

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. 30-025-51019
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>1381</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
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3857'		8. Well Number 303H
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:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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 (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.

Original FTP Location: 2540' FSL, 660' FEL ; LAT: 32.820079, LONG: -103.353123, Section 21
 Original LTP Location: 100' FSL, 660' FEL ; LAT: 32.798825, LONG: -103.353097, Section 28
 Original BHL Location: 50' FSL, 660' FEL ; LAT: 32.798687, LONG: -103.353095, Section 28

New FTP Location: 2557' FSL, 660' FEL ; LAT: 32.820126, LONG: -103.353124, Section 21
 New LTP Location: 2563' FNL, 660' FEL ; LAT: 32.791507, LONG: -103.353104, Section 33
 New BHL Location: 2613' FNL, 660' FEL ; LAT: 32.791370, LONG: -103.353104, Section 33

Spud Date:

9/13/2023

Rig Release Date:

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

SIGNATURE Samy Hajjar TITLE Regulatory Analyst DATE 6/20/2023
 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): _____

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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 30-025-51019	² Pool Code 98333	³ Pool Name WC025 G09 S173615C; UPPER PENN
⁴ Property Code 333408	⁵ Property Name VINDICATOR CANYON STATE UNIT	⁶ Well Number 303H
⁷ OGRID No. 260297	⁸ Operator Name BTA OIL PRODUCERS, LLC	⁹ Elevation 3857'

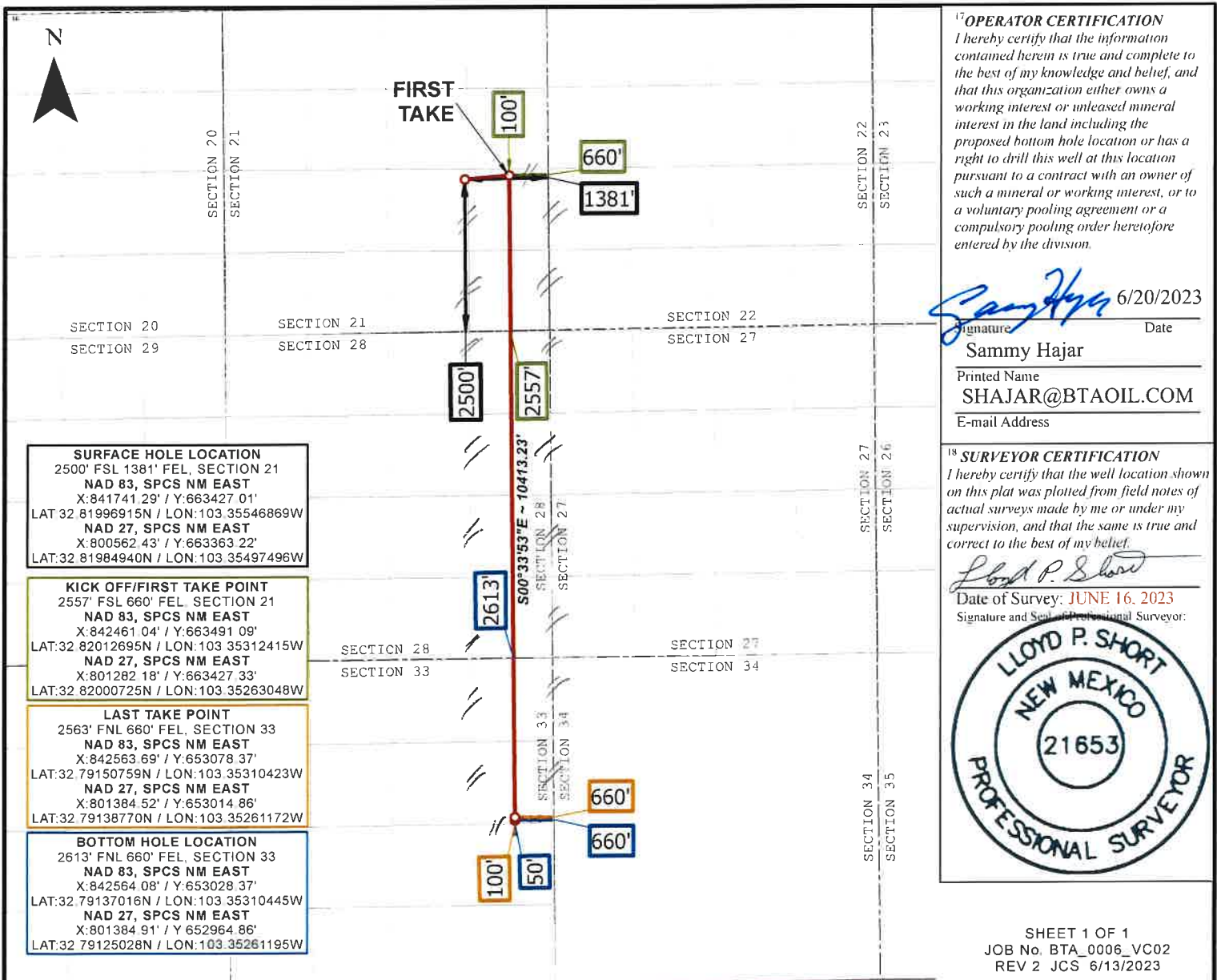
¹⁰ Surface Location

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	1381	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
H	33	17S	36E		2613	North	660	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.



¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sammy Hajar 6/20/2023
Signature Date

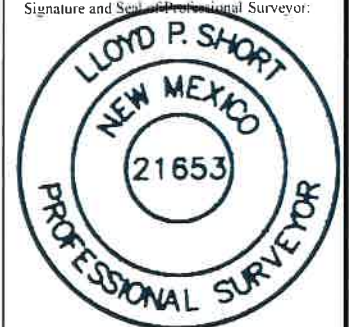
Printed Name

SHAJAR@BTAOIL.COM

E-mail Address

¹⁸ SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Lloyd P. Short
Date of Survey: JUNE 16, 2023
Signature and Seal of Professional Surveyor:



SHEET 1 OF 1
JOB No. BTA_0006_VC02
REV 2 JCS 6/13/2023



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

WELL: Vindicator Canyon State #303H
TVD: 11873
MD: 22156

DRILLING PLAN

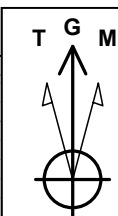
Casing Program

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	11395	5113	11346	No	29.7	P110	FJ	1.8	1.7	2.8	2.8	Dry	9.4
6 3/4	5 1/2	0	11195	11346	11146	Yes	20	P110	BTC	1.6	1.8	2.9	3.0	Dry	12
6 3/4	5	11195	22156	11146	11873	Yes	18	P110	BTC	1.8	1.9	2.9	3.1	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	9525	25% Poz 75% Class C	185	2.99	11	553.15	15%	0.5% CaCl2
	Tail		9525	11395	Class H	200	1.19	15.6	238	15%	1% CaCl2
5 1/2	Lead										
	Tail		10395	11346							
5	Lead										
	Tail		11195	22156	Class H	1145	1.27	14.8	1454.15	10%	0.1% Fluid Loss

BTA Oil Producers, LLC



Azimuths to Grid North
True North: -
Magnetic North: -
Magnetic Field
Strength: 49173.3nT
Dip Angle: 60.83°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: Vindicator Canyon State #303H					
+N/-S	+E/-W	Northing	Ground Level Easting	3858.0 Latitude	Longitude
0.0	0.0	663427.03	841741.80	32° 49' 11.889 N	103° 21' 19.681 W

SITE DETAILS: Vindicator Canyon State

Site Centre Northing: 663864.19
Easting: 844436.41

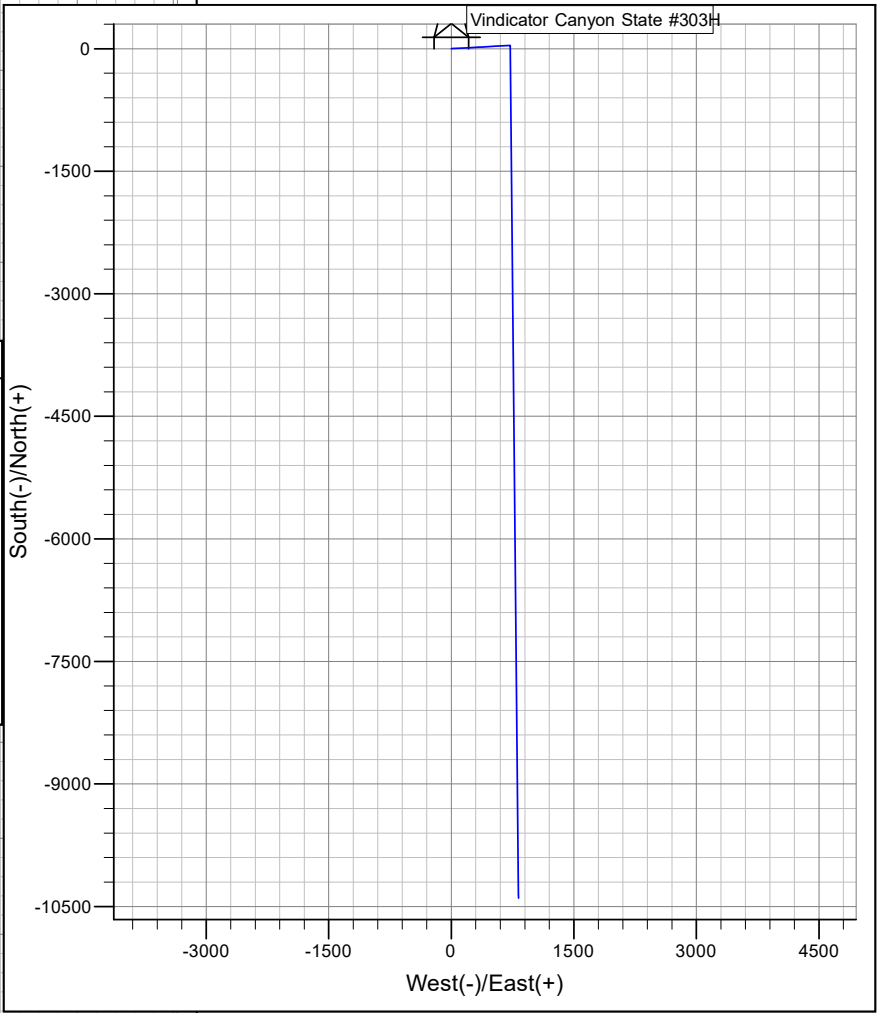
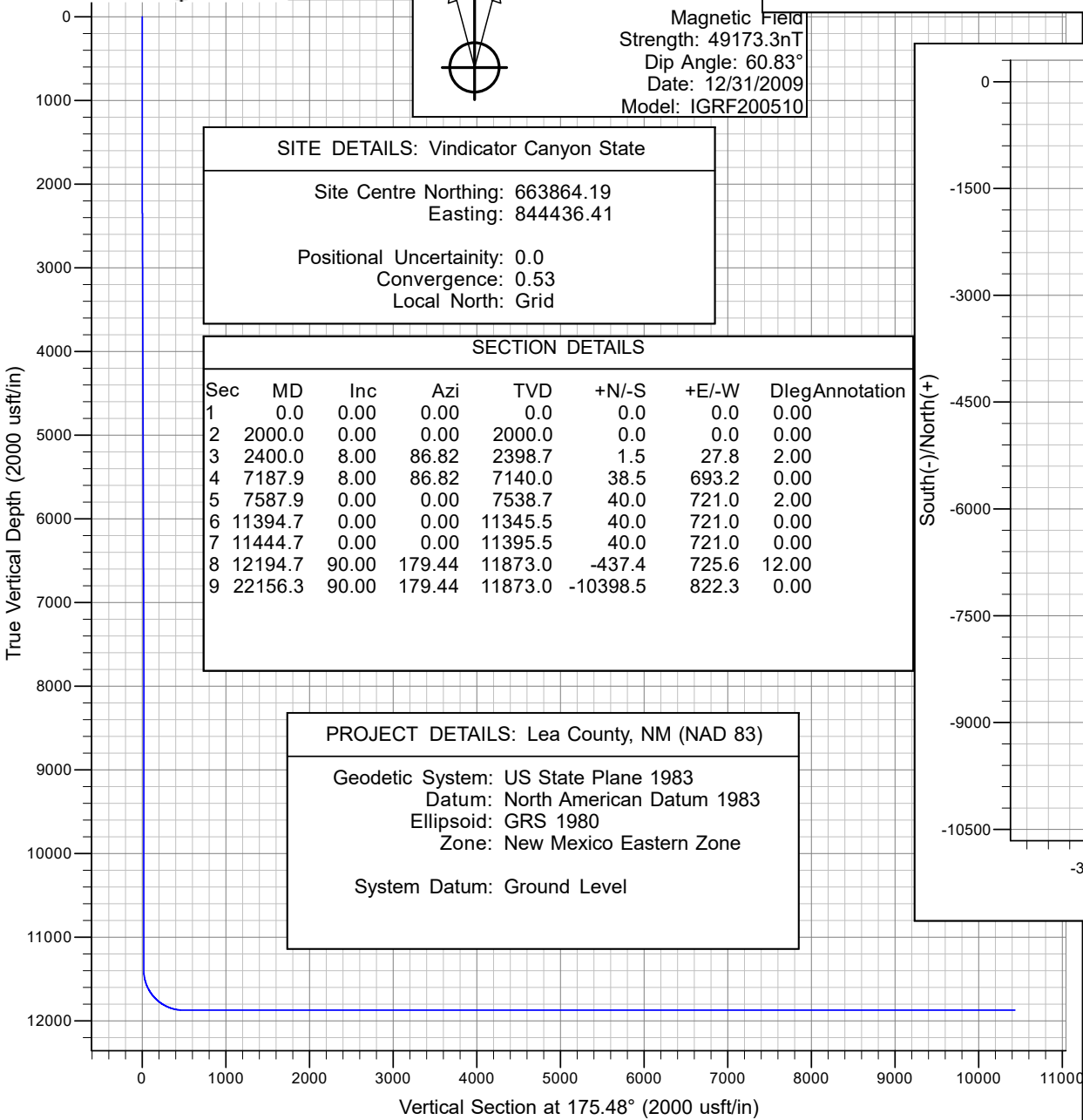
Positional Uncertainty: 0.0
Convergence: 0.53
Local North: Grid

