

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.)		WELL API NO. 30-025-51019
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator BTA OIL PRODUCERS, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 104 S. Pecos, Midland, TX 79701		7. Lease Name or Unit Agreement Name VINDICATOR CANYON STATE UNIT
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>		8. Well Number 303H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3857'		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 ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
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 (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 FTP Location: 2557' FSL, 660' FEL ; Section 21
 Old LTP Location: 2563' FNL, 660' FEL ; Section 33
 Old BHL Location: 2613' FNL, 660' FEL ; Section 33

New KOP Location: 2610' FSL, 990' FEL ; Section 21
 New FTP Location: 2560' FSL, 990' FEL ; Section 21
 New LTP Location: 2564' FNL, 990' FEL ; Section 33
 New BHL Location: 2614' FNL, 990' FEL ; Section 33

Spud Date:

12/10/2023

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

11/30/2023

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

District II
811 S. First St., Artesia, NM 88210
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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 ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-51019		² Pool Code 98333		³ Pool Name WC025 G09 S173615C; UPPER PENN	
⁴ Property Code 333408		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. J	Section 21	Township 17S	Range 36E	Lot Idn	Feet from the 2500
				North/South line SOUTH	Feet from the 1381
				East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. H	Section 33	Township 17S	Range 36E	Lot Idn	Feet from the 2614
				North/South line NORTH	Feet from the 990
				East/West line EAST	County 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.

SURFACE HOLE LOCATION 2500' FSL 1381' FEL, SECTION 21 NAD 83, SPCS NM EAST X:841741.29' / Y:663427.01' LAT:32.81996915 / LON:-103.35546869 0' MEASURED DEPTH IN FEET NAD 27, SPCS NM EAST X:800562.43' / Y:663363.22' LAT:32.8194940 / LON:-103.35497496 KICK OFF POINT 2610' FSL 990' FEL, SECTION 21 NAD 83, SPCS NM EAST X:842130.37' / Y:663540.83' LAT:32.82027206 / LON:-103.35419889 NAD 27, SPCS NM EAST X:800951.52' / Y:663477.05' LAT:32.82015233 / LON:-103.35370519 FIRST TAKE POINT 2560' FSL 990' FEL, SECTION 21 NAD 83, SPCS NM EAST X:842130.87' / Y:663490.83' LAT:32.82013464 / LON:-103.35419880 NAD 27, SPCS NM EAST X:800952.01' / Y:663427.05' LAT:32.82001491 / LON:-103.35370508 LAST TAKE POINT 2564' FNL 990' FEL, SECTION 33 NAD 83, SPCS NM EAST X:842233.72' / Y:653073.67' LAT:32.79150305 / LON:-103.35417801 NAD 27, SPCS NM EAST X:801054.55' / Y:653010.14' LAT:32.79138314 / LON:-103.35368546 BOTTOM HOLE LOCATION 2614' FNL 990' FEL, SECTION 33 NAD 83, SPCS NM EAST X:842234.11' / Y:653023.67' LAT:32.79136563 / LON:-103.35417823 NAD 27, SPCS NM EAST X:801054.94' / Y:652960.15' LAT:32.79124572 / LON:-103.35368570		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. Signature: <i>Sammy Hajar</i> Date: 11/30/2023 Printed Name: Sammy Hajar E-mail Address: SHAJAR@BTAOIL.COM 18 SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by Delta Field Services, LLC. NOVEMBER29, 2023 Date of Survey Signature and Seal of Professional Surveyor: <i>Lloyd P. Short</i> LLOYD P. SHORT 21653 Certificate Number	
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Distances/areas relative to NAD 83 Combined Scale Factor: 0.99981955 Convergence Angle: 0.50466944°



