

Well Name: MESA 8105 1-12 FEDERAL	Well Location: T26S / R32E / SEC 1 / NENW /	County or Parish/State:
Well Number: 54H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM014492	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548958	Well Status: Approved Application for Permit to Drill	Operator: BTA OIL PRODUCERS LLC

Notice of Intent

Sundry ID: 2644046

Type of Submission: Notice of Intent

Date Sundry Submitted: 11/11/2021

Date proposed operation will begin: 12/31/2021

Type of Action: Other

Time Sundry Submitted: 04:01

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 670 FNL , 1524 FWL , LAT 32.077906 , LONG -103.632377 New SHL Location 470 FNL , 1440 FWL , LAT 32.078476 , LONG - 103.632649

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Mesa_54H_Wall_plot_20211111160050.pdf
- Mesa_54H_directional_plan_20211111160050.pdf
- Mesa_54H_c102___signed_20211111160034.pdf
- MESA_8105_1_12_FED_54H__55H__70H__71H_WELL_PAD_PLAT_20211111160034.pdf
- Mesa_8105_1_12_FED_54H_Drill_Plans_20211111160034.pdf

Well Name: MESA 8105 1-12 FEDERAL	Well Location: T26S / R32E / SEC 1 / NENW /	County or Parish/State:
Well Number: 54H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM014492	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548958	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 04:00 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 30-025-48958	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 54H
⁷ OGRID No. 206297	⁸ Operator Name BTA OIL PRODUCERS, LLC	⁹ Elevation 3349'

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	1	26S	32E		470	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
N	12	26S	32E		50	SOUTH	2310	WEST	LEA

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Sammy Hajar</i> Date: 11/11/2021 Printed Name: Sammy Hajar E-mail Address: SHAJAR@BTAOIL.COM
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. OCTOBER 6, 2021 Date of Survey Signature and Seal of Professional Surveyor: <i>David W. Myers</i>
	SURFACE HOLE LOCATION 470' FNL 1440' FWL, SECTION 1 NAD 83, SPCS NM EAST X:758358.16' / Y:392991.03' LAT:32.07647460N / LON:103.63264996W NAD 27, SPCS NM EAST X:717171.59' / Y:392933.49' LAT:32.07834875N / LON:103.63217861W
	FIRST TAKE POINT 100' FNL 2310' FWL, SECTION 1 NAD 83, SPCS NM EAST X:759218.68' / Y:393369.13' LAT:32.07949854N / LON:103.62986387W NAD 27, SPCS NM EAST X:718032.12' / Y:393311.59' LAT:32.07937369N / LON:103.62939255W
LAST TAKE POINT 100' FSL 2310' FWL, SECTION 12 NAD 83, SPCS NM EAST X:759386.81' / Y:382864.24' LAT:32.05061999N / LON:103.62954224W NAD 27, SPCS NM EAST X:718199.77' / Y:382806.95' LAT:32.05049494N / LON:103.62907260W	BOTTOM HOLE LOCATION 50' FSL 2310' FWL, SECTION 12 NAD 83, SPCS NM EAST X:759387.03' / Y:382814.24' LAT:32.05048255N / LON:103.62954256W NAD 27, SPCS NM EAST X:718200.00' / Y:382756.95' LAT:32.05035749N / LON:103.62907293W
SHEET 1 OF 1 JOB No. R4168.003 REV 1 DEF 10/1/2021	Certificate Number DAVID W. MYERS 11403

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 #54H
TVD: 12949
MD: 23440

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	8066	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8066	12489	8000	12422	yes	29.7	P110	FJ	1.6	1.6	2.5	2.6	Dry	9.4
6 3/4	5 1/2	0	12289	0	12222	Yes	20	P110	Buttress	1.8	1.4	2.6	2.7	Dry	14
6 3/4	5	12289	23440	12222	12949	Yes	18	P110	Buttress	1.8	1.3	1.4	1.4	Dry	14

*7 5/8" has DV Tool @ 4814'

Dv Tool Depth 4814

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	4390	Class C	705	2.19	12.7	1543.95	50%	0.5% CaCl2
	Stg 2 Tail		4390	4814	Class C	150	1.33	14.8	199.5	50%	1% CaCl2
	Stg 1 Lead		4814	8940	Class H	420	2.64	10.5	1108.8	25%	0.5% CaCl2
	Stg 1 Tail		8940	12489	Class H	400	1.19	15.6	476	25%	1% CaCl2
5 1/2	Lead										
	Tail		11490	12289							
5	Lead										
	Tail		12289	23440	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
Choke Hose
Multi Bowl Wellhead

Pressure Rating: 10M Rating Depth: 14000 Requesting Variance?

Pressure

Anticipated Bottom Hole Pressure: 9,427 psi

Anticipated Bottom Hole Temperature: 185 °F

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

Anticipated Bottom Surface Pressure: 6,578 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	12489	DBE	9.0 – 9.4
12489	12949	OBM	11.0 – 14.0