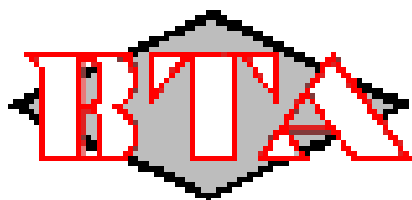
SECTION DETAILS							
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DlegAnnotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00
3	2400.0	8.00	86.82	2398.7	1.5	27.8	2.00
4	7187.9	8.00	86.82	7140.0	38.5	693.2	0.00
5	7587.9	0.00	0.00	7538.7	40.0	721.0	2.00
6	11394.7	0.00	0.00	11345.5	40.0	721.0	0.00
7	11444.7	0.00	0.00	11395.5	40.0	721.0	0.00
8	12194.7	90.00	179.44	11873.0	-437.4	725.6	12.00
9	22156.3	90.00	179.44	11873.0	-10398.5	822.3	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)

Vindicator Canyon State

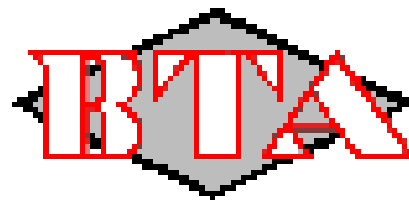
Vindicator Canyon State #303H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

12 June, 2023





Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #303H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3858.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3858.0usft
Site:	Vindicator Canyon State	North Reference:	Grid
Well:	Vindicator Canyon State #303H	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		Vindicator Canyon State			
Site Position:		Northing:	663,864.19 usft	Latitude:	32° 49' 15.966 N
From:	Map	Easting:	844,436.41 usft	Longitude:	103° 20' 48.060 W
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	

Well	Vindicator Canyon State #303H					
Well Position	+N/-S	0.0 usft	Northing:	663,427.03 usft	Latitude:	32° 49' 11.889 N
	+E/-W	0.0 usft	Easting:	841,741.80 usft	Longitude:	103° 21' 19.681 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,858.0 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	49,173.34425254

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	175.48

Plan Survey Tool Program	Date	6/12/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,156.3 Design #1 (Wellbore #1)		



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #303H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3858.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3858.0usft
Site:	Vindicator Canyon State	North Reference:	Grid
Well:	Vindicator Canyon State #303H	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	86.82	2,398.7	1.5	27.8	2.00	2.00	0.00	86.82	
7,187.9	8.00	86.82	7,140.0	38.5	693.2	0.00	0.00	0.00	0.00	
7,587.9	0.00	0.00	7,538.7	40.0	721.0	2.00	-2.00	0.00	180.00	
11,394.7	0.00	0.00	11,345.5	40.0	721.0	0.00	0.00	0.00	0.00	
11,444.7	0.00	0.00	11,395.5	40.0	721.0	0.00	0.00	0.00	0.00	
12,194.7	90.00	179.44	11,873.0	-437.4	725.6	12.00	12.00	0.00	179.44	
22,156.3	90.00	179.44	11,873.0	-10,398.5	822.3	0.00	0.00	0.00	0.00	Vindicator Canyon St



