

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

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

Form C-103
 Revised July 18, 2013

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 ☐		WELL API NO. 30-025-51020
2. Name of Operator BTA OIL PRODUCERS, LLC		5. Indicate Type of Lease STATE ☒ FEE ☐
3. Address of Operator 104 S. Pecos, Midland, TX 79701		6. State Oil & Gas Lease No.
4. Well Location Unit Letter <u>J</u> : <u>2500</u> feet from the <u>South</u> line and <u>1351</u> feet from the <u>East</u> line Section <u>21</u> Township <u>17S</u> Range <u>36E</u> NMPM County <u>LEA</u>		7. Lease Name or Unit Agreement Name Vindicator Canyon State Unit Com
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3857'		8. Well Number 404H
		9. OGRID Number 260297
		10. Pool name or Wildcat WC-025 G-09 S173615C ; UPPER PENN

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: ☐

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.

BTA Oil Producers, LLC respectfully requests the following Footage (KOP, FTP, LTP, BHL), Casing, and Drill plan changes to the original Permit as approved. SHL will remain the same. Please see attached for more details.

Old KOP Location: 2583' FNL, 2260' FEL ; Section 21 (REMOVE)

Old FTP Location: 2533' FNL, 2260' FEL ; Section 21

Old LTP Location: 2558' FSL, 2260' FEL ; Section 9

Old BHL Location: 2608' FSL, 2260' FEL ; Section

New FTP Location: 2535' FNL, 1980' FEL ; Section 21

New LTP Location: 2556' FSL, 1980' FEL ; Section 9

New BHL Location: 2606' FSL, 1980' FEL ; Section 9

Spud Date:

12/14/2023

Rig Release Date:

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

SIGNATURE

Sam Hejira

TITLE

Regulatory Analyst

DATE 4/22/2023

Type or print name

E-mail address:

SHAJAR@BTAOIL.COM

PHONE: 432-682-3753

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☒ AMENDED REPORT

WELL LOCATION AND ACERAGE DEDICATION PLAT

¹ API Number 30-025-51020	² Pool Code 98333	³ Pool Name WC025 G09 S173615C; UPPER PENN
⁴ Property Code 333408	⁵ Property Name VINDICATOR CANYON STATE UNIT COM	⁶ Well Number 404H
⁷ OGRID No. 260297	⁸ Operator Name BTA OIL PRODUCERS, LLC	⁹ Elevation 3857'

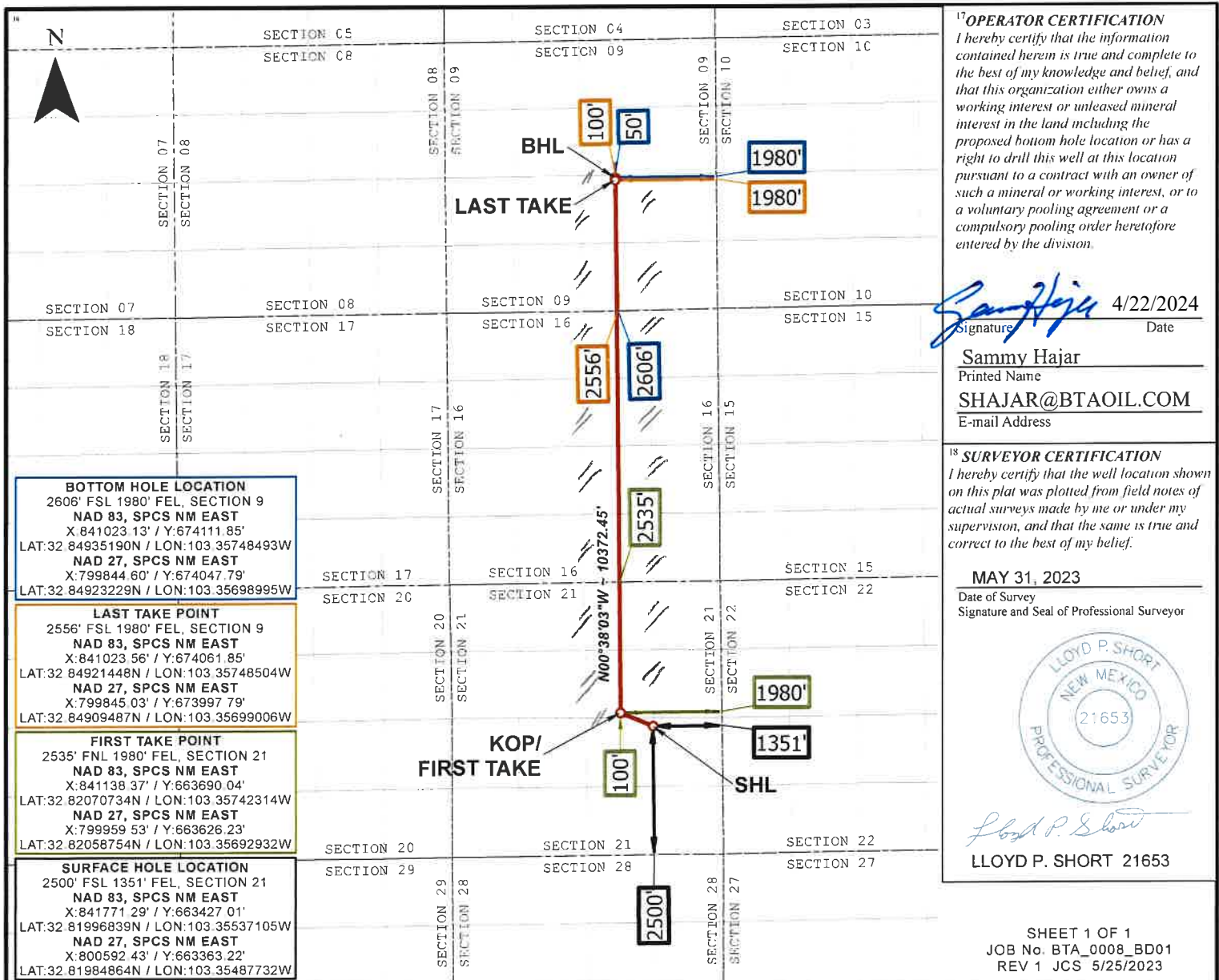
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	21	17S	36E		2500	South	1351	East	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	9	17S	36E		2606	South	1980	East	LEA
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





