

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

Form C-101
August 1, 2011

Permit 379512

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701		2. OGRID Number 260297
		3. API Number 30-025-54125
4. Property Code 334304	5. Property Name CAPITAN 22301 33 4 STATE COM	6. Well No. 023H

7. Surface Location

UL - Lot D	Section 33	Township 16S	Range 36E	Lot Idn D	Feet From 300	N/S Line N	Feet From 1020	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot N	Section 4	Township 17S	Range 36E	Lot Idn N	Feet From 50	N/S Line S	Feet From 1650	E/W Line W	County Lea
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9. Pool Information

WC-025 G-09 S173615C;UPPER PENN	98333
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3901
16. Multiple N	17. Proposed Depth 12100	18. Formation Upper Pennsylvanian Undesignated	19. Contractor	20. Spud Date 2/3/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1900	1520	0
Int1	12.25	9.625	40	4900	1650	0
Liner1	8.75	7.625	29.7	11023	390	4700
Prod	6.75	5.5	20	10823	0	10025
Prod	6.75	5	18	22427	1205	10823

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	14000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

OIL CONSERVATION DIVISION

Printed Name: Electronically filed by Katy Reddell	Approved By: Paul F Kautz
Title:	Title: Geologist
Email Address: kreddell@btaoil.com	Approved Date: 12/20/2024 Expiration Date: 12/20/2026
Date: 12/12/2024 Phone: 432-682-3753	Conditions of Approval Attached

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 PAGE 1 OF 2	
		Submittal Type:	☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code 98333	Pool Name WC-025 G-09 S173615C; UPPER PENN
Property Code	Property Name CAPITAN 22301 33-4 STATE COM	Well Number 23H
OGRID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Ground Level Elevation 3901'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
D	33	16S	36E		300' FNL	1020' FWL	32.88496981	-103.36492317	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	04	17S	36E		50' FSL	1650' FWL	32.85687127	-103.36290360	LEA

Dedicated Acres 319.48	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers:			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	28	16S	36E		500' FSL	1650' FWL	32.88717339	-103.36287506	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
C	33	16S	36E		100' FNL	1650' FWL	32.88552440	-103.36287398	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	04	17S	36E		100' FSL	1650' FWL	32.85700870	-103.36290155	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3901'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  Signature Sammy Hajar Printed Name SHAJAR@BTAOIL.COM Email Address 12/4/2024 Date	SURVEYOR CERTIFICATIONS <i>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.</i>  Signature and Seal of Professional Surveyor Certificate Number 21653 Date of Survey DECEMBER 02, 2024
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Note: 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.

ACREAGE DEDICATION PLATS

CAPITAN 22301 33-4 STATE COM 23H

PAGE 2 OF 2

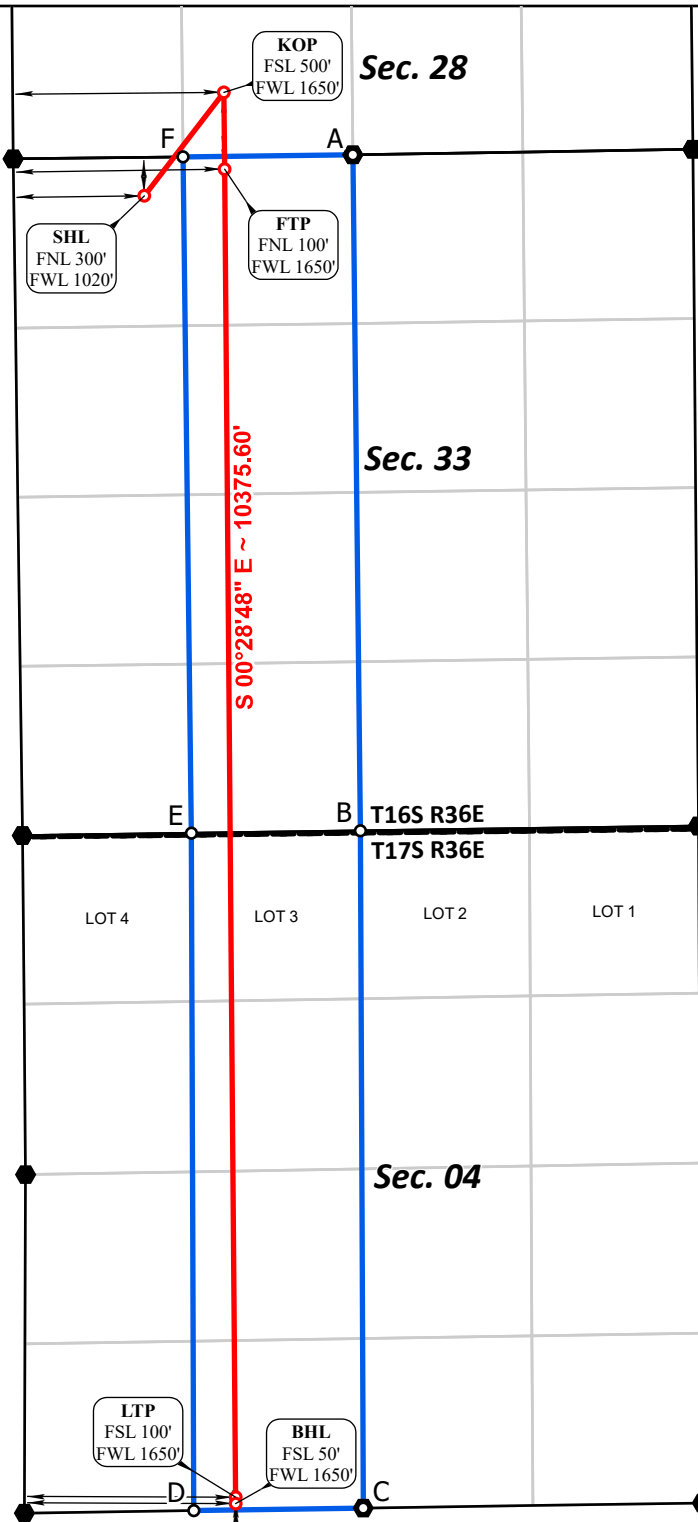
SHL
FNL 300' FWL 1020', SECTION 33
NAD 83, SPCS NM EAST
X:838619.86' / Y:687050.04'
LAT:32.88496981 / LON:-103.36492317
NAD 27, SPCS NM EAST
X:797441.72' / Y:686985.59'
LAT:32.88485027 / LON:-103.36442655

KOP
FSL 500' FWL 1650', SECTION 28
NAD 83, SPCS NM EAST
X:839241.24' / Y:687857.57'
LAT:32.88717339 / LON:-103.36287506
NAD 27, SPCS NM EAST
X:798063.12' / Y:687793.12'
LAT:32.88705392 / LON:-103.36237840

FTP
FNL 100' FWL 1650', SECTION 33
NAD 83, SPCS NM EAST
X:839247.09' / Y:687257.60'
LAT:32.88552440 / LON:-103.36287398
NAD 27, SPCS NM EAST
X:798068.95' / Y:687193.17'
LAT:32.88540491 / LON:-103.36237739

LTP
FSL 100' FWL 1650', SECTION 04
NAD 83, SPCS NM EAST
X:839334.01' / Y:676882.37'
LAT:32.85700870 / LON:-103.36290155
NAD 27, SPCS NM EAST
X:798155.56' / Y:676818.18'
LAT:32.85688901 / LON:-103.36240612

BHL
FSL 50' FWL 1650', SECTION 04
NAD 83, SPCS NM EAST
X:839333.84' / Y:676832.36'
LAT:32.85687127 / LON:-103.36290360
NAD 27, SPCS NM EAST
X:798155.39' / Y:676768.17'
LAT:32.85675158 / LON:-103.36240817



CORNER COORDINATES NAD 83, SPCS NM EAST	CORNER COORDINATES NAD 27, SPCS NM EAST
A - X: 840248.84' / Y:687369.66'	A - X: 799070.70' / Y:687305.25'
B - X: 840308.44' / Y:682088.79'	B - X: 799130.14' / Y:682024.51'
C - X: 840330.41' / Y:676797.25'	C - X: 799151.96' / Y:676733.10'
D - X: 839007.00' / Y:676777.47'	D - X: 797828.55' / Y:676713.27'
E - X: 838988.21' / Y:682070.20'	E - X: 797809.92' / Y:682005.88'
F - X: 838922.34' / Y:687353.70'	F - X: 797744.21' / Y:687289.25'

○ Drill Line Events ● Section Corners — Drill Line ⇨ Dimension Lines □ Federal Leases □ Project Area
All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.



