

Well Name: MESA 8105 1-12 FEDERAL	Well Location: T26S / R32E / SEC 1 / NENE /	County or Parish/State:
Well Number: 52H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM014492	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548711	Well Status: Approved Application for Permit to Drill	Operator: BTA OIL PRODUCERS LLC

Notice of Intent

Sundry ID: 2644031

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 11/11/2021	Time Sundry Submitted: 03:41
Date proposed operation will begin: 01/01/2022	

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 305 FNL , 1080 FEL , LAT 32.07896 , LONG -103.623378 New SHL Location 505 FNL ; 1170 FEL ; LAT 32.078401 ; LONG - 103.623663

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Mesa_52H_Wall_plot_20211111153932.pdf
- Mesa_52H_directional_plan_20211111153932.pdf
- MESA_8105_1_12_FED_52H__53H__68H__69H_WELL_PAD_PLAT_20211111153902.pdf
- Mesa_8105_1_12_FED_52H_Drill_Plans_20211111151406.pdf
- Mesa_52H_c102___signed_20211111151406.pdf

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Well Number: 52H	Type of Well: OIL WELL	Allottee or Tribe Name:
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US Well Number: 3002548711	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: NOV 11, 2021 03:39 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 30-025-48711	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 52H
⁷ OGRID No. 206297	⁸ Operator Name BTA OIL PRODUCERS, LLC	⁹ Elevation 3363'

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		505	NORTH	1170	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
O	12	26S	32E		50	SOUTH	1650	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.

	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: 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. OCTOBER 6, 2021 Date of Survey Signature and Seal of Professional Surveyor: <i>David W. Myers</i> Certificate Number: DAVID W. MYERS 11403
	SHEET 1 OF 1 JOB No. R4168_002 REV 0 DEF 9/29/2021
	Distances/areas relative to NAD 83 Combined Scale Factor: 0.99981493 Convergence Angle: 00°23'48.779988"



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

WELL: Mesa 8105 Fed #52H
TVD: 12958
MD: 23427

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	8038	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8038	12469	8000	12431	yes	29.7	P110	FJ	1.6	1.6	2.5	2.6	Dry	9.4
6 3/4	5 1/2	0	12269	0	12231	Yes	20	P110	Buttress	1.8	1.4	2.6	2.7	Dry	14
6 3/4	5	12269	23427	12231	12958	Yes	18	P110	Buttress	1.8	1.3	1.4	1.4	Dry	14

*7 5/8" has DV Tool @ 4841'

Dv Tool Depth 4841

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% CaCl ₂
	Tail		505	750	Class C	200	1.34	14.8	268	100%	2% CaCl ₂
7 5/8	Stg 2 Lead		0	4415	Class C	710	2.19	12.7	1554.9	50%	0.5% CaCl ₂
	Stg 2 Tail		4415	4841	Class C	150	1.33	14.8	199.5	50%	1% CaCl ₂
	Stg 1 Lead		4841	8920	Class H	415	2.64	10.5	1095.6	25%	0.5% CaCl ₂
	Stg 1 Tail		8920	12469	Class H	400	1.19	15.6	476	25%	1% CaCl ₂
5 1/2	Lead										
	Tail		11470	12269							
5	Lead										
	Tail		12269	23427	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: 9,433 psi

Anticipated Bottom Hole Temperature: 185 °F

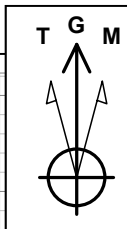
Anticipated abnormal pressures, temperatures, or potential geologic hazards? None

Anticipated Bottom Surface Pressure: 6,583 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	12469	DBE	9.0 – 9.4
12469	12958	OBM	11.0 – 14.0

BTA Oil Producers, LLC



Azimuths to Grid North
True North: -0.38°
Magnetic North: 7.39°

Magnetic Field
Strength: 48700.2nT
Dip Angle: 60.10°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: Mesa #52H

+N/-S	+E/-W	Northing	Ground Level Easting	3363.0 Latitude	Longitude
0.0	0.0	392982.50	761141.87	32° 4' 42.244 N	103° 37' 25.187 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