BTA Oil Producers, LLC

T

G

M



Azimuths to Grid North

True North: -0.37°

Magnetic North: 7.39°

Magnetic Field

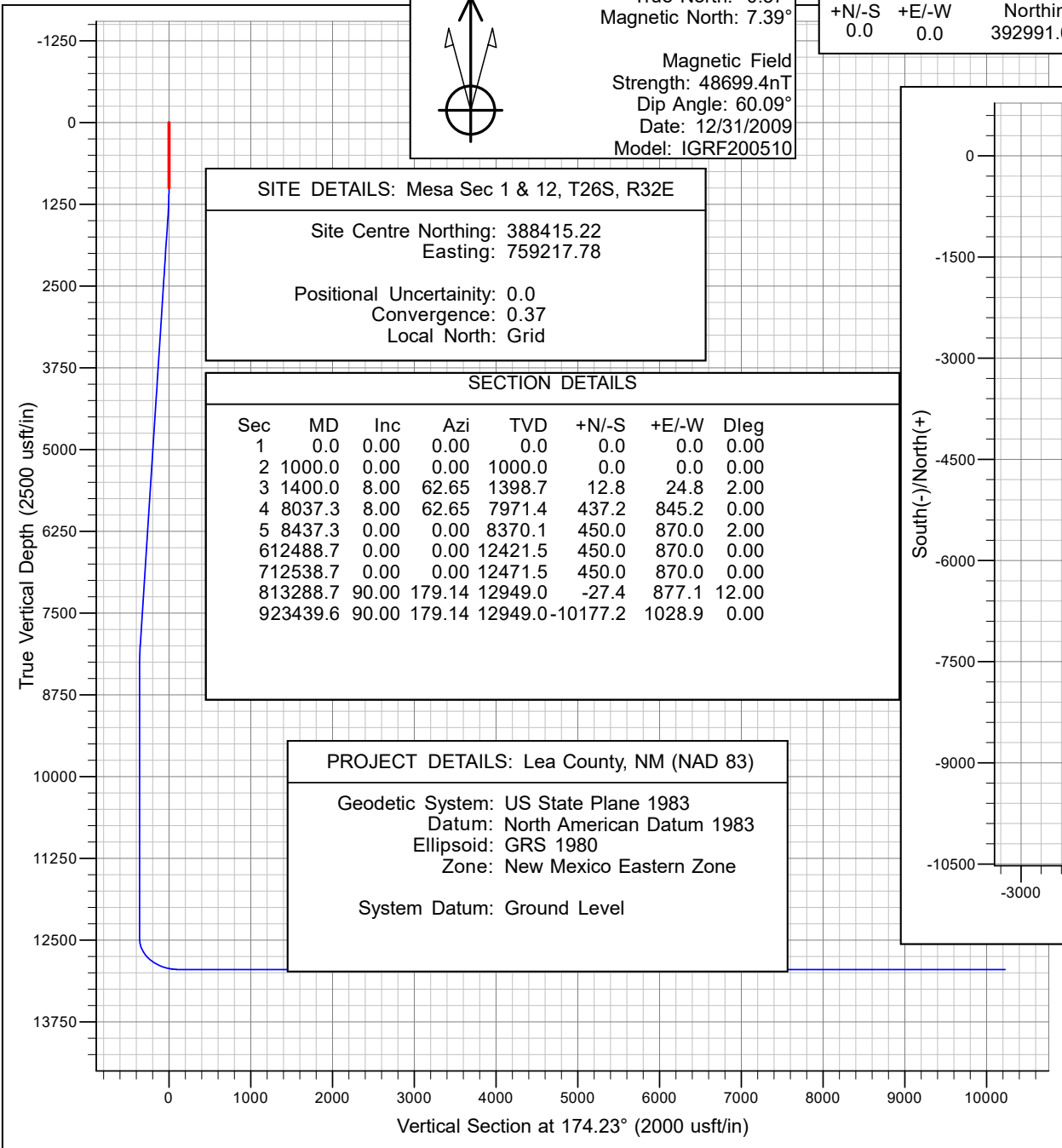
Strength: 48699.4nT

Dip Angle: 60.09°

Date: 12/31/2009

Model: IGRF200510

WELL DETAILS: Mesa #54H					
+N/-S	+E/-W	Northing	Ground Level Easting	3349.0 Latitude	Longitude
0.0	0.0	392991.03	758358.16	32° 4' 42.509 N	103° 37' 57.540 W



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

Site Centre Northing: 388415.22
Easting: 759217.78

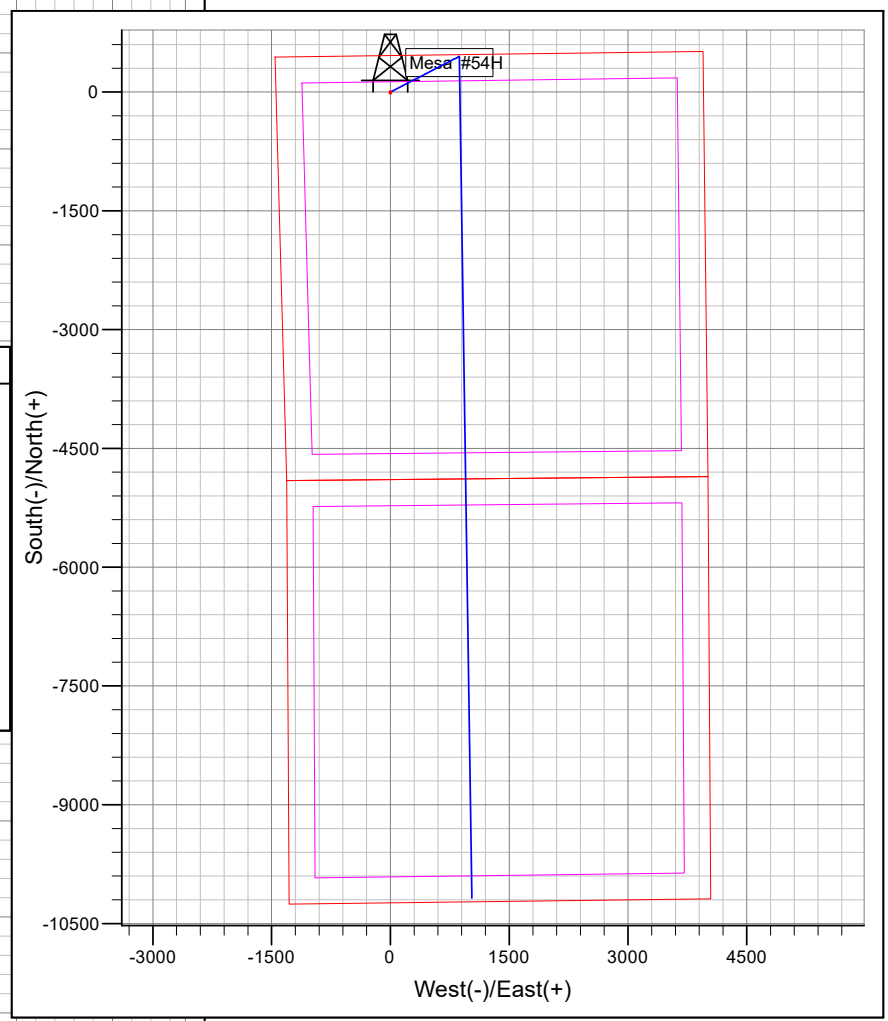
Positional Uncertainty: 0.0
Convergence: 0.37
Local North: Grid

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	1400.0	8.00	62.65	1398.7	12.8	24.8	2.00
4	8037.3	8.00	62.65	7971.4	437.2	845.2	0.00
5	8437.3	0.00	0.00	8370.1	450.0	870.0	2.00
6	12488.7	0.00	0.00	12421.5	450.0	870.0	0.00
7	12538.7	0.00	0.00	12471.5	450.0	870.0	0.00
8	13288.7	90.00	179.14	12949.0	-27.4	877.1	12.00
9	23439.6	90.00	179.14	12949.0	-10177.2	1028.9	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 #54H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

11 November, 2021

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #54H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3351.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3351.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #54H	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 #54H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
Grid Convergence:	0.37 °	Latitude:	32° 4' 42.509 N
		Longitude:	103° 37' 57.540 W
		Ground Level:	3,349.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.77	60.09	48,699.36115877