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

WELL: Vindicator Canyon State #303H
TVD: 11873
MD: 22213

DRILLING PLAN

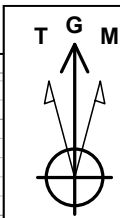
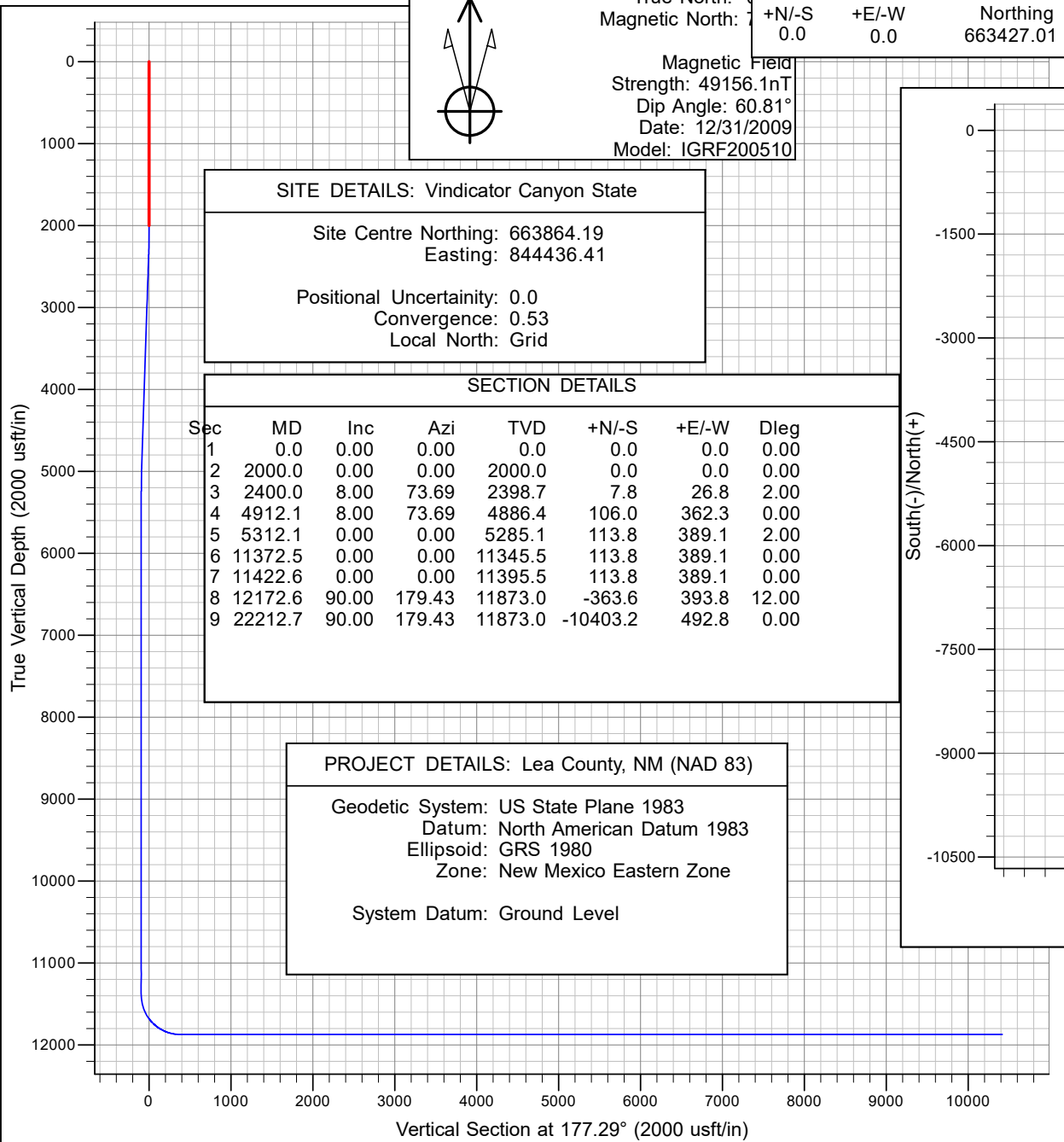
Casing Program

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	5200	0	5173	No	40	J-55	LTC	1.7	1.5	3.0	2.5	Dry	10
8 3/4	7 5/8	5140	11373	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	11173	0	11146	Yes	20	P110	BTC	1.6	1.8	2.9	3.0	Dry	12
6 3/4	5	11173	22213	11146	11873	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	5200	Class C	250	1.33	14.8	332.5	25%	1% CaCl2
7 5/8	Lead		5140	9505	25% Poz 75% Class C	185	2.99	11	553.15	15%	0.5% CaCl2
	Tail		9505	11373	Class H	200	1.19	15.6	238	15%	1% CaCl2
5 1/2	Lead										
	Tail		10375	0							
5	Lead										
	Tail		11173	22213	Class H	1150	1.27	14.8	1460.5	10%	0.1% Fluid Loss

BTA Oil Producers, LLC



Azimuths to Grid North
True North: -0.0°
Magnetic North: 0.0°
Magnetic Field
Strength: 49156.1nT
Dip Angle: 60.81°
Date: 12/31/2009
Model: IGRF200510