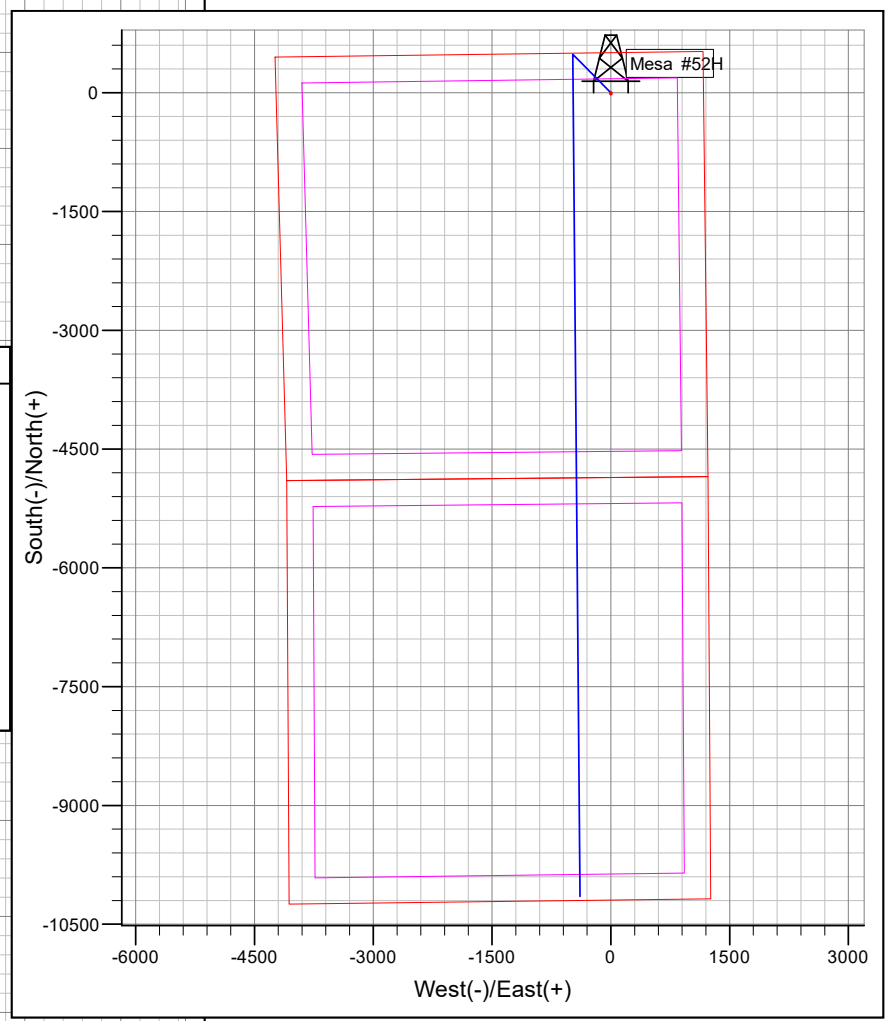
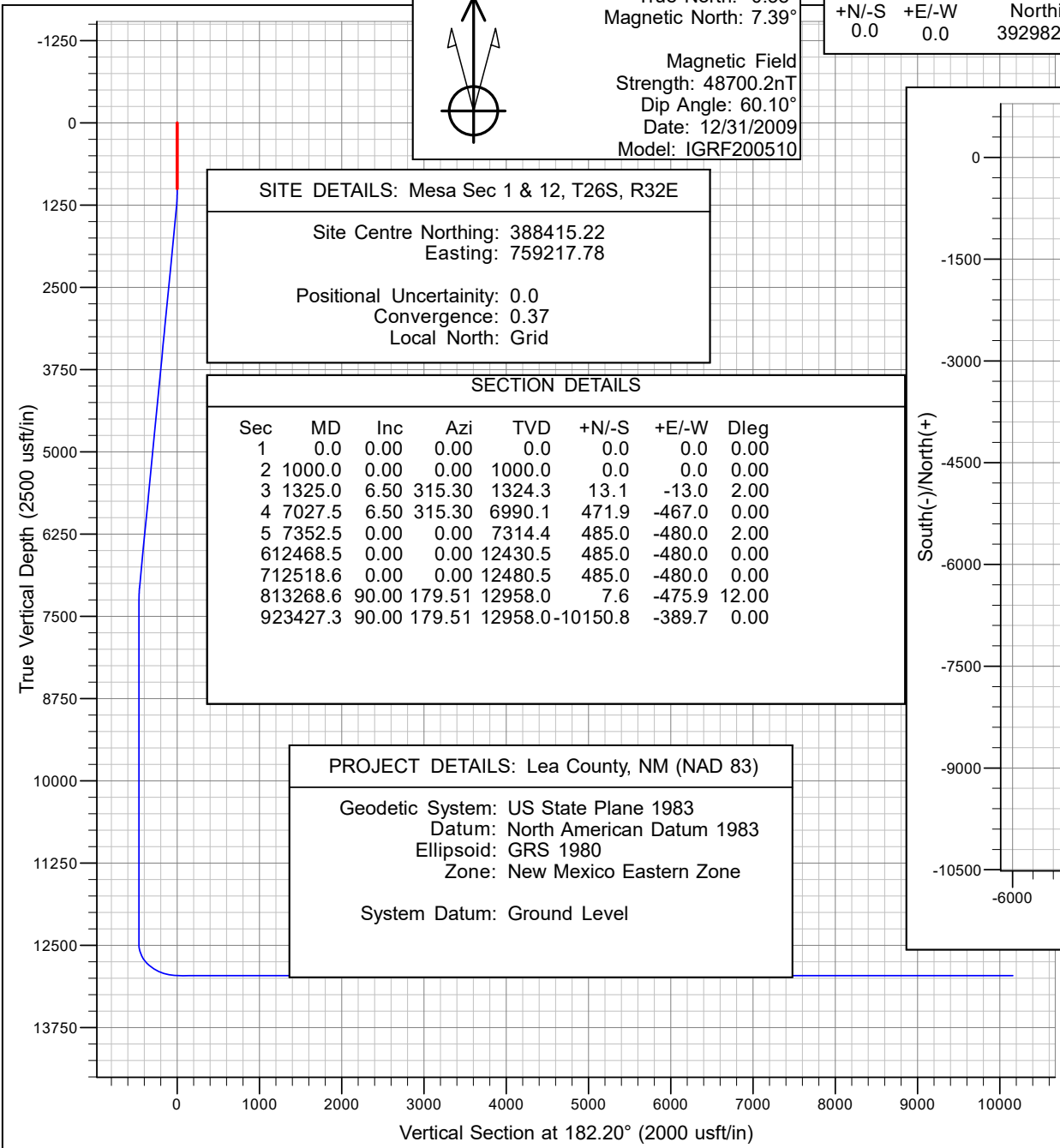
SECTION DETAILS

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	1325.0	6.50	315.30	1324.3	13.1	-13.0	2.00
4	7027.5	6.50	315.30	6990.1	471.9	-467.0	0.00
5	7352.5	0.00	0.00	7314.4	485.0	-480.0	2.00
6	12468.5	0.00	0.00	12430.5	485.0	-480.0	0.00
7	12518.6	0.00	0.00	12480.5	485.0	-480.0	0.00
8	13268.6	90.00	179.51	12958.0	7.6	-475.9	12.00
9	23427.3	90.00	179.51	12958.0-10150.8	-389.7	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 #52H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

04 November, 2021

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #52H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3367.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3367.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #52H	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 #52H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
Grid Convergence:	0.38 °	Latitude:	32° 4' 42.244 N
		Longitude:	103° 37' 25.187 W
		Ground Level:	3,363.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.76	60.10	48,700.24495211

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	182.20

Plan Survey Tool Program	Date	11/4/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,427.3 Design #1 (Wellbore #1)		

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #52H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3367.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3367.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #52H	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	
1,325.0	6.50	315.30	1,324.3	13.1	-13.0	2.00	2.00	0.00	315.30	
7,027.5	6.50	315.30	6,990.1	471.9	-467.0	0.00	0.00	0.00	0.00	
7,352.5	0.00	0.00	7,314.4	485.0	-480.0	2.00	-2.00	0.00	180.00	
12,468.5	0.00	0.00	12,430.5	485.0	-480.0	0.00	0.00	0.00	0.00	
12,518.6	0.00	0.00	12,480.5	485.0	-480.0	0.00	0.00	0.00	0.00	
13,268.6	90.00	179.51	12,958.0	7.6	-475.9	12.00	12.00	0.00	179.51	
23,427.3	90.00	179.51	12,958.0	-10,150.8	-389.7	0.00	0.00	0.00	0.00	Mesa #52H BHL