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	174.23

Plan Survey Tool Program	Date	11/11/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,439.6 Design #1 (Wellbore #1)		

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #54H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3351.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3351.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #54H	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	
1,400.0	8.00	62.65	1,398.7	12.8	24.8	2.00	2.00	0.00	62.65	
8,037.3	8.00	62.65	7,971.4	437.2	845.2	0.00	0.00	0.00	0.00	
8,437.3	0.00	0.00	8,370.1	450.0	870.0	2.00	-2.00	0.00	180.00	
12,488.7	0.00	0.00	12,421.5	450.0	870.0	0.00	0.00	0.00	0.00	
12,538.7	0.00	0.00	12,471.5	450.0	870.0	0.00	0.00	0.00	0.00	
13,288.7	90.00	179.14	12,949.0	-27.4	877.1	12.00	12.00	0.00	179.14	
23,439.6	90.00	179.14	12,949.0	-10,177.2	1,028.9	0.00	0.00	0.00	0.00	Mesa #54H BHL

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #54H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3351.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3351.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #54H	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	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
100.0	0.00	0.00	100.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
200.0	0.00	0.00	200.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
300.0	0.00	0.00	300.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
400.0	0.00	0.00	400.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
500.0	0.00	0.00	500.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
600.0	0.00	0.00	600.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
700.0	0.00	0.00	700.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
800.0	0.00	0.00	800.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
900.0	0.00	0.00	900.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	392,991.03	758,358.16	32° 4' 42.509 N	103° 37' 57.540 W	
1,100.0	2.00	62.65	1,100.0	0.8	1.6	392,991.83	758,359.71	32° 4' 42.516 N	103° 37' 57.522 W	
1,200.0	4.00	62.65	1,199.8	3.2	6.2	392,994.23	758,364.36	32° 4' 42.540 N	103° 37' 57.468 W	
1,300.0	6.00	62.65	1,299.5	7.2	13.9	392,998.24	758,372.10	32° 4' 42.579 N	103° 37' 57.377 W	
1,400.0	8.00	62.65	1,398.7	12.8	24.8	393,003.84	758,382.92	32° 4' 42.634 N	103° 37' 57.251 W	
1,500.0	8.00	62.65	1,497.7	19.2	37.1	393,010.23	758,395.28	32° 4' 42.696 N	103° 37' 57.107 W	
1,600.0	8.00	62.65	1,596.8	25.6	49.5	393,016.62	758,407.64	32° 4' 42.759 N	103° 37' 56.963 W	
1,700.0	8.00	62.65	1,695.8	32.0	61.8	393,023.02	758,420.00	32° 4' 42.821 N	103° 37' 56.819 W	
1,800.0	8.00	62.65	1,794.8	38.4	74.2	393,029.41	758,432.36	32° 4' 42.884 N	103° 37' 56.674 W	
1,900.0	8.00	62.65	1,893.8	44.8	86.6	393,035.81	758,444.73	32° 4' 42.946 N	103° 37' 56.530 W	
2,000.0	8.00	62.65	1,992.9	51.2	98.9	393,042.20	758,457.09	32° 4' 43.009 N	103° 37' 56.386 W	
2,100.0	8.00	62.65	2,091.9	57.6	111.3	393,048.59	758,469.45	32° 4' 43.071 N	103° 37' 56.242 W	
2,200.0	8.00	62.65	2,190.9	64.0	123.7	393,054.99	758,481.81	32° 4' 43.134 N	103° 37' 56.098 W	
2,300.0	8.00	62.65	2,289.9	70.4	136.0	393,061.38	758,494.17	32° 4' 43.196 N	103° 37' 55.954 W	
2,400.0	8.00	62.65	2,389.0	76.7	148.4	393,067.77	758,506.53	32° 4' 43.258 N	103° 37' 55.810 W	
2,500.0	8.00	62.65	2,488.0	83.1	160.7	393,074.17	758,518.89	32° 4' 43.321 N	103° 37' 55.665 W	
2,600.0	8.00	62.65	2,587.0	89.5	173.1	393,080.56	758,531.25	32° 4' 43.383 N	103° 37' 55.521 W	
2,700.0	8.00	62.65	2,686.1	95.9	185.5	393,086.96	758,543.61	32° 4' 43.446 N	103° 37' 55.377 W	
2,800.0	8.00	62.65	2,785.1	102.3	197.8	393,093.35	758,555.98	32° 4' 43.508 N	103° 37' 55.233 W	
2,900.0	8.00	62.65	2,884.1	108.7	210.2	393,099.74	758,568.34	32° 4' 43.571 N	103° 37' 55.089 W	
3,000.0	8.00	62.65	2,983.1	115.1	222.5	393,106.14	758,580.70	32° 4' 43.633 N	103° 37' 54.945 W	
3,100.0	8.00	62.65	3,082.2	121.5	234.9	393,112.53	758,593.06	32° 4' 43.696 N	103° 37' 54.801 W	
3,200.0	8.00	62.65	3,181.2	127.9	247.3	393,118.92	758,605.42	32° 4' 43.758 N	103° 37' 54.656 W	
3,300.0	8.00	62.65	3,280.2	134.3	259.6	393,125.32	758,617.78	32° 4' 43.821 N	103° 37' 54.512 W	
3,400.0	8.00	62.65	3,379.2	140.7	272.0	393,131.71	758,630.14	32° 4' 43.883 N	103° 37' 54.368 W	
3,500.0	8.00	62.65	3,478.3	147.1	284.4	393,138.10	758,642.50	32° 4' 43.946 N	103° 37' 54.224 W	
3,600.0	8.00	62.65	3,577.3	153.5	296.7	393,144.50	758,654.86	32° 4' 44.008 N	103° 37' 54.080 W	
3,700.0	8.00	62.65	3,676.3	159.9	309.1	393,150.89	758,667.23	32° 4' 44.071 N	103° 37' 53.936 W	
3,800.0	8.00	62.65	3,775.3	166.3	321.4	393,157.29	758,679.59	32° 4' 44.133 N	103° 37' 53.792 W	
3,900.0	8.00	62.65	3,874.4	172.7	333.8	393,163.68	758,691.95	32° 4' 44.196 N	103° 37' 53.647 W	
4,000.0	8.00	62.65	3,973.4	179.1	346.2	393,170.07	758,704.31	32° 4' 44.258 N	103° 37' 53.503 W	
4,100.0	8.00	62.65	4,072.4	185.4	358.5	393,176.47	758,716.67	32° 4' 44.321 N	103° 37' 53.359 W	
4,200.0	8.00	62.65	4,171.5	191.8	370.9	393,182.86	758,729.03	32° 4' 44.383 N	103° 37' 53.215 W	
4,300.0	8.00	62.65	4,270.5	198.2	383.2	393,189.25	758,741.39	32° 4' 44.445 N	103° 37' 53.071 W	
4,400.0	8.00	62.65	4,369.5	204.6	395.6	393,195.65	758,753.75	32° 4' 44.508 N	103° 37' 52.927 W	
4,500.0	8.00	62.65	4,468.5	211.0	408.0	393,202.04	758,766.11	32° 4' 44.570 N	103° 37' 52.782 W	
4,600.0	8.00	62.65	4,567.6	217.4	420.3	393,208.44	758,778.48	32° 4' 44.633 N	103° 37' 52.638 W	
4,700.0	8.00	62.65	4,666.6	223.8	432.7	393,214.83	758,790.84	32° 4' 44.695 N	103° 37' 52.494 W	
4,800.0	8.00	62.65	4,765.6	230.2	445.1	393,221.22	758,803.20	32° 4' 44.758 N	103° 37' 52.350 W	
