

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

WELL API NO. 30-025-51018	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name VINDICATOR CANYON STATE UNIT	
8. Well Number	302H
9. OGRID Number	260297
10. Pool name or Wildcat WC-025 G-09 S173615C ; UPPER PENN	

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐ 2. Name of Operator BTA OIL PRODUCERS, LLC 3. Address of Operator 104 S. Pecos, Midland, TX 79701 4. Well Location Unit Letter <u>J</u> : <u>2500</u> feet from the <u>South</u> line and <u>1411</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> 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3858'	
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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 (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, 1980' FEL ; LAT: 32.820078, LONG: -103.357420, Section 21
 Original LTP Location: 100' FSL, 1980' FEL ; LAT: 32.798821, LONG: -103.357393, Section 28
 Original BHL Location: 50' FSL, 1980' FEL ; LAT: 32.798683, LONG: -103.357390, Section 28

New FTP Location: 2569' FSL, 1980' FEL ; LAT: 32.820157, LONG: -103.357420, Section 21
 New LTP Location: 2568' FNL, 1980' FEL ; LAT: 32.791489, LONG: -103.357399, Section 33
 New BHL Location: 2618' FNL, 1980' FEL ; LAT: 32.791351, LONG: -103.357399, 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  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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District IV
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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 30-025-51018		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 302H
⁷ OGRID No. 260297		⁸ Operator Name BTA OIL PRODUCERS, LLC			⁹ Elevation 3858'

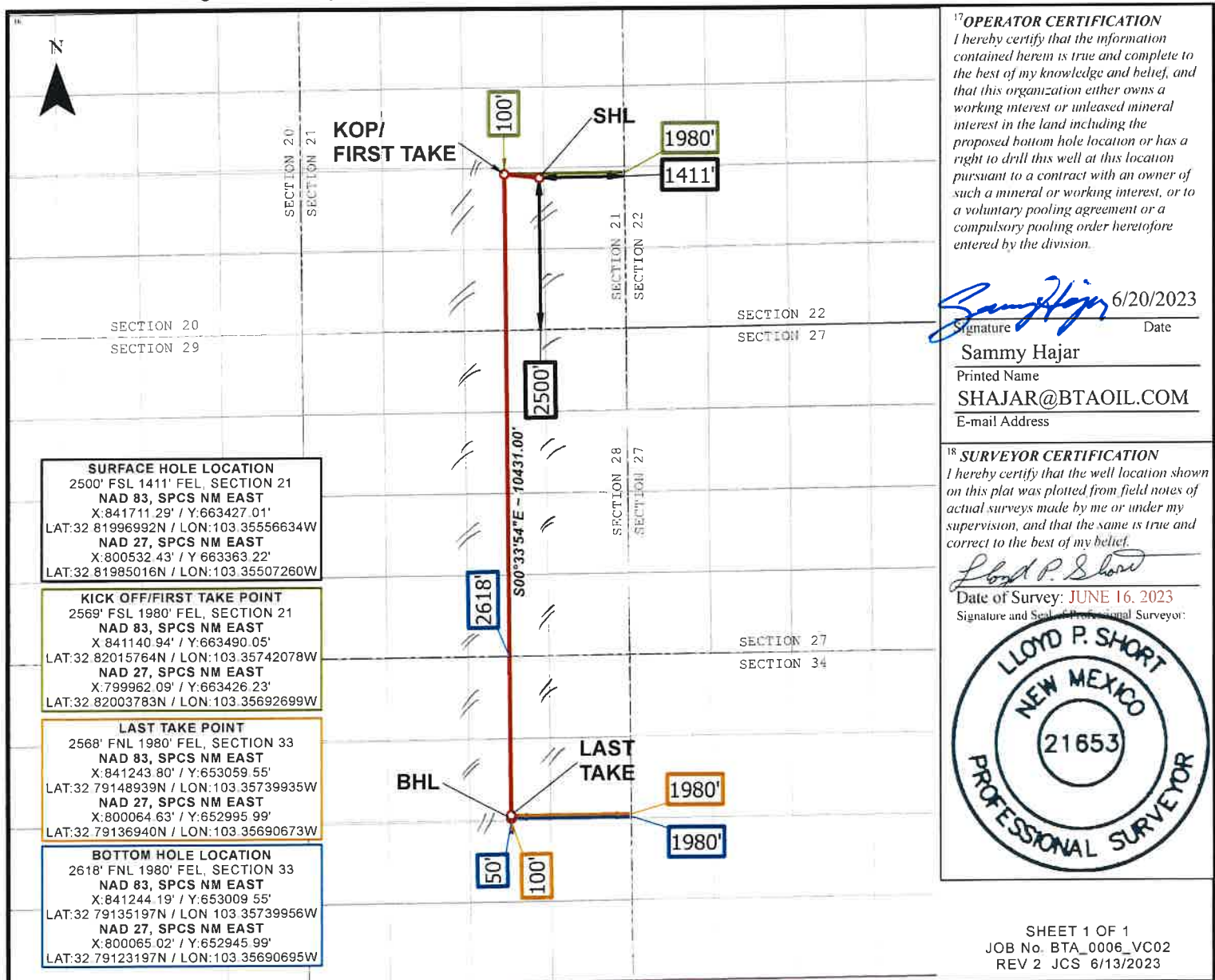
¹⁰ Surface Location

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	1411	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
G	33	17S	36E		2618	North	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 #302H
TVD: 11833
MD: 22124