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #52H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3367.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3367.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #52H	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	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
100.0	0.00	0.00	100.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
200.0	0.00	0.00	200.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
300.0	0.00	0.00	300.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
400.0	0.00	0.00	400.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
500.0	0.00	0.00	500.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
600.0	0.00	0.00	600.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
700.0	0.00	0.00	700.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
800.0	0.00	0.00	800.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
900.0	0.00	0.00	900.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	392,982.50	761,141.87	32° 4' 42.244 N	103° 37' 25.187 W
1,100.0	2.00	315.30	1,100.0	1.2	-1.2	392,983.74	761,140.64	32° 4' 42.256 N	103° 37' 25.201 W
1,200.0	4.00	315.30	1,199.8	5.0	-4.9	392,987.46	761,136.96	32° 4' 42.294 N	103° 37' 25.244 W
1,300.0	6.00	315.30	1,299.5	11.2	-11.0	392,993.65	761,130.83	32° 4' 42.355 N	103° 37' 25.315 W
1,325.0	6.50	315.30	1,324.3	13.1	-13.0	392,995.59	761,128.91	32° 4' 42.374 N	103° 37' 25.337 W
1,400.0	6.50	315.30	1,398.8	19.1	-18.9	393,001.62	761,122.94	32° 4' 42.435 N	103° 37' 25.406 W
1,500.0	6.50	315.30	1,498.2	27.2	-26.9	393,009.67	761,114.98	32° 4' 42.515 N	103° 37' 25.498 W
1,600.0	6.50	315.30	1,597.5	35.2	-34.9	393,017.71	761,107.02	32° 4' 42.595 N	103° 37' 25.590 W
1,700.0	6.50	315.30	1,696.9	43.3	-42.8	393,025.76	761,099.05	32° 4' 42.675 N	103° 37' 25.681 W
1,800.0	6.50	315.30	1,796.2	51.3	-50.8	393,033.80	761,091.09	32° 4' 42.755 N	103° 37' 25.773 W
1,900.0	6.50	315.30	1,895.6	59.4	-58.7	393,041.85	761,083.13	32° 4' 42.835 N	103° 37' 25.865 W
2,000.0	6.50	315.30	1,995.0	67.4	-66.7	393,049.90	761,075.16	32° 4' 42.915 N	103° 37' 25.957 W
2,100.0	6.50	315.30	2,094.3	75.4	-74.7	393,057.94	761,067.20	32° 4' 42.996 N	103° 37' 26.049 W
2,200.0	6.50	315.30	2,193.7	83.5	-82.6	393,065.99	761,059.24	32° 4' 43.076 N	103° 37' 26.141 W
2,300.0	6.50	315.30	2,293.0	91.5	-90.6	393,074.03	761,051.28	32° 4' 43.156 N	103° 37' 26.233 W
2,400.0	6.50	315.30	2,392.4	99.6	-98.6	393,082.08	761,043.31	32° 4' 43.236 N	103° 37' 26.325 W
2,500.0	6.50	315.30	2,491.8	107.6	-106.5	393,090.12	761,035.35	32° 4' 43.316 N	103° 37' 26.417 W
2,600.0	6.50	315.30	2,591.1	115.7	-114.5	393,098.17	761,027.39	32° 4' 43.396 N	103° 37' 26.509 W
2,700.0	6.50	315.30	2,690.5	123.7	-122.4	393,106.22	761,019.42	32° 4' 43.476 N	103° 37' 26.601 W
2,800.0	6.50	315.30	2,789.8	131.8	-130.4	393,114.26	761,011.46	32° 4' 43.556 N	103° 37' 26.693 W
2,900.0	6.50	315.30	2,889.2	139.8	-138.4	393,122.31	761,003.50	32° 4' 43.637 N	103° 37' 26.785 W
3,000.0	6.50	315.30	2,988.5	147.9	-146.3	393,130.35	760,995.54	32° 4' 43.717 N	103° 37' 26.877 W
3,100.0	6.50	315.30	3,087.9	155.9	-154.3	393,138.40	760,987.57	32° 4' 43.797 N	103° 37' 26.969 W
3,200.0	6.50	315.30	3,187.3	164.0	-162.3	393,146.45	760,979.61	32° 4' 43.877 N	103° 37' 27.060 W
3,300.0	6.50	315.30	3,286.6	172.0	-170.2	393,154.49	760,971.65	32° 4' 43.957 N	103° 37' 27.152 W
3,400.0	6.50	315.30	3,386.0	180.0	-178.2	393,162.54	760,963.69	32° 4' 44.037 N	103° 37' 27.244 W
3,500.0	6.50	315.30	3,485.3	188.1	-186.2	393,170.58	760,955.72	32° 4' 44.117 N	103° 37' 27.336 W
3,600.0	6.50	315.30	3,584.7	196.1	-194.1	393,178.63	760,947.76	32° 4' 44.198 N	103° 37' 27.428 W
3,700.0	6.50	315.30	3,684.0	204.2	-202.1	393,186.67	760,939.80	32° 4' 44.278 N	103° 37' 27.520 W
3,800.0	6.50	315.30	3,783.4	212.2	-210.0	393,194.72	760,931.83	32° 4' 44.358 N	103° 37' 27.612 W
3,900.0	6.50	315.30	3,882.8	220.3	-218.0	393,202.77	760,923.87	32° 4' 44.438 N	103° 37' 27.704 W
4,000.0	6.50	315.30	3,982.1	228.3	-226.0	393,210.81	760,915.91	32° 4' 44.518 N	103° 37' 27.796 W
4,100.0	6.50	315.30	4,081.5	236.4	-233.9	393,218.86	760,907.95	32° 4' 44.598 N	103° 37' 27.888 W
4,200.0	6.50	315.30	4,180.8	244.4	-241.9	393,226.90	760,899.98	32° 4' 44.678 N	103° 37' 27.980 W
4,300.0	6.50	315.30	4,280.2	252.5	-249.9	393,234.95	760,892.02	32° 4' 44.759 N	103° 37' 28.072 W
4,400.0	6.50	315.30	4,379.5	260.5	-257.8	393,242.99	760,884.06	32° 4' 44.839 N	103° 37' 28.164 W
4,500.0	6.50	315.30	4,478.9	268.6	-265.8	393,251.04	760,876.09	32° 4' 44.919 N	103° 37' 28.256 W
4,600.0	6.50	315.30	4,578.3	276.6	-273.7	393,259.09	760,868.13	32° 4' 44.999 N	103° 37' 28.348 W
4,700.0	6.50	315.30	4,677.6	284.6	-281.7	393,267.13	760,860.17	32° 4' 45.079 N	103° 37' 28.439 W
4,800.0	6.50	315.30	4,777.0	292.7	-289.7	393,275.18	760,852.21	32° 4' 45.159 N	103° 37' 28.531 W
4,900.0	6.50	315.30	4,876.3	300.7	-297.6	393,283.22	760,844.24	32° 4' 45.239 N	103° 37' 28.623 W
5,000.0	6.50	315.30	4,975.7	308.8	-305.6	393,291.27	760,836.28	32° 4' 45.319 N	103° 37' 28.715 W
5,100.0	6.50	315.30	5,075.0	316.8	-313.6	393,299.31	760,828.32	32° 4' 45.400 N	103° 37' 28.807 W
5,200.0	6.50	315.30	5,174.4	324.9	-321.5	393,307.36	760,820.35	32° 4' 45.480 N	103° 37' 28.899 W
5,300.0	6.50	315.30	5,273.8	332.9	-329.5	393,315.41	760,812.39	32° 4' 45.560 N	103° 37' 28.991 W

