

District I
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

Oil 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		² OGRID Number 260297	
		³ Reason for Filing Code/ Effective Date NEW WELL	
⁴ API Number 30 – 025-48546	⁵ Pool Name OJO CHISO; BONE SPRING, SOUTH		⁶ Pool Code 97293
⁷ Property Code 327076	⁸ Property Name SOUTH RIDGE 8030 2-11 STATE COM		⁹ Well Number 10H

II. ¹⁰ Surface Location

UL or lot no. 1	Section 2	Township 23S	Range 34E	Lot Idn	Feet from the 1213’	North/South Line NORTH	Feet from the 1131	East/West line EAST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. O	Section 11	Township 23S	Range 34E	Lot Idn	Feet from the 48.1	North/South line SOUTH	Feet from the 2001	East/West line EAST	County LEA
¹² Lse Code F	¹³ Producing Method Code FLOWING		¹⁴ Gas Connection Date 07/12/2022		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
195739	PLAINS PIPELINE, L.P.	O
24650	TARGA MIDSTREAM SERVICES LLC	G

IV. Well Completion Data

²¹ Spud Date 03/11/2022	²² Ready Date 07/12/2022	²³ TD 19,568’	²⁴ PBTD 19,566	²⁵ Perforations 11,815’-19,515’	²⁶ DHC, MC	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17 ½”		13 3/8”		1750’		1160
12 ¼”		9 5/8”		5,432’		1,815
8 ¾”		5 ½”		19,568’		3040

V. Well Test Data

³¹ Date New Oil 07/12/2022	³² Gas Delivery Date 07/12/2022	³³ Test Date 07/22/2022	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure 2650 psi	³⁶ Csg. Pressure
³⁷ Choke Size 25/64	³⁸ Oil 1607 BO	³⁹ Water 2683 BW	⁴⁰ Gas 1677 MCF		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: 07/26/2022		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, New Mexico 87505

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

~~X~~AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

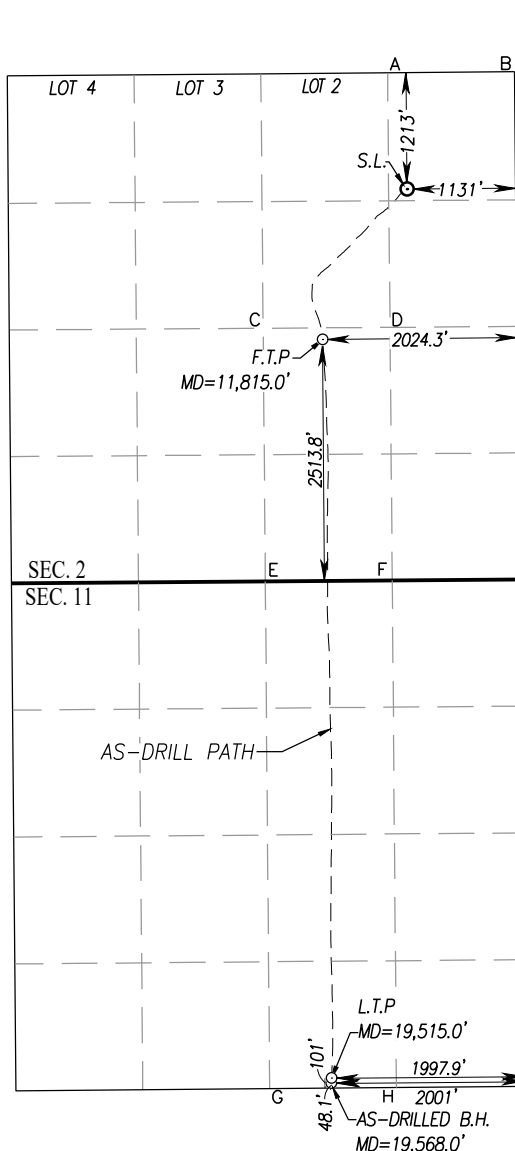
API Number 30-025-48546	Pool Code 97293	Pool Name ANTELOPE RIDGE; BONE SPRING NORTH
Property Code 327076	Property Name SOUTH RIDGE 8030 2-11 STATE	Well Number 10H
OGRID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Elevation 3385'

Surface Location									
UL or lot No. 1	Section 2	Township 23-S	Range 34-E	Lot Idn	Feet from the 1213	North/South line NORTH	Feet from the 1131	East/West line EAST	County LEA

As-Drilled Bottom Hole Location If Different From Surface

UL or lot No. O	Section 11	Township 23-S	Range 34-E	Lot Idn	Feet from the 48.1	North/South line SOUTH	Feet from the 2001	East/West line EAST	County LEA
Dedicated Acres 240	Joint or Infill	Consolidation Code	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



SCALE: 1"=2000'

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 487703.3 N
X= 818487.6 E
LAT.=32.337576° N
LONG.=103.435979° W

FIRST TAKE POINT
NAD 83 NME
Y= 486137.9 N
X= 817608.9 E
LAT.=32.333294° N
LONG.=103.438866° W

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 487643.2 N
X= 777303.9 E
LAT.=32.337452° N
LONG.=103.435501° W

FIRST TAKE POINT
NAD 27 NME
Y= 486077.8 N
X= 776425.2 E
LAT.=32.333169° N
LONG.=103.438388° W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y= 488854.0 N, X= 777103.3 E
B - Y= 488864.6 N, X= 778424.1 E
C - Y= 486194.4 N, X= 775806.2 E
D - Y= 486203.5 N, X= 777127.4 E
E - Y= 483559.8 N, X= 775829.6 E
F - Y= 483569.9 N, X= 777151.2 E
G - Y= 478278.1 N, X= 775873.9 E
H - Y= 478289.6 N, X= 777195.2 E

CORNER COORDINATES TABLE
NAD 83 NME

A - Y= 488914.1 N, X= 818287.0 E
B - Y= 488924.7 N, X= 819607.8 E
C - Y= 486254.4 N, X= 816989.8 E
D - Y= 486263.6 N, X= 818311.1 E
E - Y= 483619.8 N, X= 817013.3 E
F - Y= 483629.9 N, X= 818335.0 E
G - Y= 478337.9 N, X= 817057.8 E
H - Y= 478349.4 N, X= 818379.1 E

LAST TAKE POINT
NAD 83 NME
Y= 478444.5 N
X= 817702.0 E
LAT.=32.312146° N
LONG.=103.438772° W

AS-DRILLED BOTTOM HOLE LOCATION
NAD 83 NME
Y= 478391.6 N
X= 817699.4 E
LAT.=32.312001° N
LONG.=103.438782° W

LAST TAKE POINT
NAD 27 NME
Y= 478384.6 N
X= 776518.1 E
LAT.=32.312022° N
LONG.=103.438296° W

AS-DRILLED BOTTOM HOLE LOCATION
NAD 27 NME
Y= 478331.8 N
X= 776515.5 E
LAT.=32.311876° N
LONG.=103.438305° W

NOTE: AS-DRILLED BOTTOM HOLE, LAST TAKE POINT AND FIRST TAKE POINT PLOTTED FROM DATA FURNISHED BY KLX DIRECTIONAL DRILLING ON APRIL 28, 2022.