JOB No. BTA_0015_CP21
REV 0 REM 11/20/2024

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99981955 and a Convergence Angle: 0.50466944°

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions
Permit 379512

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: BTA OIL PRODUCERS, LLC [260297] 104 S Pecos Midland, TX 79701	API Number: 30-025-54125
	Well: CAPITAN 22301 33 4 STATE COM #023H

OCD Reviewer	Condition
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.
pkautz	Notify the OCD 24 hours prior to casing & cement.
pkautz	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
pkautz	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Sec 33, T16S, R36E

Capitan 22301 33-4 State Com #23H

Wellbore #1

Plan: Design #1

KLX Well Planning Report

10 December, 2024





Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Capitan 22301 33-4 State Com #23H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3926.0usft (Patterson #288)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3926.0usft (Patterson #288)
Site:	Sec 33, T16S, R36E	North Reference:	Grid
Well:	Capitan 22301 33-4 State Com #23H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 33, T16S, R36E				
Site Position:		Northing:	687,049.68 usft	Latitude:	32° 53' 5.890 N
From:	Map	Easting:	838,589.86 usft	Longitude:	103° 21' 54.075 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.53 °

Well	Capitan 22301 33-4 State Com #23H					
Well Position	+N/-S	0.4 usft	Northing:	687,050.04 usft	Latitude:	32° 53' 5.891 N
	+E/-W	30.0 usft	Easting:	838,619.86 usft	Longitude:	103° 21' 53.723 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,901.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	12/10/2024	6.10	60.50	47,392.20000000

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	176.00



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Capitan 22301 33-4 State Com #23H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3926.0usft (Patterson #288)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3926.0usft (Patterson #288)
Site:	Sec 33, T16S, R36E	North Reference:	Grid
Well:	Capitan 22301 33-4 State Com #23H	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	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	8.00	37.58	2,498.7	22.1	17.0	2.00	2.00	0.00	37.58	
9,419.9	8.00	37.58	9,351.3	785.4	604.4	0.00	0.00	0.00	0.00	
9,820.0	0.00	0.00	9,750.0	807.5	621.4	2.00	-2.00	0.00	180.00	VP Capitan 23H
11,073.1	0.00	0.00	11,003.1	807.5	621.4	0.00	0.00	0.00	0.00	
11,981.5	90.84	179.49	11,576.0	226.2	626.6	10.00	10.00	19.76	179.49	
13,000.2	90.84	179.49	11,561.0	-792.4	635.6	0.00	0.00	0.00	0.00	T1 Capitan 23H
13,045.0	91.74	179.52	11,560.0	-837.2	636.0	2.00	2.00	0.07	1.90	
14,000.7	91.74	179.52	11,531.0	-1,792.4	644.0	0.00	0.00	0.00	0.00	T2 Capitan 23H
14,060.7	90.54	179.52	11,529.8	-1,852.4	644.5	2.00	-2.00	0.00	-179.97	
15,000.7	90.54	179.52	11,521.0	-2,792.3	652.4	0.00	0.00	0.00	0.00	T3 Capitan 23H
15,042.8	89.70	179.52	11,520.9	-2,834.4	652.8	2.00	-2.00	0.00	180.00	
16,000.7	89.70	179.52	11,526.0	-3,792.3	660.8	0.00	0.00	0.00	0.00	T4 Capitan 23H
16,014.3	89.43	179.52	11,526.1	-3,805.8	660.9	2.00	-2.00	0.00	-180.00	
17,000.8	89.43	179.52	11,536.0	-4,792.3	669.2	0.00	0.00	0.00	0.00	T5 Capitan 23H
17,090.9	91.23	179.52	11,535.5	-4,882.3	670.0	2.00	2.00	0.00	0.00	
18,001.0	91.23	179.52	11,516.0	-5,792.2	677.6	0.00	0.00	0.00	0.00	T6 Capitan 23H
18,019.5	90.86	179.52	11,515.7	-5,810.8	677.8	2.00	-2.00	0.00	-180.00	
19,001.1	90.86	179.52	11,501.0	-6,792.2	686.0	0.00	0.00	0.00	0.00	T7 Capitan 23H
19,015.7	91.15	179.52	11,500.7	-6,806.8	686.1	2.00	2.00	0.00	0.00	
20,001.3	91.15	179.52	11,481.0	-7,792.2	694.4	0.00	0.00	0.00	0.00	T8 Capitan 23H
21,001.3	91.15	179.52	11,461.0	-8,791.9	702.8	0.00	0.00	0.00	0.00	
21,045.0	92.02	179.52	11,459.8	-8,835.6	703.1	2.00	2.00	0.00	0.00	
22,002.1	92.02	179.52	11,426.0	-9,792.1	711.2	0.00	0.00	0.00	0.00	T10 Capitan 23H
22,037.8	91.32	179.63	11,425.0	-9,827.7	711.4	2.00	-1.98	0.30	171.25	
22,427.8	91.32	179.63	11,416.0	-10,217.7	714.0	0.00	0.00	0.00	0.00	PBHL Capitan 23H



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Capitan 22301 33-4 State Com #23H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3926.0usft (Patterson #288)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3926.0usft (Patterson #288)
Site:	Sec 33, T16S, R36E	North Reference:	Grid
Well:	Capitan 22301 33-4 State Com #23H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 2°/100'									
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	2.00	37.58	2,200.0	1.4	1.1	-1.3	2.00	2.00	0.00
2,300.0	4.00	37.58	2,299.8	5.5	4.3	-5.2	2.00	2.00	0.00
2,400.0	6.00	37.58	2,399.5	12.4	9.6	-11.7	2.00	2.00	0.00
EOB @ 8° Inc / 37.58° Azm									
2,500.0	8.00	37.58	2,498.7	22.1	17.0	-20.9	2.00	2.00	0.00
2,600.0	8.00	37.58	2,597.7	33.1	25.5	-31.3	0.00	0.00	0.00
2,700.0	8.00	37.58	2,696.8	44.2	34.0	-41.7	0.00	0.00	0.00
2,800.0	8.00	37.58	2,795.8	55.2	42.5	-52.1	0.00	0.00	0.00
2,900.0	8.00	37.58	2,894.8	66.2	51.0	-62.5	0.00	0.00	0.00
3,000.0	8.00	37.58	2,993.8	77.3	59.4	-72.9	0.00	0.00	0.00
3,100.0	8.00	37.58	3,092.9	88.3	67.9	-83.3	0.00	0.00	0.00
3,200.0	8.00	37.58	3,191.9	99.3	76.4	-93.7	0.00	0.00	0.00
3,300.0	8.00	37.58	3,290.9	110.3	84.9	-104.2	0.00	0.00	0.00
3,400.0	8.00	37.58	3,389.9	121.4	93.4	-114.6	0.00	0.00	0.00
3,500.0	8.00	37.58	3,489.0	132.4	101.9	-125.0	0.00	0.00	0.00
3,600.0	8.00	37.58	3,588.0	143.4	110.4	-135.4	0.00	0.00	0.00
3,700.0	8.00	37.58	3,687.0	154.5	118.9	-145.8	0.00	0.00	0.00
3,800.0	8.00	37.58	3,786.0	165.5	127.3	-156.2	0.00	0.00	0.00
3,900.0	8.00	37.58	3,885.1	176.5	135.8	-166.6	0.00	0.00	0.00
4,000.0	8.00	37.58	3,984.1	187.6	144.3	-177.0	0.00	0.00	0.00
4,100.0	8.00	37.58	4,083.1	198.6	152.8	-187.5	0.00	0.00	0.00
4,200.0	8.00	37.58	4,182.2	209.6	161.3	-197.9	0.00	0.00	0.00
4,300.0	8.00	37.58	4,281.2	220.7	169.8	-208.3	0.00	0.00	0.00
4,400.0	8.00	37.58	4,380.2	231.7	178.3	-218.7	0.00	0.00	0.00
4,500.0	8.00	37.58	4,479.2	242.7	186.8	-229.1	0.00	0.00	0.00
4,600.0	8.00	37.58	4,578.3	253.7	195.3	-239.5	0.00	0.00	0.00
4,700.0	8.00	37.58	4,677.3	264.8	203.7	-249.9	0.00	0.00	0.00
4,800.0	8.00	37.58	4,776.3	275.8	212.2	-260.3	0.00	0.00	0.00
4,900.0	8.00	37.58	4,875.3	286.8	220.7	-270.8	0.00	0.00	0.00
5,000.0	8.00	37.58	4,974.4	297.9	229.2	-281.2	0.00	0.00	0.00
5,100.0	8.00	37.58	5,073.4	308.9	237.7	-291.6	0.00	0.00	0.00