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #52H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3367.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3367.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #52H	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	6.50	315.30	5,373.1	341.0	-337.5	393,323.45	760,804.43	32° 4' 45.640 N	103° 37' 29.083 W	
5,500.0	6.50	315.30	5,472.5	349.0	-345.4	393,331.50	760,796.47	32° 4' 45.720 N	103° 37' 29.175 W	
5,600.0	6.50	315.30	5,571.8	357.1	-353.4	393,339.54	760,788.50	32° 4' 45.800 N	103° 37' 29.267 W	
5,700.0	6.50	315.30	5,671.2	365.1	-361.3	393,347.59	760,780.54	32° 4' 45.880 N	103° 37' 29.359 W	
5,800.0	6.50	315.30	5,770.5	373.1	-369.3	393,355.63	760,772.58	32° 4' 45.961 N	103° 37' 29.451 W	
5,900.0	6.50	315.30	5,869.9	381.2	-377.3	393,363.68	760,764.61	32° 4' 46.041 N	103° 37' 29.543 W	
6,000.0	6.50	315.30	5,969.3	389.2	-385.2	393,371.73	760,756.65	32° 4' 46.121 N	103° 37' 29.635 W	
6,100.0	6.50	315.30	6,068.6	397.3	-393.2	393,379.77	760,748.69	32° 4' 46.201 N	103° 37' 29.727 W	
6,200.0	6.50	315.30	6,168.0	405.3	-401.2	393,387.82	760,740.73	32° 4' 46.281 N	103° 37' 29.818 W	
6,300.0	6.50	315.30	6,267.3	413.4	-409.1	393,395.86	760,732.76	32° 4' 46.361 N	103° 37' 29.910 W	
6,400.0	6.50	315.30	6,366.7	421.4	-417.1	393,403.91	760,724.80	32° 4' 46.441 N	103° 37' 30.002 W	
6,500.0	6.50	315.30	6,466.0	429.5	-425.0	393,411.96	760,716.84	32° 4' 46.521 N	103° 37' 30.094 W	
6,600.0	6.50	315.30	6,565.4	437.5	-433.0	393,420.00	760,708.88	32° 4' 46.602 N	103° 37' 30.186 W	
6,700.0	6.50	315.30	6,664.8	445.6	-441.0	393,428.05	760,700.91	32° 4' 46.682 N	103° 37' 30.278 W	
6,800.0	6.50	315.30	6,764.1	453.6	-448.9	393,436.09	760,692.95	32° 4' 46.762 N	103° 37' 30.370 W	
6,900.0	6.50	315.30	6,863.5	461.7	-456.9	393,444.14	760,684.99	32° 4' 46.842 N	103° 37' 30.462 W	
7,000.0	6.50	315.30	6,962.8	469.7	-464.9	393,452.18	760,677.02	32° 4' 46.922 N	103° 37' 30.554 W	
7,027.5	6.50	315.30	6,990.1	471.9	-467.0	393,454.39	760,674.84	32° 4' 46.944 N	103° 37' 30.579 W	
7,100.0	5.05	315.30	7,062.3	477.1	-472.2	393,459.58	760,669.70	32° 4' 46.966 N	103° 37' 30.638 W	
7,200.0	3.05	315.30	7,162.0	482.1	-477.1	393,464.60	760,664.74	32° 4' 47.046 N	103° 37' 30.696 W	
7,300.0	1.05	315.30	7,262.0	484.7	-479.7	393,467.14	760,662.22	32° 4' 47.071 N	103° 37' 30.725 W	
7,352.5	0.00	0.00	7,314.4	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
7,400.0	0.00	0.00	7,362.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
7,500.0	0.00	0.00	7,462.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
7,600.0	0.00	0.00	7,562.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
7,700.0	0.00	0.00	7,662.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
7,800.0	0.00	0.00	7,762.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
7,900.0	0.00	0.00	7,862.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,000.0	0.00	0.00	7,962.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,100.0	0.00	0.00	8,062.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,200.0	0.00	0.00	8,162.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,300.0	0.00	0.00	8,262.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,400.0	0.00	0.00	8,362.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,500.0	0.00	0.00	8,462.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,600.0	0.00	0.00	8,562.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,700.0	0.00	0.00	8,662.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,800.0	0.00	0.00	8,762.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
8,900.0	0.00	0.00	8,862.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,000.0	0.00	0.00	8,962.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,100.0	0.00	0.00	9,062.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,200.0	0.00	0.00	9,162.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,300.0	0.00	0.00	9,262.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,400.0	0.00	0.00	9,362.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,500.0	0.00	0.00	9,462.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,600.0	0.00	0.00	9,562.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,700.0	0.00	0.00	9,662.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,800.0	0.00	0.00	9,762.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
