

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

Well Name: MESA 8105 1-12
FEDERAL

Well Location: T26S / R32E / SEC 1 /
NENE /

County or Parish/State:

Well Number: 51H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM014492

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002548710

Well Status: Approved Application for
Permit to Drill

Operator: BTA OIL
PRODUCERS LLC

Notice of Intent

Sundry ID: 2642053

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 10/28/2021

Time Sundry Submitted: 02:07

Date proposed operation will begin: 10/28/2021

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 530 FNL ; 730 FEL ; LAT 32.078347 ; LONG -103.622246 New SHL Location 730 FNL ; 760 FEL ; LAT 32.077785 ; LONG - 103.622337

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Mesa_8105_1_12_FED_51H_Drill_Plans_20211028140646.pdf

Mesa_51H_Wall_plot_20211028140638.pdf

Mesa_51H_directional_plan_20211028140638.pdf

Mesa_50H__51H__66H__67H__Well_Pad_Plat_20211028140629.pdf

Mesa_51H_c102___signed_20211028140623.pdf

Well Name: MESA 8105 1-12 FEDERAL	Well Location: T26S / R32E / SEC 1 / NENE /	County or Parish/State:
Well Number: 51H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM014492	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548710	Well Status: Approved Application for Permit to Drill	Operator: BTA OIL PRODUCERS 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: SAMMY HAJAR	Signed on: OCT 28, 2021 02:07 PM
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: Cody Layton	BLM POC Title: Assistant Field Manager Lands & Minerals
BLM POC Phone: 5752345959	BLM POC Email Address: clayton@blm.gov
Disposition: Approved	Disposition Date: 11/22/2021
Signature: Cody R. Layton	

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 30-025-48710	² Pool Code 98158	³ Pool Name WC-025 ; Wolfcamp
⁴ Property Code 327174	⁵ Property Name MESA 8105 1-12 FED	⁶ Well Number 51H
⁷ OGRID No. 260297	⁸ Operator Name BTA OIL PRODUCERS, LLC	⁹ Elevation 3360'

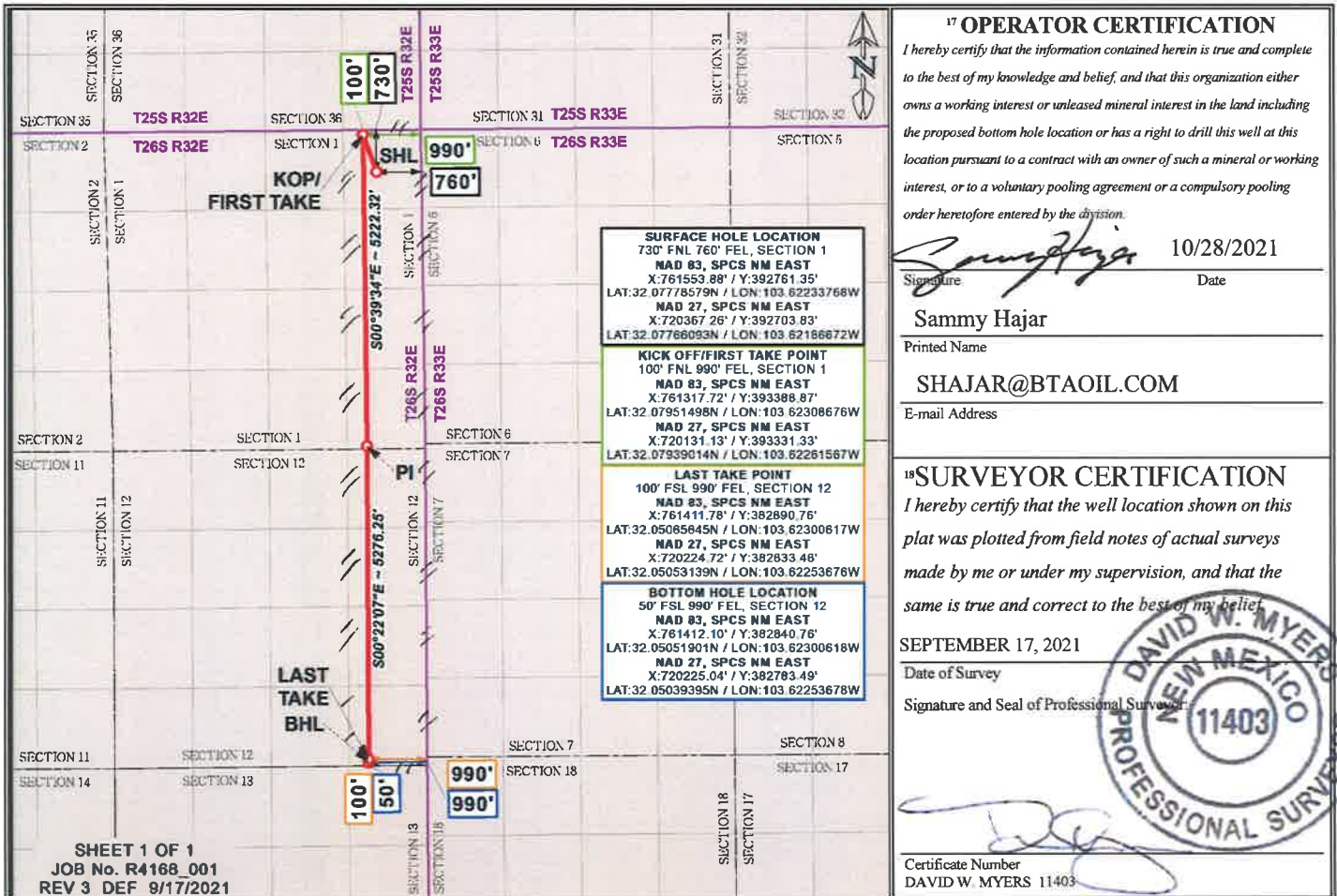
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	1	26S	32E		730	NORTH	760	EAST	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
P	12	26S	32E		50	SOUTH	990	EAST	LEA
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.





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

WELL: Mesa 8105 Fed #51H
TVD: 12205
MD: 22667

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	8032	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8032	11713	8000	11678	yes	29.7	P110	FJ	1.7	1.7	2.7	2.8	Dry	9.4
6 3/4	5 1/2	0	11513	0	11478	Yes	20	P110	Buttress	1.3	1.5	2.8	2.9	Dry	14
6 3/4	5	11513	22667	11478	12205	Yes	18	P110	Buttress	1.3	1.4	1.4	1.5	Dry	14

*7 5/8" has DV Tool @ 4832'

Dv Tool Depth 4832

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	4410	Class C	710	2.19	12.7	1554.9	50%	0.5% CaCl2
	Stg 2 Tail		4410	4832	Class C	150	1.33	14.8	199.5	50%	1% CaCl2
	Stg 1 Lead		4832	8160	Class H	340	2.64	10.5	897.6	25%	0.5% CaCl2
	Stg 1 Tail		8160	11713	Class H	400	1.19	15.6	476	25%	1% CaCl2
5 1/2	Lead										
	Tail		10715	11513							
5	Lead										
	Tail		11513	22667	Class H	1165	1.27	14.8	1479.55	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: 8,885 psi

