

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural ResourcesForm C-104
Revised August 1, 2011Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

¹ Operator name and Address BTA OIL PRODUCERS, LLC 104 S. PECOS; MIDLAND, TX. 79701		² OGRID Number 260297	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 – 025-48958	⁵ Pool Name WC-025; Wolfcamp		⁶ Pool Code 98158
⁷ Property Code 327174	⁸ Property Name MESA 8105 1-12 FEDERAL		⁹ Well Number 54H

II. ¹⁰ Surface Location

UL or lot no C	Section 1	26S	Range 32E	Lot Idn	Feet from the 470	North/South Line NORTH	Feet from the 1440	East/West line WEST	County LEA
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¹¹ Bottom Hole Location

UL or lot no N	Section 12	Township 26S	Range 32E	Lot Idn	Feet from the 36	North/South line SOUTH	Feet from the 2328	East/West line WEST	County LEA
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 09/26/2023	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	PLAINS MARKETING LP P O BOX 4648 HOUSTON, TX 77210-4648	
371058	ETC FIELD SERVICES LLC 8111 WESTCHESTER DR., STE 600 DALLAS, TX. 75225	

IV. Well Completion Data

²¹ Spud Date 04/06/2022	²² Ready Date 09/26/2023	²³ TD 23,523	²⁴ PBDT 23,518	²⁵ Perforations 13,300 – 23,455	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14 3/4	10 3/4	911	645		
8 3/4	7 5/8	12,529	1875		
6 3/4	5 1/2	12,319	1850		
6 3/4	5	23,518	1850		

V. Well Test Data

³¹ Date New Oil 09/26/2023	³² Gas Delivery Date 9/26/2023	³³ Test Date 10/06/2023	³⁴ Test Length	³⁵ Tbg. Pressure 3000	³⁶ Csg. Pressure
³⁷ Choke Size 18/64	³⁸ Oil 80	³⁹ Water 2731	⁴⁰ Gas 416		⁴¹ Test Method FLOWING

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Katy Reddell

OIL CONSERVATION DIVISION

Approved by:

Printed name:

KATY REDDELL

Title:

Title: REGULATORY ANALYST

Approval Date:

E-mail Address:

kreddell@btaoil.com

Date:

10/06/2023

Phone:

432-682-3753

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
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-48958	² Pool Code 98158	³ Pool Name WC-025; WOLFCAMP
⁴ Property Code 327174	Property Name MESA 8105 1-12 FED	
⁷ OGRID No. 206297	⁸ Operator Name BTA OIL PRODUCERS, LLC	⁶ Well Number 54H
		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	36E		470	NORTH	1440	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

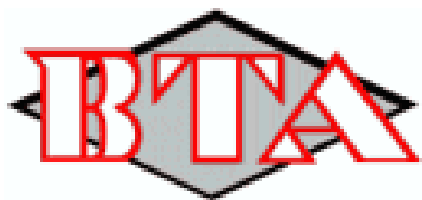
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	12	26S	36E		36	SOUTH	2328	WEST	LEA

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.

	SURFACE HOLE LOCATION 470' FNL 1440' FWL, SECTION 1 NAD 83, SPCS NM EAST X:758358.16' / Y:392991.03' LAT:32.07847461N / LON:-103.63264996W 0' MEASURED DEPTH IN FEET NAD 27, SPCS NM EAST X:717171.59' / Y:392933.49' LAT:32.07834976N / LON:103.63217862W	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. Katy Reddell 10/06/2023 Signature _____ Date _____ KATY REDDELL Printed Name _____ kreddell@btaoil.com E-mail Address _____
	KICK OFF POINT/FIRST TAKE POINT 464' FNL 2295' FWL, SECTION 1 NAD 83, SPCS NM EAST X:759213.24' / Y:393004.76' LAT:32.07849705N / LON:-103.62988910W 13300' MEASURED DEPTH IN FEET NAD 27, SPCS NM EAST X:718026.66' / Y:392947.22' LAT:32.07849705N / LON:103.62988910W	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by Delta Field Services, LLC. OCTOBER 12, 2023 Date of Survey _____ Signature and Seal of Professional Surveyor: _____
	LAST TAKE POINT 109' FSL 2329' FWL, SECTION 12 NAD 83, SPCS NM EAST X:759405.77' / Y:382873.06' LAT:32.05064390N / LON:-103.62948084W 23455' MEASURED DEPTH IN FEET NAD 27, SPCS NM EAST X:718218.74' / Y:382815.78' LAT:32.05051885N / LON:103.62901122W	Lloyd P. Short Certificate Number LLOYD P. SHORT 21653
	BOTTOM HOLE LOCATION 36' FSL 2328' FWL, SECTION 12 NAD 83, SPCS NM EAST X:759405.59' / Y:382800.09' LAT:32.05044333N / LON:-103.62948297W 23523' MEASURED DEPTH IN FEET NAD 27, SPCS NM EAST X:718218.55' / Y:382742.81' LAT:32.05031828N / LON:103.62901334W	

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99981493 Convergence Angle: 0.3968833°



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Sec 1, T26-S, R32-E

Mesa 8105 1-12 Fed #54H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

07 June, 2022





KLX Directional Drilling

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Mesa 8105 1-12 Fed #54H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Patterson #288)
Site:	Sec 1, T26-S, R32-E	MD Reference:	WELL @ 3374.0usft (Patterson #288)
Well:	Mesa 8105 1-12 Fed #54H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 1, T26-S, R32-E		
Site Position:		Northing:	393,099.20 usft
From:	Map	Easting:	760,413.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 43.446 N
		Longitude:	103° 37' 33.646 W
		Grid Convergence:	0.38 °

Well	Mesa 8105 1-12 Fed #54H		
Well Position	+N/-S	0.0 usft	Northing: 392,991.03 usft
	+E/-W	0.0 usft	Easting: 758,358.16 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		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)
	HDGM2022	3/28/2022	6.38	59.63	47,475.20000000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	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	

Survey Program	Date	6/7/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
146.0	23,523.0	KLX MWD (Wellbore #1)	MWD	OWSG MWD - Standard	

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
146.0	0.60	304.50	146.0	0.4	-0.6	392,991.46	758,357.53	32° 4' 42.513 N	103° 37' 57.547 W
First MWD Survey @ 146.0' MD / 146.0' TVD									
230.0	0.30	354.30	230.0	0.9	-1.0	392,991.93	758,357.14	32° 4' 42.518 N	103° 37' 57.552 W
317.0	0.80	123.70	317.0	0.8	-0.5	392,991.82	758,357.63	32° 4' 42.516 N	103° 37' 57.546 W
435.0	1.50	145.20	435.0	-0.9	1.0	392,990.09	758,359.19	32° 4' 42.499 N	103° 37' 57.528 W
588.0	1.50	165.90	587.9	-4.5	2.7	392,986.51	758,360.82	32° 4' 42.464 N	103° 37' 57.509 W
682.0	1.50	163.50	681.9	-6.9	3.3	392,984.13	758,361.47	32° 4' 42.440 N	103° 37' 57.502 W
777.0	1.30	168.40	776.9	-9.1	3.9	392,981.89	758,362.04	32° 4' 42.418 N	103° 37' 57.495 W
887.0	1.50	204.80	886.8	-11.7	3.5	392,979.36	758,361.69	32° 4' 42.393 N	103° 37' 57.500 W
957.0	1.30	183.00	956.8	-13.3	3.1	392,977.73	758,361.26	32° 4' 42.377 N	103° 37' 57.505 W
1,052.0	1.00	79.80	1,051.8	-14.2	3.9	392,976.80	758,362.02	32° 4' 42.368 N	103° 37' 57.496 W