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #303H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3858.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3858.0usft
Site:	Vindicator Canyon State	North Reference:	Grid
Well:	Vindicator Canyon State #303H	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	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
100.0	0.00	0.00	100.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
200.0	0.00	0.00	200.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
300.0	0.00	0.00	300.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
400.0	0.00	0.00	400.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
500.0	0.00	0.00	500.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
600.0	0.00	0.00	600.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
700.0	0.00	0.00	700.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
800.0	0.00	0.00	800.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
900.0	0.00	0.00	900.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	663,427.03	841,741.80	32° 49' 11.889 N	103° 21' 19.681 W
2,100.0	2.00	86.82	2,100.0	0.1	1.7	663,427.13	841,743.54	32° 49' 11.890 N	103° 21' 19.661 W
2,200.0	4.00	86.82	2,199.8	0.4	7.0	663,427.42	841,748.77	32° 49' 11.892 N	103° 21' 19.600 W
2,300.0	6.00	86.82	2,299.5	0.9	15.7	663,427.90	841,757.47	32° 49' 11.896 N	103° 21' 19.498 W
2,400.0	8.00	86.82	2,398.7	1.5	27.8	663,428.58	841,769.64	32° 49' 11.902 N	103° 21' 19.355 W
2,500.0	8.00	86.82	2,497.7	2.3	41.7	663,429.35	841,783.53	32° 49' 11.908 N	103° 21' 19.192 W
2,600.0	8.00	86.82	2,596.8	3.1	55.6	663,430.12	841,797.43	32° 49' 11.915 N	103° 21' 19.029 W
2,700.0	8.00	86.82	2,695.8	3.9	69.5	663,430.89	841,811.32	32° 49' 11.921 N	103° 21' 18.866 W
2,800.0	8.00	86.82	2,794.8	4.6	83.4	663,431.66	841,825.22	32° 49' 11.927 N	103° 21' 18.703 W
2,900.0	8.00	86.82	2,893.8	5.4	97.3	663,432.43	841,839.12	32° 49' 11.934 N	103° 21' 18.540 W
3,000.0	8.00	86.82	2,992.9	6.2	111.2	663,433.20	841,853.01	32° 49' 11.940 N	103° 21' 18.378 W
3,100.0	8.00	86.82	3,091.9	6.9	125.1	663,433.98	841,866.91	32° 49' 11.946 N	103° 21' 18.215 W
3,200.0	8.00	86.82	3,190.9	7.7	139.0	663,434.75	841,880.81	32° 49' 11.953 N	103° 21' 18.052 W
3,300.0	8.00	86.82	3,289.9	8.5	152.9	663,435.52	841,894.70	32° 49' 11.959 N	103° 21' 17.889 W
3,400.0	8.00	86.82	3,389.0	9.3	166.8	663,436.29	841,908.60	32° 49' 11.965 N	103° 21' 17.726 W
3,500.0	8.00	86.82	3,488.0	10.0	180.7	663,437.06	841,922.49	32° 49' 11.972 N	103° 21' 17.563 W
3,600.0	8.00	86.82	3,587.0	10.8	194.6	663,437.83	841,936.39	32° 49' 11.978 N	103° 21' 17.400 W
3,700.0	8.00	86.82	3,686.0	11.6	208.5	663,438.60	841,950.29	32° 49' 11.984 N	103° 21' 17.237 W
3,800.0	8.00	86.82	3,785.1	12.3	222.4	663,439.37	841,964.18	32° 49' 11.991 N	103° 21' 17.074 W
3,900.0	8.00	86.82	3,884.1	13.1	236.3	663,440.14	841,978.08	32° 49' 11.997 N	103° 21' 16.911 W
4,000.0	8.00	86.82	3,983.1	13.9	250.2	663,440.91	841,991.97	32° 49' 12.003 N	103° 21' 16.748 W
4,100.0	8.00	86.82	4,082.2	14.7	264.1	663,441.69	842,005.87	32° 49' 12.010 N	103° 21' 16.586 W
4,200.0	8.00	86.82	4,181.2	15.4	278.0	663,442.46	842,019.77	32° 49' 12.016 N	103° 21' 16.423 W
4,300.0	8.00	86.82	4,280.2	16.2	291.9	663,443.23	842,033.66	32° 49' 12.023 N	103° 21' 16.260 W
4,400.0	8.00	86.82	4,379.2	17.0	305.8	663,444.00	842,047.56	32° 49' 12.029 N	103° 21' 16.097 W
4,500.0	8.00	86.82	4,478.3	17.7	319.7	663,444.77	842,061.45	32° 49' 12.035 N	103° 21' 15.934 W
4,600.0	8.00	86.82	4,577.3	18.5	333.5	663,445.54	842,075.35	32° 49' 12.042 N	103° 21' 15.771 W
4,700.0	8.00	86.82	4,676.3	19.3	347.4	663,446.31	842,089.25	32° 49' 12.048 N	103° 21' 15.608 W
4,800.0	8.00	86.82	4,775.3	20.0	361.3	663,447.08	842,103.14	32° 49' 12.054 N	103° 21' 15.445 W
4,900.0	8.00	86.82	4,874.4	20.8	375.2	663,447.85	842,117.04	32° 49' 12.061 N	103° 21' 15.282 W
5,000.0	8.00	86.82	4,973.4	21.6	389.1	663,448.62	842,130.94	32° 49' 12.067 N	103° 21' 15.119 W
5,100.0	8.00	86.82	5,072.4	22.4	403.0	663,449.39	842,144.83	32° 49' 12.073 N	103° 21' 14.957 W
5,200.0	8.00	86.82	5,171.5	23.1	416.9	663,450.17	842,158.73	32° 49' 12.080 N	103° 21' 14.794 W
5,300.0	8.00	86.82	5,270.5	23.9	430.8	663,450.94	842,172.62	32° 49' 12.086 N	103° 21' 14.631 W
5,400.0	8.00	86.82	5,369.5	24.7	444.7	663,451.71	842,186.52	32° 49' 12.092 N	103° 21' 14.468 W