DRILLING PLAN

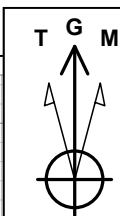
Casing Program

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	5207	0	5173	No	40	J-55	LTC	1.7	1.5	3.0	2.5	Dry	10
8 3/4	7 5/8	5147	11319	5113	11280	No	29.7	P110	FJ	1.8	1.7	2.8	2.9	Dry	9.4
6 3/4	5 1/2	0	11119	11280	11080	Yes	20	P110	BTC	1.6	1.8	2.9	3.0	Dry	12
6 3/4	5	11119	22124	11080	11833	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	4515	Class C	1505	2.18	12.7	3280.9	100%	0.5% CaCl2
	Tail		4515	5207	Class C	250	1.33	14.8	332.5	25%	1% CaCl2
7 5/8	Lead		5147	9450	25% Poz 75% Class C	180	2.99	11	538.2	15%	0.5% CaCl2
	Tail		9450	11319	Class H	200	1.19	15.6	238	15%	1% CaCl2
5 1/2	Lead										
	Tail		10320	11280							
5	Lead										
	Tail		11119	22124	Class H	1150	1.27	14.8	1460.5	10%	0.1% Fluid Loss

BTA Oil Producers, LLC



Azimuths to Grid N
True North: -
Magnetic North: 7
Magnetic Field
Strength: 49173.3nT
Dip Angle: 60.83°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: Vindicator Canyon State #302H					
+N/-S	+E/-W	Northing	Ground Level Easting	3858.0 Latitude	Longitude
0.0	0.0	663426.74	841711.80	32° 49' 11.889 N	103° 21' 20.033 W

SITE DETAILS: Vindicator Canyon State

Site Centre Northing: 663864.19
Easting: 844436.41

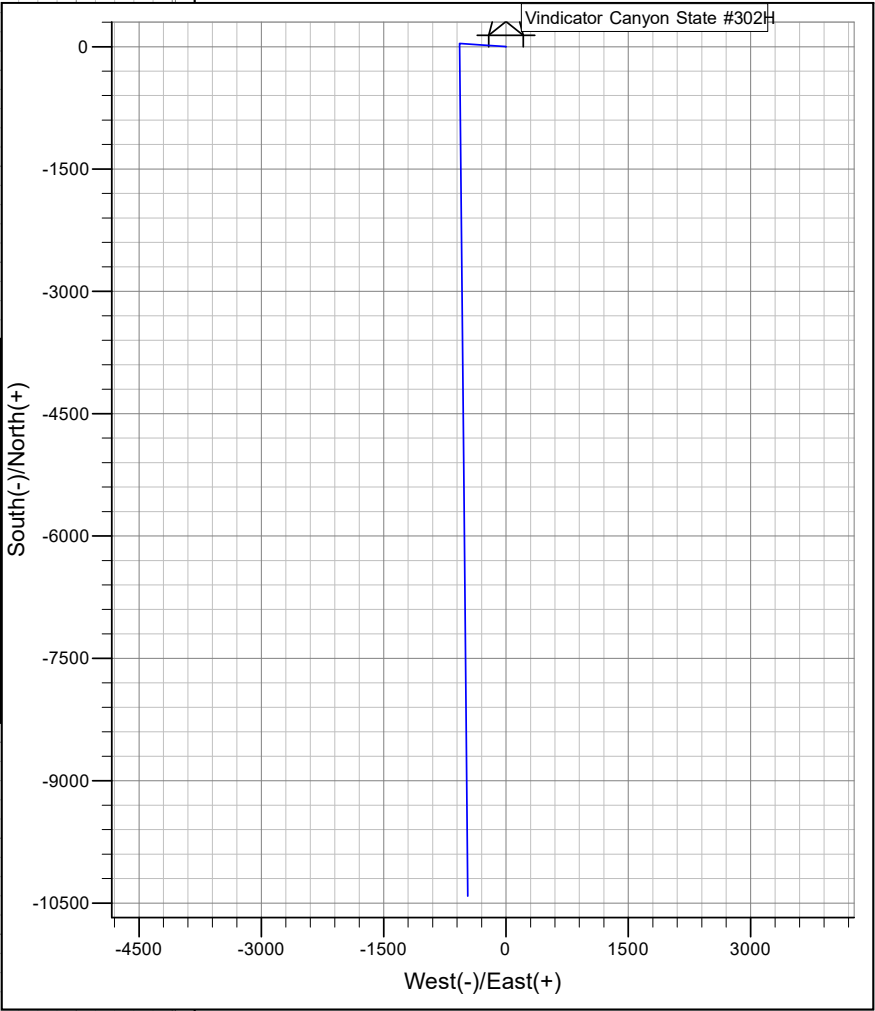
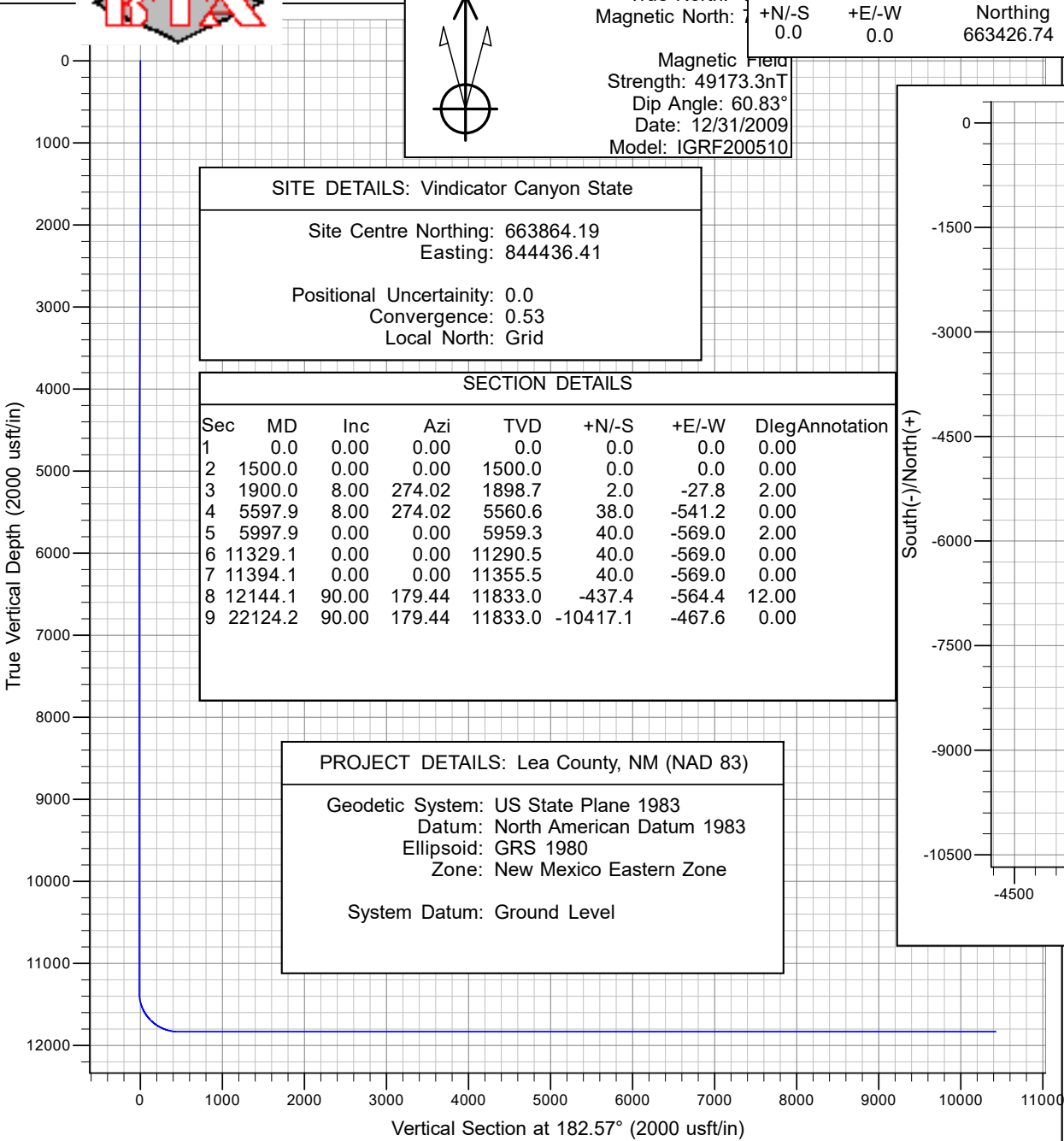
Positional Uncertainty: 0.0
Convergence: 0.53
Local North: Grid