Anticipated Bottom Hole Temperature: 179 °F

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

Anticipated Bottom Surface Pressure: 6,200 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	11713	DBE	9.0 – 9.4
11713	12205	OBM	11.0 – 14.0

BTA Oil Producers, LLC

T

G

M



Azimuths to Grid North

True North: -0.38°

Magnetic North: 7.38°

Magnetic Field

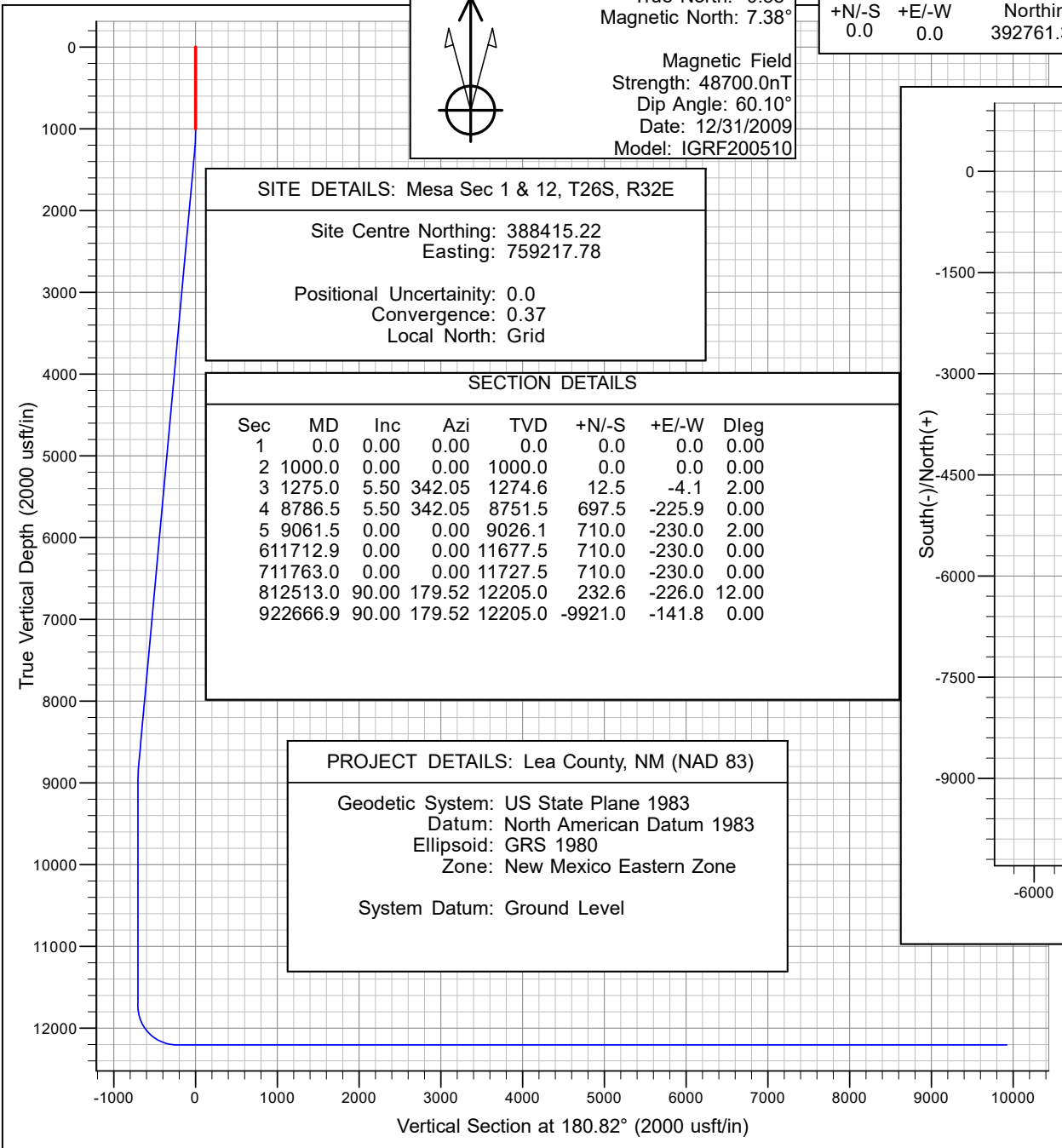
Strength: 48700.0nT

Dip Angle: 60.10°

Date: 12/31/2009

Model: IGRF200510

WELL DETAILS: Mesa #51H					
+N/-S	+E/-W	Northing	Ground Level Easting	3360.0 Latitude	Longitude
0.0	0.0	392761.35	761553.88	32° 4' 40.029 N	103° 37' 20.416 W



SITE DETAILS: Mesa Sec 1 & 12, T26S, R32E

Site Centre Northing: 388415.22

Easting: 759217.78

Positional Uncertainty: 0.0

Convergence: 0.37

Local North: Grid

SECTION DETAILS							
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg
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	1275.0	5.50	342.05	1274.6	12.5	-4.1	2.00
4	8786.5	5.50	342.05	8751.5	697.5	-225.9	0.00
5	9061.5	0.00	0.00	9026.1	710.0	-230.0	2.00
6	11712.9	0.00	0.00	11677.5	710.0	-230.0	0.00
7	11763.0	0.00	0.00	11727.5	710.0	-230.0	0.00
8	12513.0	90.00	179.52	12205.0	232.6	-226.0	12.00
9	22666.9	90.00	179.52	12205.0	-9921.0	-141.8	0.00

PROJECT DETAILS: Lea County, NM (NAD 83)

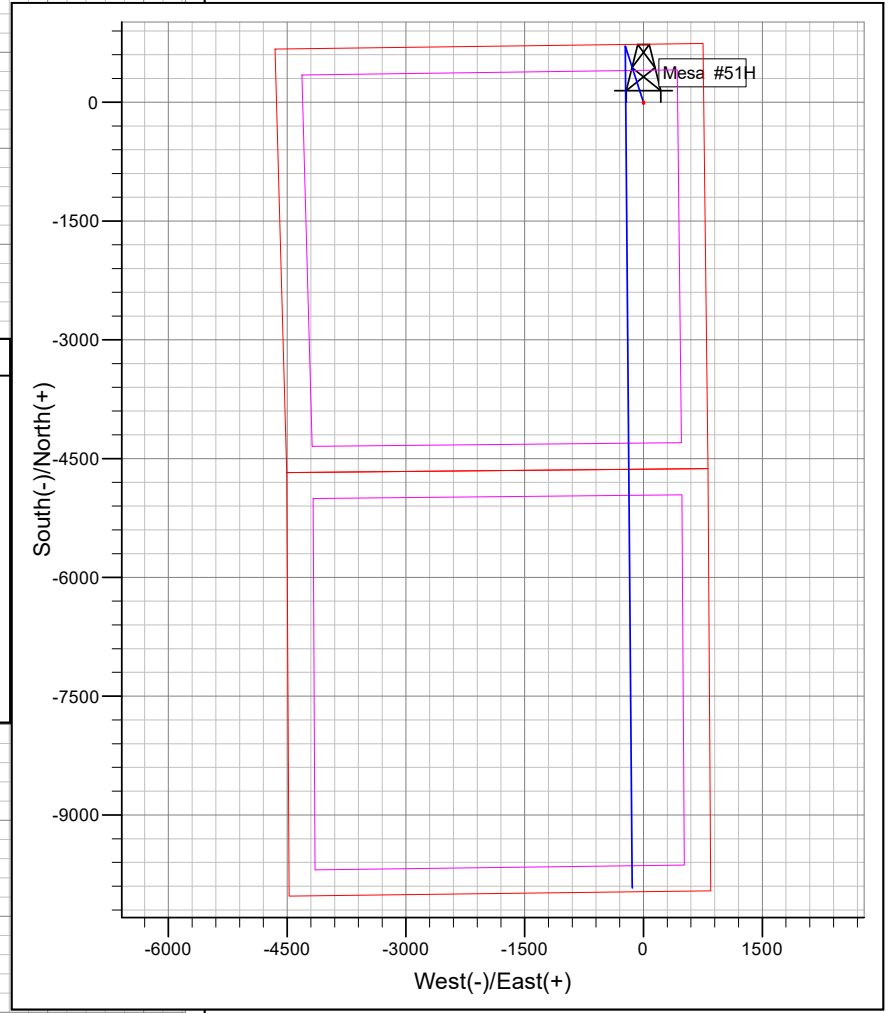
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Ground Level