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Capitan 22301 33-4 State Com #23H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3926.0usft (Patterson #288)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3926.0usft (Patterson #288)
Site:	Sec 33, T16S, R36E	North Reference:	Grid
Well:	Capitan 22301 33-4 State Com #23H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	8.00	37.58	5,172.4	319.9	246.2	-302.0	0.00	0.00	0.00
5,300.0	8.00	37.58	5,271.4	331.0	254.7	-312.4	0.00	0.00	0.00
5,400.0	8.00	37.58	5,370.5	342.0	263.2	-322.8	0.00	0.00	0.00
5,500.0	8.00	37.58	5,469.5	353.0	271.6	-333.2	0.00	0.00	0.00
5,600.0	8.00	37.58	5,568.5	364.1	280.1	-343.6	0.00	0.00	0.00
5,700.0	8.00	37.58	5,667.6	375.1	288.6	-354.1	0.00	0.00	0.00
5,800.0	8.00	37.58	5,766.6	386.1	297.1	-364.5	0.00	0.00	0.00
5,900.0	8.00	37.58	5,865.6	397.1	305.6	-374.9	0.00	0.00	0.00
6,000.0	8.00	37.58	5,964.6	408.2	314.1	-385.3	0.00	0.00	0.00
6,100.0	8.00	37.58	6,063.7	419.2	322.6	-395.7	0.00	0.00	0.00
6,200.0	8.00	37.58	6,162.7	430.2	331.1	-406.1	0.00	0.00	0.00
6,300.0	8.00	37.58	6,261.7	441.3	339.6	-416.5	0.00	0.00	0.00
6,400.0	8.00	37.58	6,360.7	452.3	348.0	-426.9	0.00	0.00	0.00
6,500.0	8.00	37.58	6,459.8	463.3	356.5	-437.4	0.00	0.00	0.00
6,600.0	8.00	37.58	6,558.8	474.4	365.0	-447.8	0.00	0.00	0.00
6,700.0	8.00	37.58	6,657.8	485.4	373.5	-458.2	0.00	0.00	0.00
6,800.0	8.00	37.58	6,756.8	496.4	382.0	-468.6	0.00	0.00	0.00
6,900.0	8.00	37.58	6,855.9	507.5	390.5	-479.0	0.00	0.00	0.00
7,000.0	8.00	37.58	6,954.9	518.5	399.0	-489.4	0.00	0.00	0.00
7,100.0	8.00	37.58	7,053.9	529.5	407.5	-499.8	0.00	0.00	0.00
7,200.0	8.00	37.58	7,153.0	540.6	415.9	-510.2	0.00	0.00	0.00
7,300.0	8.00	37.58	7,252.0	551.6	424.4	-520.7	0.00	0.00	0.00
7,400.0	8.00	37.58	7,351.0	562.6	432.9	-531.1	0.00	0.00	0.00
7,500.0	8.00	37.58	7,450.0	573.6	441.4	-541.5	0.00	0.00	0.00
7,600.0	8.00	37.58	7,549.1	584.7	449.9	-551.9	0.00	0.00	0.00
7,700.0	8.00	37.58	7,648.1	595.7	458.4	-562.3	0.00	0.00	0.00
7,800.0	8.00	37.58	7,747.1	606.7	466.9	-572.7	0.00	0.00	0.00
7,900.0	8.00	37.58	7,846.1	617.8	475.4	-583.1	0.00	0.00	0.00
8,000.0	8.00	37.58	7,945.2	628.8	483.8	-593.5	0.00	0.00	0.00
8,100.0	8.00	37.58	8,044.2	639.8	492.3	-604.0	0.00	0.00	0.00
8,200.0	8.00	37.58	8,143.2	650.9	500.8	-614.4	0.00	0.00	0.00
8,300.0	8.00	37.58	8,242.2	661.9	509.3	-624.8	0.00	0.00	0.00
8,400.0	8.00	37.58	8,341.3	672.9	517.8	-635.2	0.00	0.00	0.00
8,500.0	8.00	37.58	8,440.3	684.0	526.3	-645.6	0.00	0.00	0.00
8,600.0	8.00	37.58	8,539.3	695.0	534.8	-656.0	0.00	0.00	0.00
8,700.0	8.00	37.58	8,638.4	706.0	543.3	-666.4	0.00	0.00	0.00
8,800.0	8.00	37.58	8,737.4	717.0	551.8	-676.8	0.00	0.00	0.00
8,900.0	8.00	37.58	8,836.4	728.1	560.2	-687.3	0.00	0.00	0.00
9,000.0	8.00	37.58	8,935.4	739.1	568.7	-697.7	0.00	0.00	0.00
9,100.0	8.00	37.58	9,034.5	750.1	577.2	-708.1	0.00	0.00	0.00
9,200.0	8.00	37.58	9,133.5	761.2	585.7	-718.5	0.00	0.00	0.00
9,300.0	8.00	37.58	9,232.5	772.2	594.2	-728.9	0.00	0.00	0.00
9,400.0	8.00	37.58	9,331.5	783.2	602.7	-739.3	0.00	0.00	0.00
Drop 2°/100'									
9,419.9	8.00	37.58	9,351.2	785.4	604.4	-741.4	0.00	0.00	0.00
9,500.0	6.40	37.58	9,430.7	793.4	610.5	-748.9	2.00	-2.00	0.00
9,600.0	4.40	37.58	9,530.3	800.8	616.2	-755.9	2.00	-2.00	0.00
9,700.0	2.40	37.58	9,630.1	805.5	619.8	-760.4	2.00	-2.00	0.00
9,800.0	0.40	37.58	9,730.0	807.5	621.3	-762.2	2.00	-2.00	0.00
EOD @ Vert									
9,820.0	0.00	0.00	9,750.0	807.5	621.4	-762.3	2.00	-2.00	0.00
9,900.0	0.00	0.00	9,830.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,930.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,030.0	807.5	621.4	-762.3	0.00	0.00	0.00