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

WELL: VINDICATOR CANYON STATE UNIT COM #404H
TVD: 11843
MD: 22366

DRILLING PLAN

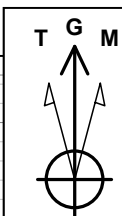
Casing Program

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	2033	0	2033	No	54.5	J-55	STC	2.6	3.1	7.7	4.6	Dry	8.3
12 1/4	9 5/8	0	5202	0	5173	No	40	J-55	LTC	1.7	1.5	3.0	2.5	Dry	10
8 3/4	7 5/8	5142	11358	5113	11280	No	29.7	P110	FJ	1.8	1.7	2.8	2.8	Dry	9.4
6 3/4	5 1/2	0	11158	11280	11080	Yes	20	P110	BTC	1.6	1.8	2.9	3.0	Dry	12
6 3/4	5	11158	22366	11080	11843	Yes	18	P110	BTC	1.8	1.9	2.9	3.0	Dry	12

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	1840	Class C	1425	1.8	13.5	2565	100%	2% CaCl2
	Tail		1840	2033	Class C	200	1.34	14.8	268	100%	2% CaCl2
9 5/8	Lead		0	4510	Class C	1500	2.18	12.7	3270	100%	0.5% CaCl2
	Tail		4510	5202	Class C	250	1.33	14.8	332.5	25%	1% CaCl2
7 5/8	Lead		5142	9490	25% Poz 75% Class C	185	2.99	11	553.15	15%	0.5% CaCl2
	Tail		9490	11358	Class H	200	1.19	15.6	238	15%	1% CaCl2
5 1/2	Lead										
	Tail		10360	11280							
5	Lead										
	Tail		11158	22366	Class H	1170	1.27	14.8	1485.9	10%	0.1% Fluid Loss

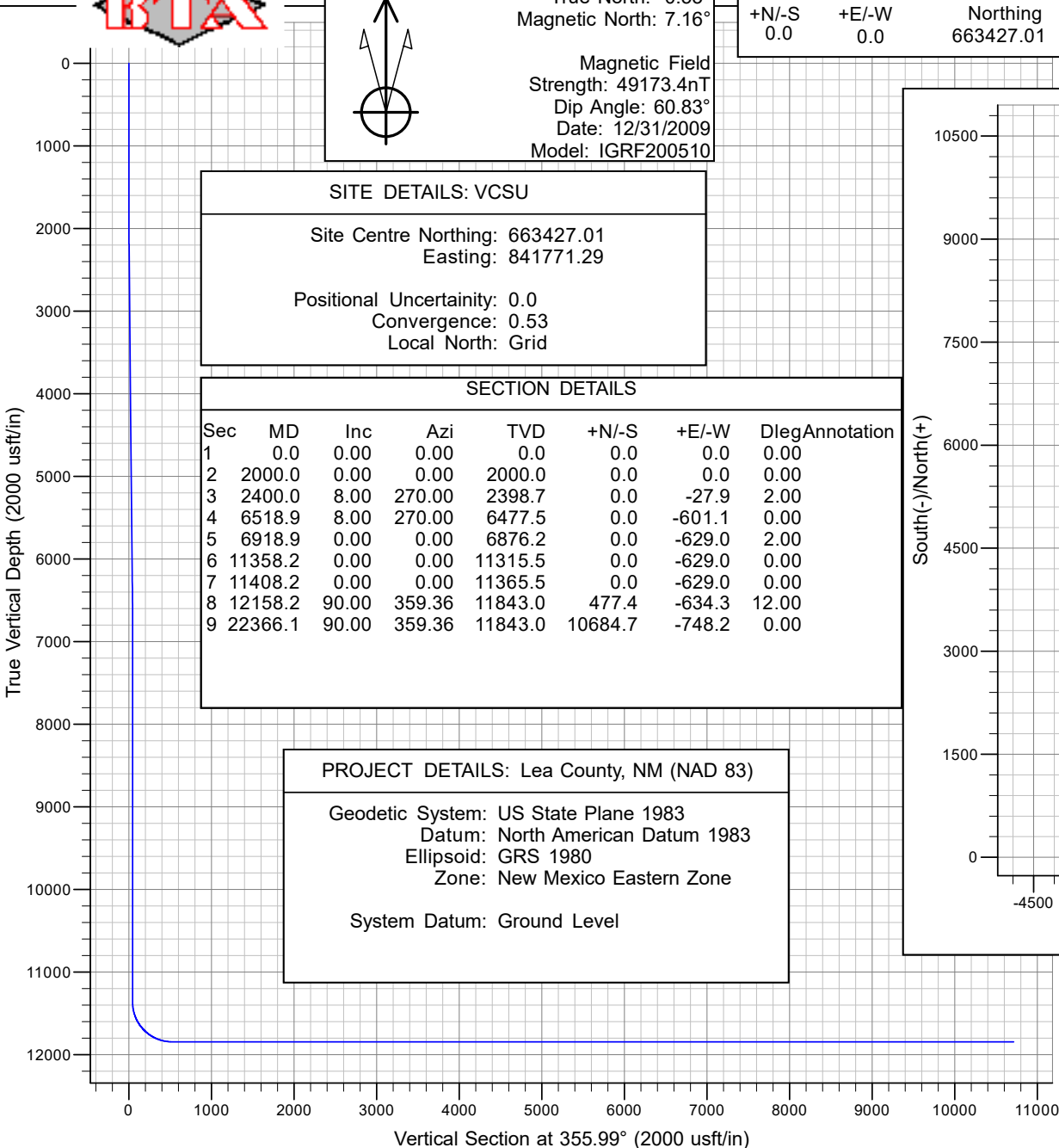
BTA Oil Producers, LLC



Azimuths to Grid North
True North: -0.53°
Magnetic North: 7.16°

Magnetic Field
Strength: 49173.4nT
Dip Angle: 60.83°
Date: 12/31/2009
Model: IGRF200510

