

Well Name: VACA DRAW 9418 10 FEDERAL	Well Location: T25S / R33E / SEC 10 / NENE /	County or Parish/State:
Well Number: 31H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM097153	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549311	Well Status: Approved Application for Permit to Drill	Operator: BTA OIL PRODUCERS LLC

Notice of Intent

Sundry ID: 2672089

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 05/17/2022	Time Sundry Submitted: 09:08
Date proposed operation will begin: 05/17/2022	

Procedure Description: BTA OIL PRODUCERS LLC RESPECTFULLY REQUESTS THE FOLLOWING FOOTAGE, DRILLING, AND CASING DESIGN CHANGES TO THE ORIGINAL APD AS APPROVED. PLEASE SEE ATTACHED DOCUMENT FOR MORE DETAILS. ORIGINAL FOOTAGES SHL: 110' FNL, 1000' FEL (NO CHANGE) FTP: 100' FNL, 990' FEL LTP: 100' FSL, 990' FEL BHL: 50' FSL, 990' FEL NEW FOOTAGES FTP: 100' FNL, 430' FEL LTP: 100' FSL, 430' FEL BHL: 50' FSL, 430' FEL

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Vaca_Draw_31H_directional_plan_20220517085651.pdf
- Vaca_Draw_31H_wall_plot_20220517085651.pdf
- Vaca_Draw_31H_Casing_20220517085635.JPG
- Signed___Revised_Vaca_Draw_9418_10_Fed_31H_C102_20220517085626.pdf

Well Name: VACA DRAW 9418 10
FEDERAL

Well Location: T25S / R33E / SEC 10 /
NENE /

County or Parish/State:

Well Number: 31H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM097153

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549311

Well Status: Approved Application for
Permit to Drill

Operator: BTA OIL
PRODUCERS LLC

Conditions of Approval

Specialist Review

VACA_DRAW_9418_10_FEDERAL_31H_Drilling_Sundry_2672089_COA_OTA_20220531092501.pdf

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: SAMMY HAJAR

Signed on: MAY 17, 2022 09:05 AM

Name: BTA OIL PRODUCERS LLC

Title: Regulatory Analyst

Street Address: 104 S. Pecos

City: Midland

State: TX

Phone: (432) 682-3753

Email address: shajar@btaoil.com

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: AJIBOLA OLABODE

BLM POC Title: Engineer

BLM POC Phone: 5752342231

BLM POC Email Address: OAJIBOLAEIT@BLM.GOV

Disposition: Approved

Disposition Date: 05/31/2022

Signature: Olabode Thomas Ajibola

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA OIL PRODUCERS LLC
LEASE NO.:	NMNM97153
WELL NAME & NO.:	VACA DRAW 9418 10 FEDERAL 31H
SURFACE HOLE FOOTAGE:	110'/N & 1000'/E
BOTTOM HOLE FOOTAGE:	50'/S & 430'/E
LOCATION:	Section 10, T.25 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☐ Multibowl	☒ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

All Previous COAs Still Apply.

A. CASING

Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **1,155** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength,

whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing, which shall be set at approximately **5,120** feet is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

OTA05312022

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49311	Pool Code 96392	Pool Name Red Hills ; 2nd Bone Spring
Property Code 317432	Property Name VACA DRAW 9418 10 FEDERAL	Well Number 31H
OGRID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Elevation 3420'