KLX Directional Drilling

Survey Report - Geographic



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Well:	Mesa 8105 1-12 Fed #54H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,146.0	1.00	67.60	1,145.8	-13.8	5.4	392,977.26	758,363.59	32° 4' 42.372 N	103° 37' 57.478 W
1,241.0	1.10	67.50	1,240.8	-13.1	7.0	392,977.93	758,365.20	32° 4' 42.378 N	103° 37' 57.459 W
1,336.0	1.80	20.50	1,335.7	-11.4	8.4	392,979.67	758,366.56	32° 4' 42.396 N	103° 37' 57.443 W
1,432.0	2.20	12.20	1,431.7	-8.1	9.3	392,982.89	758,367.48	32° 4' 42.427 N	103° 37' 57.432 W
1,526.0	2.40	17.60	1,525.6	-4.5	10.3	392,986.53	758,368.46	32° 4' 42.463 N	103° 37' 57.421 W
1,621.0	1.90	337.80	1,620.5	-1.1	10.3	392,989.88	758,368.46	32° 4' 42.497 N	103° 37' 57.420 W
1,716.0	2.40	323.40	1,715.5	1.9	8.5	392,992.93	758,366.68	32° 4' 42.527 N	103° 37' 57.441 W
1,811.0	2.50	317.90	1,810.4	5.0	5.9	392,996.07	758,364.11	32° 4' 42.558 N	103° 37' 57.470 W
1,906.0	2.70	318.20	1,905.3	8.2	3.1	392,999.27	758,361.23	32° 4' 42.590 N	103° 37' 57.504 W
2,001.0	2.00	343.70	2,000.2	11.5	1.1	393,002.53	758,359.27	32° 4' 42.622 N	103° 37' 57.526 W
2,095.0	1.60	353.80	2,094.2	14.4	0.5	393,005.41	758,358.67	32° 4' 42.651 N	103° 37' 57.533 W
2,190.0	3.60	1.50	2,189.1	18.7	0.4	393,009.71	758,358.60	32° 4' 42.693 N	103° 37' 57.533 W
2,285.0	4.00	2.40	2,283.9	25.0	0.7	393,016.01	758,358.82	32° 4' 42.756 N	103° 37' 57.530 W
2,379.0	4.20	1.30	2,377.6	31.7	0.9	393,022.72	758,359.03	32° 4' 42.822 N	103° 37' 57.527 W
2,475.0	5.80	22.20	2,473.3	39.7	2.8	393,030.73	758,360.95	32° 4' 42.901 N	103° 37' 57.504 W
2,570.0	8.20	45.20	2,567.6	48.9	9.4	393,039.95	758,367.57	32° 4' 42.992 N	103° 37' 57.427 W
2,665.0	10.00	62.80	2,661.4	57.5	21.6	393,048.50	758,379.72	32° 4' 43.076 N	103° 37' 57.285 W
2,761.0	10.80	68.10	2,755.8	64.6	37.3	393,055.66	758,395.48	32° 4' 43.146 N	103° 37' 57.101 W
2,856.0	9.10	72.90	2,849.4	70.2	52.8	393,061.19	758,410.92	32° 4' 43.199 N	103° 37' 56.921 W
2,950.0	6.80	71.10	2,942.5	74.2	65.1	393,065.18	758,423.29	32° 4' 43.238 N	103° 37' 56.777 W
3,045.0	6.50	71.40	3,036.8	77.7	75.5	393,068.72	758,433.70	32° 4' 43.273 N	103° 37' 56.656 W
3,140.0	7.60	50.50	3,131.1	83.4	85.5	393,074.43	758,443.65	32° 4' 43.328 N	103° 37' 56.540 W
3,235.0	8.10	46.90	3,225.2	92.0	95.2	393,083.00	758,453.39	32° 4' 43.413 N	103° 37' 56.426 W
3,330.0	8.00	61.90	3,319.3	99.7	105.9	393,090.69	758,464.10	32° 4' 43.488 N	103° 37' 56.301 W
3,426.0	8.20	67.00	3,414.3	105.5	118.1	393,096.51	758,476.30	32° 4' 43.545 N	103° 37' 56.159 W
3,521.0	8.00	55.80	3,508.4	111.8	129.8	393,102.87	758,488.00	32° 4' 43.607 N	103° 37' 56.022 W
3,615.0	8.00	52.30	3,601.5	119.5	140.4	393,110.55	758,498.59	32° 4' 43.682 N	103° 37' 55.899 W
3,710.0	8.70	60.80	3,695.5	127.1	151.9	393,118.10	758,510.09	32° 4' 43.756 N	103° 37' 55.764 W
3,805.0	8.20	62.30	3,789.4	133.7	164.2	393,124.75	758,522.36	32° 4' 43.821 N	103° 37' 55.621 W
3,900.0	8.10	61.30	3,883.5	140.1	176.1	393,131.11	758,534.23	32° 4' 43.883 N	103° 37' 55.483 W
3,995.0	7.70	59.20	3,977.6	146.6	187.4	393,137.59	758,545.57	32° 4' 43.947 N	103° 37' 55.351 W
4,054.7	8.14	61.86	4,036.7	150.6	194.6	393,141.63	758,552.73	32° 4' 43.986 N	103° 37' 55.267 W
280 VHL Crossed @ 4054.7' MD / 4036.7' TVD									
4,090.0	8.40	63.30	4,071.7	152.9	199.1	393,143.96	758,557.24	32° 4' 44.009 N	103° 37' 55.215 W
4,185.0	8.30	68.50	4,165.6	158.6	211.7	393,149.59	758,569.81	32° 4' 44.064 N	103° 37' 55.068 W
4,280.0	8.50	70.90	4,259.6	163.4	224.7	393,154.40	758,582.83	32° 4' 44.111 N	103° 37' 54.916 W
4,375.0	8.50	73.50	4,353.6	167.7	238.0	393,158.70	758,596.20	32° 4' 44.152 N	103° 37' 54.761 W
4,470.0	8.70	72.20	4,447.5	171.9	251.6	393,162.89	758,609.77	32° 4' 44.193 N	103° 37' 54.603 W
4,565.0	8.90	78.20	4,541.4	175.6	265.6	393,166.59	758,623.80	32° 4' 44.229 N	103° 37' 54.439 W
4,660.0	8.50	68.90	4,635.3	179.6	279.4	393,170.62	758,637.55	32° 4' 44.268 N	103° 37' 54.279 W
4,755.0	8.40	64.90	4,729.3	185.1	292.2	393,176.09	758,650.38	32° 4' 44.321 N	103° 37' 54.130 W
4,850.0	8.10	64.70	4,823.3	190.9	304.6	393,181.89	758,662.72	32° 4' 44.378 N	103° 37' 53.986 W
4,945.0	8.50	65.40	4,917.3	196.6	317.0	393,187.67	758,675.15	32° 4' 44.434 N	103° 37' 53.841 W
5,039.0	8.80	66.90	5,010.2	202.4	329.9	393,193.39	758,688.08	32° 4' 44.490 N	103° 37' 53.690 W
5,134.0	9.00	66.80	5,104.1	208.1	343.4	393,199.17	758,701.59	32° 4' 44.546 N	103° 37' 53.533 W
5,229.0	9.20	68.90	5,197.9	213.8	357.4	393,204.83	758,715.51	32° 4' 44.601 N	103° 37' 53.370 W
5,324.0	9.50	68.90	5,291.6	219.4	371.8	393,210.38	758,729.91	32° 4' 44.655 N	103° 37' 53.203 W
5,417.0	9.50	68.60	5,383.4	224.9	386.1	393,215.95	758,744.21	32° 4' 44.709 N	103° 37' 53.036 W
5,512.0	9.70	68.50	5,477.0	230.7	400.8	393,221.74	758,758.96	32° 4' 44.766 N	103° 37' 52.864 W
5,607.0	10.00	69.40	5,570.6	236.5	416.0	393,227.57	758,774.13	32° 4' 44.823 N	103° 37' 52.687 W
5,702.0	10.20	69.90	5,664.2	242.3	431.6	393,233.37	758,789.75	32° 4' 44.879 N	103° 37' 52.505 W
5,797.0	10.00	68.00	5,757.7	248.3	447.1	393,239.35	758,805.29	32° 4' 44.937 N	103° 37' 52.324 W
5,892.0	9.90	68.20	5,851.3	254.4	462.4	393,245.47	758,820.53	32° 4' 44.997 N	103° 37' 52.147 W
5,987.0	9.80	68.00	5,944.9	260.5	477.4	393,251.53	758,835.60	32° 4' 45.056 N	103° 37' 51.971 W
6,081.0	9.40	60.10	6,037.5	267.3	491.5	393,258.36	758,849.68	32° 4' 45.122 N	103° 37' 51.807 W