SITE DETAILS: Vindicator Canyon State

Site Centre Northing: 663864.19
Easting: 844436.41

Positional Uncertainty: 0.0
Convergence: 0.53
Local North: Grid

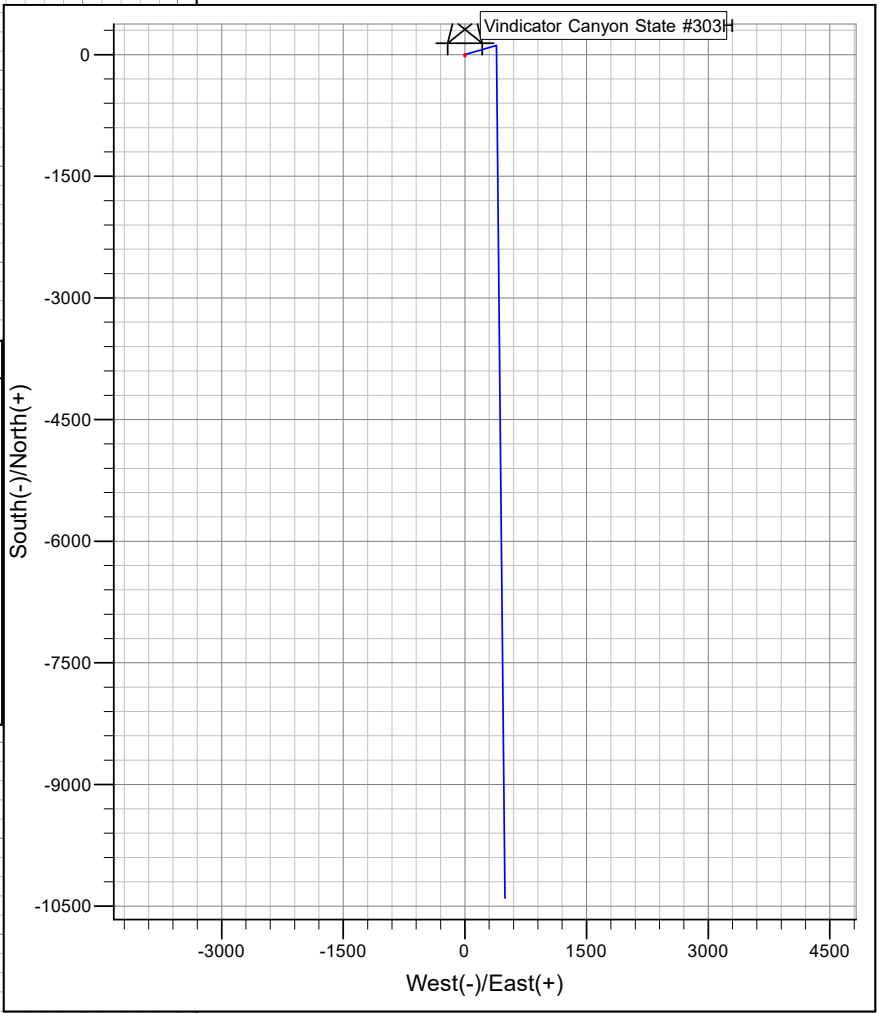
SECTION DETAILS							
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00
3	2400.0	8.00	73.69	2398.7	7.8	26.8	2.00
4	4912.1	8.00	73.69	4886.4	106.0	362.3	0.00
5	5312.1	0.00	0.00	5285.1	113.8	389.1	2.00
6	11372.5	0.00	0.00	11345.5	113.8	389.1	0.00
7	11422.6	0.00	0.00	11395.5	113.8	389.1	0.00
8	12172.6	90.00	179.43	11873.0	-363.6	393.8	12.00
9	22212.7	90.00	179.43	11873.0	-10403.2	492.8	0.00

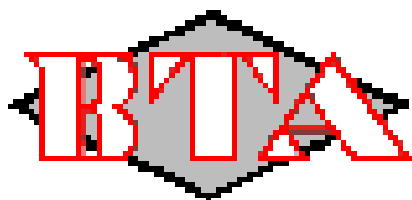
PROJECT DETAILS: Lea County, NM (NAD 83)

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

System Datum: Ground Level

WELL DETAILS: Vindicator Canyon State #303H					
+N/-S	+E/-W	Northing	Ground Level Easting	3858.0 Latitude	Longitude
0.0	0.0	663427.01	841741.29	32° 49' 11.889 N	103° 21' 19.687 W





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

30 November, 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:	663,427.01 usft	Latitude:	32° 49' 11.889 N
	+E/-W	0.0 usft	Easting:	841,741.29 usft	Longitude:	103° 21' 19.687 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	60.81	49,156.13763798

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	177.29

Plan Survey Tool Program	Date	11/30/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,212.7 Design #1 (Wellbore #1)		



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	73.69	2,398.7	7.8	26.8	2.00	2.00	0.00	73.69	
4,912.1	8.00	73.69	4,886.4	106.0	362.3	0.00	0.00	0.00	0.00	
5,312.1	0.00	0.00	5,285.1	113.8	389.1	2.00	-2.00	0.00	180.00	
11,372.5	0.00	0.00	11,345.5	113.8	389.1	0.00	0.00	0.00	0.00	Vindicator Canyon State
11,422.6	0.00	0.00	11,395.5	113.8	389.1	0.00	0.00	0.00	0.00	
12,172.6	90.00	179.43	11,873.0	-363.6	393.8	12.00	12.00	0.00	179.43	
22,212.7	90.00	179.43	11,873.0	-10,403.2	492.8	0.00	0.00	0.00	0.00	Vindicator Canyon State