Surface Location

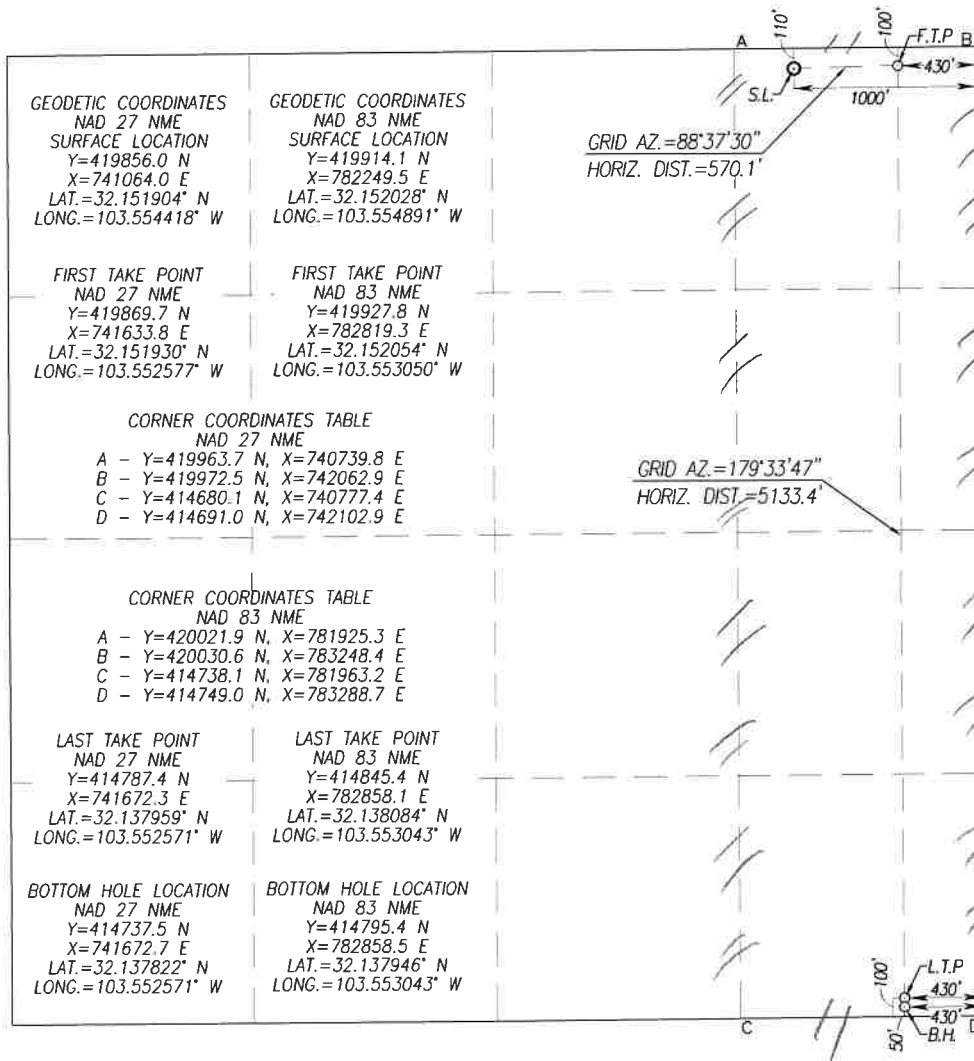
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	10	25-S	33-E		110	NORTH	1000	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	25-S	33-E		50	SOUTH	430	EAST	LEA

Dedicated Acres 160	Joint or Infill	Consolidation Code	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



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

Signature: *Sammy Hajar* Date: **5/17/2022**
Printed Name: **Sammy Hajar**
E-mail Address: **SHAJAR@BTAOIL.COM**

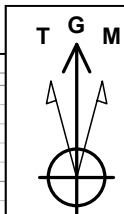
SURVEYOR CERTIFICATION

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 of Survey: **04/06/2022**
Signature & Seal of Professional Surveyor: *Ronald J. Eidson*

Certificate Number: **3239**
Gary G. Eidson 12641
Ronald J. Eidson 3239
ACK REL W O 20110338 JWSC W O : 22 13 0107

BTA Oil Producers, LLC



Azimuths to Grid North
True North: -0.41°
Magnetic North: 7.32°

Magnetic Field
Strength: 48751.4nT
Dip Angle: 60.18°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: Vaca Draw #31H

+N/-S	+E/-W	Northing	Ground Level Easting	3420.0 Latitude	Longitude
0.0	0.0	419914.10	782249.50	32° 9' 7.301 N	103° 33' 17.608 W