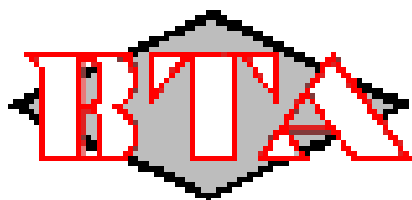
SECTION DETAILS							
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DlegAnnotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00
3	1900.0	8.00	274.02	1898.7	2.0	-27.8	2.00
4	5597.9	8.00	274.02	5560.6	38.0	-541.2	0.00
5	5997.9	0.00	0.00	5959.3	40.0	-569.0	2.00
6	11329.1	0.00	0.00	11290.5	40.0	-569.0	0.00
7	11394.1	0.00	0.00	11355.5	40.0	-569.0	0.00
8	12144.1	90.00	179.44	11833.0	-437.4	-564.4	12.00
9	22124.2	90.00	179.44	11833.0	-10417.1	-467.6	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

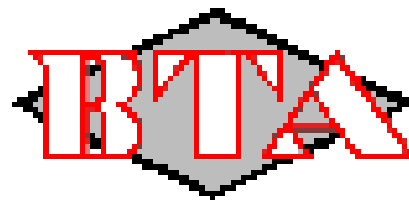
Vindicator Canyon State #302H

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 #302H
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 #302H	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
From:	Map	Easting:	844,436.41 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 49' 15.966 N
		Longitude:	103° 20' 48.060 W

Well	Vindicator Canyon State #302H		
Well Position	+N/-S	0.0 usft	Northing: 663,426.74 usft
	+E/-W	0.0 usft	Easting: 841,711.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
Grid Convergence:	0.53 °	Ground Level:	3,858.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.69	60.83	49,173.33354375

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	182.57

Plan Survey Tool Program	Date	6/12/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,124.2 Design #1 (Wellbore #1)		