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	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
100.0	0.00	0.00	100.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
200.0	0.00	0.00	200.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
300.0	0.00	0.00	300.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
400.0	0.00	0.00	400.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
500.0	0.00	0.00	500.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
600.0	0.00	0.00	600.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
700.0	0.00	0.00	700.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
800.0	0.00	0.00	800.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
900.0	0.00	0.00	900.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	663,427.01	841,741.29	32° 49' 11.889 N	103° 21' 19.687 W
2,100.0	2.00	73.69	2,100.0	0.5	1.7	663,427.50	841,742.96	32° 49' 11.894 N	103° 21' 19.668 W
2,200.0	4.00	73.69	2,199.8	2.0	6.7	663,428.97	841,747.99	32° 49' 11.908 N	103° 21' 19.609 W
2,300.0	6.00	73.69	2,299.5	4.4	15.1	663,431.42	841,756.35	32° 49' 11.931 N	103° 21' 19.510 W
2,400.0	8.00	73.69	2,398.7	7.8	26.8	663,434.84	841,768.05	32° 49' 11.964 N	103° 21' 19.373 W
2,500.0	8.00	73.69	2,497.7	11.7	40.1	663,438.75	841,781.41	32° 49' 12.001 N	103° 21' 19.216 W
2,600.0	8.00	73.69	2,596.8	15.6	53.5	663,442.66	841,794.76	32° 49' 12.039 N	103° 21' 19.059 W
2,700.0	8.00	73.69	2,695.8	19.6	66.8	663,446.57	841,808.12	32° 49' 12.076 N	103° 21' 18.902 W
2,800.0	8.00	73.69	2,794.8	23.5	80.2	663,450.47	841,821.48	32° 49' 12.114 N	103° 21' 18.745 W
2,900.0	8.00	73.69	2,893.8	27.4	93.5	663,454.38	841,834.84	32° 49' 12.151 N	103° 21' 18.588 W
3,000.0	8.00	73.69	2,992.9	31.3	106.9	663,458.29	841,848.19	32° 49' 12.189 N	103° 21' 18.431 W
3,100.0	8.00	73.69	3,091.9	35.2	120.3	663,462.20	841,861.55	32° 49' 12.226 N	103° 21' 18.274 W
3,200.0	8.00	73.69	3,190.9	39.1	133.6	663,466.10	841,874.91	32° 49' 12.263 N	103° 21' 18.117 W
3,300.0	8.00	73.69	3,289.9	43.0	147.0	663,470.01	841,888.27	32° 49' 12.301 N	103° 21' 17.960 W
3,400.0	8.00	73.69	3,389.0	46.9	160.3	663,473.92	841,901.62	32° 49' 12.338 N	103° 21' 17.804 W
3,500.0	8.00	73.69	3,488.0	50.8	173.7	663,477.83	841,914.98	32° 49' 12.376 N	103° 21' 17.647 W
3,600.0	8.00	73.69	3,587.0	54.7	187.0	663,481.73	841,928.34	32° 49' 12.413 N	103° 21' 17.490 W
3,700.0	8.00	73.69	3,686.0	58.6	200.4	663,485.64	841,941.70	32° 49' 12.451 N	103° 21' 17.333 W
3,800.0	8.00	73.69	3,785.1	62.5	213.8	663,489.55	841,955.05	32° 49' 12.488 N	103° 21' 17.176 W
3,900.0	8.00	73.69	3,884.1	66.4	227.1	663,493.46	841,968.41	32° 49' 12.525 N	103° 21' 17.019 W
4,000.0	8.00	73.69	3,983.1	70.3	240.5	663,497.36	841,981.77	32° 49' 12.563 N	103° 21' 16.862 W
4,100.0	8.00	73.69	4,082.2	74.3	253.8	663,501.27	841,995.13	32° 49' 12.600 N	103° 21' 16.705 W
4,200.0	8.00	73.69	4,181.2	78.2	267.2	663,505.18	842,008.49	32° 49' 12.638 N	103° 21' 16.548 W
4,300.0	8.00	73.69	4,280.2	82.1	280.6	663,509.09	842,021.84	32° 49' 12.675 N	103° 21' 16.391 W
4,400.0	8.00	73.69	4,379.2	86.0	293.9	663,512.99	842,035.20	32° 49' 12.713 N	103° 21' 16.234 W
4,500.0	8.00	73.69	4,478.3	89.9	307.3	663,516.90	842,048.56	32° 49' 12.750 N	103° 21' 16.077 W
4,600.0	8.00	73.69	4,577.3	93.8	320.6	663,520.81	842,061.92	32° 49' 12.788 N	103° 21' 15.920 W
4,700.0	8.00	73.69	4,676.3	97.7	334.0	663,524.72	842,075.27	32° 49' 12.825 N	103° 21' 15.763 W
4,800.0	8.00	73.69	4,775.3	101.6	347.3	663,528.63	842,088.63	32° 49' 12.862 N	103° 21' 15.606 W
4,900.0	8.00	73.69	4,874.4	105.5	360.7	663,532.53	842,101.99	32° 49' 12.900 N	103° 21' 15.449 W
4,912.1	8.00	73.69	4,886.4	106.0	362.3	663,533.01	842,103.61	32° 49' 12.904 N	103° 21' 15.430 W
5,000.0	6.24	73.69	4,973.6	109.0	372.8	663,536.07	842,114.06	32° 49' 12.934 N	103° 21' 15.308 W
5,100.0	4.24	73.69	5,073.1	111.6	381.5	663,538.63	842,122.83	32° 49' 12.958 N	103° 21' 15.205 W
5,200.0	2.24	73.69	5,173.0	113.2	387.0	663,540.22	842,128.26	32° 49' 12.973 N	103° 21' 15.141 W
5,300.0	0.24	73.69	5,273.0	113.8	389.1	663,540.83	842,130.34	32° 49' 12.979 N	103° 21' 15.116 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	
5,312.1	0.00	0.00	5,285.1	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