SITE DETAILS: Vaca Draw Sec 10, T25S, R33E

Site Centre Northing: 419812.34
Easting: 779596.22

Positional Uncertainty: 0.0
Convergence: 0.41
Local North: Grid

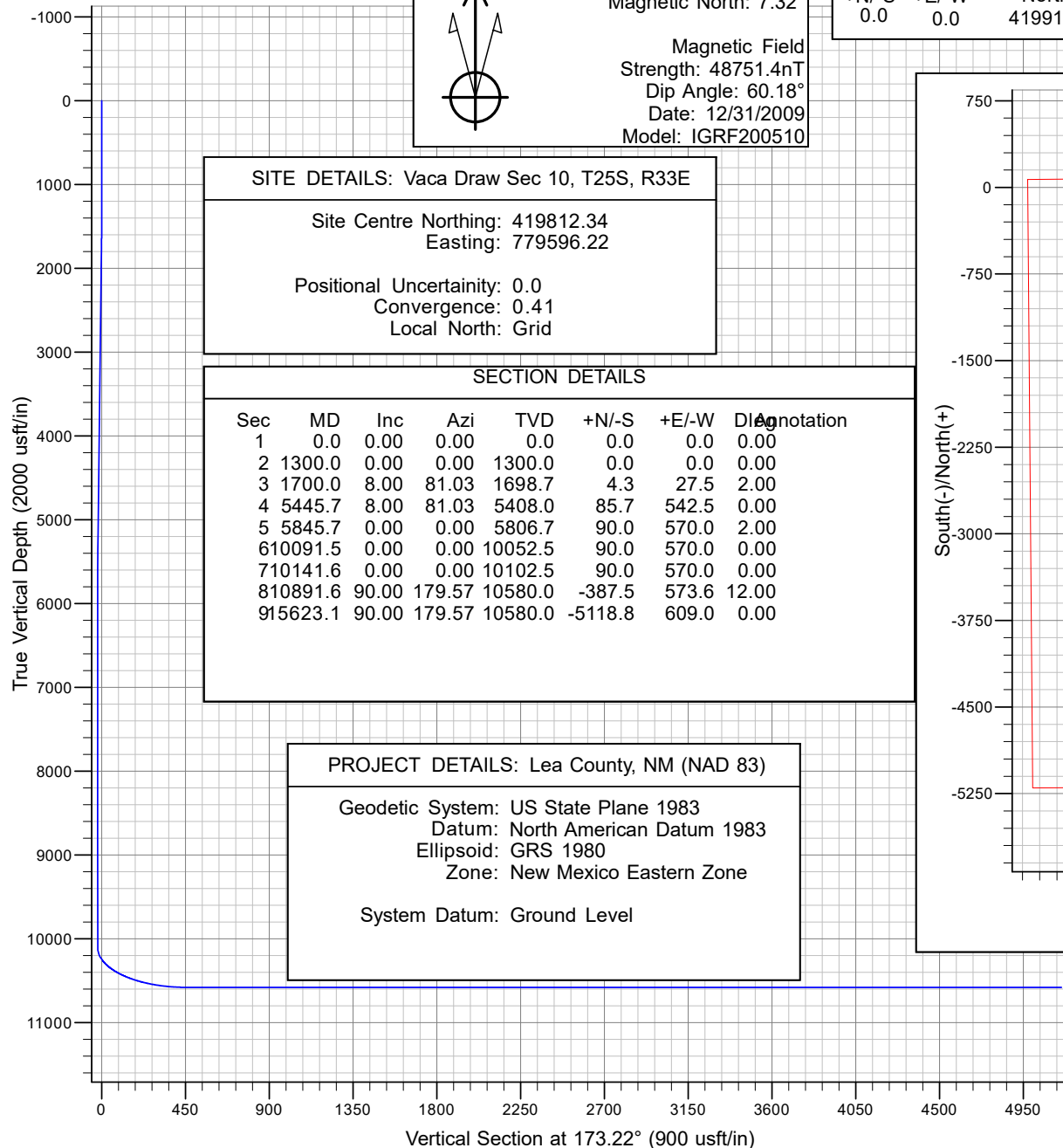
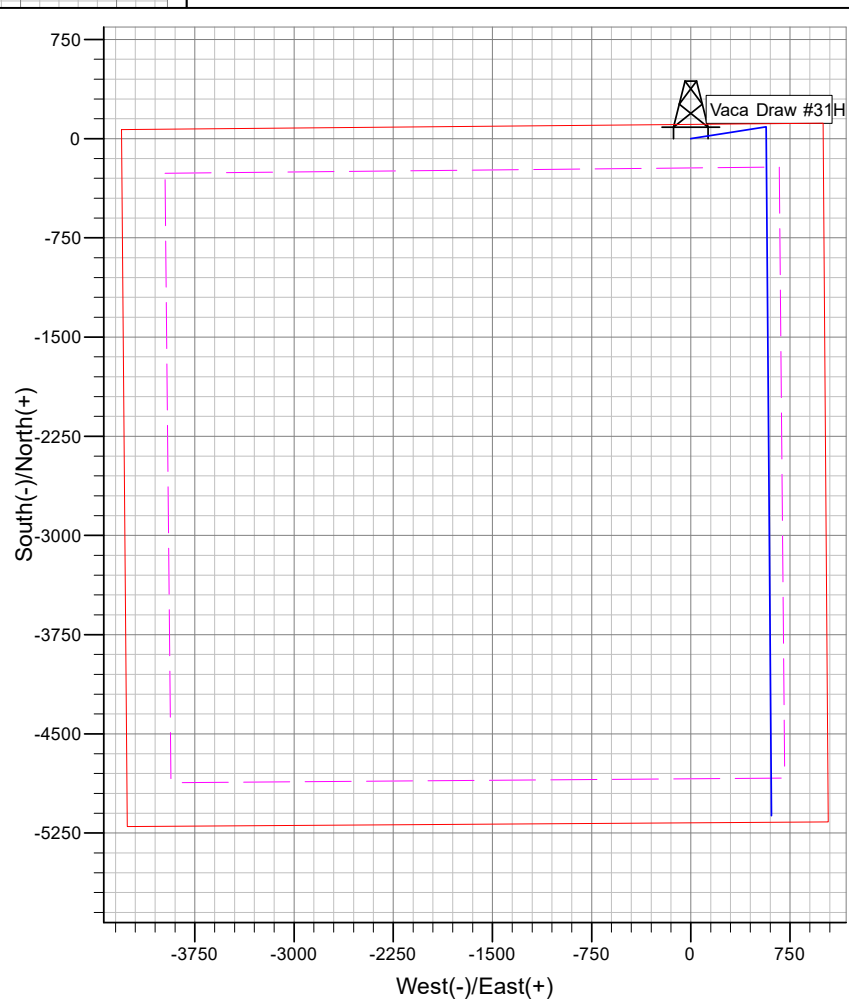
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diagn	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	
3	1700.0	8.00	81.03	1698.7	4.3	27.5	2.00	
4	5445.7	8.00	81.03	5408.0	85.7	542.5	0.00	
5	5845.7	0.00	0.00	5806.7	90.0	570.0	2.00	
6	10091.5	0.00	0.00	10052.5	90.0	570.0	0.00	
7	10141.6	0.00	0.00	10102.5	90.0	570.0	0.00	
8	10891.6	90.00	179.57	10580.0	-387.5	573.6	12.00	
9	15623.1	90.00	179.57	10580.0	-5118.8	609.0	0.00	