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Capitan 22301 33-4 State Com #23H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3926.0usft (Patterson #288)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3926.0usft (Patterson #288)
Site:	Sec 33, T16S, R36E	North Reference:	Grid
Well:	Capitan 22301 33-4 State Com #23H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.0	0.00	0.00	10,130.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,230.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,330.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,430.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,530.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,630.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,730.0	807.5	621.4	-762.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,830.0	807.5	621.4	-762.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,930.0	807.5	621.4	-762.3	0.00	0.00	0.00
Build 10°/100'									
11,073.1	0.00	0.00	11,003.1	807.5	621.4	-762.3	0.00	0.00	0.00
11,100.0	2.69	179.49	11,030.0	806.9	621.4	-761.6	10.02	10.02	0.00
11,150.0	7.69	179.49	11,079.8	802.4	621.4	-757.1	10.00	10.00	0.00
11,200.0	12.69	179.49	11,129.0	793.5	621.5	-748.3	10.00	10.00	0.00
11,250.0	17.69	179.49	11,177.2	780.4	621.6	-735.2	10.00	10.00	0.00
11,300.0	22.69	179.49	11,224.2	763.2	621.8	-718.0	10.00	10.00	0.00
11,350.0	27.69	179.49	11,269.4	741.9	622.0	-696.7	10.00	10.00	0.00
11,400.0	32.69	179.49	11,312.6	716.8	622.2	-671.6	10.00	10.00	0.00
11,450.0	37.69	179.49	11,353.4	687.9	622.4	-642.9	10.00	10.00	0.00
11,500.0	42.69	179.49	11,391.6	655.7	622.7	-610.7	10.00	10.00	0.00
11,550.0	47.69	179.49	11,426.8	620.2	623.0	-575.3	10.00	10.00	0.00
11,600.0	52.69	179.49	11,458.8	581.8	623.4	-537.0	10.00	10.00	0.00
11,650.0	57.69	179.49	11,487.4	540.8	623.8	-496.0	10.00	10.00	0.00
11,700.0	62.69	179.49	11,512.2	497.4	624.1	-452.7	10.00	10.00	0.00
11,750.0	67.69	179.49	11,533.2	452.0	624.5	-407.4	10.00	10.00	0.00
11,800.0	72.69	179.49	11,550.1	405.0	625.0	-360.5	10.00	10.00	0.00
11,850.0	77.69	179.49	11,562.9	356.7	625.4	-312.2	10.00	10.00	0.00
11,900.0	82.69	179.49	11,571.4	307.4	625.8	-263.1	10.00	10.00	0.00
11,950.0	87.69	179.49	11,575.6	257.6	626.3	-213.4	10.00	10.00	0.00
EOB @ 90.84° Inc									
11,981.5	90.84	179.49	11,576.0	226.2	626.6	-181.9	10.00	10.00	0.00
12,000.0	90.84	179.49	11,575.7	207.7	626.7	-163.5	0.00	0.00	0.00
12,100.0	90.84	179.49	11,574.3	107.7	627.6	-63.7	0.00	0.00	0.00
12,200.0	90.84	179.49	11,572.8	7.7	628.5	36.1	0.00	0.00	0.00
12,300.0	90.84	179.49	11,571.3	-92.3	629.4	136.0	0.00	0.00	0.00
12,400.0	90.84	179.49	11,569.8	-192.3	630.3	235.8	0.00	0.00	0.00
12,500.0	90.84	179.49	11,568.4	-292.3	631.2	335.6	0.00	0.00	0.00
12,600.0	90.84	179.49	11,566.9	-392.3	632.1	435.4	0.00	0.00	0.00
12,700.0	90.84	179.49	11,565.4	-492.2	633.0	535.2	0.00	0.00	0.00
12,800.0	90.84	179.49	11,563.9	-592.2	633.8	635.0	0.00	0.00	0.00
12,900.0	90.84	179.49	11,562.5	-692.2	634.7	734.8	0.00	0.00	0.00
13,000.2	90.84	179.49	11,561.0	-792.4	635.6	834.8	0.00	0.00	0.00
13,045.0	91.74	179.52	11,560.0	-837.2	636.0	879.5	2.00	2.00	0.07
13,100.0	91.74	179.52	11,558.3	-892.2	636.5	934.4	0.00	0.00	0.00
13,200.0	91.74	179.52	11,555.3	-992.1	637.3	1,034.1	0.00	0.00	0.00
13,300.0	91.74	179.52	11,552.3	-1,092.1	638.1	1,133.9	0.00	0.00	0.00
13,400.0	91.74	179.52	11,549.2	-1,192.0	639.0	1,233.7	0.00	0.00	0.00
13,500.0	91.74	179.52	11,546.2	-1,292.0	639.8	1,333.4	0.00	0.00	0.00
13,600.0	91.74	179.52	11,543.2	-1,391.9	640.7	1,433.2	0.00	0.00	0.00
13,700.0	91.74	179.52	11,540.1	-1,491.9	641.5	1,532.9	0.00	0.00	0.00
13,800.0	91.74	179.52	11,537.1	-1,591.8	642.3	1,632.7	0.00	0.00	0.00
13,900.0	91.74	179.52	11,534.1	-1,691.8	643.2	1,732.5	0.00	0.00	0.00
14,000.7	91.74	179.52	11,531.0	-1,792.4	644.0	1,832.9	0.00	0.00	0.00