KLX Directional Drilling

Survey Report - Geographic



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Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Patterson #288)
Site:	Sec 1, T26-S, R32-E	MD Reference:	WELL @ 3374.0usft (Patterson #288)
Well:	Mesa 8105 1-12 Fed #54H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,175.0	9.40	57.60	6,130.3	275.3	504.7	393,266.30	758,862.81	32° 4' 45.200 N	103° 37' 51.654 W
6,270.0	9.60	56.50	6,224.0	283.8	517.8	393,274.82	758,875.97	32° 4' 45.284 N	103° 37' 51.500 W
6,365.0	10.00	58.10	6,317.6	292.5	531.4	393,283.56	758,889.58	32° 4' 45.369 N	103° 37' 51.341 W
6,460.0	10.20	59.20	6,411.1	301.2	545.6	393,292.22	758,903.80	32° 4' 45.454 N	103° 37' 51.175 W
6,554.0	9.50	61.50	6,503.7	309.2	559.6	393,300.18	758,917.77	32° 4' 45.532 N	103° 37' 51.012 W
6,649.0	9.10	60.00	6,597.5	316.7	573.0	393,307.68	758,931.17	32° 4' 45.605 N	103° 37' 50.856 W
6,744.0	9.10	60.80	6,691.3	324.1	586.1	393,315.10	758,944.23	32° 4' 45.678 N	103° 37' 50.704 W
6,839.0	9.10	60.30	6,785.1	331.5	599.2	393,322.49	758,957.31	32° 4' 45.750 N	103° 37' 50.551 W
6,934.0	9.60	61.80	6,878.8	338.9	612.7	393,329.96	758,970.82	32° 4' 45.823 N	103° 37' 50.394 W
7,029.0	9.10	70.90	6,972.6	345.1	626.7	393,336.16	758,984.90	32° 4' 45.883 N	103° 37' 50.229 W
7,124.0	9.10	71.80	7,066.4	349.9	641.0	393,340.96	758,999.14	32° 4' 45.930 N	103° 37' 50.064 W
7,219.0	8.00	68.80	7,160.3	354.7	654.3	393,345.70	759,012.44	32° 4' 45.976 N	103° 37' 49.909 W
7,313.0	7.60	68.10	7,253.4	359.4	666.1	393,350.38	759,024.30	32° 4' 46.022 N	103° 37' 49.770 W
7,408.0	7.70	66.90	7,347.6	364.2	677.8	393,355.22	759,035.99	32° 4' 46.069 N	103° 37' 49.634 W
7,503.0	7.30	64.90	7,441.8	369.3	689.1	393,360.28	759,047.31	32° 4' 46.118 N	103° 37' 49.502 W
7,555.0	7.25	64.63	7,493.4	372.1	695.1	393,363.09	759,053.26	32° 4' 46.146 N	103° 37' 49.433 W
100' PA Crossed @ 7555.0' MD / 7493.4' TVD									
7,598.0	7.20	64.40	7,536.0	374.4	700.0	393,365.41	759,058.14	32° 4' 46.168 N	103° 37' 49.376 W
7,692.0	7.50	67.90	7,629.3	379.2	711.0	393,370.27	759,069.14	32° 4' 46.216 N	103° 37' 49.248 W
7,787.0	7.00	66.30	7,723.5	383.9	722.0	393,374.93	759,080.18	32° 4' 46.261 N	103° 37' 49.119 W
7,882.0	6.70	66.00	7,817.8	388.5	732.4	393,379.51	759,090.55	32° 4' 46.306 N	103° 37' 48.998 W
7,977.0	6.80	68.10	7,912.2	392.8	742.7	393,383.86	759,100.83	32° 4' 46.348 N	103° 37' 48.879 W
8,072.0	6.70	66.70	8,006.5	397.1	753.0	393,388.15	759,111.14	32° 4' 46.390 N	103° 37' 48.758 W
8,167.0	6.50	67.00	8,100.9	401.4	763.0	393,392.44	759,121.18	32° 4' 46.432 N	103° 37' 48.641 W
8,262.0	6.50	66.40	8,195.3	405.7	772.9	393,396.70	759,131.05	32° 4' 46.473 N	103° 37' 48.526 W
8,357.0	6.10	67.90	8,289.7	409.7	782.5	393,400.75	759,140.66	32° 4' 46.513 N	103° 37' 48.414 W
8,451.0	6.00	67.60	8,383.2	413.5	791.7	393,404.50	759,149.83	32° 4' 46.549 N	103° 37' 48.307 W
8,546.0	5.80	69.20	8,477.7	417.1	800.7	393,408.10	759,158.90	32° 4' 46.584 N	103° 37' 48.202 W
8,641.0	5.40	69.60	8,572.2	420.3	809.4	393,411.36	759,167.58	32° 4' 46.616 N	103° 37' 48.101 W
8,736.0	5.10	68.90	8,666.8	423.4	817.6	393,414.44	759,175.71	32° 4' 46.646 N	103° 37' 48.006 W
8,829.0	4.70	69.40	8,759.5	426.2	825.0	393,417.27	759,183.13	32° 4' 46.673 N	103° 37' 47.919 W
8,923.0	3.90	70.30	8,853.2	428.7	831.6	393,419.70	759,189.75	32° 4' 46.697 N	103° 37' 47.842 W
9,018.0	2.40	84.10	8,948.1	430.0	836.6	393,420.99	759,194.77	32° 4' 46.709 N	103° 37' 47.784 W
9,113.0	0.70	120.60	9,043.0	429.9	839.1	393,420.90	759,197.25	32° 4' 46.708 N	103° 37' 47.755 W
9,207.0	0.20	104.40	9,137.0	429.5	839.7	393,420.57	759,197.90	32° 4' 46.705 N	103° 37' 47.747 W
9,302.0	0.20	192.80	9,232.0	429.3	839.9	393,420.36	759,198.02	32° 4' 46.703 N	103° 37' 47.746 W
9,396.0	0.60	232.40	9,326.0	428.9	839.4	393,419.90	759,197.60	32° 4' 46.698 N	103° 37' 47.751 W
9,491.0	0.80	250.30	9,421.0	428.3	838.4	393,419.38	759,196.58	32° 4' 46.693 N	103° 37' 47.763 W
9,586.0	0.80	256.70	9,516.0	428.0	837.2	393,419.00	759,195.31	32° 4' 46.690 N	103° 37' 47.778 W
9,680.0	1.10	272.80	9,610.0	427.9	835.6	393,418.89	759,193.77	32° 4' 46.689 N	103° 37' 47.796 W
9,775.0	1.60	256.80	9,705.0	427.6	833.4	393,418.64	759,191.57	32° 4' 46.686 N	103° 37' 47.821 W
9,870.0	1.00	286.80	9,799.9	427.5	831.3	393,418.57	759,189.48	32° 4' 46.686 N	103° 37' 47.845 W
9,965.0	1.10	239.80	9,894.9	427.3	829.7	393,418.35	759,187.90	32° 4' 46.684 N	103° 37' 47.864 W
10,059.0	1.10	217.20	9,988.9	426.2	828.4	393,417.18	759,186.58	32° 4' 46.672 N	103° 37' 47.879 W
10,154.0	0.40	182.90	10,083.9	425.1	827.9	393,416.12	759,186.01	32° 4' 46.662 N	103° 37' 47.886 W
10,248.0	0.30	216.80	10,177.9	424.6	827.7	393,415.60	759,185.84	32° 4' 46.657 N	103° 37' 47.888 W
10,343.0	0.70	260.90	10,272.9	424.3	827.0	393,415.31	759,185.12	32° 4' 46.654 N	103° 37' 47.896 W
10,438.0	0.40	325.60	10,367.9	424.5	826.2	393,415.49	759,184.36	32° 4' 46.656 N	103° 37' 47.905 W
10,532.0	0.50	172.10	10,461.9	424.3	826.1	393,415.35	759,184.23	32° 4' 46.654 N	103° 37' 47.907 W
10,627.0	1.30	179.20	10,556.9	422.8	826.1	393,413.87	759,184.30	32° 4' 46.640 N	103° 37' 47.906 W
10,721.0	0.10	287.50	10,650.9	421.8	826.1	393,412.82	759,184.24	32° 4' 46.629 N	103° 37' 47.907 W
10,816.0	0.50	45.00	10,745.9	422.1	826.3	393,413.14	759,184.45	32° 4' 46.632 N	103° 37' 47.904 W
10,910.0	0.70	34.80	10,839.9	422.9	826.9	393,413.90	759,185.07	32° 4' 46.640 N	103° 37' 47.897 W
11,005.0	1.10	253.20	10,934.9	423.1	826.4	393,414.12	759,184.53	32° 4' 46.642 N	103° 37' 47.903 W
11,099.0	1.10	261.70	11,028.8	422.7	824.6	393,413.73	759,182.77	32° 4' 46.638 N	103° 37' 47.924 W