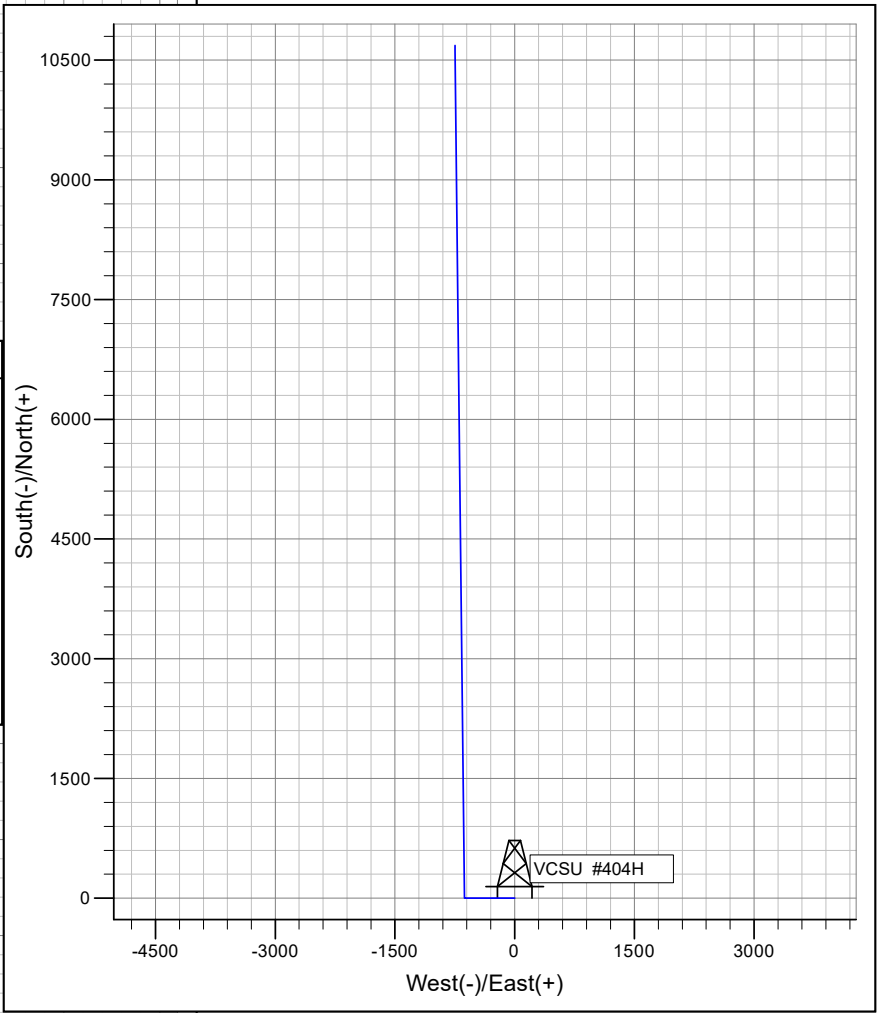
WELL DETAILS: VCSU COM #404H					
+N/-S	+E/-W	Northing	Ground Level Easting	3857.0 Latitude	Longitude
0.0	0.0	663427.01	841771.29	32° 49' 11.886 N	103° 21' 19.336 W

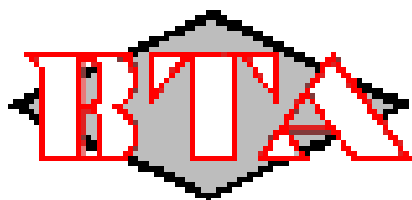


SITE DETAILS: VCSU	
Site Centre Northing:	663427.01
Easting:	841771.29
Positional Uncertainty:	0.0
Convergence:	0.53
Local North:	Grid

SECTION DETAILS							
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DlegAnnotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00
3	2400.0	8.00	270.00	2398.7	0.0	-27.9	2.00
4	6518.9	8.00	270.00	6477.5	0.0	-601.1	0.00
5	6918.9	0.00	0.00	6876.2	0.0	-629.0	2.00
6	11358.2	0.00	0.00	11315.5	0.0	-629.0	0.00
7	11408.2	0.00	0.00	11365.5	0.0	-629.0	0.00
8	12158.2	90.00	359.36	11843.0	477.4	-634.3	12.00
9	22366.1	90.00	359.36	11843.0	10684.7	-748.2	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)

VCSU

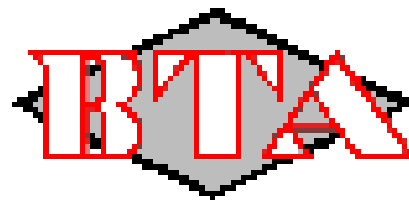
VCSU COM #404H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

12 June, 2023





Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well VCSU #404H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3857.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3857.0usft
Site:	VCSU	North Reference:	Grid
Well:	VCSU #404H	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	VCSU		
Site Position:		Northing:	663,427.01 usft
From:	Map	Easting:	841,771.29 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 49' 11.886 N
		Longitude:	103° 21' 19.336 W

Well	VCSU #404H					
Well Position	+N/-S	0.0 usft	Northing:	663,427.01 usft	Latitude:	32° 49' 11.886 N
	+E/-W	0.0 usft	Easting:	841,771.29 usft	Longitude:	103° 21' 19.336 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,857.0 usft
Grid Convergence:		0.53 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.69	60.83	49,173.36184095

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	355.99

Plan Survey Tool Program	Date	6/12/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,366.1 Design #1 (Wellbore #1)		



Database:	EDM16	Local Co-ordinate Reference:	Well VCSU #404H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3857.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3857.0usft
Site:	VCSU	North Reference:	Grid
Well:	VCSU #404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,400.0	8.00	270.00	2,398.7	0.0	-27.9	2.00	2.00	0.00	270.00	
6,518.9	8.00	270.00	6,477.5	0.0	-601.1	0.00	0.00	0.00	0.00	
6,918.9	0.00	0.00	6,876.2	0.0	-629.0	2.00	-2.00	0.00	180.00	
11,358.2	0.00	0.00	11,315.5	0.0	-629.0	0.00	0.00	0.00	0.00	
11,408.2	0.00	0.00	11,365.5	0.0	-629.0	0.00	0.00	0.00	0.00	
12,158.2	90.00	359.36	11,843.0	477.4	-634.3	12.00	12.00	0.00	359.36	
22,366.1	90.00	359.36	11,843.0	10,684.7	-748.2	0.00	0.00	0.00	0.00	VCSU #404H BHL