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Mesa Sec 1 & 12, T26S, R32E

Mesa #51H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

28 October, 2021

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #51H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #51H	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 1 & 12, T26S, R32E		
Site Position:		Northing:	388,415.22 usft
From:	Map	Easting:	759,217.78 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 57.173 N
		Longitude:	103° 37' 47.896 W

Well	Mesa #51H					
Well Position	+N/-S	0.0 usft	Northing:	392,761.35 usft	Latitude:	32° 4' 40.029 N
	+E/-W	0.0 usft	Easting:	761,553.88 usft	Longitude:	103° 37' 20.416 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,360.0 usft
Grid Convergence:	0.38 °					

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.76	60.10	48,700.01227993

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	180.82

Plan Survey Tool Program	Date	10/28/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,666.9 Design #1 (Wellbore #1)		

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #51H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #51H	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	
1,275.0	5.50	342.05	1,274.6	12.5	-4.1	2.00	2.00	0.00	342.05	
8,786.5	5.50	342.05	8,751.5	697.5	-225.9	0.00	0.00	0.00	0.00	
9,061.5	0.00	0.00	9,026.1	710.0	-230.0	2.00	-2.00	0.00	180.00	
11,712.9	0.00	0.00	11,677.5	710.0	-230.0	0.00	0.00	0.00	0.00	
11,763.0	0.00	0.00	11,727.5	710.0	-230.0	0.00	0.00	0.00	0.00	
12,513.0	90.00	179.52	12,205.0	232.6	-226.0	12.00	12.00	0.00	179.52	
22,666.9	90.00	179.52	12,205.0	-9,921.0	-141.8	0.00	0.00	0.00	0.00	Mesa #51H BHL

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #51H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #51H	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	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
100.0	0.00	0.00	100.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
200.0	0.00	0.00	200.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
300.0	0.00	0.00	300.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
400.0	0.00	0.00	400.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
500.0	0.00	0.00	500.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
600.0	0.00	0.00	600.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
700.0	0.00	0.00	700.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
800.0	0.00	0.00	800.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
900.0	0.00	0.00	900.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	392,761.35	761,553.88	32° 4' 40.029 N	103° 37' 20.416 W
1,100.0	2.00	342.05	1,100.0	1.7	-0.5	392,763.01	761,553.34	32° 4' 40.045 N	103° 37' 20.422 W
1,200.0	4.00	342.05	1,199.8	6.6	-2.2	392,767.99	761,551.73	32° 4' 40.095 N	103° 37' 20.440 W
1,275.0	5.50	342.05	1,274.6	12.5	-4.1	392,773.90	761,549.81	32° 4' 40.153 N	103° 37' 20.462 W
1,300.0	5.50	342.05	1,299.5	14.8	-4.8	392,776.17	761,549.07	32° 4' 40.176 N	103° 37' 20.470 W
1,400.0	5.50	342.05	1,399.0	23.9	-7.8	392,785.29	761,546.12	32° 4' 40.266 N	103° 37' 20.504 W
1,500.0	5.50	342.05	1,498.5	33.1	-10.7	392,794.41	761,543.17	32° 4' 40.357 N	103° 37' 20.538 W
1,600.0	5.50	342.05	1,598.1	42.2	-13.7	392,803.53	761,540.21	32° 4' 40.447 N	103° 37' 20.571 W
1,700.0	5.50	342.05	1,697.6	51.3	-16.6	392,812.65	761,537.26	32° 4' 40.538 N	103° 37' 20.605 W
1,800.0	5.50	342.05	1,797.2	60.4	-19.6	392,821.76	761,534.31	32° 4' 40.628 N	103° 37' 20.638 W
1,900.0	5.50	342.05	1,896.7	69.5	-22.5	392,830.88	761,531.35	32° 4' 40.718 N	103° 37' 20.672 W
2,000.0	5.50	342.05	1,996.2	78.7	-25.5	392,840.00	761,528.40	32° 4' 40.809 N	103° 37' 20.706 W
2,100.0	5.50	342.05	2,095.8	87.8	-28.4	392,849.12	761,525.45	32° 4' 40.899 N	103° 37' 20.739 W
2,200.0	5.50	342.05	2,195.3	96.9	-31.4	392,858.23	761,522.49	32° 4' 40.990 N	103° 37' 20.773 W
2,300.0	5.50	342.05	2,294.9	106.0	-34.3	392,867.35	761,519.54	32° 4' 41.080 N	103° 37' 20.807 W
2,400.0	5.50	342.05	2,394.4	115.1	-37.3	392,876.47	761,516.58	32° 4' 41.171 N	103° 37' 20.840 W
2,500.0	5.50	342.05	2,493.9	124.2	-40.2	392,885.59	761,513.63	32° 4' 41.261 N	103° 37' 20.874 W
2,600.0	5.50	342.05	2,593.5	133.4	-43.2	392,894.71	761,510.68	32° 4' 41.351 N	103° 37' 20.907 W
2,700.0	5.50	342.05	2,693.0	142.5	-46.2	392,903.82	761,507.72	32° 4' 41.442 N	103° 37' 20.941 W
2,800.0	5.50	342.05	2,792.6	151.6	-49.1	392,912.94	761,504.77	32° 4' 41.532 N	103° 37' 20.975 W
2,900.0	5.50	342.05	2,892.1	160.7	-52.1	392,922.06	761,501.82	32° 4' 41.623 N	103° 37' 21.008 W
3,000.0	5.50	342.05	2,991.6	169.8	-55.0	392,931.18	761,498.86	32° 4' 41.713 N	103° 37' 21.042 W
3,100.0	5.50	342.05	3,091.2	179.0	-58.0	392,940.29	761,495.91	32° 4' 41.803 N	103° 37' 21.076 W
3,200.0	5.50	342.05	3,190.7	188.1	-60.9	392,949.41	761,492.96	32° 4' 41.894 N	103° 37' 21.109 W
3,300.0	5.50	342.05	3,290.3	197.2	-63.9	392,958.53	761,490.00	32° 4' 41.984 N	103° 37' 21.143 W
3,400.0	5.50	342.05	3,389.8	206.3	-66.8	392,967.65	761,487.05	32° 4' 42.075 N	103° 37' 21.177 W
3,500.0	5.50	342.05	3,489.3	215.4	-69.8	392,976.77	761,484.09	32° 4' 42.165 N	103° 37' 21.210 W
3,600.0	5.50	342.05	3,588.9	224.5	-72.7	392,985.88	761,481.14	32° 4' 42.256 N	103° 37' 21.244 W
3,700.0	5.50	342.05	3,688.4	233.7	-75.7	392,995.00	761,478.19	32° 4' 42.346 N	103° 37' 21.277 W
3,800.0	5.50	342.05	3,788.0	242.8	-78.6	393,004.12	761,475.23	32° 4' 42.436 N	103° 37' 21.311 W
3,900.0	5.50	342.05	3,887.5	251.9	-81.6	393,013.24	761,472.28	32° 4' 42.527 N	103° 37' 21.345 W
4,000.0	5.50	342.05	3,987.0	261.0	-84.6	393,022.35	761,469.33	32° 4' 42.617 N	103° 37' 21.378 W
4,100.0	5.50	342.05	4,086.6	270.1	-87.5	393,031.47	761,466.37	32° 4' 42.708 N	103° 37' 21.412 W
4,200.0	5.50	342.05	4,186.1	279.3	-90.5	393,040.59	761,463.42	32° 4' 42.798 N	103° 37' 21.446 W
4,300.0	5.50	342.05	4,285.7	288.4	-93.4	393,049.71	761,460.46	32° 4' 42.888 N	103° 37' 21.479 W
4,400.0	5.50	342.05	4,385.2	297.5	-96.4	393,058.83	761,457.51	32° 4' 42.979 N	103° 37' 21.513 W
4,500.0	5.50	342.05	4,484.7	306.6	-99.3	393,067.94	761,454.56	32° 4' 43.069 N	103° 37' 21.546 W
4,600.0	5.50	342.05	4,584.3	315.7	-102.3	393,077.06	761,451.60	32° 4' 43.160 N	103° 37' 21.580 W
4,700.0	5.50	342.05	4,683.8	324.8	-105.2	393,086.18	761,448.65	32° 4' 43.250 N	103° 37' 21.614 W
4,800.0	5.50	342.05	4,783.3	334.0	-108.2	393,095.30	761,445.70	32° 4' 43.341 N	103° 37' 21.647 W
4,900.0	5.50	342.05	4,882.9	343.1	-111.1	393,104.41	761,442.74	32° 4' 43.431 N	103° 37' 21.681 W
5,000.0	5.50	342.05	4,982.4	352.2	-114.1	393,113.53	761,439.79	32° 4' 43.521 N	103° 37' 21.715 W
5,100.0	5.50	342.05	5,082.0	361.3	-117.0	393,122.65	761,436.84	32° 4' 43.612 N	103° 37' 21.748 W
5,200.0	5.50	342.05	5,181.5	370.4	-120.0	393,131.77	761,433.88	32° 4' 43.702 N	103° 37' 21.782 W
5,300.0	5.50	342.05	5,281.0	379.5	-123.0	393,140.89	761,430.93	32° 4' 43.793 N	103° 37' 21.815 W