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Capitan 22301 33-4 State Com #23H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3926.0usft (Patterson #288)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3926.0usft (Patterson #288)
Site:	Sec 33, T16S, R36E	North Reference:	Grid
Well:	Capitan 22301 33-4 State Com #23H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,060.7	90.54	179.52	11,529.8	-1,852.4	644.5	1,892.9	2.00	-2.00	0.00
14,100.0	90.54	179.52	11,529.4	-1,891.7	644.9	1,932.0	0.00	0.00	0.00
14,200.0	90.54	179.52	11,528.5	-1,991.7	645.7	2,031.9	0.00	0.00	0.00
14,300.0	90.54	179.52	11,527.6	-2,091.7	646.5	2,131.7	0.00	0.00	0.00
14,400.0	90.54	179.52	11,526.6	-2,191.7	647.4	2,231.5	0.00	0.00	0.00
14,500.0	90.54	179.52	11,525.7	-2,291.7	648.2	2,331.3	0.00	0.00	0.00
14,600.0	90.54	179.52	11,524.8	-2,391.7	649.1	2,431.1	0.00	0.00	0.00
14,700.0	90.54	179.52	11,523.8	-2,491.6	649.9	2,530.9	0.00	0.00	0.00
14,800.0	90.54	179.52	11,522.9	-2,591.6	650.7	2,630.7	0.00	0.00	0.00
14,900.0	90.54	179.52	11,521.9	-2,691.6	651.6	2,730.5	0.00	0.00	0.00
15,000.7	90.54	179.52	11,521.0	-2,792.3	652.4	2,831.0	0.00	0.00	0.00
15,042.8	89.70	179.52	11,520.9	-2,834.4	652.8	2,873.0	2.00	-2.00	0.00
15,100.0	89.70	179.52	11,521.2	-2,891.6	653.2	2,930.1	0.00	0.00	0.00
15,200.0	89.70	179.52	11,521.7	-2,991.6	654.1	3,029.9	0.00	0.00	0.00
15,300.0	89.70	179.52	11,522.3	-3,091.6	654.9	3,129.7	0.00	0.00	0.00
15,400.0	89.70	179.52	11,522.8	-3,191.6	655.8	3,229.6	0.00	0.00	0.00
15,500.0	89.70	179.52	11,523.3	-3,291.6	656.6	3,329.4	0.00	0.00	0.00
15,600.0	89.70	179.52	11,523.9	-3,391.6	657.4	3,429.2	0.00	0.00	0.00
15,700.0	89.70	179.52	11,524.4	-3,491.6	658.3	3,529.0	0.00	0.00	0.00
15,800.0	89.70	179.52	11,524.9	-3,591.6	659.1	3,628.8	0.00	0.00	0.00
15,900.0	89.70	179.52	11,525.5	-3,691.6	660.0	3,728.6	0.00	0.00	0.00
16,000.7	89.70	179.52	11,526.0	-3,792.3	660.8	3,829.1	0.00	0.00	0.00
16,014.3	89.43	179.52	11,526.1	-3,805.8	660.9	3,842.6	2.00	-2.00	0.00
16,100.0	89.43	179.52	11,527.0	-3,891.6	661.6	3,928.2	0.00	0.00	0.00
16,200.0	89.43	179.52	11,528.0	-3,991.6	662.5	4,028.0	0.00	0.00	0.00
16,300.0	89.43	179.52	11,529.0	-4,091.5	663.3	4,127.8	0.00	0.00	0.00
16,400.0	89.43	179.52	11,530.0	-4,191.5	664.2	4,227.6	0.00	0.00	0.00
16,500.0	89.43	179.52	11,531.0	-4,291.5	665.0	4,327.4	0.00	0.00	0.00
16,600.0	89.43	179.52	11,532.0	-4,391.5	665.8	4,427.3	0.00	0.00	0.00
16,700.0	89.43	179.52	11,533.0	-4,491.5	666.7	4,527.1	0.00	0.00	0.00
16,800.0	89.43	179.52	11,534.0	-4,591.5	667.5	4,626.9	0.00	0.00	0.00
16,900.0	89.43	179.52	11,535.0	-4,691.5	668.4	4,726.7	0.00	0.00	0.00
17,000.8	89.43	179.52	11,536.0	-4,792.3	669.2	4,827.3	0.00	0.00	0.00
17,090.9	91.23	179.52	11,535.5	-4,882.3	670.0	4,917.2	2.00	2.00	0.00
17,100.0	91.23	179.52	11,535.3	-4,891.5	670.0	4,926.3	0.00	0.00	0.00
17,200.0	91.23	179.52	11,533.2	-4,991.5	670.9	5,026.1	0.00	0.00	0.00
17,300.0	91.23	179.52	11,531.0	-5,091.4	671.7	5,125.9	0.00	0.00	0.00
17,400.0	91.23	179.52	11,528.9	-5,191.4	672.6	5,225.7	0.00	0.00	0.00
17,500.0	91.23	179.52	11,526.7	-5,291.4	673.4	5,325.4	0.00	0.00	0.00
17,600.0	91.23	179.52	11,524.6	-5,391.3	674.2	5,425.2	0.00	0.00	0.00
17,700.0	91.23	179.52	11,522.4	-5,491.3	675.1	5,525.0	0.00	0.00	0.00
17,800.0	91.23	179.52	11,520.3	-5,591.3	675.9	5,624.8	0.00	0.00	0.00
17,900.0	91.23	179.52	11,518.2	-5,691.3	676.8	5,724.6	0.00	0.00	0.00
18,001.0	91.23	179.52	11,516.0	-5,792.2	677.6	5,825.4	0.00	0.00	0.00
18,019.5	90.86	179.52	11,515.7	-5,810.8	677.8	5,843.9	2.00	-2.00	0.00
18,100.0	90.86	179.52	11,514.5	-5,891.2	678.4	5,924.2	0.00	0.00	0.00
18,200.0	90.86	179.52	11,513.0	-5,991.2	679.3	6,024.0	0.00	0.00	0.00
18,300.0	90.86	179.52	11,511.5	-6,091.2	680.1	6,123.8	0.00	0.00	0.00
18,400.0	90.86	179.52	11,510.0	-6,191.2	680.9	6,223.6	0.00	0.00	0.00
18,500.0	90.86	179.52	11,508.5	-6,291.2	681.8	6,323.4	0.00	0.00	0.00
18,600.0	90.86	179.52	11,507.0	-6,391.1	682.6	6,423.2	0.00	0.00	0.00
18,700.0	90.86	179.52	11,505.5	-6,491.1	683.5	6,523.0	0.00	0.00	0.00
18,800.0	90.86	179.52	11,504.0	-6,591.1	684.3	6,622.8	0.00	0.00	0.00
18,900.0	90.86	179.52	11,502.5	-6,691.1	685.1	6,722.6	0.00	0.00	0.00



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Capitan 22301 33-4 State Com #23H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3926.0usft (Patterson #288)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3926.0usft (Patterson #288)
Site:	Sec 33, T16S, R36E	North Reference:	Grid
Well:	Capitan 22301 33-4 State Com #23H	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)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,001.1	90.86	179.52	11,501.0	-6,792.2	686.0	6,823.5	0.00	0.00	0.00
19,015.7	91.15	179.52	11,500.7	-6,806.8	686.1	6,838.1	2.00	2.00	0.00
19,100.0	91.15	179.52	11,499.1	-6,891.1	686.8	6,922.2	0.00	0.00	0.00
19,200.0	91.15	179.52	11,497.1	-6,991.0	687.7	7,022.0	0.00	0.00	0.00
19,300.0	91.15	179.52	11,495.0	-7,091.0	688.5	7,121.8	0.00	0.00	0.00
19,400.0	91.15	179.52	11,493.0	-7,191.0	689.3	7,221.6	0.00	0.00	0.00
19,500.0	91.15	179.52	11,491.0	-7,291.0	690.2	7,321.3	0.00	0.00	0.00
19,600.0	91.15	179.52	11,489.0	-7,391.0	691.0	7,421.1	0.00	0.00	0.00
19,700.0	91.15	179.52	11,487.0	-7,490.9	691.9	7,520.9	0.00	0.00	0.00
19,800.0	91.15	179.52	11,485.0	-7,590.9	692.7	7,620.7	0.00	0.00	0.00
19,900.0	91.15	179.52	11,483.0	-7,690.9	693.5	7,720.5	0.00	0.00	0.00
20,001.3	91.15	179.52	11,481.0	-7,792.2	694.4	7,821.6	0.00	0.00	0.00
20,100.0	91.15	179.52	11,479.0	-7,890.8	695.2	7,920.1	0.00	0.00	0.00
20,200.0	91.15	179.52	11,477.0	-7,990.8	696.1	8,019.9	0.00	0.00	0.00
20,300.0	91.15	179.52	11,475.0	-8,090.8	696.9	8,119.7	0.00	0.00	0.00
20,400.0	91.15	179.52	11,473.0	-8,190.8	697.7	8,219.5	0.00	0.00	0.00
20,500.0	91.15	179.52	11,471.0	-8,290.7	698.6	8,319.3	0.00	0.00	0.00
20,600.0	91.15	179.52	11,469.0	-8,390.7	699.4	8,419.1	0.00	0.00	0.00
20,700.0	91.15	179.52	11,467.0	-8,490.7	700.3	8,518.8	0.00	0.00	0.00
20,800.0	91.15	179.52	11,465.0	-8,590.7	701.1	8,618.6	0.00	0.00	0.00
20,900.0	91.15	179.52	11,463.0	-8,690.6	701.9	8,718.4	0.00	0.00	0.00
21,001.3	91.15	179.52	11,461.0	-8,791.9	702.8	8,819.5	0.00	0.00	0.00
21,045.0	92.02	179.52	11,459.8	-8,835.6	703.1	8,863.1	2.00	2.00	0.00
21,100.0	92.02	179.52	11,457.8	-8,890.6	703.6	8,918.0	0.00	0.00	0.00
21,200.0	92.02	179.52	11,454.3	-8,990.5	704.4	9,017.7	0.00	0.00	0.00
21,300.0	92.02	179.52	11,450.8	-9,090.4	705.3	9,117.5	0.00	0.00	0.00
21,400.0	92.02	179.52	11,447.2	-9,190.4	706.1	9,217.2	0.00	0.00	0.00
21,500.0	92.02	179.52	11,443.7	-9,290.3	707.0	9,317.0	0.00	0.00	0.00
21,600.0	92.02	179.52	11,440.2	-9,390.2	707.8	9,416.7	0.00	0.00	0.00
21,700.0	92.02	179.52	11,436.7	-9,490.2	708.6	9,516.5	0.00	0.00	0.00
21,800.0	92.02	179.52	11,433.1	-9,590.1	709.5	9,616.2	0.00	0.00	0.00
21,900.0	92.02	179.52	11,429.6	-9,690.0	710.3	9,716.0	0.00	0.00	0.00
22,002.1	92.02	179.52	11,426.0	-9,792.1	711.2	9,817.8	0.00	0.00	0.00
22,037.8	91.32	179.63	11,425.0	-9,827.7	711.4	9,853.4	2.00	-1.98	0.30
22,100.0	91.32	179.63	11,423.5	-9,889.9	711.8	9,915.5	0.00	0.00	0.00
22,200.0	91.32	179.63	11,421.2	-9,989.9	712.5	10,015.3	0.00	0.00	0.00
22,300.0	91.32	179.63	11,418.9	-10,089.9	713.1	10,115.0	0.00	0.00	0.00
22,400.0	91.32	179.63	11,416.6	-10,189.9	713.8	10,214.8	0.00	0.00	0.00
TD @ 22428' MD / 11416' TVD									
22,427.8	91.32	179.63	11,416.0	-10,217.6	714.0	10,242.6	0.00	0.00	0.00