KLX Directional Drilling

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Mesa 8105 1-12 Fed #54H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Patterson #288)
Site:	Sec 1, T26-S, R32-E	MD Reference:	WELL @ 3374.0usft (Patterson #288)
Well:	Mesa 8105 1-12 Fed #54H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,194.0	0.10	46.40	11,123.8	422.6	823.8	393,413.65	759,181.93	32° 4' 46.638 N	103° 37' 47.934 W
11,289.0	0.70	149.70	11,218.8	422.2	824.1	393,413.21	759,182.28	32° 4' 46.633 N	103° 37' 47.930 W
11,383.0	1.50	206.20	11,312.8	420.6	823.9	393,411.61	759,182.03	32° 4' 46.617 N	103° 37' 47.933 W
11,478.0	1.00	194.30	11,407.8	418.7	823.1	393,409.69	759,181.28	32° 4' 46.598 N	103° 37' 47.942 W
11,572.0	1.30	159.30	11,501.8	416.9	823.3	393,407.90	759,181.45	32° 4' 46.581 N	103° 37' 47.940 W
11,667.0	0.90	93.70	11,596.8	415.8	824.4	393,406.84	759,182.58	32° 4' 46.570 N	103° 37' 47.927 W
11,762.0	0.90	87.50	11,691.8	415.8	825.9	393,406.82	759,184.07	32° 4' 46.570 N	103° 37' 47.909 W
11,857.0	0.90	93.40	11,786.7	415.8	827.4	393,406.81	759,185.56	32° 4' 46.570 N	103° 37' 47.892 W
11,952.0	1.20	61.90	11,881.7	416.2	829.0	393,407.24	759,187.18	32° 4' 46.574 N	103° 37' 47.873 W
12,047.0	1.30	54.10	11,976.7	417.3	830.8	393,408.34	759,188.93	32° 4' 46.585 N	103° 37' 47.853 W
12,141.0	1.00	64.80	12,070.7	418.3	832.4	393,409.31	759,190.54	32° 4' 46.594 N	103° 37' 47.834 W
12,236.0	0.90	85.90	12,165.7	418.7	833.9	393,409.72	759,192.03	32° 4' 46.598 N	103° 37' 47.817 W
12,331.0	1.10	97.60	12,260.7	418.6	835.5	393,409.65	759,193.68	32° 4' 46.597 N	103° 37' 47.797 W
12,425.0	1.40	109.80	12,354.6	418.1	837.5	393,409.14	759,195.65	32° 4' 46.592 N	103° 37' 47.774 W
12,485.0	1.60	121.50	12,414.6	417.4	838.9	393,408.46	759,197.06	32° 4' 46.585 N	103° 37' 47.758 W
12,563.0	1.50	140.80	12,492.6	416.1	840.5	393,407.10	759,198.63	32° 4' 46.572 N	103° 37' 47.740 W
12,624.0	1.80	135.80	12,553.6	414.8	841.6	393,405.79	759,199.80	32° 4' 46.559 N	103° 37' 47.726 W
12,719.0	12.60	172.20	12,647.7	403.4	844.1	393,394.42	759,202.26	32° 4' 46.446 N	103° 37' 47.699 W
12,803.0	28.33	174.96	12,726.1	374.3	847.1	393,365.31	759,205.27	32° 4' 46.158 N	103° 37' 47.666 W
100' PA Crossed @ 12803.0' MD / 12726.1' TVD									
12,813.0	30.20	175.10	12,734.9	369.4	847.5	393,360.44	759,205.70	32° 4' 46.110 N	103° 37' 47.661 W
12,907.0	36.40	178.00	12,813.4	317.9	850.5	393,308.95	759,208.69	32° 4' 45.600 N	103° 37' 47.631 W
13,002.0	41.40	178.80	12,887.3	258.3	852.2	393,249.34	759,210.33	32° 4' 45.010 N	103° 37' 47.616 W
13,096.0	50.20	178.40	12,952.8	191.0	853.8	393,182.04	759,212.00	32° 4' 44.344 N	103° 37' 47.602 W
13,191.0	60.40	179.80	13,006.8	113.0	855.0	393,104.05	759,213.16	32° 4' 43.572 N	103° 37' 47.594 W
13,285.0	69.20	179.90	13,046.8	28.1	855.2	393,019.08	759,213.38	32° 4' 42.731 N	103° 37' 47.598 W
13,379.0	76.50	181.20	13,074.5	-61.7	854.3	392,929.33	759,212.50	32° 4' 41.843 N	103° 37' 47.615 W
13,474.0	87.00	182.10	13,088.1	-155.5	851.6	392,835.48	759,209.79	32° 4' 40.915 N	103° 37' 47.654 W
13,568.0	88.90	182.20	13,091.5	-249.4	848.1	392,741.61	759,206.26	32° 4' 39.986 N	103° 37' 47.702 W
13,710.0	91.10	182.10	13,091.5	-391.3	842.8	392,599.72	759,200.94	32° 4' 38.582 N	103° 37' 47.774 W
13,805.0	90.20	179.00	13,090.4	-486.3	841.9	392,504.74	759,200.02	32° 4' 37.642 N	103° 37' 47.792 W
13,899.0	89.90	178.10	13,090.3	-580.3	844.2	392,410.78	759,202.40	32° 4' 36.712 N	103° 37' 47.772 W
13,994.0	89.70	177.40	13,090.6	-675.2	848.0	392,315.85	759,206.13	32° 4' 35.773 N	103° 37' 47.736 W
14,088.0	89.70	176.80	13,091.1	-769.1	852.7	392,221.97	759,210.89	32° 4' 34.843 N	103° 37' 47.687 W
14,183.0	89.80	177.50	13,091.5	-863.9	857.5	392,127.09	759,215.61	32° 4' 33.904 N	103° 37' 47.640 W
14,278.0	89.80	177.90	13,091.9	-958.9	861.3	392,032.17	759,219.42	32° 4' 32.965 N	103° 37' 47.603 W
14,372.0	90.00	178.50	13,092.0	-1,052.8	864.2	391,938.21	759,222.38	32° 4' 32.035 N	103° 37' 47.575 W
14,466.0	89.40	179.30	13,092.5	-1,146.8	866.0	391,844.23	759,224.18	32° 4' 31.105 N	103° 37' 47.561 W
14,560.0	90.40	181.60	13,092.7	-1,240.8	865.3	391,750.25	759,223.44	32° 4' 30.175 N	103° 37' 47.577 W
14,655.0	91.10	183.10	13,091.4	-1,335.7	861.4	391,655.34	759,219.55	32° 4' 29.236 N	103° 37' 47.630 W
14,750.0	90.70	180.70	13,089.9	-1,430.6	858.2	391,560.41	759,216.40	32° 4' 28.297 N	103° 37' 47.673 W
14,844.0	89.50	179.90	13,089.8	-1,524.6	857.8	391,466.41	759,215.91	32° 4' 27.366 N	103° 37' 47.686 W
14,938.0	88.50	175.30	13,091.4	-1,618.5	861.7	391,372.53	759,219.84	32° 4' 26.437 N	103° 37' 47.648 W
15,033.0	90.00	175.90	13,092.7	-1,713.2	869.0	391,277.83	759,227.13	32° 4' 25.500 N	103° 37' 47.570 W
15,127.0	90.30	177.70	13,092.4	-1,807.1	874.2	391,183.98	759,232.38	32° 4' 24.571 N	103° 37' 47.516 W
15,223.0	90.10	177.20	13,092.1	-1,903.0	878.5	391,088.07	759,236.65	32° 4' 23.621 N	103° 37' 47.474 W
15,317.0	90.80	176.20	13,091.3	-1,996.8	883.9	390,994.23	759,242.06	32° 4' 22.692 N	103° 37' 47.418 W
15,411.0	91.00	177.00	13,089.9	-2,090.6	889.5	390,900.41	759,247.63	32° 4' 21.764 N	103° 37' 47.360 W
15,506.0	90.20	175.60	13,088.9	-2,185.4	895.6	390,805.62	759,253.76	32° 4' 20.825 N	103° 37' 47.296 W
15,600.0	90.00	178.20	13,088.7	-2,279.3	900.7	390,711.76	759,258.85	32° 4' 19.896 N	103° 37' 47.244 W
15,696.0	91.00	181.50	13,087.9	-2,375.2	900.9	390,615.78	759,259.10	32° 4' 18.946 N	103° 37' 47.249 W
15,791.0	90.20	178.80	13,086.9	-2,470.2	900.7	390,520.80	759,258.85	32° 4' 18.006 N	103° 37' 47.259 W
15,885.0	90.20	178.90	13,086.6	-2,564.2	902.6	390,426.82	759,260.73	32° 4' 17.076 N	103° 37' 47.244 W
15,980.0	90.20	179.60	13,086.2	-2,659.2	903.8	390,331.83	759,261.98	32° 4' 16.136 N	103° 37' 47.237 W
16,074.0	90.30	179.20	13,085.8	-2,753.2	904.8	390,237.83	759,262.96	32° 4' 15.206 N	103° 37' 47.233 W