5,400.0	0.00	0.00	5,373.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
5,500.0	0.00	0.00	5,473.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
5,600.0	0.00	0.00	5,573.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
5,700.0	0.00	0.00	5,673.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
5,800.0	0.00	0.00	5,773.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
5,900.0	0.00	0.00	5,873.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,000.0	0.00	0.00	5,973.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,100.0	0.00	0.00	6,073.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,200.0	0.00	0.00	6,173.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,300.0	0.00	0.00	6,273.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,400.0	0.00	0.00	6,373.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,500.0	0.00	0.00	6,473.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,600.0	0.00	0.00	6,573.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,700.0	0.00	0.00	6,673.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,800.0	0.00	0.00	6,773.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
6,900.0	0.00	0.00	6,873.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,000.0	0.00	0.00	6,973.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,100.0	0.00	0.00	7,073.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,200.0	0.00	0.00	7,173.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,300.0	0.00	0.00	7,273.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,400.0	0.00	0.00	7,373.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,500.0	0.00	0.00	7,473.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,600.0	0.00	0.00	7,573.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,700.0	0.00	0.00	7,673.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,800.0	0.00	0.00	7,773.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
7,900.0	0.00	0.00	7,873.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,000.0	0.00	0.00	7,973.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,100.0	0.00	0.00	8,073.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,200.0	0.00	0.00	8,173.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,300.0	0.00	0.00	8,273.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,400.0	0.00	0.00	8,373.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,500.0	0.00	0.00	8,473.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,600.0	0.00	0.00	8,573.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,700.0	0.00	0.00	8,673.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,800.0	0.00	0.00	8,773.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
8,900.0	0.00	0.00	8,873.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,000.0	0.00	0.00	8,973.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,100.0	0.00	0.00	9,073.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,200.0	0.00	0.00	9,173.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,300.0	0.00	0.00	9,273.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,400.0	0.00	0.00	9,373.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,500.0	0.00	0.00	9,473.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,600.0	0.00	0.00	9,573.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,700.0	0.00	0.00	9,673.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,800.0	0.00	0.00	9,773.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
9,900.0	0.00	0.00	9,873.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,000.0	0.00	0.00	9,973.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,100.0	0.00	0.00	10,073.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,200.0	0.00	0.00	10,173.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,300.0	0.00	0.00	10,273.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,400.0	0.00	0.00	10,373.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,500.0	0.00	0.00	10,473.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,600.0	0.00	0.00	10,573.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,700.0	0.00	0.00	10,673.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 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	10,773.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