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #302H
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 #302H	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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	8.00	274.02	1,898.7	2.0	-27.8	2.00	2.00	0.00	274.02	
5,597.9	8.00	274.02	5,560.6	38.0	-541.2	0.00	0.00	0.00	0.00	
5,997.9	0.00	0.00	5,959.3	40.0	-569.0	2.00	-2.00	0.00	180.00	
11,329.1	0.00	0.00	11,290.5	40.0	-569.0	0.00	0.00	0.00	0.00	
11,394.1	0.00	0.00	11,355.5	40.0	-569.0	0.00	0.00	0.00	0.00	
12,144.1	90.00	179.44	11,833.0	-437.4	-564.4	12.00	12.00	0.00	179.44	
22,124.2	90.00	179.44	11,833.0	-10,417.1	-467.6	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 #302H
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 #302H	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	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
100.0	0.00	0.00	100.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
200.0	0.00	0.00	200.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
300.0	0.00	0.00	300.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
400.0	0.00	0.00	400.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
500.0	0.00	0.00	500.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
600.0	0.00	0.00	600.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
700.0	0.00	0.00	700.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
800.0	0.00	0.00	800.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
900.0	0.00	0.00	900.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	663,426.74	841,711.80	32° 49' 11.889 N	103° 21' 20.033 W
1,600.0	2.00	274.02	1,600.0	0.1	-1.7	663,426.87	841,710.06	32° 49' 11.890 N	103° 21' 20.053 W
1,700.0	4.00	274.02	1,699.8	0.5	-7.0	663,427.23	841,704.84	32° 49' 11.894 N	103° 21' 20.114 W
1,800.0	6.00	274.02	1,799.5	1.1	-15.7	663,427.85	841,696.14	32° 49' 11.901 N	103° 21' 20.216 W
1,900.0	8.00	274.02	1,898.7	2.0	-27.8	663,428.70	841,683.99	32° 49' 11.911 N	103° 21' 20.359 W
2,000.0	8.00	274.02	1,997.7	2.9	-41.7	663,429.68	841,670.10	32° 49' 11.922 N	103° 21' 20.521 W
2,100.0	8.00	274.02	2,096.8	3.9	-55.6	663,430.65	841,656.22	32° 49' 11.933 N	103° 21' 20.684 W
2,200.0	8.00	274.02	2,195.8	4.9	-69.5	663,431.63	841,642.34	32° 49' 11.944 N	103° 21' 20.846 W
2,300.0	8.00	274.02	2,294.8	5.9	-83.3	663,432.60	841,628.45	32° 49' 11.955 N	103° 21' 21.009 W
2,400.0	8.00	274.02	2,393.8	6.8	-97.2	663,433.58	841,614.57	32° 49' 11.965 N	103° 21' 21.171 W
2,500.0	8.00	274.02	2,492.9	7.8	-111.1	663,434.56	841,600.69	32° 49' 11.976 N	103° 21' 21.334 W
2,600.0	8.00	274.02	2,591.9	8.8	-125.0	663,435.53	841,586.80	32° 49' 11.987 N	103° 21' 21.496 W
2,700.0	8.00	274.02	2,690.9	9.8	-138.9	663,436.51	841,572.92	32° 49' 11.998 N	103° 21' 21.659 W
2,800.0	8.00	274.02	2,789.9	10.7	-152.8	663,437.48	841,559.04	32° 49' 12.009 N	103° 21' 21.822 W
2,900.0	8.00	274.02	2,889.0	11.7	-166.6	663,438.46	841,545.15	32° 49' 12.020 N	103° 21' 21.984 W
3,000.0	8.00	274.02	2,988.0	12.7	-180.5	663,439.44	841,531.27	32° 49' 12.031 N	103° 21' 22.147 W
3,100.0	8.00	274.02	3,087.0	13.7	-194.4	663,440.41	841,517.39	32° 49' 12.042 N	103° 21' 22.309 W
3,200.0	8.00	274.02	3,186.1	14.6	-208.3	663,441.39	841,503.51	32° 49' 12.053 N	103° 21' 22.472 W
3,300.0	8.00	274.02	3,285.1	15.6	-222.2	663,442.36	841,489.62	32° 49' 12.064 N	103° 21' 22.634 W
3,400.0	8.00	274.02	3,384.1	16.6	-236.1	663,443.34	841,475.74	32° 49' 12.075 N	103° 21' 22.797 W
3,500.0	8.00	274.02	3,483.1	17.6	-249.9	663,444.32	841,461.86	32° 49' 12.086 N	103° 21' 22.960 W
3,600.0	8.00	274.02	3,582.2	18.5	-263.8	663,445.29	841,447.97	32° 49' 12.097 N	103° 21' 23.122 W
3,700.0	8.00	274.02	3,681.2	19.5	-277.7	663,446.27	841,434.09	32° 49' 12.108 N	103° 21' 23.285 W
3,800.0	8.00	274.02	3,780.2	20.5	-291.6	663,447.24	841,420.21	32° 49' 12.118 N	103° 21' 23.447 W
3,900.0	8.00	274.02	3,879.2	21.5	-305.5	663,448.22	841,406.32	32° 49' 12.129 N	103° 21' 23.610 W
4,000.0	8.00	274.02	3,978.3	22.5	-319.4	663,449.20	841,392.44	32° 49' 12.140 N	103° 21' 23.772 W
4,100.0	8.00	274.02	4,077.3	23.4	-333.2	663,450.17	841,378.56	32° 49' 12.151 N	103° 21' 23.935 W
4,200.0	8.00	274.02	4,176.3	24.4	-347.1	663,451.15	841,364.67	32° 49' 12.162 N	103° 21' 24.098 W
4,300.0	8.00	274.02	4,275.3	25.4	-361.0	663,452.12	841,350.79	32° 49' 12.173 N	103° 21' 24.260 W
4,400.0	8.00	274.02	4,374.4	26.4	-374.9	663,453.10	841,336.91	32° 49' 12.184 N	103° 21' 24.423 W
4,500.0	8.00	274.02	4,473.4	27.3	-388.8	663,454.08	841,323.02	32° 49' 12.195 N	103° 21' 24.585 W
4,600.0	8.00	274.02	4,572.4	28.3	-402.7	663,455.05	841,309.14	32° 49' 12.206 N	103° 21' 24.748 W
4,700.0	8.00	274.02	4,671.5	29.3	-416.5	663,456.03	841,295.26	32° 49' 12.217 N	103° 21' 24.910 W
4,800.0	8.00	274.02	4,770.5	30.3	-430.4	663,457.00	841,281.37	32° 49' 12.228 N	103° 21' 25.073 W
4,900.0	8.00	274.02	4,869.5	31.2	-444.3	663,457.98	841,267.49	32° 49' 12.239 N	103° 21' 25.236 W
5,000.0	8.00	274.02	4,968.5	32.2	-458.2	663,458.96	841,253.61	32° 49' 12.250 N	103° 21' 25.398 W
5,100.0	8.00	274.02	5,067.6	33.2	-472.1	663,459.93	841,239.72	32° 49' 12.260 N	103° 21' 25.561 W
5,200.0	8.00	274.02	5,166.6	34.2	-486.0	663,460.91	841,225.84	32° 49' 12.271 N	103° 21' 25.723 W
5,300.0	8.00	274.02	5,265.6	35.1	-499.8	663,461.88	841,211.96	32° 49' 12.282 N	103° 21' 25.886 W
5,400.0	8.00	274.02	5,364.6	36.1	-513.7	663,462.86	841,198.07	32° 49' 12.293 N	103° 21' 26.048 W