9,900.0	0.00	0.00	9,862.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,000.0	0.00	0.00	9,962.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,100.0	0.00	0.00	10,062.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,200.0	0.00	0.00	10,162.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,300.0	0.00	0.00	10,262.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,400.0	0.00	0.00	10,362.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,500.0	0.00	0.00	10,462.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,600.0	0.00	0.00	10,562.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #52H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3367.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3367.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #52H	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	10,662.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,800.0	0.00	0.00	10,762.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
10,900.0	0.00	0.00	10,862.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,000.0	0.00	0.00	10,962.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,100.0	0.00	0.00	11,062.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,200.0	0.00	0.00	11,162.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,300.0	0.00	0.00	11,262.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,400.0	0.00	0.00	11,362.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,500.0	0.00	0.00	11,462.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,600.0	0.00	0.00	11,562.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,700.0	0.00	0.00	11,662.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,800.0	0.00	0.00	11,762.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
11,900.0	0.00	0.00	11,862.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,000.0	0.00	0.00	11,962.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,100.0	0.00	0.00	12,062.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,200.0	0.00	0.00	12,162.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,300.0	0.00	0.00	12,262.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,400.0	0.00	0.00	12,362.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,468.5	0.00	0.00	12,430.5	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,500.0	0.00	0.00	12,462.0	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,518.6	0.00	0.00	12,480.5	485.0	-480.0	393,467.48	760,661.88	32° 4' 47.075 N	103° 37' 30.729 W	
12,600.0	9.77	179.51	12,561.6	478.1	-479.9	393,460.56	760,661.94	32° 4' 47.006 N	103° 37' 30.729 W	
12,700.0	21.77	179.51	12,657.6	450.9	-479.7	393,433.43	760,662.17	32° 4' 46.738 N	103° 37' 30.728 W	
12,800.0	33.77	179.51	12,745.9	404.4	-479.3	393,386.93	760,662.57	32° 4' 46.277 N	103° 37' 30.727 W	
12,900.0	45.77	179.51	12,822.7	340.6	-478.8	393,323.08	760,663.11	32° 4' 45.645 N	103° 37' 30.726 W	
13,000.0	57.77	179.51	12,884.4	262.2	-478.1	393,244.68	760,663.78	32° 4' 44.870 N	103° 37' 30.724 W	
13,100.0	69.77	179.51	12,928.5	172.7	-477.3	393,155.14	760,664.53	32° 4' 43.984 N	103° 37' 30.722 W	
13,200.0	81.77	179.51	12,953.1	75.9	-476.5	393,058.40	760,665.36	32° 4' 43.026 N	103° 37' 30.720 W	
13,268.6	90.00	179.51	12,958.0	7.6	-475.9	392,990.05	760,665.94	32° 4' 42.350 N	103° 37' 30.718 W	
13,300.0	90.00	179.51	12,958.0	-23.9	-475.7	392,958.64	760,666.20	32° 4' 42.039 N	103° 37' 30.717 W	
13,400.0	90.00	179.51	12,958.0	-123.9	-474.8	392,858.65	760,667.05	32° 4' 41.049 N	103° 37' 30.715 W	
13,500.0	90.00	179.51	12,958.0	-223.9	-474.0	392,758.65	760,667.90	32° 4' 40.060 N	103° 37' 30.713 W	
13,600.0	90.00	179.51	12,958.0	-323.9	-473.1	392,658.66	760,668.75	32° 4' 39.070 N	103° 37' 30.711 W	
13,700.0	90.00	179.51	12,958.0	-423.8	-472.3	392,558.67	760,669.60	32° 4' 38.081 N	103° 37' 30.708 W	
13,800.0	90.00	179.51	12,958.0	-523.8	-471.4	392,458.67	760,670.45	32° 4' 37.091 N	103° 37' 30.706 W	
13,900.0	90.00	179.51	12,958.0	-623.8	-470.6	392,358.68	760,671.29	32° 4' 36.102 N	103° 37' 30.704 W	
14,000.0	90.00	179.51	12,958.0	-723.8	-469.7	392,258.69	760,672.14	32° 4' 35.112 N	103° 37' 30.702 W	
14,100.0	90.00	179.51	12,958.0	-823.8	-468.9	392,158.70	760,672.99	32° 4' 34.123 N	103° 37' 30.699 W	
14,200.0	90.00	179.51	12,958.0	-923.8	-468.0	392,058.70	760,673.84	32° 4' 33.133 N	103° 37' 30.697 W	
14,300.0	90.00	179.51	12,958.0	-1,023.8	-467.2	391,958.71	760,674.69	32° 4' 32.144 N	103° 37' 30.695 W	
14,400.0	90.00	179.51	12,958.0	-1,123.8	-466.3	391,858.72	760,675.54	32° 4' 31.154 N	103° 37' 30.693 W	
14,500.0	90.00	179.51	12,958.0	-1,223.8	-465.5	391,758.72	760,676.39	32° 4' 30.164 N	103° 37' 30.691 W	
14,600.0	90.00	179.51	12,958.0	-1,323.8	-464.6	391,658.73	760,677.23	32° 4' 29.175 N	103° 37' 30.688 W	
14,700.0	90.00	179.51	12,958.0	-1,423.8	-463.8	391,558.74	760,678.08	32° 4' 28.185 N	103° 37' 30.686 W	
14,800.0	90.00	179.51	12,958.0	-1,523.8	-463.0	391,458.75	760,678.93	32° 4' 27.196 N	103° 37' 30.684 W	
14,900.0	90.00	179.51	12,958.0	-1,623.8	-462.1	391,358.75	760,679.78	32° 4' 26.206 N	103° 37' 30.682 W	
15,000.0	90.00	179.51	12,958.0	-1,723.8	-461.3	391,258.76	760,680.63	32° 4' 25.217 N	103° 37' 30.679 W	
15,100.0	90.00	179.51	12,958.0	-1,823.8	-460.4	391,158.77	760,681.48	32° 4' 24.227 N	103° 37' 30.677 W	