10,900.0	0.00	0.00	10,873.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
11,000.0	0.00	0.00	10,973.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
11,100.0	0.00	0.00	11,073.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
11,200.0	0.00	0.00	11,173.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
11,300.0	0.00	0.00	11,273.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
11,372.5	0.00	0.00	11,345.5	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
11,400.0	0.00	0.00	11,373.0	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
11,422.6	0.00	0.00	11,395.5	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
11,500.0	9.29	179.43	11,472.6	107.6	389.1	663,534.57	842,130.43	32° 49' 12.917 N	103° 21' 15.116 W	
11,600.0	21.29	179.43	11,568.9	81.2	389.4	663,508.25	842,130.69	32° 49' 12.657 N	103° 21' 15.116 W	
11,700.0	33.29	179.43	11,657.6	35.5	389.8	663,462.49	842,131.14	32° 49' 12.204 N	103° 21' 15.116 W	
11,800.0	45.29	179.43	11,734.9	-27.7	390.5	663,399.28	842,131.77	32° 49' 11.579 N	103° 21' 15.115 W	
11,900.0	57.29	179.43	11,797.3	-105.6	391.2	663,321.39	842,132.53	32° 49' 10.808 N	103° 21' 15.115 W	
12,000.0	69.29	179.43	11,842.1	-194.8	392.1	663,232.23	842,133.41	32° 49' 9.926 N	103° 21' 15.114 W	
12,100.0	81.29	179.43	11,867.5	-291.3	393.1	663,135.69	842,134.37	32° 49' 8.971 N	103° 21' 15.113 W	
12,172.6	90.00	179.43	11,873.0	-363.6	393.8	663,063.39	842,135.08	32° 49' 8.255 N	103° 21' 15.113 W	
12,200.0	90.00	179.43	11,873.0	-391.0	394.1	663,035.97	842,135.35	32° 49' 7.984 N	103° 21' 15.113 W	
12,300.0	90.00	179.43	11,873.0	-491.0	395.0	662,935.97	842,136.34	32° 49' 6.995 N	103° 21' 15.112 W	
12,400.0	90.00	179.43	11,873.0	-591.0	396.0	662,835.98	842,137.32	32° 49' 6.005 N	103° 21' 15.111 W	
12,500.0	90.00	179.43	11,873.0	-691.0	397.0	662,735.98	842,138.31	32° 49' 5.016 N	103° 21' 15.110 W	
12,600.0	90.00	179.43	11,873.0	-791.0	398.0	662,635.98	842,139.29	32° 49' 4.026 N	103° 21' 15.110 W	
12,700.0	90.00	179.43	11,873.0	-891.0	399.0	662,535.99	842,140.28	32° 49' 3.037 N	103° 21' 15.109 W	
12,800.0	90.00	179.43	11,873.0	-991.0	400.0	662,435.99	842,141.27	32° 49' 2.047 N	103° 21' 15.108 W	
12,900.0	90.00	179.43	11,873.0	-1,091.0	401.0	662,335.99	842,142.25	32° 49' 1.058 N	103° 21' 15.108 W	
13,000.0	90.00	179.43	11,873.0	-1,191.0	401.9	662,236.00	842,143.24	32° 49' 0.069 N	103° 21' 15.107 W	
13,100.0	90.00	179.43	11,873.0	-1,291.0	402.9	662,136.00	842,144.23	32° 48' 59.079 N	103° 21' 15.106 W	
13,200.0	90.00	179.43	11,873.0	-1,391.0	403.9	662,036.00	842,145.21	32° 48' 58.090 N	103° 21' 15.105 W	
13,300.0	90.00	179.43	11,873.0	-1,491.0	404.9	661,936.01	842,146.20	32° 48' 57.100 N	103° 21' 15.105 W	
13,400.0	90.00	179.43	11,873.0	-1,591.0	405.9	661,836.01	842,147.18	32° 48' 56.111 N	103° 21' 15.104 W	
13,500.0	90.00	179.43	11,873.0	-1,691.0	406.9	661,736.02	842,148.17	32° 48' 55.121 N	103° 21' 15.103 W	
13,600.0	90.00	179.43	11,873.0	-1,791.0	407.9	661,636.02	842,149.16	32° 48' 54.132 N	103° 21' 15.103 W	
13,700.0	90.00	179.43	11,873.0	-1,891.0	408.9	661,536.02	842,150.14	32° 48' 53.143 N	103° 21' 15.102 W	
13,800.0	90.00	179.43	11,873.0	-1,991.0	409.8	661,436.03	842,151.13	32° 48' 52.153 N	103° 21' 15.101 W	
13,900.0	90.00	179.43	11,873.0	-2,091.0	410.8	661,336.03	842,152.12	32° 48' 51.164 N	103° 21' 15.101 W	
14,000.0	90.00	179.43	11,873.0	-2,191.0	411.8	661,236.03	842,153.10	32° 48' 50.174 N	103° 21' 15.100 W	
14,100.0	90.00	179.43	11,873.0	-2,290.9	412.8	661,136.04	842,154.09	32° 48' 49.185 N	103° 21' 15.099 W	
14,200.0	90.00	179.43	11,873.0	-2,390.9	413.8	661,036.04	842,155.08	32° 48' 48.195 N	103° 21' 15.098 W	
14,300.0	90.00	179.43	11,873.0	-2,490.9	414.8	660,936.04	842,156.06	32° 48' 47.206 N	103° 21' 15.098 W	
14,400.0	90.00	179.43	11,873.0	-2,590.9	415.8	660,836.05	842,157.05	32° 48' 46.217 N	103° 21' 15.097 W	
14,500.0	90.00	179.43	11,873.0	-2,690.9	416.7	660,736.05	842,158.03	32° 48' 45.227 N	103° 21' 15.096 W	
14,600.0	90.00	179.43	11,873.0	-2,790.9	417.7	660,636.06	842,159.02	32° 48' 44.238 N	103° 21' 15.096 W	
14,700.0	90.00	179.43	11,873.0	-2,890.9	418.7	660,536.06	842,160.01	32° 48' 43.248 N	103° 21' 15.095 W	
14,800.0	90.00	179.43	11,873.0	-2,990.9	419.7	660,436.06	842,160.99	32° 48' 42.259 N	103° 21' 15.094 W	