KLX Directional Drilling

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Mesa 8105 1-12 Fed #54H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Patterson #288)
Site:	Sec 1, T26-S, R32-E	MD Reference:	WELL @ 3374.0usft (Patterson #288)
Well:	Mesa 8105 1-12 Fed #54H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,169.0	90.90	180.30	13,084.8	-2,848.2	905.2	390,142.84	759,263.38	32° 4' 14.266 N	103° 37' 47.235 W
16,263.0	89.50	175.80	13,084.5	-2,942.1	908.4	390,048.92	759,266.57	32° 4' 13.336 N	103° 37' 47.205 W
16,359.0	91.20	179.60	13,083.9	-3,038.0	912.3	389,953.02	759,270.43	32° 4' 12.387 N	103° 37' 47.167 W
16,454.0	90.20	179.30	13,082.7	-3,133.0	913.2	389,858.03	759,271.34	32° 4' 11.447 N	103° 37' 47.164 W
16,549.0	91.20	180.60	13,081.6	-3,228.0	913.3	389,763.04	759,271.42	32° 4' 10.507 N	103° 37' 47.170 W
16,644.0	91.40	181.10	13,079.4	-3,322.9	911.9	389,668.08	759,270.01	32° 4' 9.567 N	103° 37' 47.194 W
16,738.0	90.90	179.30	13,077.5	-3,416.9	911.5	389,574.10	759,269.68	32° 4' 8.638 N	103° 37' 47.205 W
16,832.0	91.20	181.00	13,075.8	-3,510.9	911.3	389,480.12	759,269.44	32° 4' 7.708 N	103° 37' 47.215 W
16,927.0	91.90	180.60	13,073.2	-3,605.9	910.0	389,385.17	759,268.11	32° 4' 6.768 N	103° 37' 47.237 W
17,021.0	91.00	177.80	13,070.9	-3,699.8	911.3	389,291.22	759,269.43	32° 4' 5.838 N	103° 37' 47.229 W
17,115.0	91.70	178.50	13,068.7	-3,793.7	914.3	389,197.29	759,272.46	32° 4' 4.909 N	103° 37' 47.201 W
17,209.0	92.20	178.90	13,065.5	-3,887.7	916.4	389,103.37	759,274.59	32° 4' 3.979 N	103° 37' 47.183 W
17,304.0	91.60	178.70	13,062.3	-3,982.6	918.4	389,008.45	759,276.58	32° 4' 3.040 N	103° 37' 47.167 W
17,399.0	91.60	178.20	13,059.6	-4,077.5	921.0	388,913.52	759,279.15	32° 4' 2.100 N	103° 37' 47.145 W
17,493.0	91.40	179.80	13,057.2	-4,171.5	922.6	388,819.57	759,280.79	32° 4' 1.170 N	103° 37' 47.133 W
17,587.0	92.00	179.20	13,054.4	-4,265.4	923.5	388,725.61	759,281.61	32° 4' 0.240 N	103° 37' 47.130 W
17,682.0	91.10	177.50	13,051.8	-4,360.3	926.2	388,630.69	759,284.34	32° 3' 59.301 N	103° 37' 47.106 W
17,776.0	91.20	177.70	13,049.9	-4,454.2	930.1	388,536.79	759,288.28	32° 3' 58.372 N	103° 37' 47.067 W
17,871.0	91.10	175.80	13,048.0	-4,549.1	935.5	388,441.97	759,293.66	32° 3' 57.433 N	103° 37' 47.012 W
17,965.0	91.70	177.60	13,045.7	-4,642.9	940.9	388,348.16	759,299.07	32° 3' 56.504 N	103° 37' 46.956 W
18,060.0	90.60	174.90	13,043.8	-4,737.6	947.1	388,253.39	759,305.28	32° 3' 55.566 N	103° 37' 46.891 W
18,154.0	91.80	178.50	13,041.9	-4,831.4	952.5	388,159.59	759,310.69	32° 3' 54.637 N	103° 37' 46.835 W
18,249.0	91.50	180.60	13,039.1	-4,926.4	953.3	388,064.63	759,311.44	32° 3' 53.698 N	103° 37' 46.834 W
18,343.0	90.90	180.90	13,037.2	-5,020.4	952.1	387,970.66	759,310.21	32° 3' 52.768 N	103° 37' 46.855 W
18,437.0	90.50	181.30	13,036.0	-5,114.3	950.2	387,876.69	759,308.40	32° 3' 51.838 N	103° 37' 46.883 W
18,532.0	90.90	181.20	13,034.9	-5,209.3	948.2	387,781.72	759,306.33	32° 3' 50.898 N	103° 37' 46.915 W