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well Capitan 22301 33-4 State Com #23H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3926.0usft (Patterson #288)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3926.0usft (Patterson #288)
Site:	Sec 33, T16S, R36E	North Reference:	Grid
Well:	Capitan 22301 33-4 State Com #23H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
VP Capitan 23H - plan hits target center - Point	0.00	0.00	9,750.0	807.5	621.4	687,857.57	839,241.24	32° 53' 13.824 N	103° 21' 46.350 W
PBHL Capitan 23H - plan hits target center - Point	0.00	0.00	11,416.0	-10,217.7	714.0	676,832.36	839,333.84	32° 51' 24.737 N	103° 21' 46.453 W
T10 Capitan 23H - plan hits target center - Point	0.00	0.00	11,426.0	-9,792.1	711.2	677,257.95	839,331.04	32° 51' 28.947 N	103° 21' 46.440 W
T9 Capitan 23H - plan hits target center - Point	0.00	0.00	11,461.0	-8,792.1	702.8	678,257.91	839,322.64	32° 51' 38.842 N	103° 21' 46.431 W
T8 Capitan 23H - plan hits target center - Point	0.00	0.00	11,481.0	-7,792.2	694.4	679,257.88	839,314.25	32° 51' 48.736 N	103° 21' 46.421 W
T7 Capitan 23H - plan hits target center - Point	0.00	0.00	11,501.0	-6,792.2	686.0	680,257.84	839,305.85	32° 51' 58.630 N	103° 21' 46.412 W
T6 Capitan 23H - plan hits target center - Point	0.00	0.00	11,516.0	-5,792.2	677.6	681,257.81	839,297.46	32° 52' 8.524 N	103° 21' 46.403 W
T3 Capitan 23H - plan hits target center - Point	0.00	0.00	11,521.0	-2,792.3	652.4	684,257.70	839,272.27	32° 52' 38.206 N	103° 21' 46.374 W
T4 Capitan 23H - plan hits target center - Point	0.00	0.00	11,526.0	-3,792.3	660.8	683,257.74	839,280.67	32° 52' 28.312 N	103° 21' 46.384 W
T2 Capitan 23H - plan hits target center - Point	0.00	0.00	11,531.0	-1,792.4	644.0	685,257.67	839,263.88	32° 52' 48.100 N	103° 21' 46.365 W
T5 Capitan 23H - plan hits target center - Point	0.00	0.00	11,536.0	-4,792.3	669.2	682,257.77	839,289.06	32° 52' 18.418 N	103° 21' 46.393 W
T1 Capitan 23H - plan hits target center - Point	0.00	0.00	11,561.0	-792.4	635.6	686,257.63	839,255.48	32° 52' 57.994 N	103° 21' 46.356 W

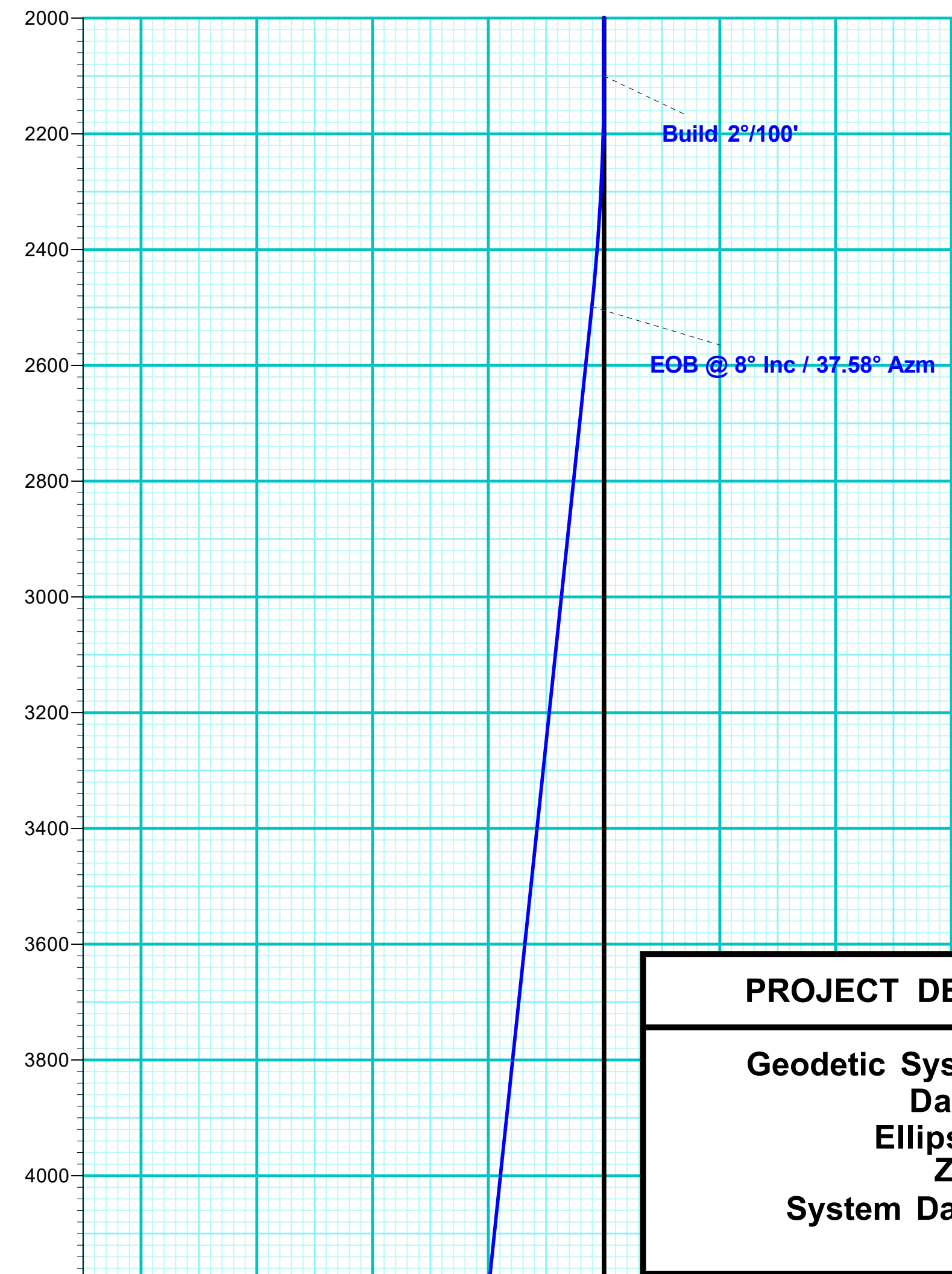
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,100.0	2,100.0	0.0	0.0	Build 2°/100'
2,500.0	2,498.7	22.1	17.0	EOB @ 8° Inc / 37.58° Azm
9,419.9	9,351.2	785.4	604.4	Drop 2°/100'
9,820.0	9,750.0	807.5	621.4	EOD @ Vert
11,073.1	11,003.1	807.5	621.4	Build 10°/100'
11,981.5	11,576.0	226.2	626.6	EOB @ 90.84° Inc
22,427.8	11,416.0	-10,217.6	714.0	TD @ 22428' MD / 11416' TVD

Company Name: BTA Oil Producers, LLC
Capitan 22301 33-4 State Com #23H
Lea County, NM (NAD 83)
Rig: Patterson #288
Created By: Shane Robbins
Date: 12/10/2024