PROJECT DETAILS: Lea County, NM (NAD 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Ground Level



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Vaca Draw Sec 10, T25S, R33E

Vaca Draw #31H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

16 May, 2022

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #31H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3420.0usft
Site:	Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:	Vaca Draw #31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, NM (NAD 83), Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Vaca Draw Sec 10, T25S, R33E		
Site Position:		Northing:	419,812.34 usft
From:	Map	Easting:	779,596.21 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 6.483 N
		Longitude:	103° 33' 48.478 W

Well	Vaca Draw #31H					
Well Position	+N/-S	0.0 usft	Northing:	419,914.10 usft	Latitude:	32° 9' 7.301 N
	+E/-W	0.0 usft	Easting:	782,249.50 usft	Longitude:	103° 33' 17.608 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,420.0 usft
Grid Convergence:		0.41 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.74	60.18	48,751.44125861

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	173.22

Plan Survey Tool Program	Date	5/16/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	15,623.1 Design #1 (Wellbore #1)		

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #31H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3420.0usft
Site:	Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:	Vaca Draw #31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
100.0	0.00	0.00	100.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
200.0	0.00	0.00	200.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
300.0	0.00	0.00	300.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
400.0	0.00	0.00	400.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
500.0	0.00	0.00	500.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
600.0	0.00	0.00	600.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
700.0	0.00	0.00	700.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
800.0	0.00	0.00	800.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
900.0	0.00	0.00	900.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	419,914.10	782,249.50	32° 9' 7.301 N	103° 33' 17.608 W
1,400.0	2.00	81.03	1,400.0	0.3	1.7	419,914.37	782,251.22	32° 9' 7.304 N	103° 33' 17.588 W
1,500.0	4.00	81.03	1,499.8	1.1	6.9	419,915.19	782,256.39	32° 9' 7.311 N	103° 33' 17.528 W
1,600.0	6.00	81.03	1,599.5	2.4	15.5	419,916.55	782,265.00	32° 9' 7.324 N	103° 33' 17.428 W
1,700.0	8.00	81.03	1,698.7	4.3	27.5	419,918.45	782,277.04	32° 9' 7.342 N	103° 33' 17.288 W
1,800.0	8.00	81.03	1,797.7	6.5	41.3	419,920.62	782,290.78	32° 9' 7.362 N	103° 33' 17.128 W
1,900.0	8.00	81.03	1,896.8	8.7	55.0	419,922.79	782,304.53	32° 9' 7.383 N	103° 33' 16.967 W
2,000.0	8.00	81.03	1,995.8	10.9	68.8	419,924.96	782,318.28	32° 9' 7.403 N	103° 33' 16.807 W
2,100.0	8.00	81.03	2,094.8	13.0	82.5	419,927.13	782,332.02	32° 9' 7.424 N	103° 33' 16.647 W