18,627.0	90.70	181.40	13,033.5	-5,304.3	946.0	387,686.75	759,304.18	32° 3' 49.959 N	103° 37' 46.947 W
18,721.0	91.00	180.80	13,032.1	-5,398.2	944.2	387,592.78	759,302.37	32° 3' 49.029 N	103° 37' 46.975 W
18,816.0	90.70	180.80	13,030.7	-5,493.2	942.9	387,497.80	759,301.05	32° 3' 48.089 N	103° 37' 46.998 W
18,911.0	90.20	181.20	13,030.0	-5,588.2	941.2	387,402.82	759,299.39	32° 3' 47.150 N	103° 37' 47.024 W
19,005.0	90.60	180.50	13,029.3	-5,682.2	939.8	387,308.83	759,297.99	32° 3' 46.220 N	103° 37' 47.047 W
19,100.0	90.70	180.50	13,028.2	-5,777.2	939.0	387,213.84	759,297.16	32° 3' 45.280 N	103° 37' 47.064 W
19,194.0	91.50	180.70	13,026.4	-5,871.2	938.0	387,119.86	759,296.18	32° 3' 44.350 N	103° 37' 47.083 W
19,288.0	91.20	181.30	13,024.2	-5,965.1	936.4	387,025.90	759,294.54	32° 3' 43.420 N	103° 37' 47.109 W
19,383.0	89.70	180.10	13,023.5	-6,060.1	935.2	386,930.92	759,293.38	32° 3' 42.480 N	103° 37' 47.130 W
19,478.0	89.70	180.20	13,024.0	-6,155.1	935.0	386,835.92	759,293.13	32° 3' 41.540 N	103° 37' 47.140 W
19,572.0	89.90	180.80	13,024.3	-6,249.1	934.2	386,741.92	759,292.31	32° 3' 40.610 N	103° 37' 47.156 W
19,666.0	89.70	179.90	13,024.6	-6,343.1	933.6	386,647.93	759,291.74	32° 3' 39.680 N	103° 37' 47.170 W
19,761.0	89.70	180.20	13,025.1	-6,438.1	933.5	386,552.93	759,291.65	32° 3' 38.740 N	103° 37' 47.178 W
19,856.0	90.20	181.50	13,025.2	-6,533.1	932.1	386,457.94	759,290.24	32° 3' 37.800 N	103° 37' 47.202 W
19,950.0	89.50	182.00	13,025.5	-6,627.0	929.2	386,363.99	759,287.37	32° 3' 36.870 N	103° 37' 47.242 W
20,045.0	89.50	183.70	13,026.3	-6,721.9	924.5	386,269.11	759,282.65	32° 3' 35.932 N	103° 37' 47.304 W
20,139.0	90.70	182.70	13,026.1	-6,815.8	919.2	386,175.26	759,277.40	32° 3' 35.004 N	103° 37' 47.372 W
20,234.0	91.20	181.50	13,024.5	-6,910.7	915.8	386,080.34	759,273.92	32° 3' 34.064 N	103° 37' 47.420 W
20,328.0	92.50	178.20	13,021.5	-7,004.6	916.0	385,986.40	759,274.17	32° 3' 33.135 N	103° 37' 47.424 W
20,430.0	93.10	177.00	13,016.5	-7,106.4	920.3	385,884.62	759,278.43	32° 3' 32.127 N	103° 37' 47.383 W
20,525.0	93.90	177.50	13,010.7	-7,201.1	924.8	385,789.91	759,282.98	32° 3' 31.190 N	103° 37' 47.337 W
20,619.0	94.20	177.70	13,004.1	-7,294.8	928.8	385,696.22	759,286.91	32° 3' 30.263 N	103° 37' 47.298 W
20,714.0	94.20	177.70	12,997.1	-7,389.5	932.6	385,601.55	759,290.71	32° 3' 29.326 N	103° 37' 47.261 W
20,809.0	95.00	178.40	12,989.5	-7,484.1	935.8	385,506.92	759,293.93	32° 3' 28.389 N	103° 37' 47.231 W
20,905.0	90.20	177.50	12,985.2	-7,579.9	939.2	385,411.11	759,297.37	32° 3' 27.441 N	103° 37' 47.198 W
21,001.0	90.10	178.00	12,984.9	-7,675.8	943.0	385,315.18	759,301.13	32° 3' 26.491 N	103° 37' 47.162 W
21,095.0	87.70	176.80	12,986.7	-7,769.7	947.2	385,221.30	759,305.40	32° 3' 25.562 N	103° 37' 47.119 W
21,189.0	86.80	177.70	12,991.2	-7,863.5	951.7	385,127.52	759,309.90	32° 3' 24.633 N	103° 37' 47.074 W
21,284.0	85.10	178.60	12,997.9	-7,958.2	954.8	385,032.81	759,312.96	32° 3' 23.696 N	103° 37' 47.046 W