Capitan 22301 33-4 State Com #23H
Lea County, NM (NAD 83)
Q240*** & WT-240***
Design #1

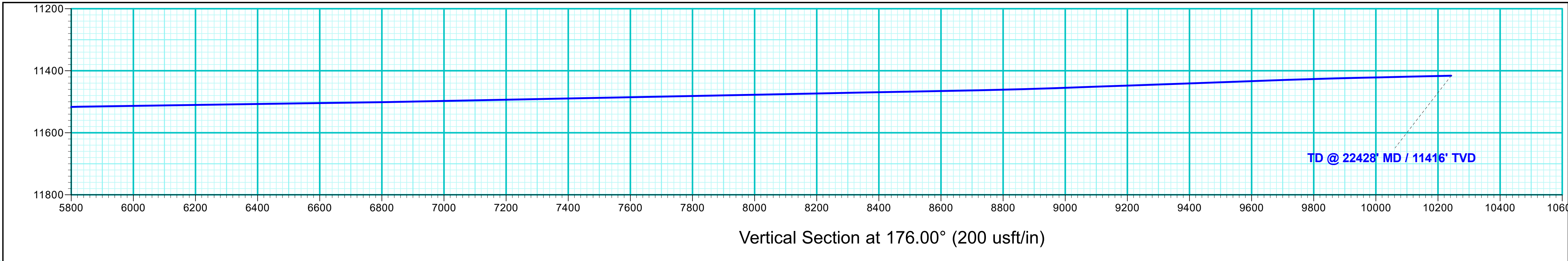
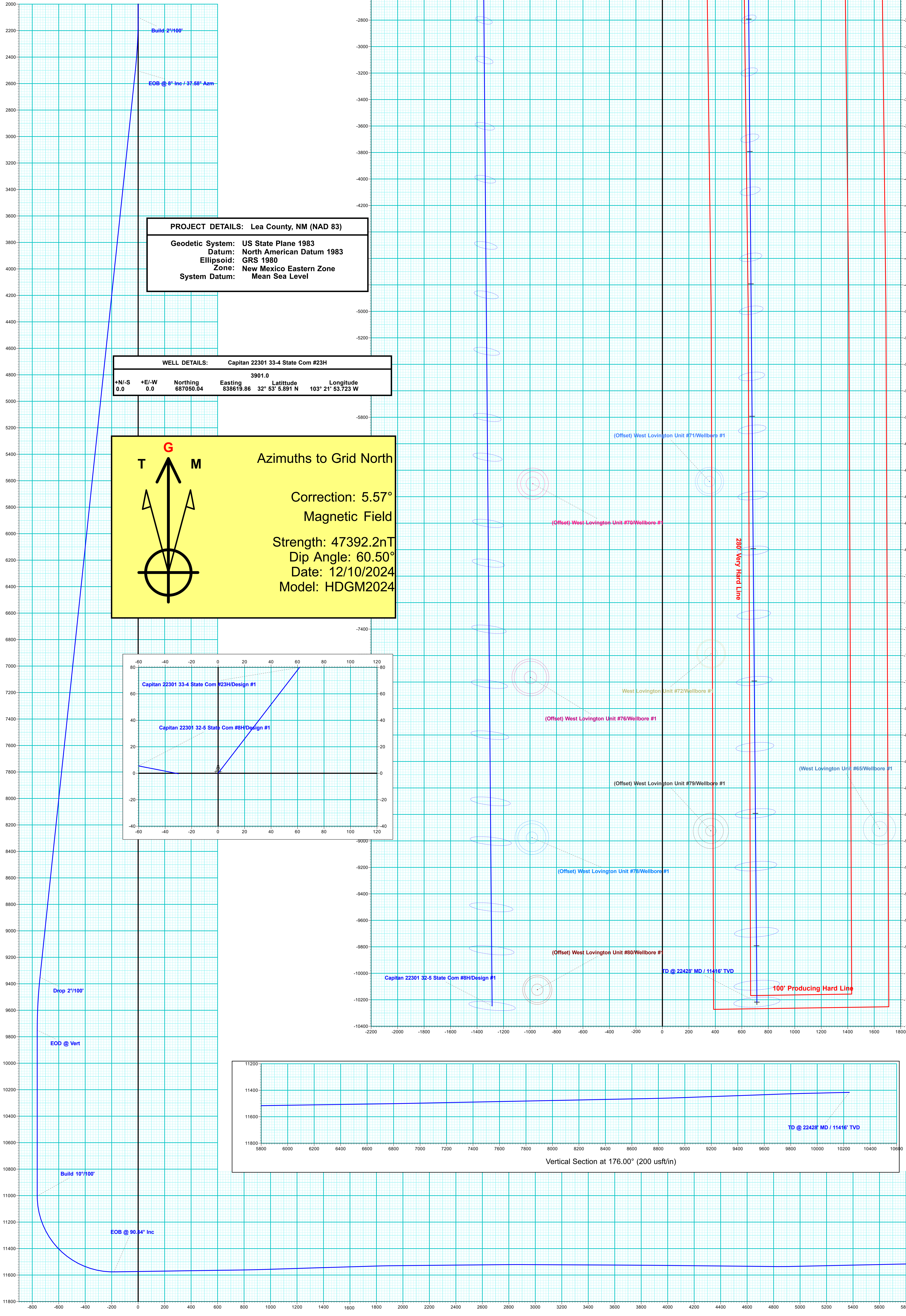
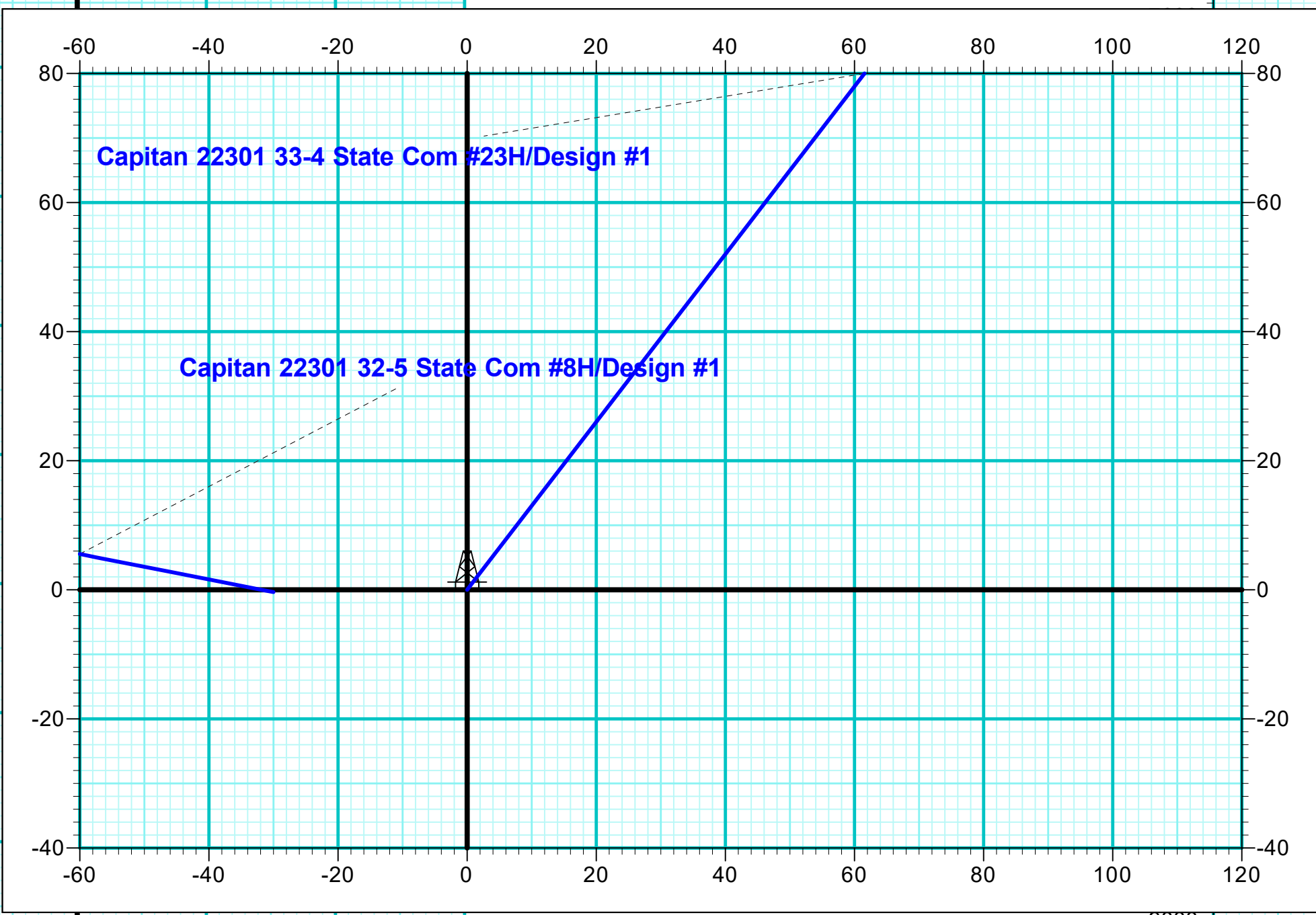
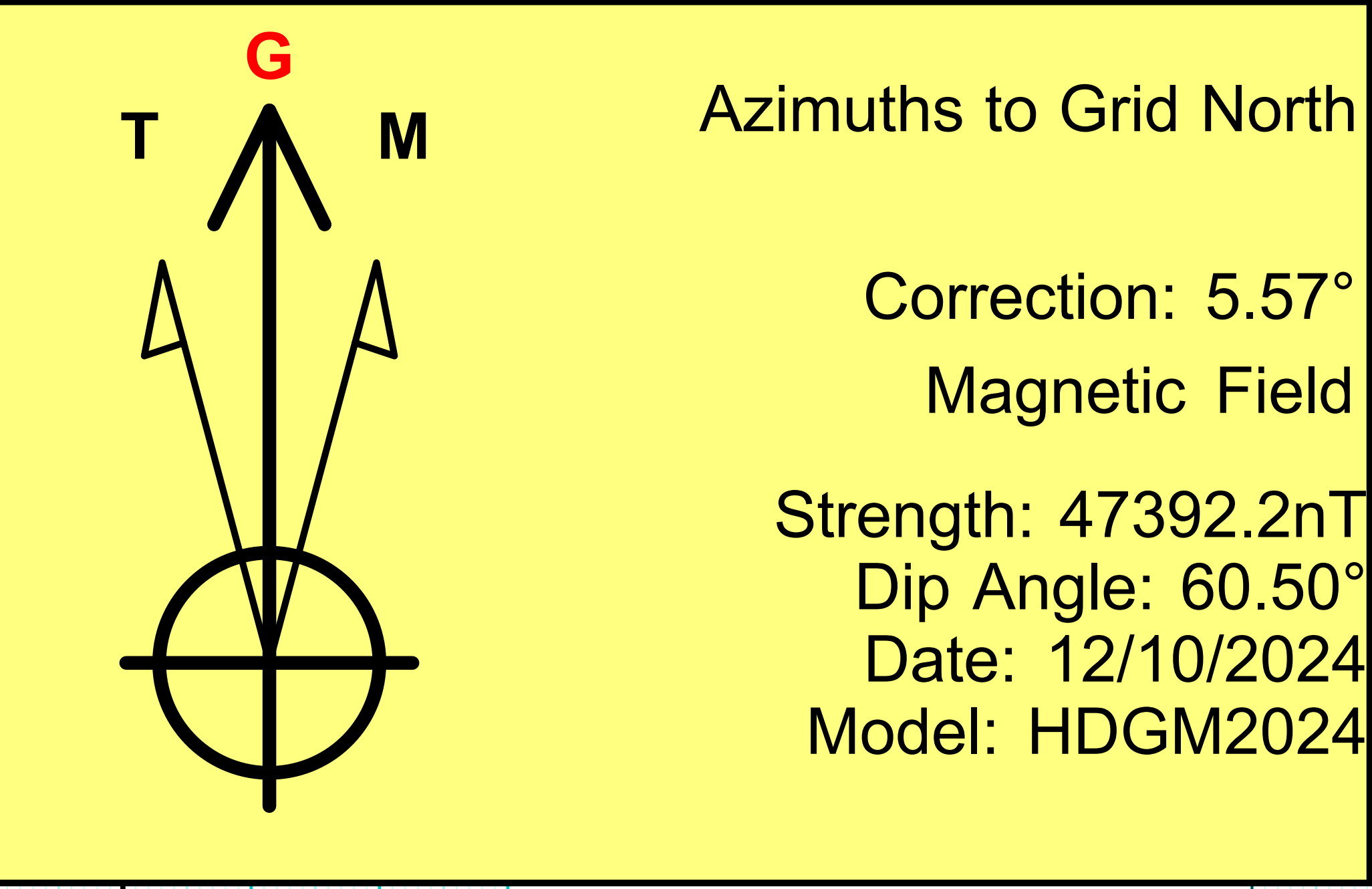