2,200.0	8.00	81.03	2,193.8	15.2	96.3	419,929.30	782,345.77	32° 9' 7.444 N	103° 33' 16.487 W
2,300.0	8.00	81.03	2,292.9	17.4	110.0	419,931.47	782,359.52	32° 9' 7.465 N	103° 33' 16.327 W
2,400.0	8.00	81.03	2,391.9	19.5	123.8	419,933.64	782,373.26	32° 9' 7.485 N	103° 33' 16.167 W
2,500.0	8.00	81.03	2,490.9	21.7	137.5	419,935.81	782,387.01	32° 9' 7.506 N	103° 33' 16.007 W
2,600.0	8.00	81.03	2,589.9	23.9	151.3	419,937.98	782,400.76	32° 9' 7.526 N	103° 33' 15.847 W
2,700.0	8.00	81.03	2,689.0	26.1	165.0	419,940.15	782,414.50	32° 9' 7.547 N	103° 33' 15.687 W
2,800.0	8.00	81.03	2,788.0	28.2	178.8	419,942.32	782,428.25	32° 9' 7.567 N	103° 33' 15.527 W
2,900.0	8.00	81.03	2,887.0	30.4	192.5	419,944.49	782,442.00	32° 9' 7.588 N	103° 33' 15.367 W
3,000.0	8.00	81.03	2,986.1	32.6	206.2	419,946.66	782,455.74	32° 9' 7.608 N	103° 33' 15.207 W
3,100.0	8.00	81.03	3,085.1	34.7	220.0	419,948.83	782,469.49	32° 9' 7.629 N	103° 33' 15.047 W
3,200.0	8.00	81.03	3,184.1	36.9	233.7	419,951.01	782,483.24	32° 9' 7.649 N	103° 33' 14.886 W
3,300.0	8.00	81.03	3,283.1	39.1	247.5	419,953.18	782,496.98	32° 9' 7.670 N	103° 33' 14.726 W
3,400.0	8.00	81.03	3,382.2	41.2	261.2	419,955.35	782,510.73	32° 9' 7.690 N	103° 33' 14.566 W
3,500.0	8.00	81.03	3,481.2	43.4	275.0	419,957.52	782,524.48	32° 9' 7.711 N	103° 33' 14.406 W
3,600.0	8.00	81.03	3,580.2	45.6	288.7	419,959.69	782,538.22	32° 9' 7.731 N	103° 33' 14.246 W
3,700.0	8.00	81.03	3,679.2	47.8	302.5	419,961.86	782,551.97	32° 9' 7.752 N	103° 33' 14.086 W
3,800.0	8.00	81.03	3,778.3	49.9	316.2	419,964.03	782,565.72	32° 9' 7.772 N	103° 33' 13.926 W
3,900.0	8.00	81.03	3,877.3	52.1	330.0	419,966.20	782,579.46	32° 9' 7.793 N	103° 33' 13.766 W
4,000.0	8.00	81.03	3,976.3	54.3	343.7	419,968.37	782,593.21	32° 9' 7.813 N	103° 33' 13.606 W
4,100.0	8.00	81.03	4,075.3	56.4	357.5	419,970.54	782,606.96	32° 9' 7.834 N	103° 33' 13.446 W
4,200.0	8.00	81.03	4,174.4	58.6	371.2	419,972.71	782,620.70	32° 9' 7.854 N	103° 33' 13.286 W
4,300.0	8.00	81.03	4,273.4	60.8	385.0	419,974.88	782,634.45	32° 9' 7.875 N	103° 33' 13.126 W
4,400.0	8.00	81.03	4,372.4	63.0	398.7	419,977.05	782,648.20	32° 9' 7.895 N	103° 33' 12.966 W
4,500.0	8.00	81.03	4,471.5	65.1	412.5	419,979.22	782,661.94	32° 9' 7.916 N	103° 33' 12.805 W
4,600.0	8.00	81.03	4,570.5	67.3	426.2	419,981.39	782,675.69	32° 9' 7.936 N	103° 33' 12.645 W
4,700.0	8.00	81.03	4,669.5	69.5	439.9	419,983.56	782,689.44	32° 9' 7.957 N	103° 33' 12.485 W
4,800.0	8.00	81.03	4,768.5	71.6	453.7	419,985.73	782,703.18	32° 9' 7.977 N	103° 33' 12.325 W
4,900.0	8.00	81.03	4,867.6	73.8	467.4	419,987.90	782,716.93	32° 9' 7.998 N	103° 33' 12.165 W
5,000.0	8.00	81.03	4,966.6	76.0	481.2	419,990.07	782,730.68	32° 9' 8.018 N	103° 33' 12.005 W
5,100.0	8.00	81.03	5,065.6	78.1	494.9	419,992.25	782,744.42	32° 9' 8.039 N	103° 33' 11.845 W
5,200.0	8.00	81.03	5,164.6	80.3	508.7	419,994.42	782,758.17	32° 9' 8.059 N	103° 33' 11.685 W
5,300.0	8.00	81.03	5,263.7	82.5	522.4	419,996.59	782,771.92	32° 9' 8.080 N	103° 33' 11.525 W
5,400.0	8.00	81.03	5,362.7	84.7	536.2	419,998.76	782,785.66	32° 9' 8.100 N	103° 33' 11.365 W