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Katy Reddell 08/01/2022

Signature Date

KATY REDDELL

Printed Name

kreddell@btaoil.com

E-mail Address

SURVEYOR CERTIFICATION

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

DATE 08/01/2022

Date of Survey
Signature of Professional Surveyor

Ronald J. Eidson 08/01/2022

Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239

ACK REL. W.O.:22110095 JWSC W.O.: 22.13.0295



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Sec 2, T23-S, R34-E

South Ridge 8030 2-11 State #10H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

28 April, 2022





Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well South Ridge 8030 2-11 State #10H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3410.0usft (Patterson #566)
Site:	Sec 2, T23-S, R34-E	MD Reference:	WELL @ 3410.0usft (Patterson #566)
Well:	South Ridge 8030 2-11 State #10H	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 2, T23-S, R34-E		
Site Position:		Northing:	486,597.20 usft
From:	Map	Easting:	815,468.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 20' 4.579 N
		Longitude:	103° 26' 44.813 W
		Grid Convergence:	0.47 °

Well	South Ridge 8030 2-11 State #10H		
Well Position	+N/-S	0.0 usft	Northing: 487,706.10 usft
	+E/-W	0.0 usft	Easting: 818,488.90 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 20' 15.303 N
		Longitude:	103° 26' 9.508 W
		Ground Level:	3,385.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	3/7/2022	6.40	59.95	47,697.10000000

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	184.72	

Survey Program	Date	4/28/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
164.0	19,568.0	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	487,706.10	818,488.90	32° 20' 15.303 N	103° 26' 9.508 W
164.0	0.50	206.80	164.0	-0.6	-0.3	487,705.46	818,488.58	32° 20' 15.296 N	103° 26' 9.512 W
First MWD Survey @ 164.0' MD / 164.0' TVD									
251.0	0.70	173.10	251.0	-1.5	-0.4	487,704.60	818,488.47	32° 20' 15.288 N	103° 26' 9.513 W
334.0	0.50	184.10	334.0	-2.4	-0.4	487,703.73	818,488.50	32° 20' 15.279 N	103° 26' 9.513 W
419.0	0.40	195.10	419.0	-3.0	-0.5	487,703.07	818,488.40	32° 20' 15.273 N	103° 26' 9.514 W
536.0	0.40	155.50	536.0	-3.8	-0.4	487,702.31	818,488.46	32° 20' 15.265 N	103° 26' 9.514 W
629.0	0.00	148.00	629.0	-4.1	-0.3	487,702.01	818,488.60	32° 20' 15.262 N	103° 26' 9.512 W
691.0	0.40	252.40	691.0	-4.2	-0.5	487,701.95	818,488.39	32° 20' 15.262 N	103° 26' 9.514 W
784.0	0.70	262.60	784.0	-4.3	-1.4	487,701.78	818,487.52	32° 20' 15.260 N	103° 26' 9.525 W
877.0	0.70	262.80	877.0	-4.5	-2.5	487,701.63	818,486.39	32° 20' 15.259 N	103° 26' 9.538 W
970.0	0.50	268.90	970.0	-4.5	-3.5	487,701.55	818,485.42	32° 20' 15.258 N	103° 26' 9.549 W



Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well South Ridge 8030 2-11 State #10H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3410.0usft (Patterson #566)
Site:	Sec 2, T23-S, R34-E	MD Reference:	WELL @ 3410.0usft (Patterson #566)
Well:	South Ridge 8030 2-11 State #10H	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
1,063.0	0.30	330.10	1,063.0	-4.3	-4.0	487,701.76	818,484.89	32° 20' 15.260 N	103° 26' 9.555 W
1,156.0	0.70	278.10	1,156.0	-4.1	-4.7	487,702.05	818,484.21	32° 20' 15.263 N	103° 26' 9.563 W
1,249.0	0.70	294.40	1,249.0	-3.7	-5.8	487,702.36	818,483.13	32° 20' 15.266 N	103° 26' 9.576 W
1,342.0	1.10	292.70	1,341.9	-3.2	-7.1	487,702.94	818,481.79	32° 20' 15.272 N	103° 26' 9.591 W
1,436.0	1.50	285.90	1,435.9	-2.5	-9.1	487,703.63	818,479.77	32° 20' 15.279 N	103° 26' 9.615 W
1,529.0	1.50	287.60	1,528.9	-1.8	-11.5	487,704.33	818,477.44	32° 20' 15.286 N	103° 26' 9.642 W
1,622.0	1.70	285.10	1,621.8	-1.0	-13.9	487,705.06	818,474.95	32° 20' 15.293 N	103° 26' 9.671 W
1,715.0	1.60	286.00	1,714.8	-0.3	-16.5	487,705.77	818,472.37	32° 20' 15.301 N	103° 26' 9.701 W
1,726.0	1.70	286.90	1,725.8	-0.2	-16.8	487,705.86	818,472.07	32° 20' 15.302 N	103° 26' 9.704 W
1,804.0	1.60	290.80	1,803.8	0.5	-19.0	487,706.59	818,469.94	32° 20' 15.309 N	103° 26' 9.729 W
1,897.0	2.60	232.40	1,896.7	-0.3	-21.8	487,705.76	818,467.06	32° 20' 15.301 N	103° 26' 9.763 W
1,991.0	4.10	222.50	1,990.6	-4.1	-25.8	487,701.98	818,463.10	32° 20' 15.264 N	103° 26' 9.809 W
2,084.0	6.80	218.70	2,083.1	-10.9	-31.5	487,695.23	818,457.41	32° 20' 15.198 N	103° 26' 9.876 W
2,177.0	8.00	221.40	2,175.4	-20.0	-39.2	487,686.08	818,449.69	32° 20' 15.108 N	103° 26' 9.967 W
2,270.0	8.10	222.70	2,267.4	-29.7	-47.9	487,676.41	818,440.96	32° 20' 15.013 N	103° 26' 10.070 W
2,363.0	8.90	220.90	2,359.4	-39.9	-57.1	487,666.16	818,431.81	32° 20' 14.912 N	103° 26' 10.177 W
2,456.0	8.40	221.10	2,451.4	-50.5	-66.3	487,655.60	818,422.63	32° 20' 14.808 N	103° 26' 10.285 W
2,549.0	8.70	219.50	2,543.3	-61.0	-75.2	487,645.06	818,413.69	32° 20' 14.705 N	103° 26' 10.391 W
2,642.0	10.50	219.10	2,635.0	-73.1	-85.0	487,633.05	818,403.87	32° 20' 14.587 N	103° 26' 10.506 W
2,735.0	10.40	220.00	2,726.5	-86.1	-95.8	487,620.04	818,393.14	32° 20' 14.459 N	103° 26' 10.633 W
2,828.0	10.10	221.50	2,818.0	-98.6	-106.6	487,607.51	818,382.34	32° 20' 14.336 N	103° 26' 10.760 W
2,921.0	9.60	221.00	2,909.6	-110.6	-117.1	487,595.55	818,371.84	32° 20' 14.218 N	103° 26' 10.883 W
3,014.0	9.10	221.60	3,001.4	-121.9	-127.0	487,584.19	818,361.87	32° 20' 14.107 N	103° 26' 11.000 W
3,107.0	8.60	221.10	3,093.3	-132.6	-136.5	487,573.45	818,352.42	32° 20' 14.001 N	103° 26' 11.112 W
3,200.0	8.00	219.50	3,185.3	-142.9	-145.2	487,563.22	818,343.73	32° 20' 13.901 N	103° 26' 11.214 W
3,292.0	8.00	219.20	3,276.4	-152.8	-153.3	487,553.32	818,335.61	32° 20' 13.804 N	103° 26' 11.309 W
3,386.0	9.00	223.00	3,369.4	-163.2	-162.4	487,542.87	818,326.47	32° 20' 13.701 N	103° 26' 11.417 W
3,479.0	9.50	227.00	3,461.2	-173.8	-173.0	487,532.32	818,315.89	32° 20' 13.597 N	103° 26' 11.541 W
3,572.0	10.80	232.70	3,552.7	-184.3	-185.6	487,521.80	818,303.35	32° 20' 13.494 N	103° 26' 11.689 W
3,597.6	10.58	231.87	3,577.9	-187.2	-189.3	487,518.90	818,299.59	32° 20' 13.466 N	103° 26' 11.733 W
LL Crossed @ 3597.6' MD / 3577.9' TVD									
3,665.0	10.00	229.50	3,644.2	-194.8	-198.6	487,511.28	818,290.28	32° 20' 13.391 N	103° 26' 11.842 W
3,758.0	9.50	227.80	3,735.8	-205.2	-210.4	487,500.88	818,278.45	32° 20' 13.289 N	103° 26' 11.981 W
3,851.0	8.70	229.80	3,827.7	-214.9	-221.5	487,491.18	818,267.39	32° 20' 13.194 N	103° 26' 12.111 W
3,944.0	9.80	231.50	3,919.5	-224.4	-233.1	487,481.72	818,255.83	32° 20' 13.102 N	103° 26' 12.246 W
4,037.0	11.90	232.20	4,010.8	-235.2	-246.8	487,470.91	818,242.05	32° 20' 12.996 N	103° 26' 12.408 W
4,130.0	11.50	234.50	4,101.9	-246.4	-262.0	487,459.65	818,226.93	32° 20' 12.886 N	103° 26' 12.585 W
4,223.0	10.90	233.80	4,193.1	-257.0	-276.6	487,449.08	818,212.29	32° 20' 12.782 N	103° 26' 12.757 W
4,316.0	10.40	235.20	4,284.5	-267.0	-290.6	487,439.09	818,198.30	32° 20' 12.685 N	103° 26' 12.921 W
4,409.0	11.50	229.10	4,375.8	-277.9	-304.5	487,428.23	818,184.40	32° 20' 12.578 N	103° 26' 13.084 W
4,503.0	11.90	223.50	4,467.8	-291.0	-318.3	487,415.06	818,170.64	32° 20' 12.449 N	103° 26' 13.246 W
4,596.0	11.90	218.00	4,558.8	-305.5	-330.8	487,400.55	818,158.14	32° 20' 12.307 N	103° 26' 13.393 W
4,689.0	11.80	218.20	4,649.9	-320.6	-342.5	487,385.52	818,146.35	32° 20' 12.159 N	103° 26' 13.532 W
4,782.0	12.00	220.00	4,740.9	-335.5	-354.6	487,370.65	818,134.26	32° 20' 12.013 N	103° 26' 13.674 W
4,875.0	11.50	220.20	4,831.9	-349.9	-366.8	487,356.16	818,122.06	32° 20' 11.870 N	103° 26' 13.818 W
4,968.0	11.20	220.90	4,923.1	-363.8	-378.7	487,342.25	818,110.16	32° 20' 11.734 N	103° 26' 13.958 W
5,063.0	10.90	220.40	5,016.3	-377.7	-390.6	487,328.44	818,098.30	32° 20' 11.598 N	103° 26' 14.097 W
5,157.0	10.50	220.50	5,108.7	-390.9	-401.9	487,315.16	818,086.98	32° 20' 11.468 N	103° 26' 14.230 W
5,250.0	10.20	222.10	5,200.2	-403.5	-412.9	487,302.60	818,075.96	32° 20' 11.344 N	103° 26' 14.360 W
5,349.0	9.60	221.70	5,297.7	-416.2	-424.3	487,289.93	818,064.59	32° 20' 11.220 N	103° 26' 14.494 W
5,495.0	9.70	222.60	5,441.6	-434.3	-440.7	487,271.79	818,048.16	32° 20' 11.042 N	103° 26' 14.687 W
5,588.0	9.50	224.20	5,533.3	-445.6	-451.4	487,260.52	818,037.51	32° 20' 10.931 N	103° 26' 14.812 W
5,681.0	8.40	224.60	5,625.2	-455.9	-461.5	487,250.18	818,027.39	32° 20' 10.830 N	103° 26' 14.931 W
5,732.3	8.23	224.55	5,676.0	-461.2	-466.7	487,244.90	818,022.18	32° 20' 10.778 N	103° 26' 14.993 W
280' VHL Crossed @ 5732.3' MD / 5676.0' TVD									



Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well South Ridge 8030 2-11 State #10H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3410.0usft (Patterson #566)
Site:	Sec 2, T23-S, R34-E	MD Reference:	WELL @ 3410.0usft (Patterson #566)
Well:	South Ridge 8030 2-11 State #10H	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
5,774.0	8.10	224.50	5,717.2	-465.4	-470.9	487,240.67	818,018.03	32° 20' 10.736 N	103° 26' 15.041 W
5,867.0	8.50	226.90	5,809.3	-474.8	-480.5	487,231.30	818,008.42	32° 20' 10.644 N	103° 26' 15.154 W
5,961.0	8.50	230.00	5,902.2	-484.0	-490.9	487,222.09	817,998.02	32° 20' 10.554 N	103° 26' 15.276 W
6,054.0	8.20	232.20	5,994.3	-492.5	-501.4	487,213.61	817,987.52	32° 20' 10.471 N	103° 26' 15.400 W
6,147.0	7.90	233.20	6,086.3	-500.4	-511.7	487,205.72	817,977.16	32° 20' 10.394 N	103° 26' 15.521 W
6,241.0	9.50	227.60	6,179.3	-509.5	-522.6	487,196.61	817,966.26	32° 20' 10.305 N	103° 26' 15.649 W
6,334.0	10.20	226.80	6,270.9	-520.3	-534.3	487,185.80	817,954.59	32° 20' 10.199 N	103° 26' 15.786 W
6,427.0	8.90	218.70	6,362.6	-531.6	-544.8	487,174.55	817,944.08	32° 20' 10.088 N	103° 26' 15.910 W
6,520.0	8.20	215.70	6,454.6	-542.6	-553.2	487,163.55	817,935.72	32° 20' 9.980 N	103° 26' 16.008 W
6,613.0	8.00	216.90	6,546.6	-553.1	-560.9	487,152.99	817,927.96	32° 20' 9.876 N	103° 26' 16.100 W
6,706.0	7.80	218.50	6,638.8	-563.2	-568.8	487,142.87	817,920.15	32° 20' 9.777 N	103° 26' 16.192 W
6,799.0	7.80	217.70	6,730.9	-573.2	-576.5	487,132.94	817,912.36	32° 20' 9.679 N	103° 26' 16.283 W
6,893.0	9.40	222.70	6,823.8	-583.8	-585.6	487,122.25	817,903.25	32° 20' 9.574 N	103° 26' 16.391 W
6,986.0	10.20	224.90	6,915.5	-595.3	-596.6	487,110.84	817,892.29	32° 20' 9.462 N	103° 26' 16.519 W
7,079.0	9.90	226.30	7,007.1	-606.6	-608.2	487,099.48	817,880.70	32° 20' 9.351 N	103° 26' 16.656 W
7,172.0	9.30	227.00	7,098.7	-617.3	-619.5	487,088.83	817,869.42	32° 20' 9.246 N	103° 26' 16.788 W
7,265.0	8.80	226.20	7,190.6	-627.3	-630.1	487,078.78	817,858.79	32° 20' 9.148 N	103° 26' 16.913 W
7,358.0	7.90	223.70	7,282.6	-636.9	-639.7	487,069.24	817,849.24	32° 20' 9.054 N	103° 26' 17.025 W
7,451.0	9.10	226.70	7,374.6	-646.5	-649.4	487,059.58	817,839.47	32° 20' 8.959 N	103° 26' 17.140 W
7,544.0	9.80	228.10	7,466.3	-656.9	-660.7	487,049.25	817,828.23	32° 20' 8.858 N	103° 26' 17.272 W
7,638.0	9.10	228.70	7,559.0	-667.1	-672.2	487,039.00	817,816.69	32° 20' 8.757 N	103° 26' 17.408 W
7,731.0	8.60	230.00	7,650.9	-676.4	-683.1	487,029.67	817,805.84	32° 20' 8.666 N	103° 26' 17.535 W
7,824.0	7.80	227.90	7,743.0	-685.1	-693.1	487,020.97	817,795.83	32° 20' 8.581 N	103° 26' 17.652 W
7,917.0	8.40	227.00	7,835.1	-694.0	-702.7	487,012.11	817,786.18	32° 20' 8.494 N	103° 26' 17.766 W
8,010.0	8.40	226.10	7,927.1	-703.3	-712.6	487,002.77	817,776.31	32° 20' 8.402 N	103° 26' 17.882 W
8,104.0	7.60	227.00	8,020.1	-712.3	-722.1	486,993.77	817,766.82	32° 20' 8.314 N	103° 26' 17.993 W
8,197.0	8.60	223.50	8,112.2	-721.6	-731.4	486,984.53	817,757.54	32° 20' 8.223 N	103° 26' 18.102 W
8,290.0	9.20	221.70	8,204.1	-732.2	-741.1	486,973.93	817,747.80	32° 20' 8.119 N	103° 26' 18.217 W
8,383.0	8.10	223.00	8,296.0	-742.5	-750.5	486,963.59	817,738.39	32° 20' 8.018 N	103° 26' 18.327 W
8,476.0	6.90	224.00	8,388.2	-751.3	-758.9	486,954.78	817,730.04	32° 20' 7.931 N	103° 26' 18.426 W
8,569.0	8.70	222.90	8,480.4	-760.5	-767.5	486,945.61	817,721.37	32° 20' 7.841 N	103° 26' 18.528 W
8,662.0	9.50	222.70	8,572.2	-771.3	-777.5	486,934.81	817,711.38	32° 20' 7.735 N	103° 26' 18.645 W
8,755.0	8.70	225.40	8,664.0	-781.9	-787.7	486,924.24	817,701.16	32° 20' 7.631 N	103° 26' 18.765 W
8,848.0	7.80	231.40	8,756.1	-790.7	-797.7	486,915.36	817,691.22	32° 20' 7.544 N	103° 26' 18.882 W
8,941.0	6.50	231.80	8,848.3	-797.9	-806.7	486,908.17	817,682.16	32° 20' 7.474 N	103° 26' 18.988 W
9,034.0	7.30	228.50	8,940.7	-805.1	-815.3	486,901.00	817,673.59	32° 20' 7.404 N	103° 26' 19.089 W
9,128.0	7.00	230.10	9,033.9	-812.7	-824.2	486,893.36	817,664.73	32° 20' 7.329 N	103° 26' 19.193 W
9,222.0	8.70	228.60	9,127.1	-821.1	-833.9	486,884.99	817,655.00	32° 20' 7.247 N	103° 26' 19.307 W
9,316.0	9.80	230.50	9,219.8	-830.9	-845.4	486,875.20	817,643.49	32° 20' 7.151 N	103° 26' 19.442 W
9,409.0	9.90	232.50	9,311.5	-840.8	-857.9	486,865.30	817,631.04	32° 20' 7.054 N	103° 26' 19.588 W
9,503.0	9.80	235.70	9,404.1	-850.2	-870.9	486,855.87	817,618.02	32° 20' 6.962 N	103° 26' 19.741 W
9,596.0	10.30	228.30	9,495.7	-860.2	-883.6	486,845.88	817,605.28	32° 20' 6.864 N	103° 26' 19.890 W
9,689.0	9.00	221.20	9,587.3	-871.2	-894.6	486,834.87	817,594.28	32° 20' 6.756 N	103° 26' 20.020 W
9,782.0	8.30	223.80	9,679.3	-881.5	-904.1	486,824.55	817,584.84	32° 20' 6.655 N	103° 26' 20.131 W
9,875.0	7.50	224.70	9,771.4	-890.7	-913.0	486,815.40	817,575.92	32° 20' 6.565 N	103° 26' 20.235 W
9,968.0	7.90	220.20	9,863.6	-899.9	-921.4	486,806.20	817,567.53	32° 20' 6.475 N	103° 26' 20.334 W
10,061.0	7.80	219.10	9,955.7	-909.7	-929.5	486,796.42	817,559.42	32° 20' 6.378 N	103° 26' 20.429 W
10,154.0	6.40	220.40	10,048.0	-918.5	-936.8	486,787.58	817,552.08	32° 20' 6.292 N	103° 26' 20.516 W
10,248.0	7.60	222.20	10,141.3	-927.1	-944.4	486,778.98	817,544.51	32° 20' 6.207 N	103° 26' 20.605 W
10,341.0	8.40	216.80	10,233.4	-937.1	-952.6	486,768.98	817,536.31	32° 20' 6.109 N	103° 26' 20.701 W
10,434.0	7.60	218.00	10,325.5	-947.4	-960.4	486,758.70	817,528.46	32° 20' 6.008 N	103° 26' 20.794 W
10,527.0	6.20	215.30	10,417.8	-956.3	-967.1	486,749.75	817,521.77	32° 20' 5.920 N	103° 26' 20.873 W
10,620.0	5.20	210.40	10,510.3	-964.1	-972.2	486,742.02	817,516.73	32° 20' 5.844 N	103° 26' 20.932 W
10,713.0	5.10	201.80	10,603.0	-971.6	-975.8	486,734.55	817,513.07	32° 20' 5.770 N	103° 26' 20.976 W
10,806.0	5.10	204.60	10,695.6	-979.2	-979.1	486,726.95	817,509.81	32° 20' 5.695 N	103° 26' 21.014 W



Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well South Ridge 8030 2-11 State #10H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3410.0usft (Patterson #566)
Site:	Sec 2, T23-S, R34-E	MD Reference:	WELL @ 3410.0usft (Patterson #566)
Well:	South Ridge 8030 2-11 State #10H	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
10,900.0	3.50	217.80	10,789.3	-985.2	-982.6	486,720.88	817,506.31	32° 20' 5.635 N	103° 26' 21.056 W
10,937.0	3.00	223.30	10,826.3	-986.8	-983.9	486,719.29	817,504.95	32° 20' 5.620 N	103° 26' 21.072 W
11,030.0	14.50	183.50	10,918.1	-1,000.3	-986.3	486,705.84	817,502.57	32° 20' 5.487 N	103° 26' 21.101 W
11,123.0	24.70	181.40	11,005.6	-1,031.4	-987.5	486,674.71	817,501.38	32° 20' 5.179 N	103° 26' 21.118 W
11,216.0	35.40	182.10	11,085.9	-1,077.9	-989.0	486,628.24	817,499.91	32° 20' 4.719 N	103° 26' 21.139 W
11,309.0	44.20	176.50	11,157.4	-1,137.3	-988.0	486,568.82	817,500.91	32° 20' 4.131 N	103° 26' 21.134 W
11,402.0	50.40	163.70	11,220.5	-1,204.2	-975.9	486,501.86	817,512.98	32° 20' 3.468 N	103° 26' 20.999 W
11,496.0	58.00	157.30	11,275.5	-1,275.9	-950.3	486,430.18	817,538.58	32° 20' 2.756 N	103° 26' 20.708 W
11,589.0	65.60	159.20	11,319.4	-1,352.0	-920.0	486,354.10	817,568.88	32° 20' 2.001 N	103° 26' 20.362 W
11,682.0	73.70	167.60	11,351.8	-1,435.5	-895.3	486,270.65	817,593.58	32° 20' 1.173 N	103° 26' 20.082 W
11,694.8	75.45	168.69	11,355.2	-1,447.5	-892.8	486,258.57	817,596.12	32° 20' 1.054 N	103° 26' 20.054 W
Sec. Line Crossed @ 11694.8' MD / 11355.2' TVD									
11,775.0	86.50	175.20	11,367.8	-1,525.8	-881.8	486,180.30	817,607.13	32° 20' 0.278 N	103° 26' 19.933 W
11,835.0	90.50	176.40	11,369.3	-1,585.6	-877.4	486,120.50	817,611.52	32° 19' 59.686 N	103° 26' 19.888 W
11,928.0	91.80	176.20	11,367.5	-1,678.4	-871.4	486,027.71	817,617.52	32° 19' 58.768 N	103° 26' 19.827 W
12,021.0	90.50	175.70	11,365.6	-1,771.1	-864.8	485,934.97	817,624.09	32° 19' 57.849 N	103° 26' 19.760 W
12,114.0	91.50	175.40	11,364.0	-1,863.8	-857.6	485,842.26	817,631.30	32° 19' 56.931 N	103° 26' 19.685 W
12,207.0	89.80	177.60	11,362.9	-1,956.7	-851.9	485,749.45	817,636.98	32° 19' 56.013 N	103° 26' 19.628 W
12,300.0	89.70	177.50	11,363.3	-2,049.6	-847.9	485,656.54	817,640.95	32° 19' 55.093 N	103° 26' 19.590 W
12,393.0	88.20	177.50	11,365.0	-2,142.5	-843.9	485,563.64	817,645.01	32° 19' 54.173 N	103° 26' 19.552 W
12,487.0	88.70	178.00	11,367.6	-2,236.4	-840.2	485,469.75	817,648.70	32° 19' 53.244 N	103° 26' 19.518 W
12,580.0	89.60	178.40	11,369.0	-2,329.3	-837.3	485,376.81	817,651.62	32° 19' 52.324 N	103° 26' 19.493 W
12,674.0	91.20	178.70	11,368.3	-2,423.3	-834.9	485,282.84	817,654.00	32° 19' 51.394 N	103° 26' 19.475 W
12,768.0	89.60	177.80	11,367.7	-2,517.2	-832.0	485,188.89	817,656.87	32° 19' 50.464 N	103° 26' 19.450 W
12,860.0	89.20	177.00	11,368.6	-2,609.1	-827.9	485,096.99	817,661.04	32° 19' 49.555 N	103° 26' 19.411 W
12,954.0	87.90	178.20	11,371.0	-2,703.0	-823.9	485,003.11	817,664.97	32° 19' 48.626 N	103° 26' 19.374 W
13,047.0	89.10	178.20	11,373.4	-2,795.9	-821.0	484,910.19	817,667.89	32° 19' 47.706 N	103° 26' 19.349 W
13,140.0	88.00	180.40	11,375.8	-2,888.9	-819.9	484,817.23	817,669.03	32° 19' 46.786 N	103° 26' 19.345 W
13,232.0	88.00	180.70	11,379.0	-2,980.8	-820.8	484,725.29	817,668.15	32° 19' 45.876 N	103° 26' 19.364 W
13,326.0	88.70	180.90	11,381.7	-3,074.8	-822.1	484,631.34	817,666.84	32° 19' 44.947 N	103° 26' 19.388 W
13,420.0	89.40	181.40	11,383.3	-3,168.7	-823.9	484,537.38	817,664.95	32° 19' 44.017 N	103° 26' 19.419 W
13,513.0	90.20	180.70	11,383.6	-3,261.7	-825.7	484,444.39	817,663.25	32° 19' 43.097 N	103° 26' 19.448 W
13,606.0	91.30	181.50	11,382.4	-3,354.7	-827.4	484,351.42	817,661.46	32° 19' 42.178 N	103° 26' 19.478 W
13,699.0	92.10	180.20	11,379.6	-3,447.6	-828.8	484,258.47	817,660.08	32° 19' 41.258 N	103° 26' 19.503 W
13,792.0	93.80	179.40	11,374.8	-3,540.5	-828.5	484,165.60	817,660.41	32° 19' 40.339 N	103° 26' 19.509 W
13,886.0	92.30	179.80	11,369.8	-3,634.4	-827.8	484,071.74	817,661.06	32° 19' 39.410 N	103° 26' 19.510 W
13,979.0	92.20	179.90	11,366.2	-3,727.3	-827.6	483,978.81	817,661.30	32° 19' 38.491 N	103° 26' 19.516 W
14,072.0	90.30	179.90	11,364.1	-3,820.3	-827.4	483,885.84	817,661.47	32° 19' 37.571 N	103° 26' 19.523 W
14,165.0	90.80	179.90	11,363.2	-3,913.3	-827.3	483,792.84	817,661.63	32° 19' 36.651 N	103° 26' 19.531 W
14,258.0	90.30	179.80	11,362.4	-4,006.3	-827.0	483,699.85	817,661.87	32° 19' 35.730 N	103° 26' 19.537 W
14,352.0	90.30	179.60	11,361.9	-4,100.2	-826.5	483,605.85	817,662.36	32° 19' 34.800 N	103° 26' 19.540 W
14,445.0	91.60	180.40	11,360.3	-4,193.2	-826.5	483,512.87	817,662.36	32° 19' 33.880 N	103° 26' 19.549 W
14,539.0	92.00	181.60	11,357.4	-4,287.2	-828.2	483,418.93	817,660.72	32° 19' 32.951 N	103° 26' 19.578 W
14,632.0	92.10	179.00	11,354.0	-4,380.1	-828.7	483,326.00	817,660.24	32° 19' 32.031 N	103° 26' 19.592 W
14,725.0	92.70	177.90	11,350.1	-4,473.0	-826.1	483,233.12	817,662.75	32° 19' 31.112 N	103° 26' 19.572 W
14,818.0	94.20	177.70	11,344.6	-4,565.7	-822.6	483,140.36	817,666.31	32° 19' 30.194 N	103° 26' 19.540 W
14,911.0	91.50	177.60	11,339.9	-4,658.5	-818.8	483,047.56	817,670.12	32° 19' 29.276 N	103° 26' 19.504 W
15,004.0	88.80	176.80	11,339.7	-4,751.4	-814.2	482,954.68	817,674.66	32° 19' 28.356 N	103° 26' 19.460 W
15,097.0	89.50	176.70	11,341.1	-4,844.3	-809.0	482,861.84	817,679.94	32° 19' 27.437 N	103° 26' 19.408 W
15,190.0	90.60	178.80	11,341.0	-4,937.2	-805.3	482,768.92	817,683.59	32° 19' 26.517 N	103° 26' 19.374 W
15,283.0	89.50	179.90	11,340.9	-5,030.2	-804.3	482,675.93	817,684.64	32° 19' 25.597 N	103° 26' 19.371 W
15,376.0	90.60	180.00	11,340.8	-5,123.2	-804.2	482,582.93	817,684.72	32° 19' 24.677 N	103° 26' 19.379 W
15,470.0	90.70	179.90	11,339.8	-5,217.2	-804.1	482,488.93	817,684.81	32° 19' 23.747 N	103° 26' 19.387 W
15,563.0	89.00	179.50	11,340.0	-5,310.2	-803.6	482,395.94	817,685.29	32° 19' 22.827 N	103° 26' 19.391 W
15,656.0	89.10	178.70	11,341.5	-5,403.1	-802.1	482,302.96	817,686.75	32° 19' 21.907 N	103° 26' 19.383 W



Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well South Ridge 8030 2-11 State #10H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3410.0usft (Patterson #566)
Site:	Sec 2, T23-S, R34-E	MD Reference:	WELL @ 3410.0usft (Patterson #566)
Well:	South Ridge 8030 2-11 State #10H	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
15,748.0	88.40	178.20	11,343.5	-5,495.1	-799.7	482,211.02	817,689.24	32° 19' 20.997 N	103° 26' 19.363 W
15,841.0	89.40	178.20	11,345.3	-5,588.0	-796.7	482,118.08	817,692.16	32° 19' 20.077 N	103° 26' 19.338 W
15,934.0	88.60	177.70	11,347.0	-5,680.9	-793.4	482,025.16	817,695.49	32° 19' 19.157 N	103° 26' 19.308 W
16,027.0	89.80	177.80	11,348.3	-5,773.9	-789.8	481,932.24	817,699.14	32° 19' 18.237 N	103° 26' 19.275 W
16,121.0	89.90	179.00	11,348.5	-5,867.8	-787.1	481,838.28	817,701.76	32° 19' 17.307 N	103° 26' 19.253 W
16,214.0	89.60	179.10	11,348.9	-5,960.8	-785.6	481,745.29	817,703.31	32° 19' 16.387 N	103° 26' 19.244 W
16,307.0	90.80	179.20	11,348.6	-6,053.8	-784.2	481,652.31	817,704.68	32° 19' 15.467 N	103° 26' 19.237 W
16,400.0	89.10	179.80	11,348.7	-6,146.8	-783.4	481,559.31	817,705.50	32° 19' 14.547 N	103° 26' 19.237 W
16,493.0	89.80	180.20	11,349.6	-6,239.8	-783.4	481,466.32	817,705.50	32° 19' 13.627 N	103° 26' 19.246 W
16,587.0	91.20	180.10	11,348.7	-6,333.8	-783.6	481,372.33	817,705.25	32° 19' 12.697 N	103° 26' 19.258 W
16,680.0	89.50	180.50	11,348.2	-6,426.8	-784.1	481,279.33	817,704.76	32° 19' 11.777 N	103° 26' 19.273 W
16,773.0	89.30	180.50	11,349.1	-6,519.8	-784.9	481,186.34	817,703.95	32° 19' 10.857 N	103° 26' 19.291 W
16,866.0	90.50	180.60	11,349.3	-6,612.8	-785.8	481,093.35	817,703.06	32° 19' 9.936 N	103° 26' 19.310 W
16,960.0	89.30	180.30	11,349.5	-6,706.7	-786.6	480,999.35	817,702.32	32° 19' 9.006 N	103° 26' 19.328 W
17,053.0	88.70	180.20	11,351.1	-6,799.7	-787.0	480,906.37	817,701.92	32° 19' 8.086 N	103° 26' 19.342 W
17,146.0	90.20	180.30	11,352.0	-6,892.7	-787.4	480,813.37	817,701.51	32° 19' 7.166 N	103° 26' 19.356 W
17,239.0	88.90	180.30	11,352.7	-6,985.7	-787.9	480,720.38	817,701.02	32° 19' 6.246 N	103° 26' 19.370 W
17,332.0	88.60	180.30	11,354.7	-7,078.7	-788.4	480,627.40	817,700.54	32° 19' 5.326 N	103° 26' 19.385 W
17,425.0	89.20	180.40	11,356.5	-7,171.7	-788.9	480,534.42	817,699.97	32° 19' 4.406 N	103° 26' 19.401 W
17,518.0	90.20	180.20	11,357.0	-7,264.7	-789.4	480,441.43	817,699.48	32° 19' 3.486 N	103° 26' 19.416 W
17,611.0	89.30	180.40	11,357.4	-7,357.7	-789.9	480,348.43	817,698.99	32° 19' 2.566 N	103° 26' 19.430 W
17,705.0	90.60	181.20	11,357.5	-7,451.7	-791.2	480,254.44	817,697.68	32° 19' 1.636 N	103° 26' 19.455 W
17,798.0	90.30	180.80	11,356.8	-7,544.6	-792.8	480,161.46	817,696.06	32° 19' 0.716 N	103° 26' 19.483 W
17,892.0	88.50	179.90	11,357.8	-7,638.6	-793.4	480,067.47	817,695.48	32° 18' 59.786 N	103° 26' 19.499 W
17,986.0	89.30	179.70	11,359.6	-7,732.6	-793.1	479,973.49	817,695.81	32° 18' 58.856 N	103° 26' 19.504 W
18,079.0	89.50	179.00	11,360.5	-7,825.6	-792.0	479,880.50	817,696.87	32° 18' 57.936 N	103° 26' 19.501 W
18,172.0	89.80	178.70	11,361.1	-7,918.6	-790.2	479,787.52	817,698.73	32° 18' 57.016 N	103° 26' 19.488 W
18,265.0	90.60	178.40	11,360.8	-8,011.5	-787.8	479,694.55	817,701.09	32° 18' 56.096 N	103° 26' 19.470 W
18,357.0	87.10	178.60	11,362.6	-8,103.5	-785.4	479,602.62	817,703.49	32° 18' 55.186 N	103° 26' 19.450 W
18,450.0	85.40	177.60	11,368.7	-8,196.2	-782.3	479,509.87	817,706.57	32° 18' 54.268 N	103° 26' 19.424 W
18,543.0	86.70	178.90	11,375.1	-8,289.0	-779.5	479,417.14	817,709.40	32° 18' 53.350 N	103° 26' 19.400 W
18,635.0	87.40	179.20	11,379.8	-8,380.8	-778.0	479,325.28	817,710.93	32° 18' 52.441 N	103° 26' 19.391 W
18,728.0	88.90	179.00	11,382.8	-8,473.8	-776.5	479,232.34	817,712.39	32° 18' 51.522 N	103° 26' 19.383 W
18,820.0	90.40	178.80	11,383.4	-8,565.7	-774.7	479,140.36	817,714.15	32° 18' 50.611 N	103° 26' 19.371 W
18,914.0	90.50	179.80	11,382.7	-8,659.7	-773.6	479,046.37	817,715.30	32° 18' 49.681 N	103° 26' 19.367 W
19,007.0	90.30	179.90	11,382.0	-8,752.7	-773.4	478,953.37	817,715.54	32° 18' 48.761 N	103° 26' 19.373 W
19,100.0	91.40	180.00	11,380.6	-8,845.7	-773.3	478,860.39	817,715.62	32° 18' 47.841 N	103° 26' 19.381 W
19,193.0	92.60	180.40	11,377.4	-8,938.7	-773.6	478,767.44	817,715.30	32° 18' 46.921 N	103° 26' 19.394 W
19,286.0	90.90	181.50	11,374.6	-9,031.6	-775.1	478,674.51	817,713.76	32° 18' 46.002 N	103° 26' 19.421 W
19,380.0	90.30	182.80	11,373.6	-9,125.5	-778.7	478,580.58	817,710.23	32° 18' 45.073 N	103° 26' 19.471 W
19,472.0	91.60	183.20	11,372.0	-9,217.4	-783.5	478,488.72	817,705.42	32° 18' 44.164 N	103° 26' 19.536 W
19,508.0	92.50	182.90	11,370.8	-9,253.3	-785.4	478,452.79	817,703.50	32° 18' 43.809 N	103° 26' 19.562 W
19,517.3	92.50	182.90	11,370.4	-9,262.6	-785.9	478,443.52	817,703.03	32° 18' 43.717 N	103° 26' 19.569 W
100' FSL Crossed @ 19517.3' MD / 11370.4' TVD									
19,568.0	92.50	182.90	11,368.1	-9,313.2	-788.4	478,392.93	817,700.47	32° 18' 43.217 N	103° 26' 19.603 W
TD @ 19568.0' MD / 11368.1' TVD									



Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well South Ridge 8030 2-11 State #10H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3410.0usft (Patterson #566)
Site:	Sec 2, T23-S, R34-E	MD Reference:	WELL @ 3410.0usft (Patterson #566)
Well:	South Ridge 8030 2-11 State #10H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
164.0	164.0	-0.6	-0.3	First MWD Survey @ 164.0'MD / 164.0' TVD
3,597.6	3,577.9	-187.2	-189.3	LL Crossed @ 3597.6' MD / 3577.9' TVD
5,732.3	5,676.0	-461.2	-466.7	280' VHL Crossed @ 5732.3' MD / 5676.0' TVD
11,694.8	11,355.2	-1,447.5	-892.8	Sec. Line Crossed @ 11694.8' MD / 11355.2' TVD
19,517.3	11,370.4	-9,262.6	-785.9	100' FSL Crossed @ 19517.3' MD / 11370.4' TVD
19,568.0	11,368.1	-9,313.2	-788.4	TD @ 19568.0' MD / 11368.1' TVD

Checked By: _____

Approved By: _____

Date: _____

Submit 1 Copy To Appropriate District

Office

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

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-48546
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 97293
7. Lease Name or Unit Agreement Name SOUTH RIDGE 8030 2-11 STATE COM Property Code: 327076
8. Well Number 10H
9. OGRID Number 260297
10. Pool name or Wildcat Ojo Chiso; Bone Spring, south
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3385'

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
BTA OIL PRODUCERS, LLC

3. Address of Operator
104 S. PECOS; MIDLAND, TX. 79701

4. Well Location

Unit Letter 1 : 1213 feet from the NORTH line and 1131 feet from the EAST line
 Section 2 Township 23-S Range 34-E NMPM County LEA

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: COMPLETION FRAC SUNDRY ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attached.

Spud Date: 03/11/2022

Rig Release Date: 05/01/2022

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Katy Reddell* TITLE REGULATORY ANALYST DATE 05/03/2022

Type or print name KATY REDDELL E-mail address: kreddell@btaoil.com PHONE: 432-682-3753

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any):

SOUTH RIDGE 8030 2-11 STATE COM 10H												
30-025-48546	Property Code: 327076											
<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>
4/28/2022	19566	9500	30 MIN. GOOD TEST	6/21/2022	11815 - 19515	476,813 bbls slickwater	18.47 MM#s of 100 mesh native sand	6/24/2022	7/10/2022	J-slot), 331 jts of 2-7/8" prod tbg	L-80 PACKER @10888	7/12/2022

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					
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 SOUTH RIDGE 8030 2-11 STATE COM 6. Well Number: 10H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
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 OJO CHISO; BONE SPRING, SOUTH				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	1	2	22S	34E		1213	N	1131	E	LEA
BH:	O	11	23S	34E		48.1	S	2001	E	LEA
13. Date Spudded 03/11/2022	14. Date T.D. Reached 04/28/2022		15. Date Rig Released 05/01/2022		16. Date Completed (Ready to Produce) 07/12/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3385		
18. Total Measured Depth of Well 19,568'			19. Plug Back Measured Depth 19,566'		20. Was Directional Survey Made? YES			21. Type Electric and Other Logs Run MWD GAMMA RAY		
22. Producing Interval(s), of this completion - Top, Bottom, Name 11,815 – 19,515 BONESPRING										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8		54.5		1,750		17 1/2		1160		
9 5/8		40		5,432		12 1/4		1,815		
5 1/2		18		19,568		8 3/4		3,040		
24. LINER RECORD										
SIZE	TOP	BOTTOM		SACKS CEMENT	SCREEN					
25. TUBING RECORD										
SIZE	DEPTH SET		PACKER SET							
	2 7/8		10,888							
26. Perforation record (interval, size, and number)										
11,815' – 19,515'						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						19,515'		476,813 TOTAL BBLs SLICK WATER; 18.47MM #S 100 MESH SAND.		
28. PRODUCTION										
Date First Production 07/12/2022		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) GAS LIFT					Well Status (<i>Prod. or Shut-in</i>) PROD			
Date of Test 07/22/2022	24	Choke Size 25/64	Prod'n For Test Period 24 HR	Oil - Bbl 1607	Gas - MCF 1677	Water - Bbl. 2423	Gas - Oil Ratio 1043			
Flow Tubing Press. 2650	Casing Pressure	Calculated 24- Hour Rate	Oil - Bbl. 1607	Gas - MCF 1677	Water - Bbl. 2683	Oil Gravity - API - (<i>Corr.</i>) 40				
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 <i>Katy Reddell</i> Name KATY REDDELL REGULATORY ANALYST 7/25/2022 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 5545	T. Ojo Alamo	T. Penn A"
T. Salt 1987	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 3212	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 5379	T. Morrison	
T. Drinkard	T. Bone Springs 8448	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	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. 2, from.....to.....

No. 3, 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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Re: SOUTH RIDGE 10H CBL FW: [EXTERNAL] Action ID: 325290

Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>

That is okay with OCD. Just need one prior to P&A now.