4,900.0	8.00	62.65	4,864.6	236.6	457.4	393,227.62	758,815.56	32° 4' 44.820 N	103° 37' 52.206 W	
5,000.0	8.00	62.65	4,963.7	243.0	469.8	393,234.01	758,827.92	32° 4' 44.883 N	103° 37' 52.062 W	
5,100.0	8.00	62.65	5,062.7	249.4	482.1	393,240.40	758,840.28	32° 4' 44.945 N	103° 37' 51.918 W	
5,200.0	8.00	62.65	5,161.7	255.8	494.5	393,246.80	758,852.64	32° 4' 45.008 N	103° 37' 51.773 W	
5,300.0	8.00	62.65	5,260.7	262.2	506.9	393,253.19	758,865.00	32° 4' 45.070 N	103° 37' 51.629 W	
5,400.0	8.00	62.65	5,359.8	268.6	519.2	393,259.58	758,877.37	32° 4' 45.133 N	103° 37' 51.485 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #54H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3351.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3351.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #54H	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	
5,500.0	8.00	62.65	5,458.8	275.0	531.6	393,265.98	758,889.73	32° 4' 45.195 N	103° 37' 51.341 W	
5,600.0	8.00	62.65	5,557.8	281.4	544.0	393,272.37	758,902.09	32° 4' 45.258 N	103° 37' 51.197 W	
5,700.0	8.00	62.65	5,656.9	287.7	556.3	393,278.77	758,914.45	32° 4' 45.320 N	103° 37' 51.053 W	
5,800.0	8.00	62.65	5,755.9	294.1	568.7	393,285.16	758,926.81	32° 4' 45.383 N	103° 37' 50.908 W	
5,900.0	8.00	62.65	5,854.9	300.5	581.0	393,291.55	758,939.17	32° 4' 45.445 N	103° 37' 50.764 W	
6,000.0	8.00	62.65	5,953.9	306.9	593.4	393,297.95	758,951.53	32° 4' 45.508 N	103° 37' 50.620 W	
6,100.0	8.00	62.65	6,053.0	313.3	605.8	393,304.34	758,963.89	32° 4' 45.570 N	103° 37' 50.476 W	
6,200.0	8.00	62.65	6,152.0	319.7	618.1	393,310.73	758,976.25	32° 4' 45.632 N	103° 37' 50.332 W	
6,300.0	8.00	62.65	6,251.0	326.1	630.5	393,317.13	758,988.62	32° 4' 45.695 N	103° 37' 50.188 W	
6,400.0	8.00	62.65	6,350.0	332.5	642.8	393,323.52	759,000.98	32° 4' 45.757 N	103° 37' 50.044 W	
6,500.0	8.00	62.65	6,449.1	338.9	655.2	393,329.92	759,013.34	32° 4' 45.820 N	103° 37' 49.899 W	
6,600.0	8.00	62.65	6,548.1	345.3	667.6	393,336.31	759,025.70	32° 4' 45.882 N	103° 37' 49.755 W	
6,700.0	8.00	62.65	6,647.1	351.7	679.9	393,342.70	759,038.06	32° 4' 45.945 N	103° 37' 49.611 W	
6,800.0	8.00	62.65	6,746.1	358.1	692.3	393,349.10	759,050.42	32° 4' 46.007 N	103° 37' 49.467 W	
6,900.0	8.00	62.65	6,845.2	364.5	704.7	393,355.49	759,062.78	32° 4' 46.070 N	103° 37' 49.323 W	
7,000.0	8.00	62.65	6,944.2	370.9	717.0	393,361.88	759,075.14	32° 4' 46.132 N	103° 37' 49.179 W	
7,100.0	8.00	62.65	7,043.2	377.3	729.4	393,368.28	759,087.50	32° 4' 46.195 N	103° 37' 49.035 W	
7,200.0	8.00	62.65	7,142.3	383.7	741.7	393,374.67	759,099.87	32° 4' 46.257 N	103° 37' 48.890 W	
7,300.0	8.00	62.65	7,241.3	390.1	754.1	393,381.06	759,112.23	32° 4' 46.320 N	103° 37' 48.746 W	
7,400.0	8.00	62.65	7,340.3	396.4	766.5	393,387.46	759,124.59	32° 4' 46.382 N	103° 37' 48.602 W	
7,500.0	8.00	62.65	7,439.3	402.8	778.8	393,393.85	759,136.95	32° 4' 46.445 N	103° 37' 48.458 W	
7,600.0	8.00	62.65	7,538.4	409.2	791.2	393,400.25	759,149.31	32° 4' 46.507 N	103° 37' 48.314 W	
7,700.0	8.00	62.65	7,637.4	415.6	803.5	393,406.64	759,161.67	32° 4' 46.570 N	103° 37' 48.170 W	
7,800.0	8.00	62.65	7,736.4	422.0	815.9	393,413.03	759,174.03	32° 4' 46.632 N	103° 37' 48.025 W	
7,900.0	8.00	62.65	7,835.4	428.4	828.3	393,419.43	759,186.39	32° 4' 46.694 N	103° 37' 47.881 W	
8,000.0	8.00	62.65	7,934.5	434.8	840.6	393,425.82	759,198.75	32° 4' 46.757 N	103° 37' 47.737 W	
8,037.3	8.00	62.65	7,971.4	437.2	845.2	393,428.20	759,203.36	32° 4' 46.780 N	103° 37' 47.683 W	
8,100.0	6.75	62.65	8,033.6	440.9	852.4	393,431.90	759,210.51	32° 4' 46.816 N	103° 37' 47.600 W	
8,200.0	4.75	62.65	8,133.1	445.5	861.3	393,436.50	759,219.40	32° 4' 46.861 N	103° 37' 47.496 W	
8,300.0	2.75	62.65	8,232.9	448.5	867.1	393,439.50	759,225.20	32° 4' 46.891 N	103° 37' 47.429 W	
8,400.0	0.75	62.65	8,332.8	449.9	869.8	393,440.90	759,227.91	32° 4' 46.904 N	103° 37' 47.397 W	
8,437.3	0.00	0.00	8,370.1	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
8,500.0	0.00	0.00	8,432.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
8,600.0	0.00	0.00	8,532.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
8,700.0	0.00	0.00	8,632.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
8,800.0	0.00	0.00	8,732.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
8,900.0	0.00	0.00	8,832.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,000.0	0.00	0.00	8,932.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,100.0	0.00	0.00	9,032.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,200.0	0.00	0.00	9,132.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,300.0	0.00	0.00	9,232.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,400.0	0.00	0.00	9,332.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,500.0	0.00	0.00	9,432.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,600.0	0.00	0.00	9,532.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,700.0	0.00	0.00	9,632.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,800.0	0.00	0.00	9,732.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
9,900.0	0.00	0.00	9,832.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
10,000.0	0.00	0.00	9,932.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
10,100.0	0.00	0.00	10,032.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
10,200.0	0.00	0.00	10,132.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
10,300.0	0.00	0.00	10,232.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
10,400.0	0.00	0.00	10,332.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
10,500.0	0.00	0.00	10,432.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