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #31H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3420.0usft
Site:	Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:	Vaca Draw #31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,445.7	8.00	81.03	5,408.0	85.7	542.5	419,999.75	782,791.95	32° 9' 8.110 N	103° 33' 11.292 W	
5,500.0	6.91	81.03	5,461.8	86.8	549.4	420,000.85	782,798.91	32° 9' 8.120 N	103° 33' 11.211 W	
5,600.0	4.91	81.03	5,561.3	88.4	559.6	420,002.45	782,809.08	32° 9' 8.135 N	103° 33' 11.092 W	
5,700.0	2.91	81.03	5,661.0	89.4	566.3	420,003.52	782,815.82	32° 9' 8.145 N	103° 33' 11.014 W	
5,800.0	0.91	81.03	5,761.0	89.9	569.6	420,004.04	782,819.12	32° 9' 8.150 N	103° 33' 10.975 W	
5,845.7	0.00	0.00	5,806.7	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
5,900.0	0.00	0.00	5,861.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,000.0	0.00	0.00	5,961.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,100.0	0.00	0.00	6,061.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,200.0	0.00	0.00	6,161.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,300.0	0.00	0.00	6,261.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,400.0	0.00	0.00	6,361.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,500.0	0.00	0.00	6,461.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,600.0	0.00	0.00	6,561.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,700.0	0.00	0.00	6,661.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,800.0	0.00	0.00	6,761.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
6,900.0	0.00	0.00	6,861.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,000.0	0.00	0.00	6,961.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,100.0	0.00	0.00	7,061.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,200.0	0.00	0.00	7,161.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,300.0	0.00	0.00	7,261.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,400.0	0.00	0.00	7,361.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,500.0	0.00	0.00	7,461.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,600.0	0.00	0.00	7,561.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,700.0	0.00	0.00	7,661.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,800.0	0.00	0.00	7,761.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
7,900.0	0.00	0.00	7,861.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,000.0	0.00	0.00	7,961.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,100.0	0.00	0.00	8,061.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,200.0	0.00	0.00	8,161.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,300.0	0.00	0.00	8,261.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,400.0	0.00	0.00	8,361.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,500.0	0.00	0.00	8,461.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,600.0	0.00	0.00	8,561.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,700.0	0.00	0.00	8,661.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,800.0	0.00	0.00	8,761.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
8,900.0	0.00	0.00	8,861.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,000.0	0.00	0.00	8,961.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,100.0	0.00	0.00	9,061.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,200.0	0.00	0.00	9,161.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,300.0	0.00	0.00	9,261.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,400.0	0.00	0.00	9,361.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,500.0	0.00	0.00	9,461.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,600.0	0.00	0.00	9,561.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,700.0	0.00	0.00	9,661.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,800.0	0.00	0.00	9,761.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
9,900.0	0.00	0.00	9,861.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
10,000.0	0.00	0.00	9,961.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
10,091.5	0.00	0.00	10,052.5	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
10,100.0	0.00	0.00	10,061.0	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
10,141.6	0.00	0.00	10,102.5	90.0	570.0	420,004.10	782,819.48	32° 9' 8.151 N	103° 33' 10.971 W	
10,200.0	7.01	179.57	10,160.8	86.4	570.0	420,000.53	782,819.51	32° 9' 8.115 N	103° 33' 10.971 W	
10,300.0	19.01	179.57	10,258.1	64.0	570.2	419,978.06	782,819.68	32° 9' 7.893 N	103° 33' 10.971 W	
10,400.0	31.01	179.57	10,348.5	21.8	570.5	419,935.86	782,819.99	32° 9' 7.475 N	103° 33' 10.971 W	
10,500.0	43.01	179.57	10,428.2	-38.3	571.0	419,875.78	782,820.44	32° 9' 6.881 N	103° 33' 10.971 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #31H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3420.0usft
Site:	Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:	Vaca Draw #31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,600.0	55.01	179.57	10,493.7	-113.7	571.5	419,800.44	782,821.01	32° 9' 6.135 N	103° 33' 10.970 W	
10,700.0	67.01	179.57	10,542.1	-201.0	572.2	419,713.13	782,821.66	32° 9' 5.271 N	103° 33' 10.970 W	
10,800.0	79.01	179.57	10,571.2	-296.4	572.9	419,617.68	782,822.38	32° 9' 4.327 N	103° 33' 10.970 W	