14,900.0	90.00	179.43	11,873.0	-3,090.9	420.7	660,336.07	842,161.98	32° 48' 41.270 N	103° 21' 15.093 W	
15,000.0	90.00	179.43	11,873.0	-3,190.9	421.7	660,236.07	842,162.97	32° 48' 40.280 N	103° 21' 15.093 W	
15,100.0	90.00	179.43	11,873.0	-3,290.9	422.7	660,136.07	842,163.95	32° 48' 39.291 N	103° 21' 15.092 W	
15,200.0	90.00	179.43	11,873.0	-3,390.9	423.6	660,036.08	842,164.94	32° 48' 38.301 N	103° 21' 15.091 W	
15,300.0	90.00	179.43	11,873.0	-3,490.9	424.6	659,936.08	842,165.93	32° 48' 37.312 N	103° 21' 15.091 W	
15,400.0	90.00	179.43	11,873.0	-3,590.9	425.6	659,836.08	842,166.91	32° 48' 36.322 N	103° 21' 15.090 W	
15,500.0	90.00	179.43	11,873.0	-3,690.9	426.6	659,736.09	842,167.90	32° 48' 35.333 N	103° 21' 15.089 W	
15,600.0	90.00	179.43	11,873.0	-3,790.9	427.6	659,636.09	842,168.88	32° 48' 34.344 N	103° 21' 15.089 W	
15,700.0	90.00	179.43	11,873.0	-3,890.9	428.6	659,536.09	842,169.87	32° 48' 33.354 N	103° 21' 15.088 W	
15,800.0	90.00	179.43	11,873.0	-3,990.9	429.6	659,436.10	842,170.86	32° 48' 32.365 N	103° 21' 15.087 W	
15,900.0	90.00	179.43	11,873.0	-4,090.9	430.5	659,336.10	842,171.84	32° 48' 31.375 N	103° 21' 15.086 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	179.43	11,873.0	-4,190.9	431.5	659,236.11	842,172.83	32° 48' 30.386 N	103° 21' 15.086 W	
16,100.0	90.00	179.43	11,873.0	-4,290.9	432.5	659,136.11	842,173.82	32° 48' 29.396 N	103° 21' 15.085 W	
16,200.0	90.00	179.43	11,873.0	-4,390.8	433.5	659,036.11	842,174.80	32° 48' 28.407 N	103° 21' 15.084 W	
16,300.0	90.00	179.43	11,873.0	-4,490.8	434.5	658,936.12	842,175.79	32° 48' 27.418 N	103° 21' 15.084 W	
16,400.0	90.00	179.43	11,873.0	-4,590.8	435.5	658,836.12	842,176.78	32° 48' 26.428 N	103° 21' 15.083 W	
16,500.0	90.00	179.43	11,873.0	-4,690.8	436.5	658,736.12	842,177.76	32° 48' 25.439 N	103° 21' 15.082 W	
16,600.0	90.00	179.43	11,873.0	-4,790.8	437.5	658,636.13	842,178.75	32° 48' 24.449 N	103° 21' 15.081 W	
16,700.0	90.00	179.43	11,873.0	-4,890.8	438.4	658,536.13	842,179.73	32° 48' 23.460 N	103° 21' 15.081 W	
16,800.0	90.00	179.43	11,873.0	-4,990.8	439.4	658,436.13	842,180.72	32° 48' 22.470 N	103° 21' 15.080 W	
16,900.0	90.00	179.43	11,873.0	-5,090.8	440.4	658,336.14	842,181.71	32° 48' 21.481 N	103° 21' 15.079 W	
17,000.0	90.00	179.43	11,873.0	-5,190.8	441.4	658,236.14	842,182.69	32° 48' 20.492 N	103° 21' 15.079 W	
17,100.0	90.00	179.43	11,873.0	-5,290.8	442.4	658,136.15	842,183.68	32° 48' 19.502 N	103° 21' 15.078 W	
17,200.0	90.00	179.43	11,873.0	-5,390.8	443.4	658,036.15	842,184.67	32° 48' 18.513 N	103° 21' 15.077 W	
17,300.0	90.00	179.43	11,873.0	-5,490.8	444.4	657,936.15	842,185.65	32° 48' 17.523 N	103° 21' 15.076 W	
17,400.0	90.00	179.43	11,873.0	-5,590.8	445.3	657,836.16	842,186.64	32° 48' 16.534 N	103° 21' 15.076 W	
17,500.0	90.00	179.43	11,873.0	-5,690.8	446.3	657,736.16	842,187.63	32° 48' 15.545 N	103° 21' 15.075 W	
17,600.0	90.00	179.43	11,873.0	-5,790.8	447.3	657,636.16	842,188.61	32° 48' 14.555 N	103° 21' 15.074 W	
17,700.0	90.00	179.43	11,873.0	-5,890.8	448.3	657,536.17	842,189.60	32° 48' 13.566 N	103° 21' 15.074 W	
17,800.0	90.00	179.43	11,873.0	-5,990.8	449.3	657,436.17	842,190.58	32° 48' 12.576 N	103° 21' 15.073 W	
17,900.0	90.00	179.43	11,873.0	-6,090.8	450.3	657,336.17	842,191.57	32° 48' 11.587 N	103° 21' 15.072 W	
18,000.0	90.00	179.43	11,873.0	-6,190.8	451.3	657,236.18	842,192.56	32° 48' 10.597 N	103° 21' 15.072 W	
18,100.0	90.00	179.43	11,873.0	-6,290.8	452.2	657,136.18	842,193.54	32° 48' 9.608 N	103° 21' 15.071 W	
18,200.0	90.00	179.43	11,873.0	-6,390.7	453.2	657,036.19	842,194.53	32° 48' 8.619 N	103° 21' 15.070 W	
18,300.0	90.00	179.43	11,873.0	-6,490.7	454.2	656,936.19	842,195.52	32° 48' 7.629 N	103° 21' 15.069 W	
18,400.0	90.00	179.43	11,873.0	-6,590.7	455.2	656,836.19	842,196.50	32° 48' 6.640 N	103° 21' 15.069 W	
18,500.0	90.00	179.43	11,873.0	-6,690.7	456.2	656,736.20	842,197.49	32° 48' 5.650 N	103° 21' 15.068 W	
18,600.0	90.00	179.43	11,873.0	-6,790.7	457.2	656,636.20	842,198.48	32° 48' 4.661 N	103° 21' 15.067 W	
18,700.0	90.00	179.43	11,873.0	-6,890.7	458.2	656,536.20	842,199.46	32° 48' 3.671 N	103° 21' 15.067 W	
18,800.0	90.00	179.43	11,873.0	-6,990.7	459.2	656,436.21	842,200.45	32° 48' 2.682 N	103° 21' 15.066 W	