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #51H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #51H	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	5.50	342.05	5,380.6	388.7	-125.9	393,150.00	761,427.97	32° 4' 43.883 N	103° 37' 21.849 W	
5,500.0	5.50	342.05	5,480.1	397.8	-128.9	393,159.12	761,425.02	32° 4' 43.973 N	103° 37' 21.883 W	
5,600.0	5.50	342.05	5,579.7	406.9	-131.8	393,168.24	761,422.07	32° 4' 44.064 N	103° 37' 21.916 W	
5,700.0	5.50	342.05	5,679.2	416.0	-134.8	393,177.36	761,419.11	32° 4' 44.154 N	103° 37' 21.950 W	
5,800.0	5.50	342.05	5,778.7	425.1	-137.7	393,186.47	761,416.16	32° 4' 44.245 N	103° 37' 21.984 W	
5,900.0	5.50	342.05	5,878.3	434.3	-140.7	393,195.59	761,413.21	32° 4' 44.335 N	103° 37' 22.017 W	
6,000.0	5.50	342.05	5,977.8	443.4	-143.6	393,204.71	761,410.25	32° 4' 44.426 N	103° 37' 22.051 W	
6,100.0	5.50	342.05	6,077.4	452.5	-146.6	393,213.83	761,407.30	32° 4' 44.516 N	103° 37' 22.085 W	
6,200.0	5.50	342.05	6,176.9	461.6	-149.5	393,222.95	761,404.35	32° 4' 44.606 N	103° 37' 22.118 W	
6,300.0	5.50	342.05	6,276.4	470.7	-152.5	393,232.06	761,401.39	32° 4' 44.697 N	103° 37' 22.152 W	
6,400.0	5.50	342.05	6,376.0	479.8	-155.4	393,241.18	761,398.44	32° 4' 44.787 N	103° 37' 22.185 W	
6,500.0	5.50	342.05	6,475.5	489.0	-158.4	393,250.30	761,395.48	32° 4' 44.878 N	103° 37' 22.219 W	
6,600.0	5.50	342.05	6,575.1	498.1	-161.4	393,259.42	761,392.53	32° 4' 44.968 N	103° 37' 22.253 W	
6,700.0	5.50	342.05	6,674.6	507.2	-164.3	393,268.53	761,389.58	32° 4' 45.058 N	103° 37' 22.286 W	
6,800.0	5.50	342.05	6,774.1	516.3	-167.3	393,277.65	761,386.62	32° 4' 45.149 N	103° 37' 22.320 W	
6,900.0	5.50	342.05	6,873.7	525.4	-170.2	393,286.77	761,383.67	32° 4' 45.239 N	103° 37' 22.354 W	
7,000.0	5.50	342.05	6,973.2	534.6	-173.2	393,295.89	761,380.72	32° 4' 45.330 N	103° 37' 22.387 W	
7,100.0	5.50	342.05	7,072.8	543.7	-176.1	393,305.01	761,377.76	32° 4' 45.420 N	103° 37' 22.421 W	
7,200.0	5.50	342.05	7,172.3	552.8	-179.1	393,314.12	761,374.81	32° 4' 45.511 N	103° 37' 22.454 W	
7,300.0	5.50	342.05	7,271.8	561.9	-182.0	393,323.24	761,371.86	32° 4' 45.601 N	103° 37' 22.488 W	
7,400.0	5.50	342.05	7,371.4	571.0	-185.0	393,332.36	761,368.90	32° 4' 45.691 N	103° 37' 22.522 W	
7,500.0	5.50	342.05	7,470.9	580.1	-187.9	393,341.48	761,365.95	32° 4' 45.782 N	103° 37' 22.555 W	
7,600.0	5.50	342.05	7,570.5	589.3	-190.9	393,350.59	761,362.99	32° 4' 45.872 N	103° 37' 22.589 W	
7,700.0	5.50	342.05	7,670.0	598.4	-193.8	393,359.71	761,360.04	32° 4' 45.963 N	103° 37' 22.623 W	
7,800.0	5.50	342.05	7,769.5	607.5	-196.8	393,368.83	761,357.09	32° 4' 46.053 N	103° 37' 22.656 W	
7,900.0	5.50	342.05	7,869.1	616.6	-199.8	393,377.95	761,354.13	32° 4' 46.143 N	103° 37' 22.690 W	
8,000.0	5.50	342.05	7,968.6	625.7	-202.7	393,387.06	761,351.18	32° 4' 46.234 N	103° 37' 22.724 W	
8,100.0	5.50	342.05	8,068.2	634.9	-205.7	393,396.18	761,348.23	32° 4' 46.324 N	103° 37' 22.757 W	
8,200.0	5.50	342.05	8,167.7	644.0	-208.6	393,405.30	761,345.27	32° 4' 46.415 N	103° 37' 22.791 W	
8,300.0	5.50	342.05	8,267.2	653.1	-211.6	393,414.42	761,342.32	32° 4' 46.505 N	103° 37' 22.824 W	
8,400.0	5.50	342.05	8,366.8	662.2	-214.5	393,423.54	761,339.37	32° 4' 46.596 N	103° 37' 22.858 W	
8,500.0	5.50	342.05	8,466.3	671.3	-217.5	393,432.65	761,336.41	32° 4' 46.686 N	103° 37' 22.892 W	
8,600.0	5.50	342.05	8,565.9	680.4	-220.4	393,441.77	761,333.46	32° 4' 46.776 N	103° 37' 22.925 W	
8,700.0	5.50	342.05	8,665.4	689.6	-223.4	393,450.89	761,330.50	32° 4' 46.867 N	103° 37' 22.959 W	
8,786.5	5.50	342.05	8,751.5	697.5	-225.9	393,458.78	761,327.95	32° 4' 46.945 N	103° 37' 22.988 W	
8,800.0	5.23	342.05	8,764.9	698.7	-226.3	393,459.98	761,327.56	32° 4' 46.957 N	103° 37' 22.992 W	
8,900.0	3.23	342.05	8,864.7	705.7	-228.6	393,466.99	761,325.29	32° 4' 47.027 N	103° 37' 23.018 W	
9,000.0	1.23	342.05	8,964.6	709.4	-229.8	393,470.70	761,324.09	32° 4' 47.063 N	103° 37' 23.032 W	
9,061.5	0.00	0.00	9,026.1	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,100.0	0.00	0.00	9,064.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,200.0	0.00	0.00	9,164.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,300.0	0.00	0.00	9,264.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,400.0	0.00	0.00	9,364.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,500.0	0.00	0.00	9,464.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,600.0	0.00	0.00	9,564.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,700.0	0.00	0.00	9,664.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,800.0	0.00	0.00	9,764.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