Get [Outlook for iOS](#)

From: Trace Wohlfahrt <Tracew@btaoil.com>

Sent: Monday, April 1, 2024 12:56:39 PM

To: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>; Katy W. Reddell <KReddell@btaoil.com>; Nick Eaton <NEaton@btaoil.com>

Cc: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>; Sammy Hajar <SHajar@btaoil.com>

Subject: RE: SOUTH RIDGE 10H CBL FW: [EXTERNAL] Action ID: 325290

Ward,

Thanks for the clarification on the rules. We plan on pulling bond logs during toe preps in New Mexico moving forward. This well was completed in the summer of 2022 prior to the rule changes last fall. I don't mind pulling a bond log on it next time we need to work on it, but it is currently producing via gas lift with tubing in the well. Is it acceptable to wait until the next time we have the tubing out of the well?

Thanks,

Trace Wohlfahrt
BTA Oil Producers

From: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>

Sent: Monday, April 1, 2024 12:08 PM

To: Katy W. Reddell <KReddell@btaoil.com>; Trace Wohlfahrt <Tracew@btaoil.com>; Nick Eaton <NEaton@btaoil.com>

Cc: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>; Sammy Hajar <SHajar@btaoil.com>

Subject: RE: SOUTH RIDGE 10H CBL FW: [EXTERNAL] Action ID: 325290

Caution: This email originated from outside of BTA. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Katy-

The OCD has seen a number of instances where the cement has not achieved the proper tie-back for the production/intermediate casing over-lap. We have also seen numerous instances where cement has not been circulated to surface on either the surface casing and/or the intermediate casing. The properly protect/isolate the strata downhole, the new policy as of last fall is "If cement is not circulated to surface during cementing operations, then a CBL is required." This pertains to all strings of casing.

For the well listed below, a calculated TOC is shown, which is less than the required tie-back for the production casing. A pressure test does not confirm the TOC, only confirms that you were not able to inject into any potentially exposed formation(s) (assuming no tie-back) at the test pressure.

Also, OCD is changing the P&A stipulations with the new rules requiring a CBL be ran prior to plugging if a CBL has not previously been obtained.

Ward

From: Katy W. Reddell <KReddell@btaoil.com>

Sent: Monday, April 1, 2024 10:06 AM

To: Trace Wohlfahrt <Tracew@btaoil.com>; Nick Eaton <NEaton@btaoil.com>; Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>

Cc: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>; Sammy Hajar <SHajar@btaoil.com>

Subject: RE: SOUTH RIDGE 10H CBL FW: [EXTERNAL] Action ID: 325290

Hi Ward,

BTA's South Ridge 8030 2-11 State Com 10H completion C-104C, Action ID: 325290, is in question for approval due to top of cement tie back to intermediate casing. Intermediate casing is set at 5,432' and the top of cement for production casing is 5,386'. We pressure tested 5-1/2 X 9-5/8" annulus to 1000 psi for 10 min. Please see the attached well bore diagram, and C-103N spreadsheet for reference.

Was this well completed prior to the rule change requiring running a CBL?

Please advise.

Thank you,

Katy Reddell

From: Trace Wohlfahrt <Tracew@btaoil.com>

Sent: Monday, April 1, 2024 10:32 AM

To: Katy W. Reddell <KReddell@btaoil.com>; Nick Eaton <NEaton@btaoil.com>

Subject: RE: SOUTH RIDGE 10H CBL FW: [EXTERNAL] Action ID: 325290

Katy,

Can you confirm that this well was completed prior to the rule change requiring running a CBL?

Thanks,

Trace

From: Katy W. Reddell <KReddell@btaoil.com>

Sent: Monday, April 1, 2024 10:25 AM

To: Trace Wohlfahrt <Tracew@btaoil.com>; Nick Eaton <NEaton@btaoil.com>

Subject: SOUTH RIDGE 10H CBL FW: [EXTERNAL] Action ID: 325290

See below for Sarah's comment about the need for a CBL.

From: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>
Sent: Wednesday, March 27, 2024 4:26 PM
To: Katy W. Reddell <KReddell@btaoil.com>
Subject: RE: [EXTERNAL] Action ID: 325290

Caution: This email originated from outside of BTA. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Katy,

Thank you for the email. A CBL is required. The CBL will confirm if the required overlap was or was not achieved.

For further questions on the CBL, please reach out to the OCD Engineering Permitting Supervisor, Ward Rikala, at ward.rikala@emnrd.nm.gov or (505) 584-0170.

Thanks,

Sarah McGrath
Petroleum Specialist - A
Oil Conservation Division
505-670-5601

From: Katy W. Reddell <KReddell@btaoil.com>
Sent: Wednesday, March 27, 2024 2:16 PM
To: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Action ID: 325290

Please find attached my engineer's WBD explaining the pressure test that was performed showing the tested 5-1/2 X 9-5/8" annulus to 1000 psi for 10 min on 5/24/2022.

They tell me this is actually better than a CBL do to the ability to pressure up this casing.

Thanks so much!

Please let me know!

Katy

From: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>
Sent: Wednesday, March 27, 2024 2:17 PM
To: Katy W. Reddell <KReddell@btaoil.com>
Subject: RE: [EXTERNAL] Action ID: 325290

Caution: This email originated from outside of BTA. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thank you Katy, please keep me posted. I found the production casing TOC documented on the C-103N, and that shows less than 50' tieback if I remember correctly.

Thanks,

Sarah McGrath

Petroleum Specialist - A
Oil Conservation Division
505-670-5601

From: Katy W. Reddell <KReddell@btaoil.com>

Sent: Wednesday, March 27, 2024 12:54 PM

To: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Action ID: 325290

Hi Sarah,

The TOC is listed on the Well Bore Diagram. I have our engineers looking at this right now. I'll get back to you.

Thanks so much!

Katy

From: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>

Sent: Wednesday, March 27, 2024 11:13 AM

To: Katy W. Reddell <KReddell@btaoil.com>

Subject: RE: [EXTERNAL] Action ID: 325290

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Katy,

Based on the production casing TOC, there is less than 200' cement tieback into the intermediate casing string. Was a cement squeeze performed? If so, please submit a C-103N with the cement details and new TOC. Otherwise, yes, a CBL is required. Based on the CBL, remedial cement may be a requirement.

Thank you,

Sarah McGrath

Petroleum Specialist - A
Oil Conservation Division
505-670-5601

From: Katy W. Reddell <KReddell@btaoil.com>

Sent: Wednesday, March 27, 2024 9:05 AM

To: McGrath, Sarah, EMNRD <SarahK.McGrath@emnrd.nm.gov>

Subject: [EXTERNAL] Action ID: 325290

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Thank you so much!

What about Action ID: 325290? This is the SOUTH RIDGE 8030 2-11 STATE COM 10H. I have in my notes that we need to run a CBL? Our engineers are hesitant to do that but will if it is required.

Thank you,

Katy

Katy Reddell

Regulatory Analyst

BTA Oil Producers, LLC

104 S. Pecos

Midland, TX. 79701

Office: 432-682-3753

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Oil Conservation Division
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ACKNOWLEDGMENTS

Action 325290

ACKNOWLEDGMENTS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 325290
	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.

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CONDITIONS

Action 325290

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 325290
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	None	4/5/2024