KLX Directional Drilling

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Mesa 8105 1-12 Fed #54H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Patterson #288)
Site:	Sec 1, T26-S, R32-E	MD Reference:	WELL @ 3374.0usft (Patterson #288)
Well:	Mesa 8105 1-12 Fed #54H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,378.0	86.10	179.80	13,005.1	-8,051.9	956.1	384,939.10	759,314.27	32° 3' 22.769 N	103° 37' 47.038 W
21,472.0	84.30	179.90	13,013.0	-8,145.6	956.4	384,845.44	759,314.51	32° 3' 21.842 N	103° 37' 47.042 W
21,567.0	83.80	179.70	13,022.9	-8,240.1	956.7	384,750.95	759,314.84	32° 3' 20.907 N	103° 37' 47.045 W
21,661.0	83.80	178.70	13,033.0	-8,333.5	958.0	384,657.51	759,316.15	32° 3' 19.982 N	103° 37' 47.037 W
21,755.0	84.00	178.40	13,043.0	-8,427.0	960.4	384,564.07	759,318.51	32° 3' 19.057 N	103° 37' 47.017 W
21,850.0	85.40	179.00	13,051.8	-8,521.5	962.5	384,469.50	759,320.66	32° 3' 18.121 N	103° 37' 46.999 W
21,945.0	87.30	177.00	13,057.8	-8,616.3	965.8	384,374.76	759,323.97	32° 3' 17.184 N	103° 37' 46.968 W
22,039.0	87.30	176.80	13,062.2	-8,710.0	970.9	384,281.01	759,329.05	32° 3' 16.255 N	103° 37' 46.916 W
22,134.0	91.70	177.20	13,063.1	-8,804.9	975.9	384,186.16	759,334.02	32° 3' 15.317 N	103° 37' 46.865 W
22,228.0	86.40	173.90	13,064.6	-8,898.5	983.1	384,092.50	759,341.30	32° 3' 14.389 N	103° 37' 46.788 W
22,323.0	90.50	174.60	13,067.2	-8,993.0	992.7	383,998.04	759,350.82	32° 3' 13.454 N	103° 37' 46.684 W
22,417.0	87.70	175.40	13,068.7	-9,086.6	1,000.9	383,904.42	759,359.01	32° 3' 12.527 N	103° 37' 46.596 W
22,511.0	88.80	174.90	13,071.6	-9,180.2	1,008.8	383,810.80	759,366.95	32° 3' 11.600 N	103° 37' 46.511 W
22,606.0	89.30	175.30	13,073.1	-9,274.9	1,016.9	383,716.16	759,375.06	32° 3' 10.663 N	103° 37' 46.424 W
22,701.0	89.30	175.60	13,074.3	-9,369.6	1,024.4	383,621.47	759,382.60	32° 3' 9.726 N	103° 37' 46.344 W
22,795.0	89.70	178.20	13,075.1	-9,463.4	1,029.5	383,527.62	759,387.68	32° 3' 8.796 N	103° 37' 46.292 W
22,890.0	90.50	178.50	13,074.9	-9,558.4	1,032.3	383,432.66	759,390.42	32° 3' 7.857 N	103° 37' 46.267 W
22,984.0	88.40	179.10	13,075.8	-9,652.3	1,034.2	383,338.69	759,392.39	32° 3' 6.927 N	103° 37' 46.251 W
23,079.0	88.40	179.20	13,078.5	-9,747.3	1,035.6	383,243.73	759,393.80	32° 3' 5.987 N	103° 37' 46.242 W
23,173.0	88.20	178.80	13,081.3	-9,841.2	1,037.3	383,149.79	759,395.44	32° 3' 5.057 N	103° 37' 46.230 W
23,269.0	89.60	176.30	13,083.1	-9,937.1	1,041.4	383,053.91	759,399.54	32° 3' 4.108 N	103° 37' 46.190 W
23,363.0	90.40	177.90	13,083.1	-10,031.0	1,046.1	382,960.03	759,404.29	32° 3' 3.179 N	103° 37' 46.142 W
23,458.6	88.43	180.15	13,084.1	-10,126.6	1,047.8	382,864.46	759,405.92	32° 3' 2.233 N	103° 37' 46.130 W
100' FSL Crossed @ 23458.6' MD / 13084.1' TVD									
23,465.0	88.30	180.30	13,084.3	-10,133.0	1,047.7	382,858.06	759,405.90	32° 3' 2.170 N	103° 37' 46.131 W
23,523.0	88.30	180.30	13,086.0	-10,190.9	1,047.4	382,800.09	759,405.59	32° 3' 1.596 N	103° 37' 46.139 W
TD @ 23523.0' MD / 13086.0' TVD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
146.0	146.0	0.4	-0.6	First MWD Survey @ 146.0' MD / 146.0' TVD
4,054.7	4,036.7	150.6	194.6	280 VHL Crossed @ 4054.7' MD / 4036.7' TVD
7,555.0	7,493.4	372.1	695.1	100' PA Crossed @ 7555.0' MD / 7493.4' TVD
12,803.0	12,726.1	374.3	847.1	100' PA Crossed @ 12803.0' MD / 12726.1' TVD
23,458.6	13,084.1	-10,126.6	1,047.8	100' FSL Crossed @ 23458.6' MD / 13084.1' TVD
23,523.0	13,086.0	-10,190.9	1,047.4	TD @ 23523.0' MD / 13086.0' TVD