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well VCSU #404H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3857.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3857.0usft
Site:	VCSU	North Reference:	Grid
Well:	VCSU #404H	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	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
100.0	0.00	0.00	100.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
200.0	0.00	0.00	200.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
300.0	0.00	0.00	300.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
400.0	0.00	0.00	400.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
500.0	0.00	0.00	500.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
600.0	0.00	0.00	600.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
700.0	0.00	0.00	700.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
800.0	0.00	0.00	800.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
900.0	0.00	0.00	900.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	663,427.01	841,771.29	32° 49' 11.886 N	103° 21' 19.336 W	
2,100.0	2.00	270.00	2,100.0	0.0	-1.7	663,427.01	841,769.54	32° 49' 11.886 N	103° 21' 19.356 W	
2,200.0	4.00	270.00	2,199.8	0.0	-7.0	663,427.01	841,764.31	32° 49' 11.887 N	103° 21' 19.418 W	
2,300.0	6.00	270.00	2,299.5	0.0	-15.7	663,427.01	841,755.60	32° 49' 11.888 N	103° 21' 19.520 W	
2,400.0	8.00	270.00	2,398.7	0.0	-27.9	663,427.01	841,743.41	32° 49' 11.889 N	103° 21' 19.662 W	
2,500.0	8.00	270.00	2,497.7	0.0	-41.8	663,427.01	841,729.49	32° 49' 11.890 N	103° 21' 19.826 W	
2,600.0	8.00	270.00	2,596.8	0.0	-55.7	663,427.01	841,715.57	32° 49' 11.891 N	103° 21' 19.989 W	
2,700.0	8.00	270.00	2,695.8	0.0	-69.6	663,427.01	841,701.66	32° 49' 11.893 N	103° 21' 20.152 W	
2,800.0	8.00	270.00	2,794.8	0.0	-83.5	663,427.01	841,687.74	32° 49' 11.894 N	103° 21' 20.315 W	
2,900.0	8.00	270.00	2,893.8	0.0	-97.5	663,427.01	841,673.82	32° 49' 11.895 N	103° 21' 20.478 W	
3,000.0	8.00	270.00	2,992.9	0.0	-111.4	663,427.01	841,659.90	32° 49' 11.896 N	103° 21' 20.641 W	
3,100.0	8.00	270.00	3,091.9	0.0	-125.3	663,427.01	841,645.99	32° 49' 11.898 N	103° 21' 20.804 W	
3,200.0	8.00	270.00	3,190.9	0.0	-139.2	663,427.01	841,632.07	32° 49' 11.899 N	103° 21' 20.967 W	
3,300.0	8.00	270.00	3,289.9	0.0	-153.1	663,427.01	841,618.15	32° 49' 11.900 N	103° 21' 21.130 W	
3,400.0	8.00	270.00	3,389.0	0.0	-167.1	663,427.01	841,604.23	32° 49' 11.901 N	103° 21' 21.293 W	
3,500.0	8.00	270.00	3,488.0	0.0	-181.0	663,427.01	841,590.32	32° 49' 11.903 N	103° 21' 21.456 W	
3,600.0	8.00	270.00	3,587.0	0.0	-194.9	663,427.01	841,576.40	32° 49' 11.904 N	103° 21' 21.619 W	
3,700.0	8.00	270.00	3,686.0	0.0	-208.8	663,427.01	841,562.48	32° 49' 11.905 N	103° 21' 21.782 W	
3,800.0	8.00	270.00	3,785.1	0.0	-222.7	663,427.01	841,548.56	32° 49' 11.907 N	103° 21' 21.945 W	
3,900.0	8.00	270.00	3,884.1	0.0	-236.6	663,427.01	841,534.65	32° 49' 11.908 N	103° 21' 22.109 W	
4,000.0	8.00	270.00	3,983.1	0.0	-250.6	663,427.01	841,520.73	32° 49' 11.909 N	103° 21' 22.272 W	
4,100.0	8.00	270.00	4,082.2	0.0	-264.5	663,427.01	841,506.81	32° 49' 11.910 N	103° 21' 22.435 W	
4,200.0	8.00	270.00	4,181.2	0.0	-278.4	663,427.01	841,492.89	32° 49' 11.912 N	103° 21' 22.598 W	
4,300.0	8.00	270.00	4,280.2	0.0	-292.3	663,427.01	841,478.98	32° 49' 11.913 N	103° 21' 22.761 W	
4,400.0	8.00	270.00	4,379.2	0.0	-306.2	663,427.01	841,465.06	32° 49' 11.914 N	103° 21' 22.924 W	
4,500.0	8.00	270.00	4,478.3	0.0	-320.1	663,427.01	841,451.14	32° 49' 11.915 N	103° 21' 23.087 W	
4,600.0	8.00	270.00	4,577.3	0.0	-334.1	663,427.01	841,437.22	32° 49' 11.917 N	103° 21' 23.250 W	
4,700.0	8.00	270.00	4,676.3	0.0	-348.0	663,427.01	841,423.31	32° 49' 11.918 N	103° 21' 23.413 W	
4,800.0	8.00	270.00	4,775.3	0.0	-361.9	663,427.01	841,409.39	32° 49' 11.919 N	103° 21' 23.576 W	
4,900.0	8.00	270.00	4,874.4	0.0	-375.8	663,427.01	841,395.47	32° 49' 11.921 N	103° 21' 23.739 W	
5,000.0	8.00	270.00	4,973.4	0.0	-389.7	663,427.01	841,381.55	32° 49' 11.922 N	103° 21' 23.902 W	
5,100.0	8.00	270.00	5,072.4	0.0	-403.6	663,427.01	841,367.64	32° 49' 11.923 N	103° 21' 24.065 W	
5,200.0	8.00	270.00	5,171.5	0.0	-417.6	663,427.01	841,353.72	32° 49' 11.924 N	103° 21' 24.229 W	
5,300.0	8.00	270.00	5,270.5	0.0	-431.5	663,427.01	841,339.80	32° 49' 11.926 N	103° 21' 24.392 W	
5,400.0	8.00	270.00	5,369.5	0.0	-445.4	663,427.01	841,325.88	32° 49' 11.927 N	103° 21' 24.555 W	