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #303H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3858.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3858.0usft
Site:	Vindicator Canyon State	North Reference:	Grid
Well:	Vindicator Canyon State #303H	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	86.82	5,468.5	25.4	458.6	663,452.48	842,200.42	32° 49' 12.099 N	103° 21' 14.305 W	
5,600.0	8.00	86.82	5,567.6	26.2	472.5	663,453.25	842,214.31	32° 49' 12.105 N	103° 21' 14.142 W	
5,700.0	8.00	86.82	5,666.6	27.0	486.4	663,454.02	842,228.21	32° 49' 12.112 N	103° 21' 13.979 W	
5,800.0	8.00	86.82	5,765.6	27.8	500.3	663,454.79	842,242.10	32° 49' 12.118 N	103° 21' 13.816 W	
5,900.0	8.00	86.82	5,864.6	28.5	514.2	663,455.56	842,256.00	32° 49' 12.124 N	103° 21' 13.653 W	
6,000.0	8.00	86.82	5,963.7	29.3	528.1	663,456.33	842,269.90	32° 49' 12.131 N	103° 21' 13.490 W	
6,100.0	8.00	86.82	6,062.7	30.1	542.0	663,457.10	842,283.79	32° 49' 12.137 N	103° 21' 13.327 W	
6,200.0	8.00	86.82	6,161.7	30.8	555.9	663,457.87	842,297.69	32° 49' 12.143 N	103° 21' 13.165 W	
6,300.0	8.00	86.82	6,260.7	31.6	569.8	663,458.65	842,311.58	32° 49' 12.150 N	103° 21' 13.002 W	
6,400.0	8.00	86.82	6,359.8	32.4	583.7	663,459.42	842,325.48	32° 49' 12.156 N	103° 21' 12.839 W	
6,500.0	8.00	86.82	6,458.8	33.2	597.6	663,460.19	842,339.38	32° 49' 12.162 N	103° 21' 12.676 W	
6,600.0	8.00	86.82	6,557.8	33.9	611.5	663,460.96	842,353.27	32° 49' 12.169 N	103° 21' 12.513 W	
6,700.0	8.00	86.82	6,656.9	34.7	625.4	663,461.73	842,367.17	32° 49' 12.175 N	103° 21' 12.350 W	
6,800.0	8.00	86.82	6,755.9	35.5	639.3	663,462.50	842,381.07	32° 49' 12.181 N	103° 21' 12.187 W	
6,900.0	8.00	86.82	6,854.9	36.2	653.2	663,463.27	842,394.96	32° 49' 12.188 N	103° 21' 12.024 W	
7,000.0	8.00	86.82	6,953.9	37.0	667.1	663,464.04	842,408.86	32° 49' 12.194 N	103° 21' 11.861 W	
7,100.0	8.00	86.82	7,053.0	37.8	680.9	663,464.81	842,422.75	32° 49' 12.200 N	103° 21' 11.698 W	
7,187.9	8.00	86.82	7,140.0	38.5	693.2	663,465.49	842,434.97	32° 49' 12.206 N	103° 21' 11.555 W	
7,200.0	7.76	86.82	7,152.0	38.5	694.8	663,465.58	842,436.62	32° 49' 12.207 N	103° 21' 11.536 W	
7,300.0	5.76	86.82	7,251.3	39.2	706.6	663,466.23	842,448.37	32° 49' 12.212 N	103° 21' 11.398 W	
7,400.0	3.76	86.82	7,350.9	39.7	714.8	663,466.69	842,456.66	32° 49' 12.216 N	103° 21' 11.301 W	
7,500.0	1.76	86.82	7,450.8	39.9	719.7	663,466.96	842,461.46	32° 49' 12.218 N	103° 21' 11.245 W	
7,587.9	0.00	0.00	7,538.7	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
7,600.0	0.00	0.00	7,550.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
7,700.0	0.00	0.00	7,650.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
7,800.0	0.00	0.00	7,750.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
7,900.0	0.00	0.00	7,850.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,000.0	0.00	0.00	7,950.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,100.0	0.00	0.00	8,050.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,200.0	0.00	0.00	8,150.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,300.0	0.00	0.00	8,250.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,400.0	0.00	0.00	8,350.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,500.0	0.00	0.00	8,450.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,600.0	0.00	0.00	8,550.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,700.0	0.00	0.00	8,650.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,800.0	0.00	0.00	8,750.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
8,900.0	0.00	0.00	8,850.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,000.0	0.00	0.00	8,950.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,100.0	0.00	0.00	9,050.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,200.0	0.00	0.00	9,150.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,300.0	0.00	0.00	9,250.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,400.0	0.00	0.00	9,350.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,500.0	0.00	0.00	9,450.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,600.0	0.00	0.00	9,550.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,700.0	0.00	0.00	9,650.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,800.0	0.00	0.00	9,750.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
9,900.0	0.00	0.00	9,850.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,000.0	0.00	0.00	9,950.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,100.0	0.00	0.00	10,050.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,200.0	0.00	0.00	10,150.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,300.0	0.00	0.00	10,250.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,400.0	0.00	0.00	10,350.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,500.0	0.00	0.00	10,450.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,600.0	0.00	0.00	10,550.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,700.0	0.00	0.00	10,650.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #303H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3858.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3858.0usft
Site:	Vindicator Canyon State	North Reference:	Grid
Well:	Vindicator Canyon State #303H	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	10,750.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
10,900.0	0.00	0.00	10,850.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