9,900.0	0.00	0.00	9,864.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,000.0	0.00	0.00	9,964.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,100.0	0.00	0.00	10,064.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,200.0	0.00	0.00	10,164.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,300.0	0.00	0.00	10,264.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,400.0	0.00	0.00	10,364.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,500.0	0.00	0.00	10,464.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,600.0	0.00	0.00	10,564.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #51H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #51H	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	10,664.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,800.0	0.00	0.00	10,764.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
10,900.0	0.00	0.00	10,864.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,000.0	0.00	0.00	10,964.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,100.0	0.00	0.00	11,064.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,200.0	0.00	0.00	11,164.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,300.0	0.00	0.00	11,264.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,400.0	0.00	0.00	11,364.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,500.0	0.00	0.00	11,464.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,600.0	0.00	0.00	11,564.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,700.0	0.00	0.00	11,664.6	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,712.9	0.00	0.00	11,677.5	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,763.0	0.00	0.00	11,727.5	710.0	-230.0	393,471.32	761,323.89	32° 4' 47.069 N	103° 37' 23.034 W	
11,800.0	4.44	179.52	11,764.5	708.6	-230.0	393,469.89	761,323.90	32° 4' 47.055 N	103° 37' 23.034 W	
11,900.0	16.44	179.52	11,862.7	690.5	-229.8	393,451.79	761,324.05	32° 4' 46.876 N	103° 37' 23.034 W	
12,000.0	28.44	179.52	11,955.0	652.4	-229.5	393,413.69	761,324.36	32° 4' 46.499 N	103° 37' 23.033 W	
12,100.0	40.44	179.52	12,037.3	595.9	-229.1	393,357.23	761,324.83	32° 4' 45.940 N	103° 37' 23.032 W	
12,200.0	52.44	179.52	12,106.1	523.6	-228.5	393,284.90	761,325.43	32° 4' 45.225 N	103° 37' 23.031 W	
12,300.0	64.44	179.52	12,158.3	438.5	-227.7	393,199.85	761,326.14	32° 4' 44.383 N	103° 37' 23.029 W	
12,400.0	76.44	179.52	12,191.7	344.5	-227.0	393,105.79	761,326.92	32° 4' 43.452 N	103° 37' 23.027 W	
12,500.0	88.44	179.52	12,204.8	245.5	-226.1	393,006.85	761,327.74	32° 4' 42.473 N	103° 37' 23.025 W	
12,513.0	90.00	179.52	12,205.0	232.6	-226.0	392,993.89	761,327.85	32° 4' 42.345 N	103° 37' 23.025 W	
12,600.0	90.00	179.52	12,205.0	145.5	-225.3	392,906.86	761,328.57	32° 4' 41.483 N	103° 37' 23.023 W	
12,700.0	90.00	179.52	12,205.0	45.5	-224.5	392,806.87	761,329.40	32° 4' 40.494 N	103° 37' 23.021 W	
12,800.0	90.00	179.52	12,205.0	-54.5	-223.7	392,706.87	761,330.23	32° 4' 39.504 N	103° 37' 23.019 W	
12,900.0	90.00	179.52	12,205.0	-154.5	-222.8	392,606.88	761,331.06	32° 4' 38.515 N	103° 37' 23.017 W	
13,000.0	90.00	179.52	12,205.0	-254.5	-222.0	392,506.89	761,331.89	32° 4' 37.525 N	103° 37' 23.015 W	
13,100.0	90.00	179.52	12,205.0	-354.5	-221.2	392,406.89	761,332.72	32° 4' 36.536 N	103° 37' 23.013 W	
13,200.0	90.00	179.52	12,205.0	-454.5	-220.3	392,306.90	761,333.55	32° 4' 35.546 N	103° 37' 23.011 W	
13,300.0	90.00	179.52	12,205.0	-554.5	-219.5	392,206.91	761,334.38	32° 4' 34.557 N	103° 37' 23.009 W	
13,400.0	90.00	179.52	12,205.0	-654.5	-218.7	392,106.92	761,335.21	32° 4' 33.567 N	103° 37' 23.007 W	
13,500.0	90.00	179.52	12,205.0	-754.5	-217.8	392,006.92	761,336.04	32° 4' 32.578 N	103° 37' 23.005 W	
13,600.0	90.00	179.52	12,205.0	-854.4	-217.0	391,906.93	761,336.87	32° 4' 31.588 N	103° 37' 23.003 W	
13,700.0	90.00	179.52	12,205.0	-954.4	-216.2	391,806.94	761,337.70	32° 4' 30.599 N	103° 37' 23.001 W	
13,800.0	90.00	179.52	12,205.0	-1,054.4	-215.4	391,706.94	761,338.53	32° 4' 29.609 N	103° 37' 22.999 W	
13,900.0	90.00	179.52	12,205.0	-1,154.4	-214.5	391,606.95	761,339.36	32° 4' 28.619 N	103° 37' 22.997 W	
14,000.0	90.00	179.52	12,205.0	-1,254.4	-213.7	391,506.96	761,340.19	32° 4' 27.630 N	103° 37' 22.995 W	
14,100.0	90.00	179.52	12,205.0	-1,354.4	-212.9	391,406.96	761,341.02	32° 4' 26.640 N	103° 37' 22.993 W	
14,200.0	90.00	179.52	12,205.0	-1,454.4	-212.0	391,306.97	761,341.84	32° 4' 25.651 N	103° 37' 22.991 W	
14,300.0	90.00	179.52	12,205.0	-1,554.4	-211.2	391,206.98	761,342.67	32° 4' 24.661 N	103° 37' 22.989 W	