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well VCSU #404H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3857.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3857.0usft
Site:	VCSU	North Reference:	Grid
Well:	VCSU #404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,500.0	8.00	270.00	5,468.5	0.0	-459.3	663,427.01	841,311.97	32° 49' 11.928 N	103° 21' 24.718 W	
5,600.0	8.00	270.00	5,567.6	0.0	-473.2	663,427.01	841,298.05	32° 49' 11.929 N	103° 21' 24.881 W	
5,700.0	8.00	270.00	5,666.6	0.0	-487.2	663,427.01	841,284.13	32° 49' 11.931 N	103° 21' 25.044 W	
5,800.0	8.00	270.00	5,765.6	0.0	-501.1	663,427.01	841,270.21	32° 49' 11.932 N	103° 21' 25.207 W	
5,900.0	8.00	270.00	5,864.6	0.0	-515.0	663,427.01	841,256.30	32° 49' 11.933 N	103° 21' 25.370 W	
6,000.0	8.00	270.00	5,963.7	0.0	-528.9	663,427.01	841,242.38	32° 49' 11.935 N	103° 21' 25.533 W	
6,100.0	8.00	270.00	6,062.7	0.0	-542.8	663,427.01	841,228.46	32° 49' 11.936 N	103° 21' 25.696 W	
6,200.0	8.00	270.00	6,161.7	0.0	-556.7	663,427.01	841,214.54	32° 49' 11.937 N	103° 21' 25.859 W	
6,300.0	8.00	270.00	6,260.7	0.0	-570.7	663,427.01	841,200.63	32° 49' 11.938 N	103° 21' 26.022 W	
6,400.0	8.00	270.00	6,359.8	0.0	-584.6	663,427.01	841,186.71	32° 49' 11.940 N	103° 21' 26.185 W	
6,500.0	8.00	270.00	6,458.8	0.0	-598.5	663,427.01	841,172.79	32° 49' 11.941 N	103° 21' 26.348 W	
6,518.9	8.00	270.00	6,477.5	0.0	-601.1	663,427.01	841,170.16	32° 49' 11.941 N	103° 21' 26.379 W	
6,600.0	6.38	270.00	6,558.0	0.0	-611.3	663,427.01	841,160.01	32° 49' 11.942 N	103° 21' 26.498 W	
6,700.0	4.38	270.00	6,657.5	0.0	-620.6	663,427.01	841,150.64	32° 49' 11.943 N	103° 21' 26.608 W	
6,800.0	2.38	270.00	6,757.4	0.0	-626.5	663,427.01	841,144.75	32° 49' 11.943 N	103° 21' 26.677 W	
6,900.0	0.38	270.00	6,857.3	0.0	-628.9	663,427.01	841,142.34	32° 49' 11.944 N	103° 21' 26.705 W	
6,918.9	0.00	0.00	6,876.2	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,000.0	0.00	0.00	6,957.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,100.0	0.00	0.00	7,057.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,200.0	0.00	0.00	7,157.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,300.0	0.00	0.00	7,257.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,400.0	0.00	0.00	7,357.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,500.0	0.00	0.00	7,457.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,600.0	0.00	0.00	7,557.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,700.0	0.00	0.00	7,657.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,800.0	0.00	0.00	7,757.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
7,900.0	0.00	0.00	7,857.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,000.0	0.00	0.00	7,957.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,100.0	0.00	0.00	8,057.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,200.0	0.00	0.00	8,157.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,300.0	0.00	0.00	8,257.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,400.0	0.00	0.00	8,357.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,500.0	0.00	0.00	8,457.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,600.0	0.00	0.00	8,557.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,700.0	0.00	0.00	8,657.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,800.0	0.00	0.00	8,757.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
8,900.0	0.00	0.00	8,857.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,000.0	0.00	0.00	8,957.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,100.0	0.00	0.00	9,057.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,200.0	0.00	0.00	9,157.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,300.0	0.00	0.00	9,257.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,400.0	0.00	0.00	9,357.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,500.0	0.00	0.00	9,457.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,600.0	0.00	0.00	9,557.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,700.0	0.00	0.00	9,657.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,800.0	0.00	0.00	9,757.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
9,900.0	0.00	0.00	9,857.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,000.0	0.00	0.00	9,957.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,100.0	0.00	0.00	10,057.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,200.0	0.00	0.00	10,157.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,300.0	0.00	0.00	10,257.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,400.0	0.00	0.00	10,357.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,500.0	0.00	0.00	10,457.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,600.0	0.00	0.00	10,557.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,700.0	0.00	0.00	10,657.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well VCSU #404H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3857.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3857.0usft
Site:	VCSU	North Reference:	Grid
Well:	VCSU #404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,800.0	0.00	0.00	10,757.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
10,900.0	0.00	0.00	10,857.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
11,000.0	0.00	0.00	10,957.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