11,000.0	0.00	0.00	10,950.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
11,100.0	0.00	0.00	11,050.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
11,200.0	0.00	0.00	11,150.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
11,300.0	0.00	0.00	11,250.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
11,394.7	0.00	0.00	11,345.5	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
11,400.0	0.00	0.00	11,350.8	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
11,444.7	0.00	0.00	11,395.5	40.0	721.0	663,467.04	842,462.81	32° 49' 12.219 N	103° 21' 11.229 W	
11,500.0	6.63	179.44	11,450.7	36.8	721.0	663,463.84	842,462.84	32° 49' 12.187 N	103° 21' 11.229 W	
11,600.0	18.63	179.44	11,548.1	15.0	721.2	663,442.01	842,463.05	32° 49' 11.971 N	103° 21' 11.229 W	
11,700.0	30.63	179.44	11,638.8	-26.6	721.6	663,400.41	842,463.45	32° 49' 11.560 N	103° 21' 11.229 W	
11,800.0	42.63	179.44	11,718.9	-86.2	722.2	663,340.85	842,464.03	32° 49' 10.970 N	103° 21' 11.228 W	
11,900.0	54.63	179.44	11,784.9	-161.1	723.0	663,265.94	842,464.76	32° 49' 10.229 N	103° 21' 11.228 W	
12,000.0	66.63	179.44	11,833.8	-248.1	723.8	663,178.95	842,465.60	32° 49' 9.368 N	103° 21' 11.227 W	
12,100.0	78.63	179.44	11,863.6	-343.3	724.7	663,083.69	842,466.53	32° 49' 8.426 N	103° 21' 11.227 W	
12,194.7	90.00	179.44	11,873.0	-437.4	725.6	662,989.59	842,467.44	32° 49' 7.495 N	103° 21' 11.226 W	
12,200.0	90.00	179.44	11,873.0	-442.7	725.7	662,984.31	842,467.49	32° 49' 7.442 N	103° 21' 11.226 W	
12,300.0	90.00	179.44	11,873.0	-542.7	726.7	662,884.32	842,468.46	32° 49' 6.453 N	103° 21' 11.226 W	
12,400.0	90.00	179.44	11,873.0	-642.7	727.6	662,784.32	842,469.43	32° 49' 5.464 N	103° 21' 11.225 W	
12,500.0	90.00	179.44	11,873.0	-742.7	728.6	662,684.33	842,470.40	32° 49' 4.474 N	103° 21' 11.225 W	
12,600.0	90.00	179.44	11,873.0	-842.7	729.6	662,584.33	842,471.37	32° 49' 3.485 N	103° 21' 11.224 W	
12,700.0	90.00	179.44	11,873.0	-942.7	730.5	662,484.33	842,472.34	32° 49' 2.495 N	103° 21' 11.224 W	
12,800.0	90.00	179.44	11,873.0	-1,042.7	731.5	662,384.34	842,473.31	32° 49' 1.506 N	103° 21' 11.223 W	
12,900.0	90.00	179.44	11,873.0	-1,142.7	732.5	662,284.34	842,474.28	32° 49' 0.517 N	103° 21' 11.223 W	
13,000.0	90.00	179.44	11,873.0	-1,242.7	733.4	662,184.34	842,475.25	32° 48' 59.527 N	103° 21' 11.222 W	
13,100.0	90.00	179.44	11,873.0	-1,342.7	734.4	662,084.35	842,476.22	32° 48' 58.538 N	103° 21' 11.222 W	
13,200.0	90.00	179.44	11,873.0	-1,442.7	735.4	661,984.35	842,477.19	32° 48' 57.548 N	103° 21' 11.221 W	
13,300.0	90.00	179.44	11,873.0	-1,542.7	736.4	661,884.35	842,478.16	32° 48' 56.559 N	103° 21' 11.221 W	
13,400.0	90.00	179.44	11,873.0	-1,642.7	737.3	661,784.36	842,479.13	32° 48' 55.569 N	103° 21' 11.220 W	
13,500.0	90.00	179.44	11,873.0	-1,742.7	738.3	661,684.36	842,480.10	32° 48' 54.580 N	103° 21' 11.220 W	
13,600.0	90.00	179.44	11,873.0	-1,842.6	739.3	661,584.36	842,481.07	32° 48' 53.591 N	103° 21' 11.219 W	
13,700.0	90.00	179.44	11,873.0	-1,942.6	740.2	661,484.37	842,482.04	32° 48' 52.601 N	103° 21' 11.219 W	
13,800.0	90.00	179.44	11,873.0	-2,042.6	741.2	661,384.37	842,483.01	32° 48' 51.612 N	103° 21' 11.218 W	
13,900.0	90.00	179.44	11,873.0	-2,142.6	742.2	661,284.37	842,483.98	32° 48' 50.622 N	103° 21' 11.218 W	
14,000.0	90.00	179.44	11,873.0	-2,242.6	743.1	661,184.38	842,484.95	32° 48' 49.633 N	103° 21' 11.217 W	
14,100.0	90.00	179.44	11,873.0	-2,342.6	744.1	661,084.38	842,485.92	32° 48' 48.643 N	103° 21' 11.217 W	
14,200.0	90.00	179.44	11,873.0	-2,442.6	745.1	660,984.38	842,486.89	32° 48' 47.654 N	103° 21' 11.216 W	
14,300.0	90.00	179.44	11,873.0	-2,542.6	746.1	660,884.39	842,487.86	32° 48' 46.665 N	103° 21' 11.216 W	
14,400.0	90.00	179.44	11,873.0	-2,642.6	747.0	660,784.39	842,488.83	32° 48' 45.675 N	103° 21' 11.215 W	
14,500.0	90.00	179.44	11,873.0	-2,742.6	748.0	660,684.39	842,489.80	32° 48' 44.686 N	103° 21' 11.215 W	
14,600.0	90.00	179.44	11,873.0	-2,842.6	749.0	660,584.40	842,490.77	32° 48' 43.696 N	103° 21' 11.214 W	
14,700.0	90.00	179.44	11,873.0	-2,942.6	749.9	660,484.40	842,491.74	32° 48' 42.707 N	103° 21' 11.214 W	
14,800.0	90.00	179.44	11,873.0	-3,042.6	750.9	660,384.40	842,492.71	32° 48' 41.717 N	103° 21' 11.213 W	
14,900.0	90.00	179.44	11,873.0	-3,142.6	751.9	660,284.41	842,493.68	32° 48' 40.728 N	103° 21' 11.213 W	
15,000.0	90.00	179.44	11,873.0	-3,242.6	752.8	660,184.41	842,494.65	32° 48' 39.739 N	103° 21' 11.212 W	
15,100.0	90.00	179.44	11,873.0	-3,342.6	753.8	660,084.42	842,495.62	32° 48' 38.749 N	103° 21' 11.212 W	
15,200.0	90.00	179.44	11,873.0	-3,442.6	754.8	659,984.42	842,496.59	32° 48' 37.760 N	103° 21' 11.211 W	
15,300.0	90.00	179.44	11,873.0	-3,542.6	755.8	659,884.42	842,497.56	32° 48' 36.770 N	103° 21' 11.211 W	
15,400.0	90.00	179.44	11,873.0	-3,642.6	756.7	659,784.43	842,498.53	32° 48' 35.781 N	103° 21' 11.210 W	
15,500.0	90.00	179.44	11,873.0	-3,742.6	757.7	659,684.43	842,499.50	32° 48' 34.791 N	103° 21' 11.210 W	
15,600.0	90.00	179.44	11,873.0	-3,842.6	758.7	659,584.43	842,500.48	32° 48' 33.802 N	103° 21' 11.209 W	
15,700.0	90.00	179.44	11,873.0	-3,942.5	759.6	659,484.44	842,501.45	32° 48' 32.813 N	103° 21' 11.209 W	
15,800.0	90.00	179.44	11,873.0	-4,042.5	760.6	659,384.44	842,502.42	32° 48' 31.823 N	103° 21' 11.208 W	
15,900.0	90.00	179.44	11,873.0	-4,142.5	761.6	659,284.44	842,503.39	32° 48' 30.834 N	103° 21' 11.208 W	