14,400.0	90.00	179.52	12,205.0	-1,654.4	-210.4	391,106.98	761,343.50	32° 4' 23.672 N	103° 37' 22.987 W	
14,500.0	90.00	179.52	12,205.0	-1,754.4	-209.6	391,006.99	761,344.33	32° 4' 22.682 N	103° 37' 22.985 W	
14,600.0	90.00	179.52	12,205.0	-1,854.4	-208.7	390,907.00	761,345.16	32° 4' 21.693 N	103° 37' 22.983 W	
14,700.0	90.00	179.52	12,205.0	-1,954.4	-207.9	390,807.01	761,345.99	32° 4' 20.703 N	103° 37' 22.981 W	
14,800.0	90.00	179.52	12,205.0	-2,054.4	-207.1	390,707.01	761,346.82	32° 4' 19.714 N	103° 37' 22.979 W	
14,900.0	90.00	179.52	12,205.0	-2,154.4	-206.2	390,607.02	761,347.65	32° 4' 18.724 N	103° 37' 22.977 W	
15,000.0	90.00	179.52	12,205.0	-2,254.4	-205.4	390,507.03	761,348.48	32° 4' 17.735 N	103° 37' 22.975 W	
15,100.0	90.00	179.52	12,205.0	-2,354.4	-204.6	390,407.03	761,349.31	32° 4' 16.745 N	103° 37' 22.973 W	
15,200.0	90.00	179.52	12,205.0	-2,454.4	-203.7	390,307.04	761,350.14	32° 4' 15.755 N	103° 37' 22.971 W	
15,300.0	90.00	179.52	12,205.0	-2,554.4	-202.9	390,207.05	761,350.97	32° 4' 14.766 N	103° 37' 22.969 W	
15,400.0	90.00	179.52	12,205.0	-2,654.4	-202.1	390,107.05	761,351.80	32° 4' 13.776 N	103° 37' 22.967 W	
15,500.0	90.00	179.52	12,205.0	-2,754.4	-201.3	390,007.06	761,352.63	32° 4' 12.787 N	103° 37' 22.965 W	
15,600.0	90.00	179.52	12,205.0	-2,854.4	-200.4	389,907.07	761,353.46	32° 4' 11.797 N	103° 37' 22.963 W	
15,700.0	90.00	179.52	12,205.0	-2,954.4	-199.6	389,807.08	761,354.29	32° 4' 10.808 N	103° 37' 22.961 W	
15,800.0	90.00	179.52	12,205.0	-3,054.4	-198.8	389,707.08	761,355.12	32° 4' 9.818 N	103° 37' 22.959 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #51H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #51H	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	179.52	12,205.0	-3,154.4	-197.9	389,607.09	761,355.95	32° 4' 8.829 N	103° 37' 22.957 W	
16,000.0	90.00	179.52	12,205.0	-3,254.4	-197.1	389,507.10	761,356.78	32° 4' 7.839 N	103° 37' 22.955 W	
16,100.0	90.00	179.52	12,205.0	-3,354.4	-196.3	389,407.10	761,357.61	32° 4' 6.850 N	103° 37' 22.953 W	
16,200.0	90.00	179.52	12,205.0	-3,454.4	-195.4	389,307.11	761,358.44	32° 4' 5.860 N	103° 37' 22.951 W	
16,300.0	90.00	179.52	12,205.0	-3,554.4	-194.6	389,207.12	761,359.27	32° 4' 4.871 N	103° 37' 22.949 W	
16,400.0	90.00	179.52	12,205.0	-3,654.4	-193.8	389,107.12	761,360.10	32° 4' 3.881 N	103° 37' 22.947 W	
16,500.0	90.00	179.52	12,205.0	-3,754.4	-193.0	389,007.13	761,360.93	32° 4' 2.891 N	103° 37' 22.945 W	
16,600.0	90.00	179.52	12,205.0	-3,854.3	-192.1	388,907.14	761,361.76	32° 4' 1.902 N	103° 37' 22.943 W	
16,700.0	90.00	179.52	12,205.0	-3,954.3	-191.3	388,807.15	761,362.59	32° 4' 0.912 N	103° 37' 22.941 W	
16,800.0	90.00	179.52	12,205.0	-4,054.3	-190.5	388,707.15	761,363.42	32° 3' 59.923 N	103° 37' 22.939 W	
16,900.0	90.00	179.52	12,205.0	-4,154.3	-189.6	388,607.16	761,364.25	32° 3' 58.933 N	103° 37' 22.937 W	
17,000.0	90.00	179.52	12,205.0	-4,254.3	-188.8	388,507.17	761,365.08	32° 3' 57.944 N	103° 37' 22.935 W	
17,100.0	90.00	179.52	12,205.0	-4,354.3	-188.0	388,407.17	761,365.91	32° 3' 56.954 N	103° 37' 22.933 W	
17,200.0	90.00	179.52	12,205.0	-4,454.3	-187.1	388,307.18	761,366.74	32° 3' 55.965 N	103° 37' 22.931 W	
17,300.0	90.00	179.52	12,205.0	-4,554.3	-186.3	388,207.19	761,367.57	32° 3' 54.975 N	103° 37' 22.929 W	
17,400.0	90.00	179.52	12,205.0	-4,654.3	-185.5	388,107.19	761,368.40	32° 3' 53.986 N	103° 37' 22.927 W	
17,500.0	90.00	179.52	12,205.0	-4,754.3	-184.7	388,007.20	761,369.23	32° 3' 52.996 N	103° 37' 22.925 W	
17,600.0	90.00	179.52	12,205.0	-4,854.3	-183.8	387,907.21	761,370.06	32° 3' 52.007 N	103° 37' 22.923 W	
17,700.0	90.00	179.52	12,205.0	-4,954.3	-183.0	387,807.22	761,370.89	32° 3' 51.017 N	103° 37' 22.921 W	
17,800.0	90.00	179.52	12,205.0	-5,054.3	-182.2	387,707.22	761,371.72	32° 3' 50.027 N	103° 37' 22.919 W	
17,900.0	90.00	179.52	12,205.0	-5,154.3	-181.3	387,607.23	761,372.54	32° 3' 49.038 N	103° 37' 22.917 W	
18,000.0	90.00	179.52	12,205.0	-5,254.3	-180.5	387,507.24	761,373.37	32° 3' 48.048 N	103° 37' 22.915 W	
18,100.0	90.00	179.52	12,205.0	-5,354.3	-179.7	387,407.24	761,374.20	32° 3' 47.059 N	103° 37' 22.913 W	
18,200.0	90.00	179.52	12,205.0	-5,454.3	-178.8	387,307.25	761,375.03	32° 3' 46.069 N	103° 37' 22.911 W	
18,300.0	90.00	179.52	12,205.0	-5,554.3	-178.0	387,207.26	761,375.86	32° 3' 45.080 N	103° 37' 22.909 W	
18,400.0	90.00	179.52	12,205.0	-5,654.3	-177.2	387,107.26	761,376.69	32° 3' 44.090 N	103° 37' 22.907 W	
18,500.0	90.00	179.52	12,205.0	-5,754.3	-176.4	387,007.27	761,377.52	32° 3' 43.101 N	103° 37' 22.905 W	
18,600.0	90.00	179.52	12,205.0	-5,854.3	-175.5	386,907.28	761,378.35	32° 3' 42.111 N	103° 37' 22.903 W	