11,100.0	0.00	0.00	11,057.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
11,200.0	0.00	0.00	11,157.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
11,300.0	0.00	0.00	11,257.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
11,358.2	0.00	0.00	11,315.5	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
11,400.0	0.00	0.00	11,357.3	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
11,408.2	0.00	0.00	11,365.5	0.0	-629.0	663,427.01	841,142.28	32° 49' 11.944 N	103° 21' 26.706 W	
11,500.0	11.01	359.36	11,456.8	8.8	-629.1	663,435.81	841,142.18	32° 49' 12.031 N	103° 21' 26.706 W	
11,600.0	23.01	359.36	11,552.2	38.0	-629.4	663,465.01	841,141.86	32° 49' 12.320 N	103° 21' 26.707 W	
11,700.0	35.01	359.36	11,639.5	86.4	-630.0	663,513.43	841,141.32	32° 49' 12.799 N	103° 21' 26.708 W	
11,800.0	47.01	359.36	11,714.8	151.9	-630.7	663,578.93	841,140.59	32° 49' 13.447 N	103° 21' 26.709 W	
11,900.0	59.01	359.36	11,774.9	231.6	-631.6	663,658.66	841,139.70	32° 49' 14.236 N	103° 21' 26.711 W	
12,000.0	71.01	359.36	11,817.0	322.1	-632.6	663,749.13	841,138.69	32° 49' 15.131 N	103° 21' 26.713 W	
12,100.0	83.01	359.36	11,839.5	419.4	-633.7	663,846.39	841,137.60	32° 49' 16.093 N	103° 21' 26.715 W	
12,158.2	90.00	359.36	11,843.0	477.4	-634.3	663,904.46	841,136.96	32° 49' 16.668 N	103° 21' 26.717 W	
12,200.0	90.00	359.36	11,843.0	519.2	-634.8	663,946.24	841,136.49	32° 49' 17.081 N	103° 21' 26.718 W	
12,300.0	90.00	359.36	11,843.0	619.2	-635.9	664,046.23	841,135.38	32° 49' 18.071 N	103° 21' 26.720 W	
12,400.0	90.00	359.36	11,843.0	719.2	-637.0	664,146.23	841,134.26	32° 49' 19.060 N	103° 21' 26.722 W	
12,500.0	90.00	359.36	11,843.0	819.2	-638.1	664,246.22	841,133.15	32° 49' 20.050 N	103° 21' 26.724 W	
12,600.0	90.00	359.36	11,843.0	919.2	-639.3	664,346.22	841,132.03	32° 49' 21.039 N	103° 21' 26.727 W	
12,700.0	90.00	359.36	11,843.0	1,019.2	-640.4	664,446.21	841,130.92	32° 49' 22.028 N	103° 21' 26.729 W	
12,800.0	90.00	359.36	11,843.0	1,119.2	-641.5	664,546.21	841,129.80	32° 49' 23.018 N	103° 21' 26.731 W	
12,900.0	90.00	359.36	11,843.0	1,219.2	-642.6	664,646.20	841,128.69	32° 49' 24.007 N	103° 21' 26.733 W	
13,000.0	90.00	359.36	11,843.0	1,319.2	-643.7	664,746.20	841,127.57	32° 49' 24.997 N	103° 21' 26.736 W	
13,100.0	90.00	359.36	11,843.0	1,419.2	-644.8	664,846.19	841,126.45	32° 49' 25.986 N	103° 21' 26.738 W	
13,200.0	90.00	359.36	11,843.0	1,519.2	-645.9	664,946.19	841,125.34	32° 49' 26.975 N	103° 21' 26.740 W	
13,300.0	90.00	359.36	11,843.0	1,619.1	-647.1	665,046.18	841,124.22	32° 49' 27.965 N	103° 21' 26.742 W	
13,400.0	90.00	359.36	11,843.0	1,719.1	-648.2	665,146.18	841,123.11	32° 49' 28.954 N	103° 21' 26.745 W	
13,500.0	90.00	359.36	11,843.0	1,819.1	-649.3	665,246.17	841,121.99	32° 49' 29.944 N	103° 21' 26.747 W	
13,600.0	90.00	359.36	11,843.0	1,919.1	-650.4	665,346.17	841,120.88	32° 49' 30.933 N	103° 21' 26.749 W	
13,700.0	90.00	359.36	11,843.0	2,019.1	-651.5	665,446.16	841,119.76	32° 49' 31.923 N	103° 21' 26.751 W	
13,800.0	90.00	359.36	11,843.0	2,119.1	-652.6	665,546.16	841,118.65	32° 49' 32.912 N	103° 21' 26.754 W	
13,900.0	90.00	359.36	11,843.0	2,219.1	-653.7	665,646.15	841,117.53	32° 49' 33.901 N	103° 21' 26.756 W	
14,000.0	90.00	359.36	11,843.0	2,319.1	-654.9	665,746.15	841,116.42	32° 49' 34.891 N	103° 21' 26.758 W	
14,100.0	90.00	359.36	11,843.0	2,419.1	-656.0	665,846.14	841,115.30	32° 49' 35.880 N	103° 21' 26.760 W	
14,200.0	90.00	359.36	11,843.0	2,519.1	-657.1	665,946.14	841,114.19	32° 49' 36.870 N	103° 21' 26.763 W	
14,300.0	90.00	359.36	11,843.0	2,619.1	-658.2	666,046.13	841,113.07	32° 49' 37.859 N	103° 21' 26.765 W	
14,400.0	90.00	359.36	11,843.0	2,719.1	-659.3	666,146.13	841,111.96	32° 49' 38.849 N	103° 21' 26.767 W	
14,500.0	90.00	359.36	11,843.0	2,819.1	-660.4	666,246.12	841,110.84	32° 49' 39.838 N	103° 21' 26.769 W	
14,600.0	90.00	359.36	11,843.0	2,919.1	-661.6	666,346.12	841,109.73	32° 49' 40.827 N	103° 21' 26.772 W	
14,700.0	90.00	359.36	11,843.0	3,019.1	-662.7	666,446.11	841,108.61	32° 49' 41.817 N	103° 21' 26.774 W	
14,800.0	90.00	359.36	11,843.0	3,119.1	-663.8	666,546.11	841,107.50	32° 49' 42.806 N	103° 21' 26.776 W	
14,900.0	90.00	359.36	11,843.0	3,219.0	-664.9	666,646.10	841,106.38	32° 49' 43.796 N	103° 21' 26.778 W	
15,000.0	90.00	359.36	11,843.0	3,319.0	-666.0	666,746.10	841,105.27	32° 49' 44.785 N	103° 21' 26.781 W	
15,100.0	90.00	359.36	11,843.0	3,419.0	-667.1	666,846.09	841,104.15	32° 49' 45.774 N	103° 21' 26.783 W	
15,200.0	90.00	359.36	11,843.0	3,519.0	-668.2	666,946.09	841,103.04	32° 49' 46.764 N	103° 21' 26.785 W	
15,300.0	90.00	359.36	11,843.0	3,619.0	-669.4	667,046.08	841,101.92	32° 49' 47.753 N	103° 21' 26.787 W	
15,400.0	90.00	359.36	11,843.0	3,719.0	-670.5	667,146.08	841,100.81	32° 49' 48.743 N	103° 21' 26.790 W	
15,500.0	90.00	359.36	11,843.0	3,819.0	-671.6	667,246.07	841,099.69	32° 49' 49.732 N	103° 21' 26.792 W	
15,600.0	90.00	359.36	11,843.0	3,919.0	-672.7	667,346.07	841,098.58	32° 49' 50.722 N	103° 21' 26.794 W	
15,700.0	90.00	359.36	11,843.0	4,019.0	-673.8	667,446.06	841,097.46	32° 49' 51.711 N	103° 21' 26.796 W	
15,800.0	90.00	359.36	11,843.0	4,119.0	-674.9	667,546.06	841,096.35	32° 49' 52.700 N	103° 21' 26.799 W	
15,900.0	90.00	359.36	11,843.0	4,219.0	-676.0	667,646.05	841,095.23	32° 49' 53.690 N	103° 21' 26.801 W	