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #302H
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 #302H	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	274.02	5,463.7	37.1	-527.6	663,463.83	841,184.19	32° 49' 12.304 N	103° 21' 26.211 W	
5,597.9	8.00	274.02	5,560.6	38.0	-541.2	663,464.79	841,170.60	32° 49' 12.315 N	103° 21' 26.370 W	
5,600.0	7.96	274.02	5,562.7	38.1	-541.5	663,464.81	841,170.31	32° 49' 12.315 N	103° 21' 26.373 W	
5,700.0	5.96	274.02	5,662.0	38.9	-553.6	663,465.66	841,158.23	32° 49' 12.325 N	103° 21' 26.515 W	
5,800.0	3.96	274.02	5,761.6	39.5	-562.2	663,466.27	841,149.61	32° 49' 12.331 N	103° 21' 26.616 W	
5,900.0	1.96	274.02	5,861.4	39.9	-567.3	663,466.63	841,144.46	32° 49' 12.335 N	103° 21' 26.676 W	
5,997.9	0.00	0.00	5,959.3	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,000.0	0.00	0.00	5,961.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,100.0	0.00	0.00	6,061.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,200.0	0.00	0.00	6,161.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,300.0	0.00	0.00	6,261.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,400.0	0.00	0.00	6,361.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,500.0	0.00	0.00	6,461.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,600.0	0.00	0.00	6,561.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,700.0	0.00	0.00	6,661.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,800.0	0.00	0.00	6,761.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
6,900.0	0.00	0.00	6,861.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,000.0	0.00	0.00	6,961.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,100.0	0.00	0.00	7,061.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,200.0	0.00	0.00	7,161.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,300.0	0.00	0.00	7,261.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,400.0	0.00	0.00	7,361.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,500.0	0.00	0.00	7,461.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,600.0	0.00	0.00	7,561.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,700.0	0.00	0.00	7,661.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,800.0	0.00	0.00	7,761.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
7,900.0	0.00	0.00	7,861.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,000.0	0.00	0.00	7,961.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,100.0	0.00	0.00	8,061.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,200.0	0.00	0.00	8,161.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,300.0	0.00	0.00	8,261.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,400.0	0.00	0.00	8,361.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,500.0	0.00	0.00	8,461.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,600.0	0.00	0.00	8,561.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,700.0	0.00	0.00	8,661.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,800.0	0.00	0.00	8,761.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
8,900.0	0.00	0.00	8,861.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,000.0	0.00	0.00	8,961.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,100.0	0.00	0.00	9,061.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,200.0	0.00	0.00	9,161.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,300.0	0.00	0.00	9,261.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,400.0	0.00	0.00	9,361.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,500.0	0.00	0.00	9,461.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,600.0	0.00	0.00	9,561.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,700.0	0.00	0.00	9,661.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,800.0	0.00	0.00	9,761.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
9,900.0	0.00	0.00	9,861.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,000.0	0.00	0.00	9,961.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,100.0	0.00	0.00	10,061.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,200.0	0.00	0.00	10,161.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,300.0	0.00	0.00	10,261.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,400.0	0.00	0.00	10,361.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,500.0	0.00	0.00	10,461.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,600.0	0.00	0.00	10,561.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,700.0	0.00	0.00	10,661.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #302H
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 #302H	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	10,761.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
10,900.0	0.00	0.00	10,861.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
11,000.0	0.00	0.00	10,961.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
11,100.0	0.00	0.00	11,061.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
11,200.0	0.00	0.00	11,161.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
11,300.0	0.00	0.00	11,261.4	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