18,900.0	90.00	179.43	11,873.0	-7,090.7	460.1	656,336.21	842,201.43	32° 48' 1.693 N	103° 21' 15.065 W	
19,000.0	90.00	179.43	11,873.0	-7,190.7	461.1	656,236.21	842,202.42	32° 48' 0.703 N	103° 21' 15.064 W	
19,100.0	90.00	179.43	11,873.0	-7,290.7	462.1	656,136.22	842,203.41	32° 47' 59.714 N	103° 21' 15.064 W	
19,200.0	90.00	179.43	11,873.0	-7,390.7	463.1	656,036.22	842,204.39	32° 47' 58.724 N	103° 21' 15.063 W	
19,300.0	90.00	179.43	11,873.0	-7,490.7	464.1	655,936.23	842,205.38	32° 47' 57.735 N	103° 21' 15.062 W	
19,400.0	90.00	179.43	11,873.0	-7,590.7	465.1	655,836.23	842,206.37	32° 47' 56.745 N	103° 21' 15.062 W	
19,500.0	90.00	179.43	11,873.0	-7,690.7	466.1	655,736.23	842,207.35	32° 47' 55.756 N	103° 21' 15.061 W	
19,600.0	90.00	179.43	11,873.0	-7,790.7	467.0	655,636.24	842,208.34	32° 47' 54.767 N	103° 21' 15.060 W	
19,700.0	90.00	179.43	11,873.0	-7,890.7	468.0	655,536.24	842,209.33	32° 47' 53.777 N	103° 21' 15.059 W	
19,800.0	90.00	179.43	11,873.0	-7,990.7	469.0	655,436.24	842,210.31	32° 47' 52.788 N	103° 21' 15.059 W	
19,900.0	90.00	179.43	11,873.0	-8,090.7	470.0	655,336.25	842,211.30	32° 47' 51.798 N	103° 21' 15.058 W	
20,000.0	90.00	179.43	11,873.0	-8,190.7	471.0	655,236.25	842,212.28	32° 47' 50.809 N	103° 21' 15.057 W	
20,100.0	90.00	179.43	11,873.0	-8,290.7	472.0	655,136.25	842,213.27	32° 47' 49.819 N	103° 21' 15.057 W	
20,200.0	90.00	179.43	11,873.0	-8,390.7	473.0	655,036.26	842,214.26	32° 47' 48.830 N	103° 21' 15.056 W	
20,300.0	90.00	179.43	11,873.0	-8,490.6	473.9	654,936.26	842,215.24	32° 47' 47.841 N	103° 21' 15.055 W	
20,400.0	90.00	179.43	11,873.0	-8,590.6	474.9	654,836.26	842,216.23	32° 47' 46.851 N	103° 21' 15.055 W	
20,500.0	90.00	179.43	11,873.0	-8,690.6	475.9	654,736.27	842,217.22	32° 47' 45.862 N	103° 21' 15.054 W	
20,600.0	90.00	179.43	11,873.0	-8,790.6	476.9	654,636.27	842,218.20	32° 47' 44.872 N	103° 21' 15.053 W	
20,700.0	90.00	179.43	11,873.0	-8,890.6	477.9	654,536.28	842,219.19	32° 47' 43.883 N	103° 21' 15.052 W	
20,800.0	90.00	179.43	11,873.0	-8,990.6	478.9	654,436.28	842,220.18	32° 47' 42.893 N	103° 21' 15.052 W	
20,900.0	90.00	179.43	11,873.0	-9,090.6	479.9	654,336.28	842,221.16	32° 47' 41.904 N	103° 21' 15.051 W	
21,000.0	90.00	179.43	11,873.0	-9,190.6	480.9	654,236.29	842,222.15	32° 47' 40.915 N	103° 21' 15.050 W	
21,100.0	90.00	179.43	11,873.0	-9,290.6	481.8	654,136.29	842,223.13	32° 47' 39.925 N	103° 21' 15.050 W	
21,200.0	90.00	179.43	11,873.0	-9,390.6	482.8	654,036.29	842,224.12	32° 47' 38.936 N	103° 21' 15.049 W	
21,300.0	90.00	179.43	11,873.0	-9,490.6	483.8	653,936.30	842,225.11	32° 47' 37.946 N	103° 21' 15.048 W	
21,400.0	90.00	179.43	11,873.0	-9,590.6	484.8	653,836.30	842,226.09	32° 47' 36.957 N	103° 21' 15.047 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	
21,500.0	90.00	179.43	11,873.0	-9,690.6	485.8	653,736.30	842,227.08	32° 47' 35.967 N	103° 21' 15.047 W	
21,600.0	90.00	179.43	11,873.0	-9,790.6	486.8	653,636.31	842,228.07	32° 47' 34.978 N	103° 21' 15.046 W	
21,700.0	90.00	179.43	11,873.0	-9,890.6	487.8	653,536.31	842,229.05	32° 47' 33.989 N	103° 21' 15.045 W	
21,800.0	90.00	179.43	11,873.0	-9,990.6	488.7	653,436.32	842,230.04	32° 47' 32.999 N	103° 21' 15.045 W	
21,900.0	90.00	179.43	11,873.0	-10,090.6	489.7	653,336.32	842,231.02	32° 47' 32.010 N	103° 21' 15.044 W	
22,000.0	90.00	179.43	11,873.0	-10,190.6	490.7	653,236.32	842,232.01	32° 47' 31.020 N	103° 21' 15.043 W	
22,100.0	90.00	179.43	11,873.0	-10,290.6	491.7	653,136.33	842,233.00	32° 47' 30.031 N	103° 21' 15.042 W	
22,200.0	90.00	179.43	11,873.0	-10,390.6	492.7	653,036.33	842,233.98	32° 47' 29.042 N	103° 21' 15.042 W	
22,212.7	90.00	179.43	11,873.0	-10,403.2	492.8	653,023.67	842,234.11	32° 47' 28.916 N	103° 21' 15.042 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	
Vindicator Canyon State - plan hits target center - Point	0.00	0.00	11,345.5	113.8	389.1	663,540.83	842,130.37	32° 49' 12.979 N	103° 21' 15.116 W	
Vindicator Canyon State - plan hits target center - Point	0.00	0.00	11,873.0	-10,403.2	492.8	653,023.67	842,234.11	32° 47' 28.916 N	103° 21' 15.042 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 289979

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 289979
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	1/2/2024