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Site:	VCSU	North Reference:	Grid
Well:	VCSU #404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
16,000.0	90.00	359.36	11,843.0	4,319.0	-677.2	667,746.05	841,094.12	32° 49' 54.679 N	103° 21' 26.803 W	
16,100.0	90.00	359.36	11,843.0	4,419.0	-678.3	667,846.04	841,093.00	32° 49' 55.669 N	103° 21' 26.805 W	
16,200.0	90.00	359.36	11,843.0	4,519.0	-679.4	667,946.04	841,091.89	32° 49' 56.658 N	103° 21' 26.807 W	
16,300.0	90.00	359.36	11,843.0	4,619.0	-680.5	668,046.03	841,090.77	32° 49' 57.647 N	103° 21' 26.810 W	
16,400.0	90.00	359.36	11,843.0	4,719.0	-681.6	668,146.03	841,089.66	32° 49' 58.637 N	103° 21' 26.812 W	
16,500.0	90.00	359.36	11,843.0	4,818.9	-682.7	668,246.02	841,088.54	32° 49' 59.626 N	103° 21' 26.814 W	
16,600.0	90.00	359.36	11,843.0	4,918.9	-683.9	668,346.02	841,087.43	32° 50' 0.616 N	103° 21' 26.816 W	
16,700.0	90.00	359.36	11,843.0	5,018.9	-685.0	668,446.01	841,086.31	32° 50' 1.605 N	103° 21' 26.819 W	
16,800.0	90.00	359.36	11,843.0	5,118.9	-686.1	668,546.01	841,085.20	32° 50' 2.595 N	103° 21' 26.821 W	
16,900.0	90.00	359.36	11,843.0	5,218.9	-687.2	668,646.00	841,084.08	32° 50' 3.584 N	103° 21' 26.823 W	
17,000.0	90.00	359.36	11,843.0	5,318.9	-688.3	668,746.00	841,082.97	32° 50' 4.573 N	103° 21' 26.825 W	
17,100.0	90.00	359.36	11,843.0	5,418.9	-689.4	668,845.99	841,081.85	32° 50' 5.563 N	103° 21' 26.828 W	
17,200.0	90.00	359.36	11,843.0	5,518.9	-690.5	668,945.99	841,080.74	32° 50' 6.552 N	103° 21' 26.830 W	
17,300.0	90.00	359.36	11,843.0	5,618.9	-691.7	669,045.98	841,079.62	32° 50' 7.542 N	103° 21' 26.832 W	
17,400.0	90.00	359.36	11,843.0	5,718.9	-692.8	669,145.98	841,078.51	32° 50' 8.531 N	103° 21' 26.834 W	
17,500.0	90.00	359.36	11,843.0	5,818.9	-693.9	669,245.97	841,077.39	32° 50' 9.521 N	103° 21' 26.837 W	
17,600.0	90.00	359.36	11,843.0	5,918.9	-695.0	669,345.97	841,076.28	32° 50' 10.510 N	103° 21' 26.839 W	
17,700.0	90.00	359.36	11,843.0	6,018.9	-696.1	669,445.96	841,075.16	32° 50' 11.499 N	103° 21' 26.841 W	
17,800.0	90.00	359.36	11,843.0	6,118.9	-697.2	669,545.96	841,074.05	32° 50' 12.489 N	103° 21' 26.843 W	
17,900.0	90.00	359.36	11,843.0	6,218.9	-698.3	669,645.95	841,072.93	32° 50' 13.478 N	103° 21' 26.846 W	
18,000.0	90.00	359.36	11,843.0	6,318.9	-699.5	669,745.95	841,071.82	32° 50' 14.468 N	103° 21' 26.848 W	
18,100.0	90.00	359.36	11,843.0	6,418.8	-700.6	669,845.94	841,070.70	32° 50' 15.457 N	103° 21' 26.850 W	
18,200.0	90.00	359.36	11,843.0	6,518.8	-701.7	669,945.94	841,069.59	32° 50' 16.446 N	103° 21' 26.852 W	
18,300.0	90.00	359.36	11,843.0	6,618.8	-702.8	670,045.93	841,068.47	32° 50' 17.436 N	103° 21' 26.855 W	
18,400.0	90.00	359.36	11,843.0	6,718.8	-703.9	670,145.93	841,067.35	32° 50' 18.425 N	103° 21' 26.857 W	
18,500.0	90.00	359.36	11,843.0	6,818.8	-705.0	670,245.92	841,066.24	32° 50' 19.415 N	103° 21' 26.859 W	
18,600.0	90.00	359.36	11,843.0	6,918.8	-706.2	670,345.92	841,065.12	32° 50' 20.404 N	103° 21' 26.861 W	
18,700.0	90.00	359.36	11,843.0	7,018.8	-707.3	670,445.91	841,064.01	32° 50' 21.394 N	103° 21' 26.864 W	
18,800.0	90.00	359.36	11,843.0	7,118.8	-708.4	670,545.91	841,062.89	32° 50' 22.383 N	103° 21' 26.866 W	
18,900.0	90.00	359.36	11,843.0	7,218.8	-709.5	670,645.90	841,061.78	32° 50' 23.372 N	103° 21' 26.868 W	
19,000.0	90.00	359.36	11,843.0	7,318.8	-710.6	670,745.90	841,060.66	32° 50' 24.362 N	103° 21' 26.870 W	
19,100.0	90.00	359.36	11,843.0	7,418.8	-711.7	670,845.89	841,059.55	32° 50' 25.351 N	103° 21' 26.873 W	
19,200.0	90.00	359.36	11,843.0	7,518.8	-712.8	670,945.89	841,058.43	32° 50' 26.341 N	103° 21' 26.875 W	
19,300.0	90.00	359.36	11,843.0	7,618.8	-714.0	671,045.88	841,057.32	32° 50' 27.330 N	103° 21' 26.877 W	
19,400.0	90.00	359.36	11,843.0	7,718.8	-715.1	671,145.87	841,056.20	32° 50' 28.319 N	103° 21' 26.879 W	
19,500.0	90.00	359.36	11,843.0	7,818.8	-716.2	671,245.86	841,055.09	32° 50' 29.309 N	103° 21' 26.882 W	
19,600.0	90.00	359.36	11,843.0	7,918.8	-717.3	671,345.86	841,053.97	32° 50' 30.298 N	103° 21' 26.884 W	
19,700.0	90.00	359.36	11,843.0	8,018.7	-718.4	671,445.85	841,052.86	32° 50' 31.288 N	103° 21' 26.886 W	
19,800.0	90.00	359.36	11,843.0	8,118.7	-719.5	671,545.85	841,051.74	32° 50' 32.277 N	103° 21' 26.888 W	
19,900.0	90.00	359.36	11,843.0	8,218.7	-720.7	671,645.84	841,050.63	32° 50' 33.267 N	103° 21' 26.891 W	
20,000.0	90.00	359.36	11,843.0	8,318.7	-721.8	671,745.84	841,049.51	32° 50' 34.256 N	103° 21' 26.893 W	
20,100.0	90.00	359.36	11,843.0	8,418.7	-722.9	671,845.83	841,048.40	32° 50' 35.245 N	103° 21' 26.895 W	
20,200.0	90.00	359.36	11,843.0	8,518.7	-724.0	671,945.83	841,047.28	32° 50' 36.235 N	103° 21' 26.897 W	
20,300.0	90.00	359.36	11,843.0	8,618.7	-725.1	672,045.82	841,046.17	32° 50' 37.224 N	103° 21' 26.899 W	
20,400.0	90.00	359.36	11,843.0	8,718.7	-726.2	672,145.82	841,045.05	32° 50' 38.214 N	103° 21' 26.902 W	
20,500.0	90.00	359.36	11,843.0	8,818.7	-727.3	672,245.81	841,043.94	32° 50' 39.203 N	103° 21' 26.904 W	
20,600.0	90.00	359.36	11,843.0	8,918.7	-728.5	672,345.81	841,042.82	32° 50' 40.192 N	103° 21' 26.906 W	
20,700.0	90.00	359.36	11,843.0	9,018.7	-729.6	672,445.80	841,041.71	32° 50' 41.182 N	103° 21' 26.908 W	
20,800.0	90.00	359.36	11,843.0	9,118.7	-730.7	672,545.80	841,040.59	32° 50' 42.171 N	103° 21' 26.911 W	
20,900.0	90.00	359.36	11,843.0	9,218.7	-731.8	672,645.79	841,039.48	32° 50' 43.161 N	103° 21' 26.913 W	
21,000.0	90.00	359.36	11,843.0	9,318.7	-732.9	672,745.79	841,038.36	32° 50' 44.150 N	103° 21' 26.915 W	
21,100.0	90.00	359.36	11,843.0	9,418.7	-734.0	672,845.78	841,037.25	32° 50' 45.140 N	103° 21' 26.917 W	
21,200.0	90.00	359.36	11,843.0	9,518.7	-735.1	672,945.78	841,036.13	32° 50' 46.129 N	103° 21' 26.920 W	
21,300.0	90.00	359.36	11,843.0	9,618.6	-736.3	673,045.77	841,035.02	32° 50' 47.118 N	103° 21' 26.922 W	
21,400.0	90.00	359.36	11,843.0	9,718.6	-737.4	673,145.77	841,033.90	32° 50' 48.108 N	103° 21' 26.924 W	