Checked By: _____ Approved By: _____ Date: _____

Intent ☐ As Drilled ☒

API # 30-025-48958		
Operator Name: BTA OIL PRODUCERS, LLC	Property Name: MESA 8105 1-12 FEDERAL	Well Number 54H

Kick Off Point (KOP)

UL	Section 1	Township 26S	Range 32E	Lot	Feet 464	From N/S N	Feet 2295	From E/W W	County LEA
Latitude 32.078497					Longitude -103.629889				NAD 83

First Take Point (FTP)

UL	Section 1	Township 26S	Range 32E	Lot	Feet 464	From N/S N	Feet 2295	From E/W W	County LEA
Latitude 32.078497					Longitude -103.629889				NAD 83

Last Take Point (LTP)

UL	Section 12	Township 26S	Range 32E	Lot	Feet 109	From N/S S	Feet 2329	From E/W W	County LEA
Latitude 32.050643					Longitude -103.629480				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ NOIs this well an infill well? ☐ YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-48960		
Operator Name: BTA OIL PRODUCERS, LLC	Property Name: MESA 8105 1-12 FEDERAL	Well Number 56H

KZ 06/29/2018

Well Name: MESA 8105 1-12 FEDERAL	Well Location: T26S / R32E / SEC 1 / NENW / 32.077906 / -103.632377	County or Parish/State: LEA / NM
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: Drilling Well	Operator: BTA OIL PRODUCERS LLC

Subsequent Report

Sundry ID: 2750552

Type of Submission: Subsequent Report	Type of Action: Hydraulic Fracturing
Date Sundry Submitted: 09/11/2023	Time Sundry Submitted: 02:41
Date Operation Actually Began: 07/22/2023	

Actual Procedure: null

SR Attachments

Actual Procedure

COMPLETION_FRAC_SUNDRY_MESA_8105_1_12_FED_54H_20230911144048.pdf

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: Drilling Well

Operator: BTA OIL
PRODUCERS LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: KATY REDDELL

Signed on: SEP 11, 2023 02:40 PM

Name: BTA OIL PRODUCERS LLC

Title: Regulatory Analyst

Street Address: 104 S Pecos

City: Midland

State: TX

Phone: (432) 682-3753

Email address: Kredell@btaoil.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: JONATHON W SHEPARD

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345972

BLM POC Email Address: jshepard@blm.gov

Disposition: Accepted

Disposition Date: 09/13/2023

Signature: Jonathon Shepard

MESA 8105 1-12 FED 54H 30-025-48958												
<u>TD / DATE REACHED</u>	<u>PBTD</u>	<u>PT CSG PSI</u>	<u>LENGTH OF TEST AND RESULT</u>	<u>PERF & FRAC DATE</u>	<u>ZONE & INTERVAL</u>	<u>TOTAL FLUID</u>	<u>TOTAL SAND MM#</u>	<u>DATE DRILLOUT COMPLETE</u>	<u>GLV'S & TUBING DATE</u>	<u>TUBING DETAIL</u>	<u>PACKER DETAIL</u>	<u>DATE FLOWBACK AND TESTING FIRST PROD.</u>
23,523' / 6/8/2023	23,518	9000	30 min. good test	7/22/2023	13,300 - 23,455	573,900	25.18	8/1/2023	8/11/2023	9997	9996	

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017					
1. WELL API NO. 30-025-48958											
2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN											
2. State Oil & Gas Lease No. NMNM014492											
WELL COMPLETION OR RECOMPLETION REPORT AND LOG											
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name MESA 8105 1-12 FED			
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____								6. Well Number: 54H			
8. Name of Operator BTA OIL PRODUCERS, LLC								9. OGRID 260297			
10. Address of Operator 104 S. PECOS; MIDLAND, TX. 79701								11. Pool name or Wildcat WC-025 G-09 S253236A; UPR WOLFCAMP			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	
Surface:	C	1	26S	32E		470	N	1440	W	LEA	
BH:	N	12	26S	32E		36	S	2328	W	LEA	
13. Date Spudded 04/06/2022	14. Date T.D. Reached 06/08/2022	15. Date Rig Released 06/10/2022			16. Date Completed (Ready to Produce) 09/26/2023			17. Elevations (DF and RKB, RT, GR, etc.) 3349' GR			
18. Total Measured Depth of Well 23,523'			19. Plug Back Measured Depth 23,518'			20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run MWD			
22. Producing Interval(s), of this completion - Top, Bottom, Name 13,300-23,455'											
23. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
10 ¾		40.5		911		14 ¾		645			
7 5/8		29.7		12,529'		8 ¾		1875			
5 ½		20		12,319'		6 ¾		1850			
5		18		23,518'		6 ¾		1850			
24. LINER RECORD											
SIZE	TOP	BOTTOM	SACKS CEMENT		SCREEN		25. TUBING RECORD				
							SIZE	DEPTH SET	PACKER SET		
							2 7/8:	9,997'	9,996'		
26. Perforation record (interval, size, and number) 13,300' – 23,455' 0.42 PERF HOLE 2,304 HOLES											
						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
						23,455'		573,900 BBLS SLICK WATER, 25.18MM#s mesh native sand.			
28. PRODUCTION											
Date First Production 09/26/2023		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) FLOWING					Well Status (<i>Prod. or Shut-in</i>) PROD				
Date of Test 10/06/2023	Hours Tested 24	Choke Size 18/64	Prod'n For Test Period	Oil - Bbl 80	Gas - MCF 416	Water - Bbl. 2731	Gas - Oil Ratio				
Flow Tubing Press. 3000	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 80	Gas - MCF 416	Water - Bbl. 2731	Oil Gravity - API - (<i>Corr.</i>) 46					
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) SOLD								30. Test Witnessed By			
31. List Attachments											
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:											
Latitude _____ Longitude _____ NAD83											

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Printed

Signature Katy Reddell Name KATY REDDELL Title REGULATORY ANALYST Date 10/06/2023

E-mail Address kreddell@btaoil.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon 5002	T. Ojo Alamo	T. Penn A"
T. Salt 2554	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 4380	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand 4785	T. Morrison	
T. Drinkard	T. Bone Springs 9014	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp 12166	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 288638

ACKNOWLEDGMENTS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 288638
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 288638

CONDITIONS		
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	288638
	Action Type:	[C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	10/8/2025