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #303H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3858.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3858.0usft
Site:	Vindicator Canyon State	North Reference:	Grid
Well:	Vindicator Canyon State #303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
16,000.0	90.00	179.44	11,873.0	-4,242.5	762.5	659,184.45	842,504.36	32° 48' 29.844 N	103° 21' 11.207 W	
16,100.0	90.00	179.44	11,873.0	-4,342.5	763.5	659,084.45	842,505.33	32° 48' 28.855 N	103° 21' 11.207 W	
16,200.0	90.00	179.44	11,873.0	-4,442.5	764.5	658,984.45	842,506.30	32° 48' 27.866 N	103° 21' 11.206 W	
16,300.0	90.00	179.44	11,873.0	-4,542.5	765.5	658,884.46	842,507.27	32° 48' 26.876 N	103° 21' 11.206 W	
16,400.0	90.00	179.44	11,873.0	-4,642.5	766.4	658,784.46	842,508.24	32° 48' 25.887 N	103° 21' 11.205 W	
16,500.0	90.00	179.44	11,873.0	-4,742.5	767.4	658,684.46	842,509.21	32° 48' 24.897 N	103° 21' 11.205 W	
16,600.0	90.00	179.44	11,873.0	-4,842.5	768.4	658,584.47	842,510.18	32° 48' 23.908 N	103° 21' 11.204 W	
16,700.0	90.00	179.44	11,873.0	-4,942.5	769.3	658,484.47	842,511.15	32° 48' 22.918 N	103° 21' 11.204 W	
16,800.0	90.00	179.44	11,873.0	-5,042.5	770.3	658,384.47	842,512.12	32° 48' 21.929 N	103° 21' 11.203 W	
16,900.0	90.00	179.44	11,873.0	-5,142.5	771.3	658,284.48	842,513.09	32° 48' 20.940 N	103° 21' 11.203 W	
17,000.0	90.00	179.44	11,873.0	-5,242.5	772.2	658,184.48	842,514.06	32° 48' 19.950 N	103° 21' 11.202 W	
17,100.0	90.00	179.44	11,873.0	-5,342.5	773.2	658,084.48	842,515.03	32° 48' 18.961 N	103° 21' 11.202 W	
17,200.0	90.00	179.44	11,873.0	-5,442.5	774.2	657,984.49	842,516.00	32° 48' 17.971 N	103° 21' 11.201 W	
17,300.0	90.00	179.44	11,873.0	-5,542.5	775.2	657,884.49	842,516.97	32° 48' 16.982 N	103° 21' 11.201 W	
17,400.0	90.00	179.44	11,873.0	-5,642.5	776.1	657,784.49	842,517.94	32° 48' 15.992 N	103° 21' 11.200 W	
17,500.0	90.00	179.44	11,873.0	-5,742.5	777.1	657,684.50	842,518.91	32° 48' 15.003 N	103° 21' 11.200 W	
17,600.0	90.00	179.44	11,873.0	-5,842.5	778.1	657,584.50	842,519.88	32° 48' 14.014 N	103° 21' 11.199 W	
17,700.0	90.00	179.44	11,873.0	-5,942.5	779.0	657,484.51	842,520.85	32° 48' 13.024 N	103° 21' 11.199 W	
17,800.0	90.00	179.44	11,873.0	-6,042.5	780.0	657,384.51	842,521.82	32° 48' 12.035 N	103° 21' 11.198 W	
17,900.0	90.00	179.44	11,873.0	-6,142.4	781.0	657,284.51	842,522.79	32° 48' 11.045 N	103° 21' 11.198 W	
18,000.0	90.00	179.44	11,873.0	-6,242.4	781.9	657,184.52	842,523.76	32° 48' 10.056 N	103° 21' 11.197 W	
18,100.0	90.00	179.44	11,873.0	-6,342.4	782.9	657,084.52	842,524.73	32° 48' 9.066 N	103° 21' 11.197 W	
18,200.0	90.00	179.44	11,873.0	-6,442.4	783.9	656,984.52	842,525.70	32° 48' 8.077 N	103° 21' 11.196 W	
18,300.0	90.00	179.44	11,873.0	-6,542.4	784.9	656,884.53	842,526.67	32° 48' 7.088 N	103° 21' 11.196 W	
18,400.0	90.00	179.44	11,873.0	-6,642.4	785.8	656,784.53	842,527.64	32° 48' 6.098 N	103° 21' 11.195 W	
18,500.0	90.00	179.44	11,873.0	-6,742.4	786.8	656,684.53	842,528.61	32° 48' 5.109 N	103° 21' 11.195 W	
18,600.0	90.00	179.44	11,873.0	-6,842.4	787.8	656,584.54	842,529.58	32° 48' 4.119 N	103° 21' 11.194 W	
18,700.0	90.00	179.44	11,873.0	-6,942.4	788.7	656,484.54	842,530.55	32° 48' 3.130 N	103° 21' 11.194 W	
18,800.0	90.00	179.44	11,873.0	-7,042.4	789.7	656,384.54	842,531.52	32° 48' 2.140 N	103° 21' 11.193 W	
18,900.0	90.00	179.44	11,873.0	-7,142.4	790.7	656,284.55	842,532.49	32° 48' 1.151 N	103° 21' 11.193 W	
19,000.0	90.00	179.44	11,873.0	-7,242.4	791.7	656,184.55	842,533.46	32° 48' 0.162 N	103° 21' 11.192 W	
19,100.0	90.00	179.44	11,873.0	-7,342.4	792.6	656,084.55	842,534.43	32° 47' 59.172 N	103° 21' 11.192 W	
19,200.0	90.00	179.44	11,873.0	-7,442.4	793.6	655,984.56	842,535.40	32° 47' 58.183 N	103° 21' 11.191 W	
19,300.0	90.00	179.44	11,873.0	-7,542.4	794.6	655,884.56	842,536.37	32° 47' 57.193 N	103° 21' 11.191 W	
19,400.0	90.00	179.44	11,873.0	-7,642.4	795.5	655,784.56	842,537.34	32° 47' 56.204 N	103° 21' 11.190 W	
19,500.0	90.00	179.44	11,873.0	-7,742.4	796.5	655,684.57	842,538.31	32° 47' 55.215 N	103° 21' 11.190 W	
19,600.0	90.00	179.44	11,873.0	-7,842.4	797.5	655,584.57	842,539.28	32° 47' 54.225 N	103° 21' 11.189 W	
19,700.0	90.00	179.44	11,873.0	-7,942.4	798.4	655,484.57	842,540.25	32° 47' 53.236 N	103° 21' 11.189 W	
19,800.0	90.00	179.44	11,873.0	-8,042.4	799.4	655,384.58	842,541.22	32° 47' 52.246 N	103° 21' 11.188 W	
19,900.0	90.00	179.44	11,873.0	-8,142.4	800.4	655,284.58	842,542.19	32° 47' 51.257 N	103° 21' 11.188 W	
20,000.0	90.00	179.44	11,873.0	-8,242.3	801.4	655,184.58	842,543.16	32° 47' 50.267 N	103° 21' 11.187 W	
20,100.0	90.00	179.44	11,873.0	-8,342.3	802.3	655,084.59	842,544.13	32° 47' 49.278 N	103° 21' 11.187 W	
20,200.0	90.00	179.44	11,873.0	-8,442.3	803.3	654,984.59	842,545.10	32° 47' 48.289 N	103° 21' 11.186 W	
20,300.0	90.00	179.44	11,873.0	-8,542.3	804.3	654,884.60	842,546.07	32° 47' 47.299 N	103° 21' 11.186 W	
20,400.0	90.00	179.44	11,873.0	-8,642.3	805.2	654,784.60	842,547.04	32° 47' 46.310 N	103° 21' 11.185 W	
20,500.0	90.00	179.44	11,873.0	-8,742.3	806.2	654,684.60	842,548.01	32° 47' 45.320 N	103° 21' 11.184 W	
20,600.0	90.00	179.44	11,873.0	-8,842.3	807.2	654,584.61	842,548.98	32° 47' 44.331 N	103° 21' 11.184 W	
20,700.0	90.00	179.44	11,873.0	-8,942.3	808.1	654,484.61	842,549.95	32° 47' 43.341 N	103° 21' 11.183 W	
20,800.0	90.00	179.44	11,873.0	-9,042.3	809.1	654,384.61	842,550.92	32° 47' 42.352 N	103° 21' 11.183 W	
20,900.0	90.00	179.44	11,873.0	-9,142.3	810.1	654,284.62	842,551.89	32° 47' 41.363 N	103° 21' 11.182 W	
21,000.0	90.00	179.44	11,873.0	-9,242.3	811.1	654,184.62	842,552.86	32° 47' 40.373 N	103° 21' 11.182 W	
21,100.0	90.00	179.44	11,873.0	-9,342.3	812.0	654,084.62	842,553.83	32° 47' 39.384 N	103° 21' 11.181 W	
21,200.0	90.00	179.44	11,873.0	-9,442.3	813.0	653,984.63	842,554.80	32° 47' 38.394 N	103° 21' 11.181 W	
21,300.0	90.00	179.44	11,873.0	-9,542.3	814.0	653,884.63	842,555.77	32° 47' 37.405 N	103° 21' 11.180 W	
21,400.0	90.00	179.44	11,873.0	-9,642.3	814.9	653,784.63	842,556.74	32° 47' 36.415 N	103° 21' 11.180 W	