18,700.0	90.00	179.52	12,205.0	-5,954.3	-174.7	386,807.28	761,379.18	32° 3' 41.122 N	103° 37' 22.901 W	
18,800.0	90.00	179.52	12,205.0	-6,054.3	-173.9	386,707.29	761,380.01	32° 3' 40.132 N	103° 37' 22.899 W	
18,900.0	90.00	179.52	12,205.0	-6,154.3	-173.0	386,607.30	761,380.84	32° 3' 39.142 N	103° 37' 22.897 W	
19,000.0	90.00	179.52	12,205.0	-6,254.3	-172.2	386,507.31	761,381.67	32° 3' 38.153 N	103° 37' 22.895 W	
19,100.0	90.00	179.52	12,205.0	-6,354.3	-171.4	386,407.31	761,382.50	32° 3' 37.163 N	103° 37' 22.893 W	
19,200.0	90.00	179.52	12,205.0	-6,454.3	-170.6	386,307.32	761,383.33	32° 3' 36.174 N	103° 37' 22.891 W	
19,300.0	90.00	179.52	12,205.0	-6,554.3	-169.7	386,207.33	761,384.16	32° 3' 35.184 N	103° 37' 22.889 W	
19,400.0	90.00	179.52	12,205.0	-6,654.3	-168.9	386,107.33	761,384.99	32° 3' 34.195 N	103° 37' 22.888 W	
19,500.0	90.00	179.52	12,205.0	-6,754.2	-168.1	386,007.34	761,385.82	32° 3' 33.205 N	103° 37' 22.886 W	
19,600.0	90.00	179.52	12,205.0	-6,854.2	-167.2	385,907.35	761,386.65	32° 3' 32.216 N	103° 37' 22.884 W	
19,700.0	90.00	179.52	12,205.0	-6,954.2	-166.4	385,807.35	761,387.48	32° 3' 31.226 N	103° 37' 22.882 W	
19,800.0	90.00	179.52	12,205.0	-7,054.2	-165.6	385,707.36	761,388.31	32° 3' 30.237 N	103° 37' 22.880 W	
19,900.0	90.00	179.52	12,205.0	-7,154.2	-164.7	385,607.37	761,389.14	32° 3' 29.247 N	103° 37' 22.878 W	
20,000.0	90.00	179.52	12,205.0	-7,254.2	-163.9	385,507.38	761,389.97	32° 3' 28.258 N	103° 37' 22.876 W	
20,100.0	90.00	179.52	12,205.0	-7,354.2	-163.1	385,407.38	761,390.80	32° 3' 27.268 N	103° 37' 22.874 W	
20,200.0	90.00	179.52	12,205.0	-7,454.2	-162.3	385,307.39	761,391.63	32° 3' 26.278 N	103° 37' 22.872 W	
20,300.0	90.00	179.52	12,205.0	-7,554.2	-161.4	385,207.40	761,392.46	32° 3' 25.289 N	103° 37' 22.870 W	
20,400.0	90.00	179.52	12,205.0	-7,654.2	-160.6	385,107.40	761,393.29	32° 3' 24.299 N	103° 37' 22.868 W	
20,500.0	90.00	179.52	12,205.0	-7,754.2	-159.8	385,007.41	761,394.12	32° 3' 23.310 N	103° 37' 22.866 W	
20,600.0	90.00	179.52	12,205.0	-7,854.2	-158.9	384,907.42	761,394.95	32° 3' 22.320 N	103° 37' 22.864 W	
20,700.0	90.00	179.52	12,205.0	-7,954.2	-158.1	384,807.42	761,395.78	32° 3' 21.331 N	103° 37' 22.862 W	
20,800.0	90.00	179.52	12,205.0	-8,054.2	-157.3	384,707.43	761,396.61	32° 3' 20.341 N	103° 37' 22.860 W	
20,900.0	90.00	179.52	12,205.0	-8,154.2	-156.4	384,607.44	761,397.44	32° 3' 19.352 N	103° 37' 22.858 W	
21,000.0	90.00	179.52	12,205.0	-8,254.2	-155.6	384,507.45	761,398.27	32° 3' 18.362 N	103° 37' 22.856 W	
21,100.0	90.00	179.52	12,205.0	-8,354.2	-154.8	384,407.45	761,399.10	32° 3' 17.373 N	103° 37' 22.854 W	
21,200.0	90.00	179.52	12,205.0	-8,454.2	-154.0	384,307.46	761,399.93	32° 3' 16.383 N	103° 37' 22.852 W	
21,300.0	90.00	179.52	12,205.0	-8,554.2	-153.1	384,207.47	761,400.76	32° 3' 15.394 N	103° 37' 22.850 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #51H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3365.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3365.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #51H	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	
21,400.0	90.00	179.52	12,205.0	-8,654.2	-152.3	384,107.47	761,401.59	32° 3' 14.404 N	103° 37' 22.848 W	
21,500.0	90.00	179.52	12,205.0	-8,754.2	-151.5	384,007.48	761,402.42	32° 3' 13.414 N	103° 37' 22.846 W	
21,600.0	90.00	179.52	12,205.0	-8,854.2	-150.6	383,907.49	761,403.24	32° 3' 12.425 N	103° 37' 22.844 W	
21,700.0	90.00	179.52	12,205.0	-8,954.2	-149.8	383,807.49	761,404.07	32° 3' 11.435 N	103° 37' 22.842 W	
21,800.0	90.00	179.52	12,205.0	-9,054.2	-149.0	383,707.50	761,404.90	32° 3' 10.446 N	103° 37' 22.840 W	
21,900.0	90.00	179.52	12,205.0	-9,154.2	-148.1	383,607.51	761,405.73	32° 3' 9.456 N	103° 37' 22.838 W	
22,000.0	90.00	179.52	12,205.0	-9,254.2	-147.3	383,507.52	761,406.56	32° 3' 8.467 N	103° 37' 22.836 W	
22,100.0	90.00	179.52	12,205.0	-9,354.2	-146.5	383,407.52	761,407.39	32° 3' 7.477 N	103° 37' 22.834 W	
22,200.0	90.00	179.52	12,205.0	-9,454.2	-145.7	383,307.53	761,408.22	32° 3' 6.488 N	103° 37' 22.832 W	
22,300.0	90.00	179.52	12,205.0	-9,554.2	-144.8	383,207.54	761,409.05	32° 3' 5.498 N	103° 37' 22.830 W	
22,400.0	90.00	179.52	12,205.0	-9,654.1	-144.0	383,107.54	761,409.88	32° 3' 4.509 N	103° 37' 22.828 W	
22,500.0	90.00	179.52	12,205.0	-9,754.1	-143.2	383,007.55	761,410.71	32° 3' 3.519 N	103° 37' 22.826 W	
22,600.0	90.00	179.52	12,205.0	-9,854.1	-142.3	382,907.56	761,411.54	32° 3' 2.529 N	103° 37' 22.824 W	
22,666.9	90.00	179.52	12,205.0	-9,921.0	-141.8	382,840.70	761,412.10	32° 3' 1.868 N	103° 37' 22.822 W	