11,329.1	0.00	0.00	11,290.5	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
11,394.1	0.00	0.00	11,355.5	40.0	-569.0	663,466.75	841,142.79	32° 49' 12.337 N	103° 21' 26.696 W	
11,400.0	0.71	179.44	11,361.4	40.0	-569.0	663,466.71	841,142.79	32° 49' 12.336 N	103° 21' 26.696 W	
11,500.0	12.71	179.44	11,460.5	28.3	-568.9	663,455.05	841,142.91	32° 49' 12.221 N	103° 21' 26.696 W	
11,600.0	24.71	179.44	11,555.1	-3.7	-568.6	663,423.04	841,143.22	32° 49' 11.904 N	103° 21' 26.695 W	
11,700.0	36.71	179.44	11,640.9	-54.7	-568.1	663,372.08	841,143.71	32° 49' 11.400 N	103° 21' 26.695 W	
11,800.0	48.71	179.44	11,714.3	-122.4	-567.4	663,304.38	841,144.37	32° 49' 10.730 N	103° 21' 26.695 W	
11,900.0	60.71	179.44	11,771.9	-203.8	-566.6	663,222.91	841,145.16	32° 49' 9.924 N	103° 21' 26.694 W	
12,000.0	72.71	179.44	11,811.4	-295.5	-565.7	663,131.23	841,146.04	32° 49' 9.017 N	103° 21' 26.694 W	
12,100.0	84.71	179.44	11,831.0	-393.4	-564.8	663,033.35	841,146.99	32° 49' 8.049 N	103° 21' 26.693 W	
12,144.1	90.00	179.44	11,833.0	-437.4	-564.4	662,989.30	841,147.42	32° 49' 7.613 N	103° 21' 26.693 W	
12,200.0	90.00	179.44	11,833.0	-493.3	-563.8	662,933.42	841,147.96	32° 49' 7.060 N	103° 21' 26.693 W	
12,300.0	90.00	179.44	11,833.0	-593.3	-562.9	662,833.42	841,148.93	32° 49' 6.070 N	103° 21' 26.692 W	
12,400.0	90.00	179.44	11,833.0	-693.3	-561.9	662,733.43	841,149.90	32° 49' 5.081 N	103° 21' 26.692 W	
12,500.0	90.00	179.44	11,833.0	-793.3	-560.9	662,633.43	841,150.87	32° 49' 4.091 N	103° 21' 26.691 W	
12,600.0	90.00	179.44	11,833.0	-893.3	-560.0	662,533.43	841,151.84	32° 49' 3.102 N	103° 21' 26.691 W	
12,700.0	90.00	179.44	11,833.0	-993.3	-559.0	662,433.44	841,152.81	32° 49' 2.113 N	103° 21' 26.690 W	
12,800.0	90.00	179.44	11,833.0	-1,093.3	-558.0	662,333.44	841,153.78	32° 49' 1.123 N	103° 21' 26.690 W	
12,900.0	90.00	179.44	11,833.0	-1,193.3	-557.0	662,233.44	841,154.75	32° 49' 0.134 N	103° 21' 26.689 W	
13,000.0	90.00	179.44	11,833.0	-1,293.3	-556.1	662,133.45	841,155.72	32° 48' 59.144 N	103° 21' 26.688 W	
13,100.0	90.00	179.44	11,833.0	-1,393.3	-555.1	662,033.45	841,156.69	32° 48' 58.155 N	103° 21' 26.688 W	
13,200.0	90.00	179.44	11,833.0	-1,493.3	-554.1	661,933.45	841,157.66	32° 48' 57.165 N	103° 21' 26.687 W	
13,300.0	90.00	179.44	11,833.0	-1,593.3	-553.2	661,833.46	841,158.63	32° 48' 56.176 N	103° 21' 26.687 W	
13,400.0	90.00	179.44	11,833.0	-1,693.3	-552.2	661,733.46	841,159.60	32° 48' 55.187 N	103° 21' 26.686 W	
13,500.0	90.00	179.44	11,833.0	-1,793.3	-551.2	661,633.46	841,160.57	32° 48' 54.197 N	103° 21' 26.686 W	
13,600.0	90.00	179.44	11,833.0	-1,893.3	-550.3	661,533.47	841,161.54	32° 48' 53.208 N	103° 21' 26.685 W	
13,700.0	90.00	179.44	11,833.0	-1,993.2	-549.3	661,433.47	841,162.51	32° 48' 52.218 N	103° 21' 26.685 W	
13,800.0	90.00	179.44	11,833.0	-2,093.2	-548.3	661,333.47	841,163.48	32° 48' 51.229 N	103° 21' 26.684 W	
13,900.0	90.00	179.44	11,833.0	-2,193.2	-547.3	661,233.48	841,164.45	32° 48' 50.239 N	103° 21' 26.684 W	
14,000.0	90.00	179.44	11,833.0	-2,293.2	-546.4	661,133.48	841,165.42	32° 48' 49.250 N	103° 21' 26.683 W	
14,100.0	90.00	179.44	11,833.0	-2,393.2	-545.4	661,033.48	841,166.39	32° 48' 48.261 N	103° 21' 26.682 W	
14,200.0	90.00	179.44	11,833.0	-2,493.2	-544.4	660,933.49	841,167.36	32° 48' 47.271 N	103° 21' 26.682 W	
14,300.0	90.00	179.44	11,833.0	-2,593.2	-543.5	660,833.49	841,168.32	32° 48' 46.282 N	103° 21' 26.681 W	
14,400.0	90.00	179.44	11,833.0	-2,693.2	-542.5	660,733.49	841,169.29	32° 48' 45.292 N	103° 21' 26.681 W	
14,500.0	90.00	179.44	11,833.0	-2,793.2	-541.5	660,633.50	841,170.26	32° 48' 44.303 N	103° 21' 26.680 W	
14,600.0	90.00	179.44	11,833.0	-2,893.2	-540.6	660,533.50	841,171.23	32° 48' 43.314 N	103° 21' 26.680 W	
14,700.0	90.00	179.44	11,833.0	-2,993.2	-539.6	660,433.50	841,172.20	32° 48' 42.324 N	103° 21' 26.679 W	
14,800.0	90.00	179.44	11,833.0	-3,093.2	-538.6	660,333.51	841,173.17	32° 48' 41.335 N	103° 21' 26.679 W	
14,900.0	90.00	179.44	11,833.0	-3,193.2	-537.6	660,233.51	841,174.14	32° 48' 40.345 N	103° 21' 26.678 W	
15,000.0	90.00	179.44	11,833.0	-3,293.2	-536.7	660,133.52	841,175.11	32° 48' 39.356 N	103° 21' 26.678 W	
15,100.0	90.00	179.44	11,833.0	-3,393.2	-535.7	660,033.52	841,176.08	32° 48' 38.366 N	103° 21' 26.677 W	
15,200.0	90.00	179.44	11,833.0	-3,493.2	-534.7	659,933.52	841,177.05	32° 48' 37.377 N	103° 21' 26.676 W	
15,300.0	90.00	179.44	11,833.0	-3,593.2	-533.8	659,833.53	841,178.02	32° 48' 36.388 N	103° 21' 26.676 W	
15,400.0	90.00	179.44	11,833.0	-3,693.2	-532.8	659,733.53	841,178.99	32° 48' 35.398 N	103° 21' 26.675 W	
15,500.0	90.00	179.44	11,833.0	-3,793.2	-531.8	659,633.53	841,179.96	32° 48' 34.409 N	103° 21' 26.675 W	
15,600.0	90.00	179.44	11,833.0	-3,893.2	-530.9	659,533.54	841,180.93	32° 48' 33.419 N	103° 21' 26.674 W	
15,700.0	90.00	179.44	11,833.0	-3,993.2	-529.9	659,433.54	841,181.90	32° 48' 32.430 N	103° 21' 26.674 W	
15,800.0	90.00	179.44	11,833.0	-4,093.2	-528.9	659,333.54	841,182.87	32° 48' 31.440 N	103° 21' 26.673 W	
15,900.0	90.00	179.44	11,833.0	-4,193.1	-528.0	659,233.55	841,183.84	32° 48' 30.451 N	103° 21' 26.673 W	