15,200.0	90.00	179.51	12,958.0	-1,923.8	-459.6	391,058.77	760,682.33	32° 4' 23.238 N	103° 37' 30.675 W	
15,300.0	90.00	179.51	12,958.0	-2,023.8	-458.7	390,958.78	760,683.18	32° 4' 22.248 N	103° 37' 30.673 W	
15,400.0	90.00	179.51	12,958.0	-2,123.8	-457.9	390,858.79	760,684.02	32° 4' 21.259 N	103° 37' 30.670 W	
15,500.0	90.00	179.51	12,958.0	-2,223.8	-457.0	390,758.80	760,684.87	32° 4' 20.269 N	103° 37' 30.668 W	
15,600.0	90.00	179.51	12,958.0	-2,323.8	-456.2	390,658.80	760,685.72	32° 4' 19.280 N	103° 37' 30.666 W	
15,700.0	90.00	179.51	12,958.0	-2,423.8	-455.3	390,558.81	760,686.57	32° 4' 18.290 N	103° 37' 30.664 W	
15,800.0	90.00	179.51	12,958.0	-2,523.8	-454.5	390,458.82	760,687.42	32° 4' 17.300 N	103° 37' 30.661 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #52H
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Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3367.0usft (Original Well Elev)
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Well:	Mesa #52H	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	179.51	12,958.0	-2,623.8	-453.6	390,358.82	760,688.27	32° 4' 16.311 N	103° 37' 30.659 W	
16,000.0	90.00	179.51	12,958.0	-2,723.8	-452.8	390,258.83	760,689.12	32° 4' 15.321 N	103° 37' 30.657 W	
16,100.0	90.00	179.51	12,958.0	-2,823.8	-451.9	390,158.84	760,689.96	32° 4' 14.332 N	103° 37' 30.655 W	
16,200.0	90.00	179.51	12,958.0	-2,923.8	-451.1	390,058.85	760,690.81	32° 4' 13.342 N	103° 37' 30.653 W	
16,300.0	90.00	179.51	12,958.0	-3,023.8	-450.2	389,958.85	760,691.66	32° 4' 12.353 N	103° 37' 30.650 W	
16,400.0	90.00	179.51	12,958.0	-3,123.8	-449.4	389,858.86	760,692.51	32° 4' 11.363 N	103° 37' 30.648 W	
16,500.0	90.00	179.51	12,958.0	-3,223.7	-448.5	389,758.87	760,693.36	32° 4' 10.374 N	103° 37' 30.646 W	
16,600.0	90.00	179.51	12,958.0	-3,323.7	-447.7	389,658.87	760,694.21	32° 4' 9.384 N	103° 37' 30.644 W	
16,700.0	90.00	179.51	12,958.0	-3,423.7	-446.8	389,558.88	760,695.06	32° 4' 8.395 N	103° 37' 30.641 W	
16,800.0	90.00	179.51	12,958.0	-3,523.7	-446.0	389,458.89	760,695.91	32° 4' 7.405 N	103° 37' 30.639 W	
16,900.0	90.00	179.51	12,958.0	-3,623.7	-445.1	389,358.90	760,696.75	32° 4' 6.416 N	103° 37' 30.637 W	
17,000.0	90.00	179.51	12,958.0	-3,723.7	-444.3	389,258.90	760,697.60	32° 4' 5.426 N	103° 37' 30.635 W	
17,100.0	90.00	179.51	12,958.0	-3,823.7	-443.4	389,158.91	760,698.45	32° 4' 4.436 N	103° 37' 30.632 W	
17,200.0	90.00	179.51	12,958.0	-3,923.7	-442.6	389,058.92	760,699.30	32° 4' 3.447 N	103° 37' 30.630 W	
17,300.0	90.00	179.51	12,958.0	-4,023.7	-441.7	388,958.92	760,700.15	32° 4' 2.457 N	103° 37' 30.628 W	
17,400.0	90.00	179.51	12,958.0	-4,123.7	-440.9	388,858.93	760,701.00	32° 4' 1.468 N	103° 37' 30.626 W	
17,500.0	90.00	179.51	12,958.0	-4,223.7	-440.0	388,758.94	760,701.85	32° 4' 0.478 N	103° 37' 30.623 W	
17,600.0	90.00	179.51	12,958.0	-4,323.7	-439.2	388,658.95	760,702.69	32° 3' 59.489 N	103° 37' 30.621 W	
17,700.0	90.00	179.51	12,958.0	-4,423.7	-438.3	388,558.95	760,703.54	32° 3' 58.499 N	103° 37' 30.619 W	
17,800.0	90.00	179.51	12,958.0	-4,523.7	-437.5	388,458.96	760,704.39	32° 3' 57.510 N	103° 37' 30.617 W	
17,900.0	90.00	179.51	12,958.0	-4,623.7	-436.6	388,358.97	760,705.24	32° 3' 56.520 N	103° 37' 30.615 W	
18,000.0	90.00	179.51	12,958.0	-4,723.7	-435.8	388,258.97	760,706.09	32° 3' 55.531 N	103° 37' 30.612 W	
18,100.0	90.00	179.51	12,958.0	-4,823.7	-434.9	388,158.98	760,706.94	32° 3' 54.541 N	103° 37' 30.610 W	
18,200.0	90.00	179.51	12,958.0	-4,923.7	-434.1	388,058.99	760,707.79	32° 3' 53.552 N	103° 37' 30.608 W	
18,300.0	90.00	179.51	12,958.0	-5,023.7	-433.2	387,959.00	760,708.63	32° 3' 52.562 N	103° 37' 30.606 W	
18,400.0	90.00	179.51	12,958.0	-5,123.7	-432.4	387,859.00	760,709.48	32° 3' 51.572 N	103° 37' 30.603 W	
18,500.0	90.00	179.51	12,958.0	-5,223.7	-431.6	387,759.01	760,710.33	32° 3' 50.583 N	103° 37' 30.601 W	
18,600.0	90.00	179.51	12,958.0	-5,323.7	-430.7	387,659.02	760,711.18	32° 3' 49.593 N	103° 37' 30.599 W	
18,700.0	90.00	179.51	12,958.0	-5,423.7	-429.9	387,559.02	760,712.03	32° 3' 48.604 N	103° 37' 30.597 W	
18,800.0	90.00	179.51	12,958.0	-5,523.7	-429.0	387,459.03	760,712.88	32° 3' 47.614 N	103° 37' 30.594 W	
18,900.0	90.00	179.51	12,958.0	-5,623.7	-428.2	387,359.04	760,713.73	32° 3' 46.625 N	103° 37' 30.592 W	
19,000.0	90.00	179.51	12,958.0	-5,723.7	-427.3	387,259.05	760,714.58	32° 3' 45.635 N	103° 37' 30.590 W	
19,100.0	90.00	179.51	12,958.0	-5,823.7	-426.5	387,159.05	760,715.42	32° 3' 44.646 N	103° 37' 30.588 W	
19,200.0	90.00	179.51	12,958.0	-5,923.6	-425.6	387,059.06	760,716.27	32° 3' 43.656 N	103° 37' 30.585 W	
19,300.0	90.00	179.51	12,958.0	-6,023.6	-424.8	386,959.07	760,717.12	32° 3' 42.667 N	103° 37' 30.583 W	
19,400.0	90.00	179.51	12,958.0	-6,123.6	-423.9	386,859.07	760,717.97	32° 3' 41.677 N	103° 37' 30.581 W	