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Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3858.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3858.0usft
Site:	Vindicator Canyon State	North Reference:	Grid
Well:	Vindicator Canyon State #303H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
21,500.0	90.00	179.44	11,873.0	-9,742.3	815.9	653,684.64	842,557.71	32° 47' 35.426 N	103° 21' 11.179 W	
21,600.0	90.00	179.44	11,873.0	-9,842.3	816.9	653,584.64	842,558.68	32° 47' 34.437 N	103° 21' 11.179 W	
21,700.0	90.00	179.44	11,873.0	-9,942.3	817.8	653,484.64	842,559.65	32° 47' 33.447 N	103° 21' 11.178 W	
21,800.0	90.00	179.44	11,873.0	-10,042.3	818.8	653,384.65	842,560.62	32° 47' 32.458 N	103° 21' 11.178 W	
21,900.0	90.00	179.44	11,873.0	-10,142.3	819.8	653,284.65	842,561.59	32° 47' 31.468 N	103° 21' 11.177 W	
22,000.0	90.00	179.44	11,873.0	-10,242.3	820.8	653,184.65	842,562.56	32° 47' 30.479 N	103° 21' 11.177 W	
22,100.0	90.00	179.44	11,873.0	-10,342.2	821.7	653,084.66	842,563.53	32° 47' 29.489 N	103° 21' 11.176 W	
22,156.3	90.00	179.44	11,873.0	-10,398.5	822.3	653,028.37	842,564.08	32° 47' 28.933 N	103° 21' 11.176 W	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Vindicator Canyon State	0.00	0.00	11,873.0	-10,398.5	822.3	653,028.37	842,564.08	32° 47' 28.933 N	103° 21' 11.176 W	
- plan hits target center										
- Point										

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 230777

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 230777
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	6/28/2023