10,891.6	90.00	179.57	10,580.0	-387.5	573.6	419,526.66	782,823.06	32° 9' 3.426 N	103° 33' 10.970 W	
10,900.0	90.00	179.57	10,580.0	-395.9	573.6	419,518.24	782,823.12	32° 9' 3.343 N	103° 33' 10.970 W	
11,000.0	90.00	179.57	10,580.0	-495.9	574.4	419,418.25	782,823.87	32° 9' 2.353 N	103° 33' 10.969 W	
11,100.0	90.00	179.57	10,580.0	-595.9	575.1	419,318.25	782,824.62	32° 9' 1.364 N	103° 33' 10.969 W	
11,200.0	90.00	179.57	10,580.0	-695.9	575.9	419,218.26	782,825.37	32° 9' 0.374 N	103° 33' 10.969 W	
11,300.0	90.00	179.57	10,580.0	-795.9	576.6	419,118.26	782,826.12	32° 8' 59.385 N	103° 33' 10.968 W	
11,400.0	90.00	179.57	10,580.0	-895.9	577.4	419,018.27	782,826.87	32° 8' 58.395 N	103° 33' 10.968 W	
11,500.0	90.00	179.57	10,580.0	-995.8	578.1	418,918.27	782,827.62	32° 8' 57.406 N	103° 33' 10.968 W	
11,600.0	90.00	179.57	10,580.0	-1,095.8	578.9	418,818.28	782,828.37	32° 8' 56.416 N	103° 33' 10.968 W	
11,700.0	90.00	179.57	10,580.0	-1,195.8	579.6	418,718.28	782,829.11	32° 8' 55.427 N	103° 33' 10.967 W	
11,800.0	90.00	179.57	10,580.0	-1,295.8	580.4	418,618.29	782,829.86	32° 8' 54.437 N	103° 33' 10.967 W	
11,900.0	90.00	179.57	10,580.0	-1,395.8	581.1	418,518.30	782,830.61	32° 8' 53.447 N	103° 33' 10.967 W	
12,000.0	90.00	179.57	10,580.0	-1,495.8	581.9	418,418.30	782,831.36	32° 8' 52.458 N	103° 33' 10.966 W	
12,100.0	90.00	179.57	10,580.0	-1,595.8	582.6	418,318.31	782,832.11	32° 8' 51.468 N	103° 33' 10.966 W	
12,200.0	90.00	179.57	10,580.0	-1,695.8	583.4	418,218.31	782,832.86	32° 8' 50.479 N	103° 33' 10.966 W	
12,300.0	90.00	179.57	10,580.0	-1,795.8	584.1	418,118.32	782,833.61	32° 8' 49.489 N	103° 33' 10.966 W	
12,400.0	90.00	179.57	10,580.0	-1,895.8	584.9	418,018.32	782,834.36	32° 8' 48.500 N	103° 33' 10.965 W	
12,500.0	90.00	179.57	10,580.0	-1,995.8	585.6	417,918.33	782,835.11	32° 8' 47.510 N	103° 33' 10.965 W	
12,600.0	90.00	179.57	10,580.0	-2,095.8	586.4	417,818.33	782,835.86	32° 8' 46.521 N	103° 33' 10.965 W	
12,700.0	90.00	179.57	10,580.0	-2,195.8	587.1	417,718.34	782,836.60	32° 8' 45.531 N	103° 33' 10.964 W	
12,800.0	90.00	179.57	10,580.0	-2,295.8	587.9	417,618.34	782,837.35	32° 8' 44.542 N	103° 33' 10.964 W	
12,900.0	90.00	179.57	10,580.0	-2,395.8	588.6	417,518.35	782,838.10	32° 8' 43.552 N	103° 33' 10.964 W	
13,000.0	90.00	179.57	10,580.0	-2,495.8	589.4	417,418.35	782,838.85	32° 8' 42.563 N	103° 33' 10.964 W	
13,100.0	90.00	179.57	10,580.0	-2,595.8	590.1	417,318.36	782,839.60	32° 8' 41.573 N	103° 33' 10.963 W	
13,200.0	90.00	179.57	10,580.0	-2,695.8	590.9	417,218.36	782,840.35	32° 8' 40.584 N	103° 33' 10.963 W	
13,300.0	90.00	179.57	10,580.0	-2,795.8	591.6	417,118.37	782,841.10	32° 8' 39.594 N	103° 33' 10.963 W	
13,400.0	90.00	179.57	10,580.0	-2,895.8	592.4	417,018.37	782,841.85	32° 8' 38.605 N	103° 33' 10.962 W	
13,500.0	90.00	179.57	10,580.0	-2,995.8	593.1	416,918.38	782,842.60	32° 8' 37.615 N	103° 33' 10.962 W	
13,600.0	90.00	179.57	10,580.0	-3,095.8	593.9	416,818.38	782,843.35	32° 8' 36.625 N	103° 33' 10.962 W	
13,700.0	90.00	179.57	10,580.0	-3,195.8	594.6	416,718.39	782,844.09	32° 8' 35.636 N	103° 33' 10.962 W	
13,800.0	90.00	179.57	10,580.0	-3,295.8	595.4	416,618.39	782,844.84	32° 8' 34.646 N	103° 33' 10.961 W	
13,900.0	90.00	179.57	10,580.0	-3,395.8	596.1	416,518.40	782,845.59	32° 8' 33.657 N	103° 33' 10.961 W	
14,000.0	90.00	179.57	10,580.0	-3,495.8	596.9	416,418.41	782,846.34	32° 8' 32.667 N	103° 33' 10.961 W	
14,100.0	90.00	179.57	10,580.0	-3,595.8	597.6	416,318.41	782,847.09	32° 8' 31.678 N	103° 33' 10.960 W	
14,200.0	90.00	179.57	10,580.0	-3,695.8	598.4	416,218.42	782,847.84	32° 8' 30.688 N	103° 33' 10.960 W	
14,300.0	90.00	179.57	10,580.0	-3,795.8	599.1	416,118.42	782,848.59	32° 8' 29.699 N	103° 33' 10.960 W	
14,400.0	90.00	179.57	10,580.0	-3,895.8	599.9	416,018.43	782,849.34	32° 8' 28.709 N	103° 33' 10.960 W	
14,500.0	90.00	179.57	10,580.0	-3,995.8	600.6	415,918.43	782,850.09	32° 8' 27.720 N	103° 33' 10.959 W	
14,600.0	90.00	179.57	10,580.0	-4,095.8	601.4	415,818.44	782,850.83	32° 8' 26.730 N	103° 33' 10.959 W	
14,700.0	90.00	179.57	10,580.0	-4,195.8	602.1	415,718.44	782,851.58	32° 8' 25.741 N	103° 33' 10.959 W	
14,800.0	90.00	179.57	10,580.0	-4,295.8	602.8	415,618.45	782,852.33	32° 8' 24.751 N	103° 33' 10.958 W	
14,900.0	90.00	179.57	10,580.0	-4,395.8	603.6	415,518.45	782,853.08	32° 8' 23.762 N	103° 33' 10.958 W	
15,000.0	90.00	179.57	10,580.0	-4,495.8	604.3	415,418.46	782,853.83	32° 8' 22.772 N	103° 33' 10.958 W	
15,100.0	90.00	179.57	10,580.0	-4,595.7	605.1	415,318.46	782,854.58	32° 8' 21.783 N	103° 33' 10.958 W	
15,200.0	90.00	179.57	10,580.0	-4,695.7	605.8	415,218.47	782,855.33	32° 8' 20.793 N	103° 33' 10.957 W	
15,300.0	90.00	179.57	10,580.0	-4,795.7	606.6	415,118.47	782,856.08	32° 8' 19.803 N	103° 33' 10.957 W	
15,400.0	90.00	179.57	10,580.0	-4,895.7	607.3	415,018.48	782,856.83	32° 8' 18.814 N	103° 33' 10.957 W	
15,500.0	90.00	179.57	10,580.0	-4,995.7	608.1	414,918.48	782,857.58	32° 8' 17.824 N	103° 33' 10.956 W	
15,600.0	90.00	179.57	10,580.0	-5,095.7	608.8	414,818.49	782,858.32	32° 8' 16.835 N	103° 33' 10.956 W	
15,623.1	90.00	179.57	10,580.0	-5,118.8	609.0	414,795.40	782,858.50	32° 8' 16.606 N	103° 33' 10.956 W	