Microsoft
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Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #302H
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 #302H	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	11,833.0	-4,293.1	-527.0	659,133.55	841,184.81	32° 48' 29.462 N	103° 21' 26.672 W	
16,100.0	90.00	179.44	11,833.0	-4,393.1	-526.0	659,033.55	841,185.78	32° 48' 28.472 N	103° 21' 26.672 W	
16,200.0	90.00	179.44	11,833.0	-4,493.1	-525.0	658,933.56	841,186.75	32° 48' 27.483 N	103° 21' 26.671 W	
16,300.0	90.00	179.44	11,833.0	-4,593.1	-524.1	658,833.56	841,187.72	32° 48' 26.493 N	103° 21' 26.670 W	
16,400.0	90.00	179.44	11,833.0	-4,693.1	-523.1	658,733.56	841,188.69	32° 48' 25.504 N	103° 21' 26.670 W	
16,500.0	90.00	179.44	11,833.0	-4,793.1	-522.1	658,633.57	841,189.66	32° 48' 24.514 N	103° 21' 26.669 W	
16,600.0	90.00	179.44	11,833.0	-4,893.1	-521.2	658,533.57	841,190.63	32° 48' 23.525 N	103° 21' 26.669 W	
16,700.0	90.00	179.44	11,833.0	-4,993.1	-520.2	658,433.57	841,191.60	32° 48' 22.536 N	103° 21' 26.668 W	
16,800.0	90.00	179.44	11,833.0	-5,093.1	-519.2	658,333.58	841,192.56	32° 48' 21.546 N	103° 21' 26.668 W	
16,900.0	90.00	179.44	11,833.0	-5,193.1	-518.3	658,233.58	841,193.53	32° 48' 20.557 N	103° 21' 26.667 W	
17,000.0	90.00	179.44	11,833.0	-5,293.1	-517.3	658,133.58	841,194.50	32° 48' 19.567 N	103° 21' 26.667 W	
17,100.0	90.00	179.44	11,833.0	-5,393.1	-516.3	658,033.59	841,195.47	32° 48' 18.578 N	103° 21' 26.666 W	
17,200.0	90.00	179.44	11,833.0	-5,493.1	-515.3	657,933.59	841,196.44	32° 48' 17.588 N	103° 21' 26.666 W	
17,300.0	90.00	179.44	11,833.0	-5,593.1	-514.4	657,833.59	841,197.41	32° 48' 16.599 N	103° 21' 26.665 W	
17,400.0	90.00	179.44	11,833.0	-5,693.1	-513.4	657,733.60	841,198.38	32° 48' 15.610 N	103° 21' 26.664 W	
17,500.0	90.00	179.44	11,833.0	-5,793.1	-512.4	657,633.60	841,199.35	32° 48' 14.620 N	103° 21' 26.664 W	
17,600.0	90.00	179.44	11,833.0	-5,893.1	-511.5	657,533.61	841,200.32	32° 48' 13.631 N	103° 21' 26.663 W	
17,700.0	90.00	179.44	11,833.0	-5,993.1	-510.5	657,433.61	841,201.29	32° 48' 12.641 N	103° 21' 26.663 W	
17,800.0	90.00	179.44	11,833.0	-6,093.1	-509.5	657,333.61	841,202.26	32° 48' 11.652 N	103° 21' 26.662 W	
17,900.0	90.00	179.44	11,833.0	-6,193.1	-508.6	657,233.62	841,203.23	32° 48' 10.663 N	103° 21' 26.662 W	
18,000.0	90.00	179.44	11,833.0	-6,293.0	-507.6	657,133.62	841,204.20	32° 48' 9.673 N	103° 21' 26.661 W	
18,100.0	90.00	179.44	11,833.0	-6,393.0	-506.6	657,033.62	841,205.17	32° 48' 8.684 N	103° 21' 26.661 W	
18,200.0	90.00	179.44	11,833.0	-6,493.0	-505.7	656,933.63	841,206.14	32° 48' 7.694 N	103° 21' 26.660 W	
18,300.0	90.00	179.44	11,833.0	-6,593.0	-504.7	656,833.63	841,207.11	32° 48' 6.705 N	103° 21' 26.659 W	
18,400.0	90.00	179.44	11,833.0	-6,693.0	-503.7	656,733.63	841,208.08	32° 48' 5.715 N	103° 21' 26.659 W	
18,500.0	90.00	179.44	11,833.0	-6,793.0	-502.7	656,633.64	841,209.05	32° 48' 4.726 N	103° 21' 26.658 W	
18,600.0	90.00	179.44	11,833.0	-6,893.0	-501.8	656,533.64	841,210.02	32° 48' 3.737 N	103° 21' 26.658 W	
18,700.0	90.00	179.44	11,833.0	-6,993.0	-500.8	656,433.64	841,210.99	32° 48' 2.747 N	103° 21' 26.657 W	
18,800.0	90.00	179.44	11,833.0	-7,093.0	-499.8	656,333.65	841,211.96	32° 48' 1.758 N	103° 21' 26.657 W	
18,900.0	90.00	179.44	11,833.0	-7,193.0	-498.9	656,233.65	841,212.93	32° 48' 0.768 N	103° 21' 26.656 W	
19,000.0	90.00	179.44	11,833.0	-7,293.0	-497.9	656,133.65	841,213.90	32° 47' 59.779 N	103° 21' 26.656 W	
19,100.0	90.00	179.44	11,833.0	-7,393.0	-496.9	656,033.66	841,214.87	32° 47' 58.789 N	103° 21' 26.655 W	
19,200.0	90.00	179.44	11,833.0	-7,493.0	-496.0	655,933.66	841,215.84	32° 47' 57.800 N	103° 21' 26.655 W	
19,300.0	90.00	179.44	11,833.0	-7,593.0	-495.0	655,833.66	841,216.81	32° 47' 56.811 N	103° 21' 26.654 W	
19,400.0	90.00	179.44	11,833.0	-7,693.0	-494.0	655,733.67	841,217.77	32° 47' 55.821 N	103° 21' 26.653 W	
19,500.0	90.00	179.44	11,833.0	-7,793.0	-493.0	655,633.67	841,218.74	32° 47' 54.832 N	103° 21' 26.653 W	
19,600.0	90.00	179.44	11,833.0	-7,893.0	-492.1	655,533.67	841,219.71	32° 47' 53.842 N	103° 21' 26.652 W	
19,700.0	90.00	179.44	11,833.0	-7,993.0	-491.1	655,433.68	841,220.68	32° 47' 52.853 N	103° 21' 26.652 W	
19,800.0	90.00	179.44	11,833.0	-8,093.0	-490.1	655,333.68	841,221.65	32° 47' 51.863 N	103° 21' 26.651 W	
19,900.0	90.00	179.44	11,833.0	-8,193.0	-489.2	655,233.68	841,222.62	32° 47' 50.874 N	103° 21' 26.651 W	
20,000.0	90.00	179.44	11,833.0	-8,293.0	-488.2	655,133.69	841,223.59	32° 47' 49.885 N	103° 21' 26.650 W	
20,100.0	90.00	179.44	11,833.0	-8,392.9	-487.2	655,033.69	841,224.56	32° 47' 48.895 N	103° 21' 26.650 W	
20,200.0	90.00	179.44	11,833.0	-8,492.9	-486.3	654,933.69	841,225.53	32° 47' 47.906 N	103° 21' 26.649 W	
20,300.0	90.00	179.44	11,833.0	-8,592.9	-485.3	654,833.70	841,226.50	32° 47' 46.916 N	103° 21' 26.648 W	
20,400.0	90.00	179.44	11,833.0	-8,692.9	-484.3	654,733.70	841,227.47	32° 47' 45.927 N	103° 21' 26.648 W	
20,500.0	90.00	179.44	11,833.0	-8,792.9	-483.4	654,633.71	841,228.44	32° 47' 44.937 N	103° 21' 26.647 W	
20,600.0	90.00	179.44	11,833.0	-8,892.9	-482.4	654,533.71	841,229.41	32° 47' 43.948 N	103° 21' 26.647 W	
20,700.0	90.00	179.44	11,833.0	-8,992.9	-481.4	654,433.71	841,230.38	32° 47' 42.959 N	103° 21' 26.646 W	
20,800.0	90.00	179.44	11,833.0	-9,092.9	-480.4	654,333.72	841,231.35	32° 47' 41.969 N	103° 21' 26.646 W	
20,900.0	90.00	179.44	11,833.0	-9,192.9	-479.5	654,233.72	841,232.32	32° 47' 40.980 N	103° 21' 26.645 W	
21,000.0	90.00	179.44	11,833.0	-9,292.9	-478.5	654,133.72	841,233.29	32° 47' 39.990 N	103° 21' 26.645 W	
21,100.0	90.00	179.44	11,833.0	-9,392.9	-477.5	654,033.73	841,234.26	32° 47' 39.001 N	103° 21' 26.644 W	
21,200.0	90.00	179.44	11,833.0	-9,492.9	-476.6	653,933.73	841,235.23	32° 47' 38.011 N	103° 21' 26.644 W	
21,300.0	90.00	179.44	11,833.0	-9,592.9	-475.6	653,833.73	841,236.20	32° 47' 37.022 N	103° 21' 26.643 W	
21,400.0	90.00	179.44	11,833.0	-9,692.9	-474.6	653,733.74	841,237.17	32° 47' 36.033 N	103° 21' 26.642 W	