10,600.0	0.00	0.00	10,532.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	
10,700.0	0.00	0.00	10,632.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N	103° 37' 47.395 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #54H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3351.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3351.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #54H	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
10,800.0	0.00	0.00	10,732.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
10,900.0	0.00	0.00	10,832.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,000.0	0.00	0.00	10,932.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,100.0	0.00	0.00	11,032.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,200.0	0.00	0.00	11,132.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,300.0	0.00	0.00	11,232.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,400.0	0.00	0.00	11,332.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,500.0	0.00	0.00	11,432.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,600.0	0.00	0.00	11,532.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,700.0	0.00	0.00	11,632.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,800.0	0.00	0.00	11,732.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
11,900.0	0.00	0.00	11,832.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,000.0	0.00	0.00	11,932.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,100.0	0.00	0.00	12,032.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,200.0	0.00	0.00	12,132.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,300.0	0.00	0.00	12,232.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,400.0	0.00	0.00	12,332.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,488.7	0.00	0.00	12,421.5	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,500.0	0.00	0.00	12,432.8	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,538.7	0.00	0.00	12,471.5	450.0	870.0	393,441.01	759,228.12	32° 4' 46.905 N		103° 37' 47.395 W
12,600.0	7.35	179.14	12,532.6	446.1	870.1	393,437.09	759,228.18	32° 4' 46.867 N		103° 37' 47.394 W
12,700.0	19.35	179.14	12,629.8	423.0	870.4	393,414.04	759,228.53	32° 4' 46.638 N		103° 37' 47.392 W
12,800.0	31.35	179.14	12,720.0	380.3	871.0	393,371.30	759,229.17	32° 4' 46.216 N		103° 37' 47.388 W
12,900.0	43.35	179.14	12,799.3	319.7	871.9	393,310.75	759,230.07	32° 4' 45.616 N		103° 37' 47.382 W
13,000.0	55.35	179.14	12,864.3	244.0	873.1	393,235.03	759,231.20	32° 4' 44.867 N		103° 37' 47.374 W
13,100.0	67.35	179.14	12,912.2	156.4	874.4	393,147.44	759,232.51	32° 4' 44.000 N		103° 37' 47.366 W
13,200.0	79.35	179.14	12,940.8	60.8	875.8	393,051.82	759,233.94	32° 4' 43.054 N		103° 37' 47.357 W
13,288.7	90.00	179.14	12,949.0	-27.4	877.1	392,963.62	759,235.26	32° 4' 42.181 N		103° 37' 47.348 W
13,300.0	90.00	179.14	12,949.0	-38.7	877.3	392,952.35	759,235.43	32° 4' 42.069 N		103° 37' 47.347 W
13,400.0	90.00	179.14	12,949.0	-138.7	878.8	392,852.36	759,236.93	32° 4' 41.080 N		103° 37' 47.337 W
13,500.0	90.00	179.14	12,949.0	-238.7	880.3	392,752.38	759,238.42	32° 4' 40.090 N		103° 37' 47.327 W
13,600.0	90.00	179.14	12,949.0	-338.7	881.8	392,652.39	759,239.92	32° 4' 39.101 N		103° 37' 47.317 W
13,700.0	90.00	179.14	12,949.0	-438.6	883.3	392,552.41	759,241.41	32° 4' 38.111 N		103° 37' 47.308 W
13,800.0	90.00	179.14	12,949.0	-538.6	884.8	392,452.42	759,242.91	32° 4' 37.122 N		103° 37' 47.298 W
13,900.0	90.00	179.14	12,949.0	-638.6	886.3	392,352.43	759,244.40	32° 4' 36.132 N		103° 37' 47.288 W
14,000.0	90.00	179.14	12,949.0	-738.6	887.8	392,252.45	759,245.90	32° 4' 35.143 N		103° 37' 47.278 W
14,100.0	90.00	179.14	12,949.0	-838.6	889.3	392,152.46	759,247.39	32° 4' 34.153 N		103° 37' 47.268 W
14,200.0	90.00	179.14	12,949.0	-938.6	890.8	392,052.48	759,248.89	32° 4' 33.164 N		103° 37' 47.259 W
14,300.0	90.00	179.14	12,949.0	-1,038.6	892.3	391,952.49	759,250.38	32° 4' 32.174 N		103° 37' 47.249 W
14,400.0	90.00	179.14	12,949.0	-1,138.6	893.8	391,852.51	759,251.88	32° 4' 31.185 N		103° 37' 47.239 W
14,500.0	90.00	179.14	12,949.0	-1,238.6	895.2	391,752.52	759,253.37	32° 4' 30.195 N		103° 37' 47.229 W
14,600.0	90.00	179.14	12,949.0	-1,338.5	896.7	391,652.54	759,254.87	32° 4' 29.206 N		103° 37' 47.219 W
14,700.0	90.00	179.14	12,949.0	-1,438.5	898.2	391,552.55	759,256.36	32° 4' 28.216 N		103° 37' 47.210 W
14,800.0	90.00	179.14	12,949.0	-1,538.5	899.7	391,452.57	759,257.86	32° 4' 27.227 N		103° 37' 47.200 W
14,900.0	90.00	179.14	12,949.0	-1,638.5	901.2	391,352.58	759,259.35	32° 4' 26.237 N		103° 37' 47.190 W
15,000.0	90.00	179.14	12,949.0	-1,738.5	902.7	391,252.60	759,260.85	32° 4' 25.248 N		103° 37' 47.180 W
15,100.0	90.00	179.14	12,949.0	-1,838.5	904.2	391,152.61	759,262.34	32° 4' 24.258 N		103° 37' 47.170 W
15,200.0	90.00	179.14	12,949.0	-1,938.5	905.7	391,052.63	759,263.84	32° 4' 23.269 N		103° 37' 47.161 W
15,300.0	90.00	179.14	12,949.0	-2,038.5	907.2	390,952.64	759,265.33	32° 4' 22.279 N		103° 37' 47.151 W
15,400.0	90.00	179.14	12,949.0	-2,138.4	908.7	390,852.66	759,266.83	32° 4' 21.290 N		103° 37' 47.141 W
15,500.0	90.00	179.14	12,949.0	-2,238.4	910.2	390,752.67	759,268.32	32° 4' 20.300 N		103° 37' 47.131 W
15,600.0	90.00	179.14	12,949.0	-2,338.4	911.7	390,652.69	759,269.82	32° 4' 19.311 N		103° 37' 47.121 W
15,700.0	90.00	179.14	12,949.0	-2,438.4	913.2	390,552.70	759,271.31	32° 4' 18.321 N		103° 37' 47.112 W
15,800.0	90.00	179.14	12,949.0	-2,538.4	914.7	390,452.72	759,272.81	32° 4' 17.332 N		103° 37' 47.102 W
15,900.0	90.00	179.14	12,949.0	-2,638.4	916.2	390,352.73	759,274.30	32° 4' 16.342 N		103° 37' 47.092 W