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										
Mesa #51H BHL	0.00	0.00	12,205.0	-9,921.0	-141.8	382,840.70	761,412.10	32° 3' 1.868 N	103° 37' 22.822 W	
- plan hits target center										
- Point										

LEGEND

PROPOSED WELL PAD

ARCH SURVEY LIMITS

PROPOSED LEASE ROAD

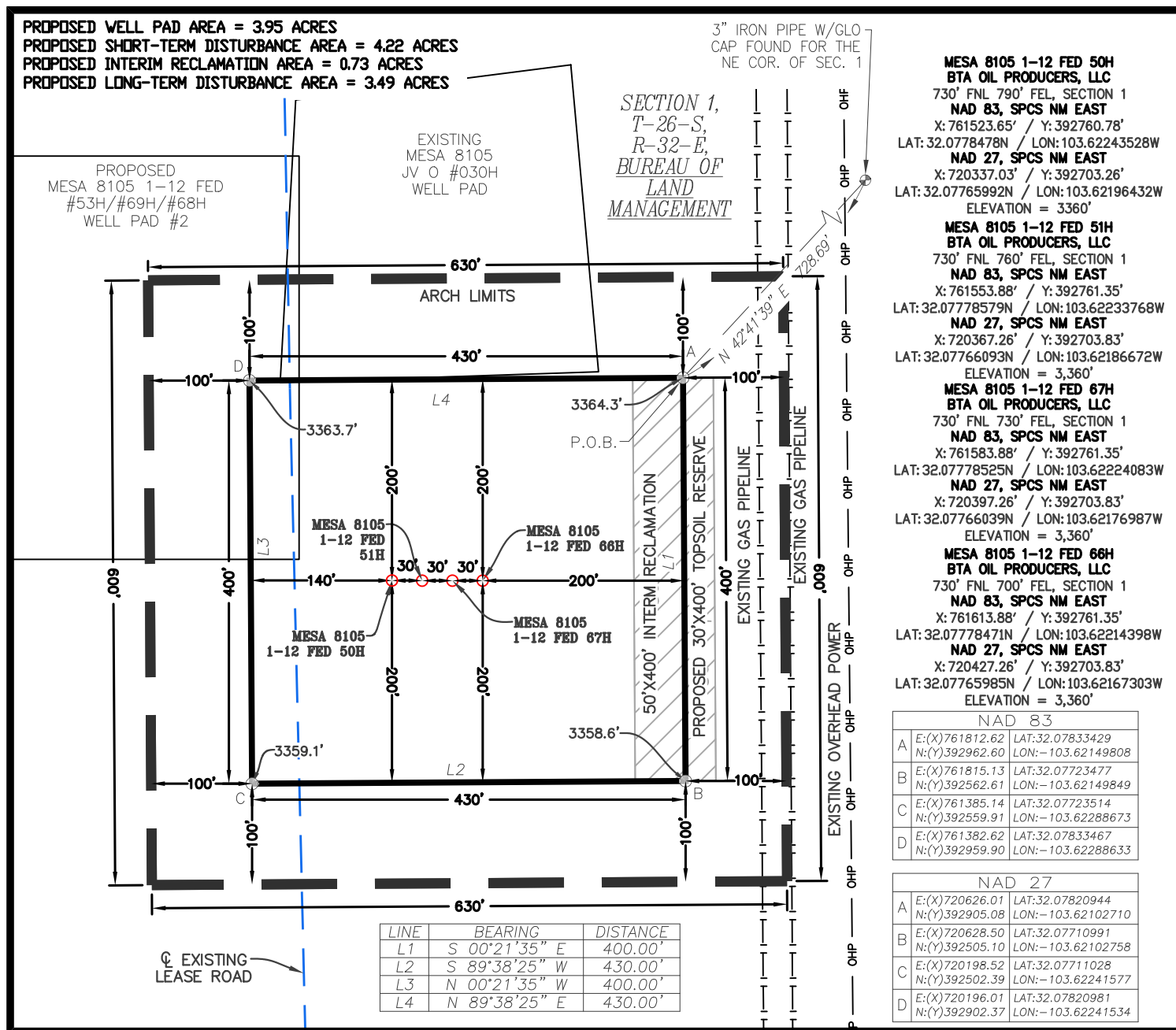
SECTION LINE

RECLAMATION & TOPSOIL AREA

WELL PAD PLAT

MESA 8105 1-12 FED PAD #1
SEC. 1 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 EAST, N.M., TX



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.

NOVEMBER 1, 2021

DAVID W. MYERS 11403

SHEET 2 OF 3

**PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST., UNIT B,
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4168_001**

4	10/19/2021	DEF
REV.	DATE	BY

NAD 83		
A	E:(X)761812.62 N:(Y)392962.60	LAT:32.07833429 LON:-103.62149808
B	E:(X)761815.13 N:(Y)392562.61	LAT:32.07723477 LON:-103.62149849
C	E:(X)761385.14 N:(Y)392559.91	LAT:32.07723514 LON:-103.62288673
D	E:(X)761382.62 N:(Y)392959.90	LAT:32.07833467 LON:-103.62288633

NAD 27		
A	E:(X)720626.01 N:(Y)392905.08	LAT:32.07820944 LON:-103.62102710
B	E:(X)720628.50 N:(Y)392505.10	LAT:32.07710991 LON:-103.62102758
C	E:(X)720198.52 N:(Y)392502.39	LAT:32.07711028 LON:-103.62241577
D	E:(X)720196.01 N:(Y)392902.37	LAT:32.07820981 LON:-103.62241534

75' 0' 75' 150'

SCALE: 1" = 150'

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 63450

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 63450
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/24/2021