° 3' 48.616 N	103° 38' 58.507 W

SITE DETAILS: Mesa Sec 11, T26S, R32E

Site Centre Northing: 387721.83
Easting: 752135.43

Positional Uncertainity: 0.0
Convergence: 0.36
Local North: Grid

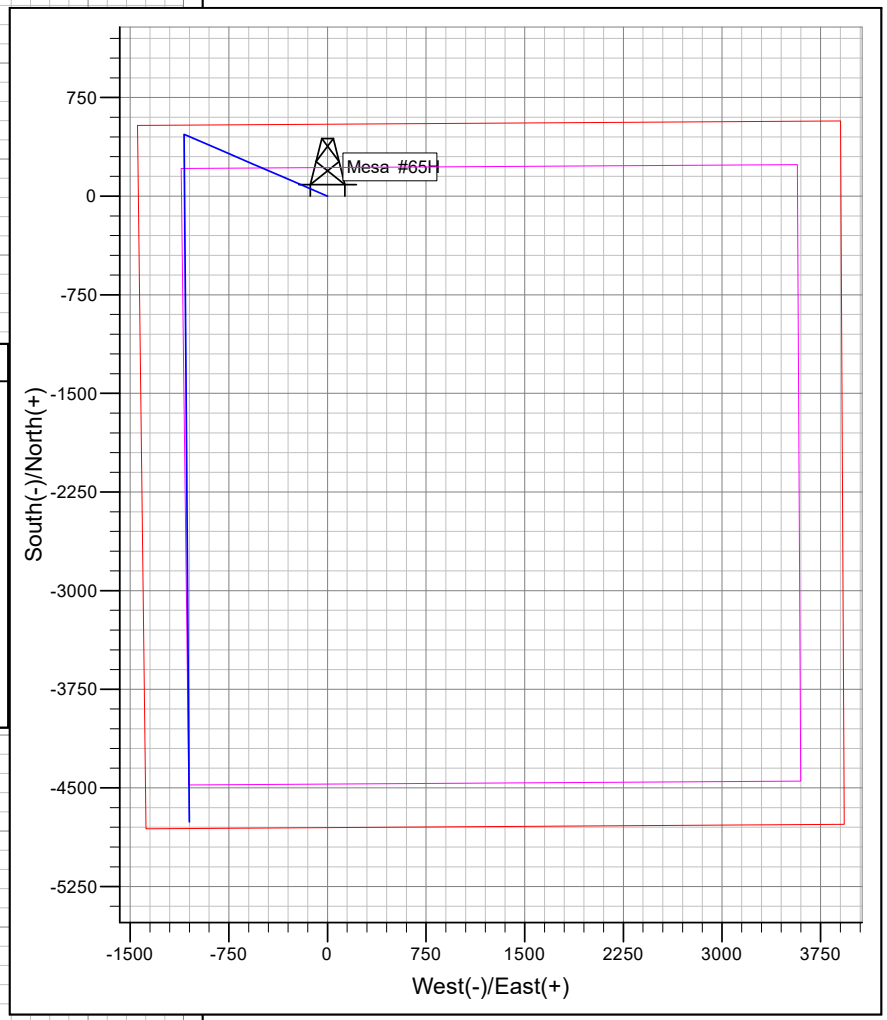
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DlegAnnotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00
3	1450.0	9.00	293.33	1448.2	14.0	-32.4	2.00
4	8587.0	9.00	293.33	8497.3	456.0	-1057.6	0.00
5	9037.0	0.00	0.00	8945.4	470.0	-1090.0	2.00
6	11649.1	0.00	0.00	11557.5	470.0	-1090.0	0.00
7	11699.1	0.00	0.00	11607.5	470.0	-1090.0	0.00
8	12449.1	90.00	179.57	12085.0	-7.5	-1086.5	12.00
9	17199.9	90.00	179.57	12085.0	-4758.1	-1051.2	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



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

WELL: Mesa 8105 11 Fed #65H
TVD: 12071
MD: 17186

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	8084	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8084	11649	8000	11558	yes	29.7	P110	FJ	1.7	1.7	2.7	2.8	Dry	9.4
6 3/4	5 1/2	0	11449	0	11358	Yes	20	P110	Buttress	1.3	1.5	2.8	2.9	Dry	14
6 3/4	5	11449	17186	11358	12071	Yes	18	P110	Buttress	1.3	1.4	1.9	2.0	Dry	14

*7 5/8" has DV Tool @ 4617'

Dv Tool Depth 4617

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	4195	Class C	675	2.19	12.7	1478.25	50%	0.5% CaCl2
	Stg 2 Tail		4195	4617	Class C	150	1.33	14.8	199.5	50%	1% CaCl2
	Stg 1 Lead		4617	8100	Class H	355	2.64	10.5	937.2	25%	0.5% CaCl2
	Stg 1 Tail		8100	11649	Class H	400	1.19	15.6	476	25%	1% CaCl2
5 1/2	Lead										
	Tail		10650	11449							
5	Lead										
	Tail		11449	17186	Class H	635	1.27	14.8	806.45	10%	0.1% Fluid Loss

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 225781

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 225781
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	7/12/2023