19,500.0	90.00	179.51	12,958.0	-6,223.6	-423.1	386,759.08	760,718.82	32° 3' 40.688 N	103° 37' 30.579 W	
19,600.0	90.00	179.51	12,958.0	-6,323.6	-422.2	386,659.09	760,719.67	32° 3' 39.698 N	103° 37' 30.576 W	
19,700.0	90.00	179.51	12,958.0	-6,423.6	-421.4	386,559.10	760,720.52	32° 3' 38.708 N	103° 37' 30.574 W	
19,800.0	90.00	179.51	12,958.0	-6,523.6	-420.5	386,459.10	760,721.36	32° 3' 37.719 N	103° 37' 30.572 W	
19,900.0	90.00	179.51	12,958.0	-6,623.6	-419.7	386,359.11	760,722.21	32° 3' 36.729 N	103° 37' 30.570 W	
20,000.0	90.00	179.51	12,958.0	-6,723.6	-418.8	386,259.12	760,723.06	32° 3' 35.740 N	103° 37' 30.568 W	
20,100.0	90.00	179.51	12,958.0	-6,823.6	-418.0	386,159.12	760,723.91	32° 3' 34.750 N	103° 37' 30.565 W	
20,200.0	90.00	179.51	12,958.0	-6,923.6	-417.1	386,059.13	760,724.76	32° 3' 33.761 N	103° 37' 30.563 W	
20,300.0	90.00	179.51	12,958.0	-7,023.6	-416.3	385,959.14	760,725.61	32° 3' 32.771 N	103° 37' 30.561 W	
20,400.0	90.00	179.51	12,958.0	-7,123.6	-415.4	385,859.15	760,726.46	32° 3' 31.782 N	103° 37' 30.559 W	
20,500.0	90.00	179.51	12,958.0	-7,223.6	-414.6	385,759.15	760,727.30	32° 3' 30.792 N	103° 37' 30.556 W	
20,600.0	90.00	179.51	12,958.0	-7,323.6	-413.7	385,659.16	760,728.15	32° 3' 29.803 N	103° 37' 30.554 W	
20,700.0	90.00	179.51	12,958.0	-7,423.6	-412.9	385,559.17	760,729.00	32° 3' 28.813 N	103° 37' 30.552 W	
20,800.0	90.00	179.51	12,958.0	-7,523.6	-412.0	385,459.17	760,729.85	32° 3' 27.823 N	103° 37' 30.550 W	
20,900.0	90.00	179.51	12,958.0	-7,623.6	-411.2	385,359.18	760,730.70	32° 3' 26.834 N	103° 37' 30.547 W	
21,000.0	90.00	179.51	12,958.0	-7,723.6	-410.3	385,259.19	760,731.55	32° 3' 25.844 N	103° 37' 30.545 W	
21,100.0	90.00	179.51	12,958.0	-7,823.6	-409.5	385,159.20	760,732.40	32° 3' 24.855 N	103° 37' 30.543 W	
21,200.0	90.00	179.51	12,958.0	-7,923.6	-408.6	385,059.20	760,733.25	32° 3' 23.865 N	103° 37' 30.541 W	
21,300.0	90.00	179.51	12,958.0	-8,023.6	-407.8	384,959.21	760,734.09	32° 3' 22.876 N	103° 37' 30.538 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #52H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3367.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3367.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #52H	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	179.51	12,958.0	-8,123.6	-406.9	384,859.22	760,734.94	32° 3' 21.886 N	103° 37' 30.536 W	
21,500.0	90.00	179.51	12,958.0	-8,223.6	-406.1	384,759.22	760,735.79	32° 3' 20.897 N	103° 37' 30.534 W	
21,600.0	90.00	179.51	12,958.0	-8,323.6	-405.2	384,659.23	760,736.64	32° 3' 19.907 N	103° 37' 30.532 W	
21,700.0	90.00	179.51	12,958.0	-8,423.6	-404.4	384,559.24	760,737.49	32° 3' 18.918 N	103° 37' 30.529 W	
21,800.0	90.00	179.51	12,958.0	-8,523.6	-403.5	384,459.25	760,738.34	32° 3' 17.928 N	103° 37' 30.527 W	
21,900.0	90.00	179.51	12,958.0	-8,623.6	-402.7	384,359.25	760,739.19	32° 3' 16.939 N	103° 37' 30.525 W	
22,000.0	90.00	179.51	12,958.0	-8,723.5	-401.8	384,259.26	760,740.03	32° 3' 15.949 N	103° 37' 30.523 W	
22,100.0	90.00	179.51	12,958.0	-8,823.5	-401.0	384,159.27	760,740.88	32° 3' 14.959 N	103° 37' 30.521 W	
22,200.0	90.00	179.51	12,958.0	-8,923.5	-400.1	384,059.27	760,741.73	32° 3' 13.970 N	103° 37' 30.518 W	
22,300.0	90.00	179.51	12,958.0	-9,023.5	-399.3	383,959.28	760,742.58	32° 3' 12.980 N	103° 37' 30.516 W	
22,400.0	90.00	179.51	12,958.0	-9,123.5	-398.5	383,859.29	760,743.43	32° 3' 11.991 N	103° 37' 30.514 W	
22,500.0	90.00	179.51	12,958.0	-9,223.5	-397.6	383,759.30	760,744.28	32° 3' 11.001 N	103° 37' 30.512 W	
22,600.0	90.00	179.51	12,958.0	-9,323.5	-396.8	383,659.30	760,745.13	32° 3' 10.012 N	103° 37' 30.509 W	
22,700.0	90.00	179.51	12,958.0	-9,423.5	-395.9	383,559.31	760,745.97	32° 3' 9.022 N	103° 37' 30.507 W	
22,800.0	90.00	179.51	12,958.0	-9,523.5	-395.1	383,459.32	760,746.82	32° 3' 8.033 N	103° 37' 30.505 W	
22,900.0	90.00	179.51	12,958.0	-9,623.5	-394.2	383,359.32	760,747.67	32° 3' 7.043 N	103° 37' 30.503 W	
23,000.0	90.00	179.51	12,958.0	-9,723.5	-393.4	383,259.33	760,748.52	32° 3' 6.054 N	103° 37' 30.500 W	
23,100.0	90.00	179.51	12,958.0	-9,823.5	-392.5	383,159.34	760,749.37	32° 3' 5.064 N	103° 37' 30.498 W	
23,200.0	90.00	179.51	12,958.0	-9,923.5	-391.7	383,059.35	760,750.22	32° 3' 4.074 N	103° 37' 30.496 W	
23,300.0	90.00	179.51	12,958.0	-10,023.5	-390.8	382,959.35	760,751.07	32° 3' 3.085 N	103° 37' 30.494 W	
23,400.0	90.00	179.51	12,958.0	-10,123.5	-390.0	382,859.36	760,751.92	32° 3' 2.095 N	103° 37' 30.491 W	
23,427.3	90.00	179.51	12,958.0	-10,150.8	-389.7	382,832.08	760,752.15	32° 3' 1.825 N	103° 37' 30.491 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 #52H BHL	0.00	0.00	12,958.0	-10,150.8	-389.7	382,832.08	760,752.15	32° 3' 1.825 N	103° 37' 30.491 W	
- plan hits target center										
- Point										