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #54H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3351.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3351.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #54H	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	
16,000.0	90.00	179.14	12,949.0	-2,738.4	917.7	390,252.75	759,275.80	32° 4' 15.353 N	103° 37' 47.082 W	
16,100.0	90.00	179.14	12,949.0	-2,838.4	919.2	390,152.76	759,277.29	32° 4' 14.363 N	103° 37' 47.072 W	
16,200.0	90.00	179.14	12,949.0	-2,938.4	920.7	390,052.78	759,278.79	32° 4' 13.374 N	103° 37' 47.063 W	
16,300.0	90.00	179.14	12,949.0	-3,038.3	922.2	389,952.79	759,280.28	32° 4' 12.384 N	103° 37' 47.053 W	
16,400.0	90.00	179.14	12,949.0	-3,138.3	923.7	389,852.81	759,281.78	32° 4' 11.395 N	103° 37' 47.043 W	
16,500.0	90.00	179.14	12,949.0	-3,238.3	925.2	389,752.82	759,283.27	32° 4' 10.405 N	103° 37' 47.033 W	
16,600.0	90.00	179.14	12,949.0	-3,338.3	926.6	389,652.84	759,284.77	32° 4' 9.416 N	103° 37' 47.023 W	
16,700.0	90.00	179.14	12,949.0	-3,438.3	928.1	389,552.85	759,286.26	32° 4' 8.426 N	103° 37' 47.014 W	
16,800.0	90.00	179.14	12,949.0	-3,538.3	929.6	389,452.87	759,287.76	32° 4' 7.437 N	103° 37' 47.004 W	
16,900.0	90.00	179.14	12,949.0	-3,638.3	931.1	389,352.88	759,289.25	32° 4' 6.447 N	103° 37' 46.994 W	
17,000.0	90.00	179.14	12,949.0	-3,738.3	932.6	389,252.90	759,290.75	32° 4' 5.458 N	103° 37' 46.984 W	
17,100.0	90.00	179.14	12,949.0	-3,838.3	934.1	389,152.91	759,292.24	32° 4' 4.468 N	103° 37' 46.974 W	
17,200.0	90.00	179.14	12,949.0	-3,938.2	935.6	389,052.93	759,293.74	32° 4' 3.479 N	103° 37' 46.965 W	
17,300.0	90.00	179.14	12,949.0	-4,038.2	937.1	388,952.94	759,295.23	32° 4' 2.489 N	103° 37' 46.955 W	
17,400.0	90.00	179.14	12,949.0	-4,138.2	938.6	388,852.96	759,296.73	32° 4' 1.500 N	103° 37' 46.945 W	
17,500.0	90.00	179.14	12,949.0	-4,238.2	940.1	388,752.97	759,298.23	32° 4' 0.510 N	103° 37' 46.935 W	
17,600.0	90.00	179.14	12,949.0	-4,338.2	941.6	388,652.99	759,299.72	32° 3' 59.521 N	103° 37' 46.925 W	
17,700.0	90.00	179.14	12,949.0	-4,438.2	943.1	388,553.00	759,301.22	32° 3' 58.531 N	103° 37' 46.916 W	
17,800.0	90.00	179.14	12,949.0	-4,538.2	944.6	388,453.01	759,302.71	32° 3' 57.542 N	103° 37' 46.906 W	
17,900.0	90.00	179.14	12,949.0	-4,638.2	946.1	388,353.03	759,304.21	32° 3' 56.552 N	103° 37' 46.896 W	
18,000.0	90.00	179.14	12,949.0	-4,738.2	947.6	388,253.04	759,305.70	32° 3' 55.563 N	103° 37' 46.886 W	
18,100.0	90.00	179.14	12,949.0	-4,838.1	949.1	388,153.06	759,307.20	32° 3' 54.573 N	103° 37' 46.876 W	
18,200.0	90.00	179.14	12,949.0	-4,938.1	950.6	388,053.07	759,308.69	32° 3' 53.584 N	103° 37' 46.867 W	
18,300.0	90.00	179.14	12,949.0	-5,038.1	952.1	387,953.09	759,310.19	32° 3' 52.594 N	103° 37' 46.857 W	
18,400.0	90.00	179.14	12,949.0	-5,138.1	953.6	387,853.10	759,311.68	32° 3' 51.605 N	103° 37' 46.847 W	
18,500.0	90.00	179.14	12,949.0	-5,238.1	955.1	387,753.12	759,313.18	32° 3' 50.615 N	103° 37' 46.837 W	
18,600.0	90.00	179.14	12,949.0	-5,338.1	956.5	387,653.13	759,314.67	32° 3' 49.626 N	103° 37' 46.827 W	
18,700.0	90.00	179.14	12,949.0	-5,438.1	958.0	387,553.15	759,316.17	32° 3' 48.636 N	103° 37' 46.818 W	
18,800.0	90.00	179.14	12,949.0	-5,538.1	959.5	387,453.16	759,317.66	32° 3' 47.647 N	103° 37' 46.808 W	
18,900.0	90.00	179.14	12,949.0	-5,638.1	961.0	387,353.18	759,319.16	32° 3' 46.657 N	103° 37' 46.798 W	
19,000.0	90.00	179.14	12,949.0	-5,738.0	962.5	387,253.19	759,320.65	32° 3' 45.668 N	103° 37' 46.788 W	
19,100.0	90.00	179.14	12,949.0	-5,838.0	964.0	387,153.21	759,322.15	32° 3' 44.678 N	103° 37' 46.778 W	
19,200.0	90.00	179.14	12,949.0	-5,938.0	965.5	387,053.22	759,323.64	32° 3' 43.689 N	103° 37' 46.769 W	
19,300.0	90.00	179.14	12,949.0	-6,038.0	967.0	386,953.24	759,325.14	32° 3' 42.699 N	103° 37' 46.759 W	
19,400.0	90.00	179.14	12,949.0	-6,138.0	968.5	386,853.25	759,326.63	32° 3' 41.710 N	103° 37' 46.749 W	
19,500.0	90.00	179.14	12,949.0	-6,238.0	970.0	386,753.27	759,328.13	32° 3' 40.720 N	103° 37' 46.739 W	
19,600.0	90.00	179.14	12,949.0	-6,338.0	971.5	386,653.28	759,329.62	32° 3' 39.730 N	103° 37' 46.729 W	
19,700.0	90.00	179.14	12,949.0	-6,438.0	973.0	386,553.30	759,331.12	32° 3' 38.741 N	103° 37' 46.720 W	
19,800.0	90.00	179.14	12,949.0	-6,538.0	974.5	386,453.31	759,332.61	32° 3' 37.751 N	103° 37' 46.710 W	