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well VCSU #404H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3857.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3857.0usft
Site:	VCSU	North Reference:	Grid
Well:	VCSU #404H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
21,500.0	90.00	359.36	11,843.0	9,818.6	-738.5	673,245.76	841,032.79	32° 50' 49.097 N	103° 21' 26.926 W	
21,600.0	90.00	359.36	11,843.0	9,918.6	-739.6	673,345.76	841,031.67	32° 50' 50.087 N	103° 21' 26.929 W	
21,700.0	90.00	359.36	11,843.0	10,018.6	-740.7	673,445.75	841,030.56	32° 50' 51.076 N	103° 21' 26.931 W	
21,800.0	90.00	359.36	11,843.0	10,118.6	-741.8	673,545.75	841,029.44	32° 50' 52.065 N	103° 21' 26.933 W	
21,900.0	90.00	359.36	11,843.0	10,218.6	-743.0	673,645.74	841,028.33	32° 50' 53.055 N	103° 21' 26.935 W	
22,000.0	90.00	359.36	11,843.0	10,318.6	-744.1	673,745.74	841,027.21	32° 50' 54.044 N	103° 21' 26.938 W	
22,100.0	90.00	359.36	11,843.0	10,418.6	-745.2	673,845.73	841,026.10	32° 50' 55.034 N	103° 21' 26.940 W	
22,200.0	90.00	359.36	11,843.0	10,518.6	-746.3	673,945.73	841,024.98	32° 50' 56.023 N	103° 21' 26.942 W	
22,300.0	90.00	359.36	11,843.0	10,618.6	-747.4	674,045.73	841,023.87	32° 50' 57.013 N	103° 21' 26.944 W	
22,366.1	90.00	359.36	11,843.0	10,684.7	-748.2	674,111.85	841,023.13	32° 50' 57.667 N	103° 21' 26.946 W	

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VCSU #404H BHL - plan hits target center - Point	0.00	0.00	11,843.0	10,684.7	-748.2	674,111.85	841,023.13	32° 50' 57.667 N	103° 21' 26.946 W	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 336195

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 336195
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	SURFACE AND INTERMEDIATE1 CEMENT MUST COME TO THE SURFACE. ALL OTHER STRINGS MUST TIE BACK WITHIN THE NEXT HIGHER STRING.	8/20/2024