Microsoft
Planning Report - Geographic

Database:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #31H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3420.0usft
Site:	Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:	Vaca Draw #31H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Vaca Draw #31H	0.00	0.00	10,580.0	-5,118.8	609.0	414,795.40	782,858.50	32° 8' 16.606 N	103° 33' 10.956 W
- plan hits target center									
- Point									



BTA Oil Producers, LLC

104 S Pecos

Midland, TX 79701

WELL:

#31H

TVD:

10580

MD:

15623

DRILLING PLAN

Casing Program

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/Buoyant	Mud Weight (ppg)
17 1/2	13 3/8	0	1155	0	1155	No	54.5	J-55	STC	2.3	5.5	13.6	8.2	Dry	8.3
12 1/4	9 5/8	0	5120	0	5085	No	40	J-55	LTC	1.7	1.5	3.1	2.5	Dry	10
8 3/4	5.5	0	15623	0	10580	No	17	P110	Buttress	1.4	2.1	2.1	2.1	Dry	9.4

Cementing Program

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
13 3/8	Lead		0	960	Class C	775	1.73	13.5	1340.75	100%	2% CaCl ₂
	Tail		960	1155	Class C	200	1.35	14.8	270	100%	2% CaCl ₂
9 5/8	Lead		0	4565	Class C	1345	2.46	12.8	3308.7	100%	0.5% CaCl ₂
	Tail		4565	5120	Class C	200	1.34	14.8	268	25%	1% CaCl ₂
5 1/2	Lead		4120	9910	25% Poz 75% Class C	565	3.9	10.5	2203.5	60%	0.4% Fluid Loss
	Tail		9910	15623	Class H	1445	1.25	14.4	1806.25	25%	0.2% LT Retarder

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 112499

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 112499
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	PREVIOUS COA'S APPLY	6/2/2022