LEGEND

PROPOSED WELL PAD

ARCH SURVEY LIMITS

PROPOSED LEASE ROAD

SECTION LINE

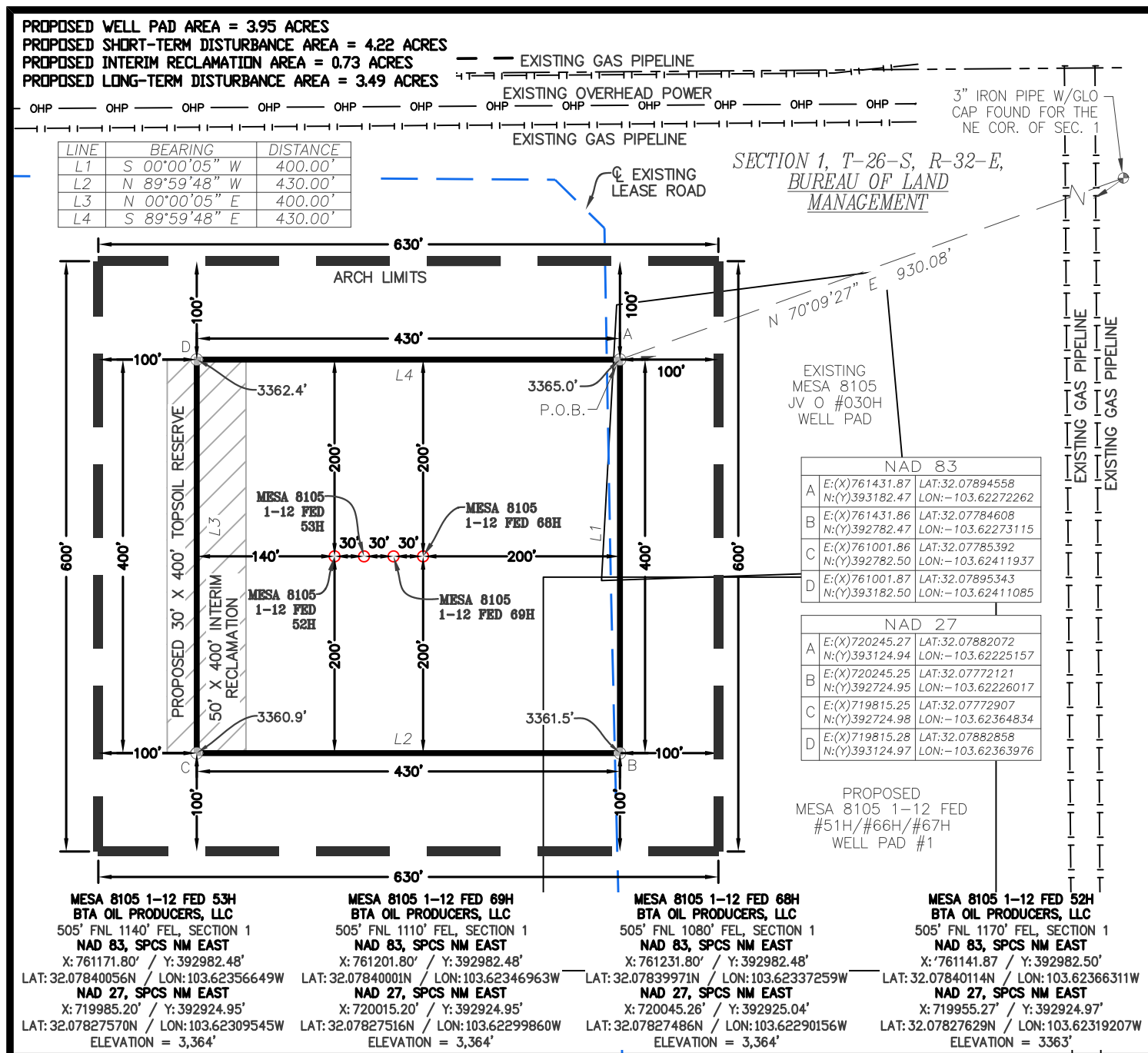
RECLAMATION & TOPSOIL AREA

WELL PAD PLAT

MESA 8105 1-12 FED PAD #2
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

75' 0' 75' 150'

SCALE: 1" = 150'

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_002**

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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 63453

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 63453
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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