Microsoft
Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vindicator Canyon State #302H
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 #302H	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	11,833.0	-9,792.9	-473.7	653,633.74	841,238.14	32° 47' 35.043 N	103° 21' 26.642 W	
21,600.0	90.00	179.44	11,833.0	-9,892.9	-472.7	653,533.74	841,239.11	32° 47' 34.054 N	103° 21' 26.641 W	
21,700.0	90.00	179.44	11,833.0	-9,992.9	-471.7	653,433.75	841,240.08	32° 47' 33.064 N	103° 21' 26.641 W	
21,800.0	90.00	179.44	11,833.0	-10,092.9	-470.7	653,333.75	841,241.05	32° 47' 32.075 N	103° 21' 26.640 W	
21,900.0	90.00	179.44	11,833.0	-10,192.9	-469.8	653,233.75	841,242.01	32° 47' 31.085 N	103° 21' 26.640 W	
22,000.0	90.00	179.44	11,833.0	-10,292.9	-468.8	653,133.76	841,242.98	32° 47' 30.096 N	103° 21' 26.639 W	
22,100.0	90.00	179.44	11,833.0	-10,392.9	-467.8	653,033.76	841,243.95	32° 47' 29.107 N	103° 21' 26.639 W	
22,124.2	90.00	179.44	11,833.0	-10,417.1	-467.6	653,009.55	841,244.19	32° 47' 28.867 N	103° 21' 26.638 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	11,833.0	-10,417.1	-467.6	653,009.55	841,244.19	32° 47' 28.867 N	103° 21' 26.638 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 230775

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 230775
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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