ANNOTATIONS									
MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation	
2100.0	0.00	0.00	2100.0	0.0	0.0	0.0	0.0	Build 2°/100'	
2500.0	8.00	37.58	2498.7	22.1	17.0	-20.9	27.9	EOB @ 8° Inc / 37.58° Azm	
9419.9	8.00	37.58	9351.2	785.4	604.4	-741.4	991.0	Drop 2°/100'	
9820.0	0.00	0.00	9750.0	807.5	621.4	-762.3	1018.9	EOD @ Vert	
11073.1	0.00	0.00	11003.1	807.5	621.4	-762.3	1018.9	Build 10°/100'	
11981.5	90.84	179.49	11576.0	226.2	626.6	-181.9	1600.3	EOB @ 90.84° Inc	
22427.8	91.32	179.63	11416.0	-10217.6	714.0	10242.6	12044.5	TD @ 22428' MD / 11416' TVD	



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: Mean Sea Level

WELL DETAILS: Capitan 22301 33-4 State Com #23H						
+N-S	+E-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	687050.04	838619.86	32° 53' 5.891 N	103° 21' 53.723 W	3901.0



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: BTA Oil Producers, LLC **OGRID:** 260297 **Date:** 12 / 3 / 2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
CAPITAN 22301 33-4		D-33-16S-36E	300 FNL, 1020 FWL	+/- 800	+/- 2000	+/- 1200
STATE COM 23H						

IV. Central Delivery Point Name: Capitan CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
CAPITAN 22301 33-4		2/3/2025	2/23/2025	3/9/2025	3/30/2025	4/29/2025
STATE COM 23H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Sammy Hajar
Title: Regulatory Analyst
E-mail Address: SHAJAR@BTAOIL.COM
Date: 12/3/2024
Phone: 432-682-3753
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Separation equipment will allow for adequate retention time to allow gas and liquids to separate.
- Separation equipment will utilize air power pneumatic dump controllers and ventless pressure control valves.
- Separation equipment will separate all three phases (Oil, Water, and Gas).
- Storage tanks will utilize blanket gas and vapor recovery systems to moderate tank pressures and capture gas from storage tanks.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities that produce more than 60 MCFD.
- All facilities will be inspected with an Optical Gas Imaging Thermographer Camera quarterly to find and repair fugitive emissions.
- Leaking thief hatches and pressure safety valves found during AVOs will be cleaned and properly re-sealed.

- All flares will be equipped with continuous pilot system and air assist systems that will ensure the flare burns efficiently.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All gas lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- All gas will have multiple points of separation to ensure no liquids enter flares, combustors, or gas sales line.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 MCFD.
- All OOOOa facilities will be filmed with an Optical Gas Imaging Thermographer camera once per month to check for fugitive emissions.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- All meters will be calibrated at regular intervals according to meter manufacturer recommendations.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, BTA will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.