19,900.0	90.00	179.14	12,949.0	-6,637.9	976.0	386,353.33	759,334.11	32° 3' 36.762 N	103° 37' 46.700 W	
20,000.0	90.00	179.14	12,949.0	-6,737.9	977.5	386,253.34	759,335.60	32° 3' 35.772 N	103° 37' 46.690 W	
20,100.0	90.00	179.14	12,949.0	-6,837.9	979.0	386,153.36	759,337.10	32° 3' 34.783 N	103° 37' 46.680 W	
20,200.0	90.00	179.14	12,949.0	-6,937.9	980.5	386,053.37	759,338.59	32° 3' 33.793 N	103° 37' 46.671 W	
20,300.0	90.00	179.14	12,949.0	-7,037.9	982.0	385,953.39	759,340.09	32° 3' 32.804 N	103° 37' 46.661 W	
20,400.0	90.00	179.14	12,949.0	-7,137.9	983.5	385,853.40	759,341.58	32° 3' 31.814 N	103° 37' 46.651 W	
20,500.0	90.00	179.14	12,949.0	-7,237.9	985.0	385,753.42	759,343.08	32° 3' 30.825 N	103° 37' 46.641 W	
20,600.0	90.00	179.14	12,949.0	-7,337.9	986.5	385,653.43	759,344.57	32° 3' 29.835 N	103° 37' 46.631 W	
20,700.0	90.00	179.14	12,949.0	-7,437.9	987.9	385,553.45	759,346.07	32° 3' 28.846 N	103° 37' 46.622 W	
20,800.0	90.00	179.14	12,949.0	-7,537.8	989.4	385,453.46	759,347.56	32° 3' 27.856 N	103° 37' 46.612 W	
20,900.0	90.00	179.14	12,949.0	-7,637.8	990.9	385,353.48	759,349.06	32° 3' 26.867 N	103° 37' 46.602 W	
21,000.0	90.00	179.14	12,949.0	-7,737.8	992.4	385,253.49	759,350.55	32° 3' 25.877 N	103° 37' 46.592 W	
21,100.0	90.00	179.14	12,949.0	-7,837.8	993.9	385,153.51	759,352.05	32° 3' 24.888 N	103° 37' 46.583 W	
21,200.0	90.00	179.14	12,949.0	-7,937.8	995.4	385,053.52	759,353.54	32° 3' 23.898 N	103° 37' 46.573 W	
21,300.0	90.00	179.14	12,949.0	-8,037.8	996.9	384,953.54	759,355.04	32° 3' 22.909 N	103° 37' 46.563 W	
21,400.0	90.00	179.14	12,949.0	-8,137.8	998.4	384,853.55	759,356.53	32° 3' 21.919 N	103° 37' 46.553 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Mesa #54H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3351.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3351.0usft (Original Well Elev)
Site:	Mesa Sec 1 & 12, T26S, R32E	North Reference:	Grid
Well:	Mesa #54H	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	
21,500.0	90.00	179.14	12,949.0	-8,237.8	999.9	384,753.57	759,358.03	32° 3' 20.930 N	103° 37' 46.543 W	
21,600.0	90.00	179.14	12,949.0	-8,337.8	1,001.4	384,653.58	759,359.52	32° 3' 19.940 N	103° 37' 46.534 W	
21,700.0	90.00	179.14	12,949.0	-8,437.7	1,002.9	384,553.59	759,361.02	32° 3' 18.951 N	103° 37' 46.524 W	
21,800.0	90.00	179.14	12,949.0	-8,537.7	1,004.4	384,453.61	759,362.51	32° 3' 17.961 N	103° 37' 46.514 W	
21,900.0	90.00	179.14	12,949.0	-8,637.7	1,005.9	384,353.62	759,364.01	32° 3' 16.972 N	103° 37' 46.504 W	
22,000.0	90.00	179.14	12,949.0	-8,737.7	1,007.4	384,253.64	759,365.50	32° 3' 15.982 N	103° 37' 46.494 W	
22,100.0	90.00	179.14	12,949.0	-8,837.7	1,008.9	384,153.65	759,367.00	32° 3' 14.993 N	103° 37' 46.485 W	
22,200.0	90.00	179.14	12,949.0	-8,937.7	1,010.4	384,053.67	759,368.49	32° 3' 14.003 N	103° 37' 46.475 W	
22,300.0	90.00	179.14	12,949.0	-9,037.7	1,011.9	383,953.68	759,369.99	32° 3' 13.014 N	103° 37' 46.465 W	
22,400.0	90.00	179.14	12,949.0	-9,137.7	1,013.4	383,853.70	759,371.48	32° 3' 12.024 N	103° 37' 46.455 W	
22,500.0	90.00	179.14	12,949.0	-9,237.7	1,014.9	383,753.71	759,372.98	32° 3' 11.035 N	103° 37' 46.445 W	
22,600.0	90.00	179.14	12,949.0	-9,337.6	1,016.4	383,653.73	759,374.47	32° 3' 10.045 N	103° 37' 46.436 W	
22,700.0	90.00	179.14	12,949.0	-9,437.6	1,017.8	383,553.74	759,375.97	32° 3' 9.056 N	103° 37' 46.426 W	
22,800.0	90.00	179.14	12,949.0	-9,537.6	1,019.3	383,453.76	759,377.46	32° 3' 8.066 N	103° 37' 46.416 W	
22,900.0	90.00	179.14	12,949.0	-9,637.6	1,020.8	383,353.77	759,378.96	32° 3' 7.077 N	103° 37' 46.406 W	
23,000.0	90.00	179.14	12,949.0	-9,737.6	1,022.3	383,253.79	759,380.45	32° 3' 6.087 N	103° 37' 46.396 W	
23,100.0	90.00	179.14	12,949.0	-9,837.6	1,023.8	383,153.80	759,381.95	32° 3' 5.098 N	103° 37' 46.387 W	
23,200.0	90.00	179.14	12,949.0	-9,937.6	1,025.3	383,053.82	759,383.44	32° 3' 4.108 N	103° 37' 46.377 W	
23,300.0	90.00	179.14	12,949.0	-10,037.6	1,026.8	382,953.83	759,384.94	32° 3' 3.119 N	103° 37' 46.367 W	
23,400.0	90.00	179.14	12,949.0	-10,137.6	1,028.3	382,853.85	759,386.43	32° 3' 2.129 N	103° 37' 46.357 W	
23,439.6	90.00	179.14	12,949.0	-10,177.2	1,028.9	382,814.24	759,387.03	32° 3' 1.737 N	103° 37' 46.353 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 #54H BHL - plan hits target center - Point	0.00	0.00	12,949.0	-10,177.2	1,028.9	382,814.24	759,387.03	32° 3' 1.737 N	103° 37' 46.353 W	

LEGEND

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

WELL PAD PLAT

MESA 8105 1-12 FED PAD #3

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



PROPOSED WELL PAD AREA = 3.95 ACRES
 PROPOSED SHORT-TERM DISTURBANCE AREA = 4.22 ACRES
 PROPOSED INTERIM RECLAMATION AREA = 0.73 ACRES
 PROPOSED LONG-TERM DISTURBANCE AREA = 3.49 ACRES

SECTION 1, T-26-S, R-32-E,
 BUREAU OF LAND
 MANAGEMENT

EXISTING
 MESA 8105 1-12
 FEDERAL #042H/#043H
 WELL PAD

LINE	BEARING	DISTANCE
L1	S 00°13'01" E	400.00'
L2	S 89°42'32" W	430.00'
L3	N 00°13'01" W	400.00'
L4	N 89°42'32" E	430.00'

NAD 83

A	E:(X)758647.40 N:(Y)393192.68	LAT:32.07902373 LON:-103.63171193
B	E:(X)758648.92 N:(Y)392792.68	LAT:32.07792421 LON:-103.63171544
C	E:(X)758218.92 N:(Y)392790.50	LAT:32.07792588 LON:-103.63310369
D	E:(X)758217.41 N:(Y)393190.50	LAT:32.07902541 LON:-103.63310020

NAD 27

A	E:(X)717460.84 N:(Y)393135.14	LAT:32.07889889 LON:-103.63124059
B	E:(X)717462.34 N:(Y)392735.15	LAT:32.07779935 LON:-103.63124414
C	E:(X)717032.34 N:(Y)392732.97	LAT:32.07780103 LON:-103.63263236
D	E:(X)717030.85 N:(Y)393132.96	LAT:32.07890058 LON:-103.63262879

PROPOSED
 MESA 8105 1-12 FED
 #57H/#73H/#72H
 WELL PAD #4

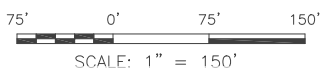
MESA 8105 1-12 FED 54H
 BTA OIL PRODUCERS, LLC
 470' FNL 1440' FWL, SECTION 1
 NAD 83, SPCS NM EAST
 X: 758358.16' / Y: 392991.03'
 LAT: 32.07847460N / LON: 103.63264996W
 NAD 27, SPCS NM EAST
 X: 717171.59' / Y: 392933.49'
 LAT: 32.07834975N / LON: 103.63217861W
 ELEVATION = 3349'

MESA 8105 1-12 FED 55H
 BTA OIL PRODUCERS, LLC
 470' FNL 1470' FWL, SECTION 1
 NAD 83, SPCS NM EAST
 X: 758388.14' / Y: 392991.64'
 LAT: 32.07847576N / LON: 103.63255316W
 NAD 27, SPCS NM EAST
 X: 717201.57' / Y: 392934.10'
 LAT: 32.07835091N / LON: 103.63208182W
 ELEVATION = 3,350'

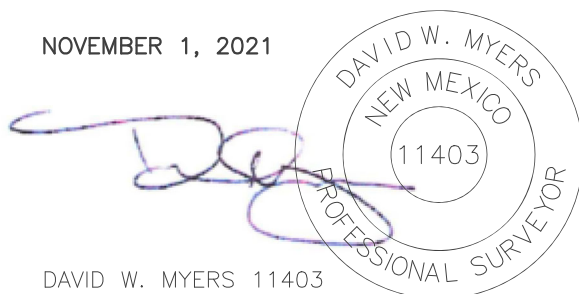
MESA 8105 1-12 FED 71H
 BTA OIL PRODUCERS, LLC
 470' FNL 1500' FWL, SECTION 1
 NAD 83, SPCS NM EAST
 X: 758418.14' / Y: 392991.64'
 LAT: 32.07847522N / LON: 103.63245631W
 NAD 27, SPCS NM EAST
 X: 717231.57' / Y: 392934.10'
 LAT: 32.07835037N / LON: 103.63198497W
 ELEVATION = 3,352'

MESA 8105 1-12 FED 70H
 BTA OIL PRODUCERS, LLC
 470' FNL 1530' FWL, SECTION 1
 NAD 83, SPCS NM EAST
 X: 758448.14' / Y: 392991.64'
 LAT: 32.07847469N / LON: 103.63235945W
 NAD 27, SPCS NM EAST
 X: 717261.57' / Y: 392934.10'
 LAT: 32.07834984N / LON: 103.63188812W
 ELEVATION = 3,352'

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

4	10/20/2021	DEF
REV.	DATE	BY

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_003

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 63459

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 63459
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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