

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name	
2. Name of Operator BTA OIL PRODUCERS		7. If Unit or CA/Agreement, Name and/or No.	
3a. Address 104 SOUTH PECOS STREET MIDLAND, TX 79701		8. Well Name and No. ROJO B 7811 JV P COM 2H	
3b. Phone No. (include area code) Ph: 432-682-3753 Ext: 106		9. API Well No. 30-025-42898	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T25S R33E NWNW 210FNL 1254FWL		10. Field and Pool or Exploratory Area RED HILLS	
		11. County or Parish, State LEA COUNTY COUNTY, NM	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BTA Oil Producers, LLC respectfully request the following changes to the original APD as approved:

Bottom Hole Location
Current - BHL 330' FSL & 1254' FWL
Change - BHL 200' FSL & 400' FWLTotal Measured Depth
Current - MD 13,878'
Change - MD 14,197'5.5" Casing
Current - Setting Depth - 13,878'

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #383043 verified by the BLM Well Information System
For BTA OIL PRODUCERS, sent to the Hobbs
Committed to AFMSS for processing by MUSTAFA HAQUE on 08/01/2017 ()

Name (Printed/Typed) KAYLA MCCONNELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 07/28/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE

Title

PETROLEUM ENGINEER

Date 8-2-2017

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Additional data for EC transaction #383043 that would not fit on the form

32. Additional remarks, continued

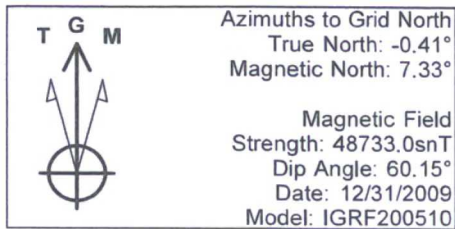
Change - Setting Depth - 14,197'

Attached:

Amended C-102 Location Plat

Amended Directional Drilling Plan

- All previous COAs still apply. Additional COA is not required.

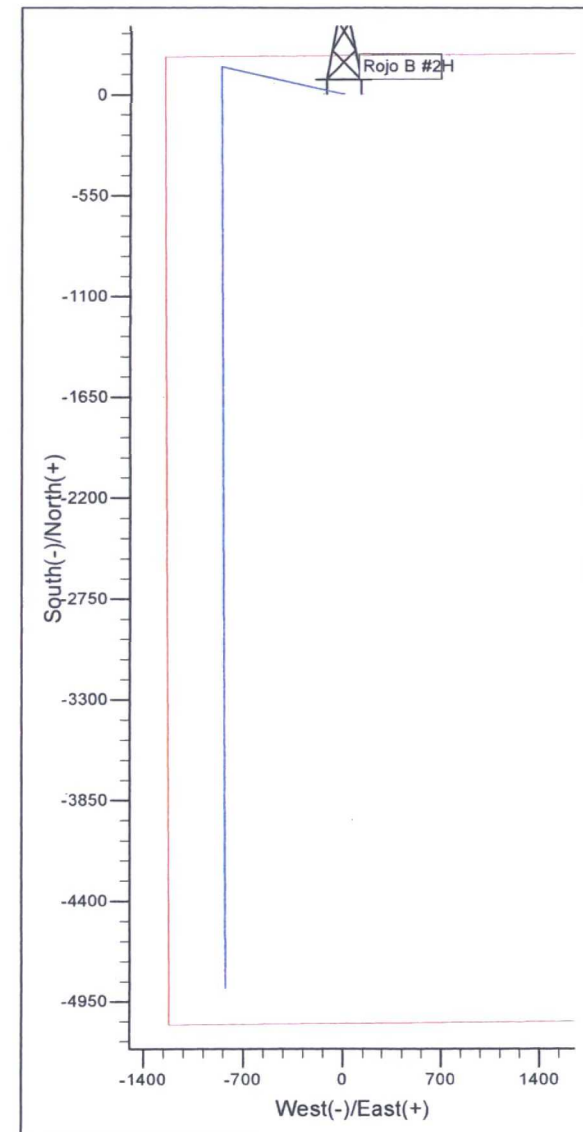
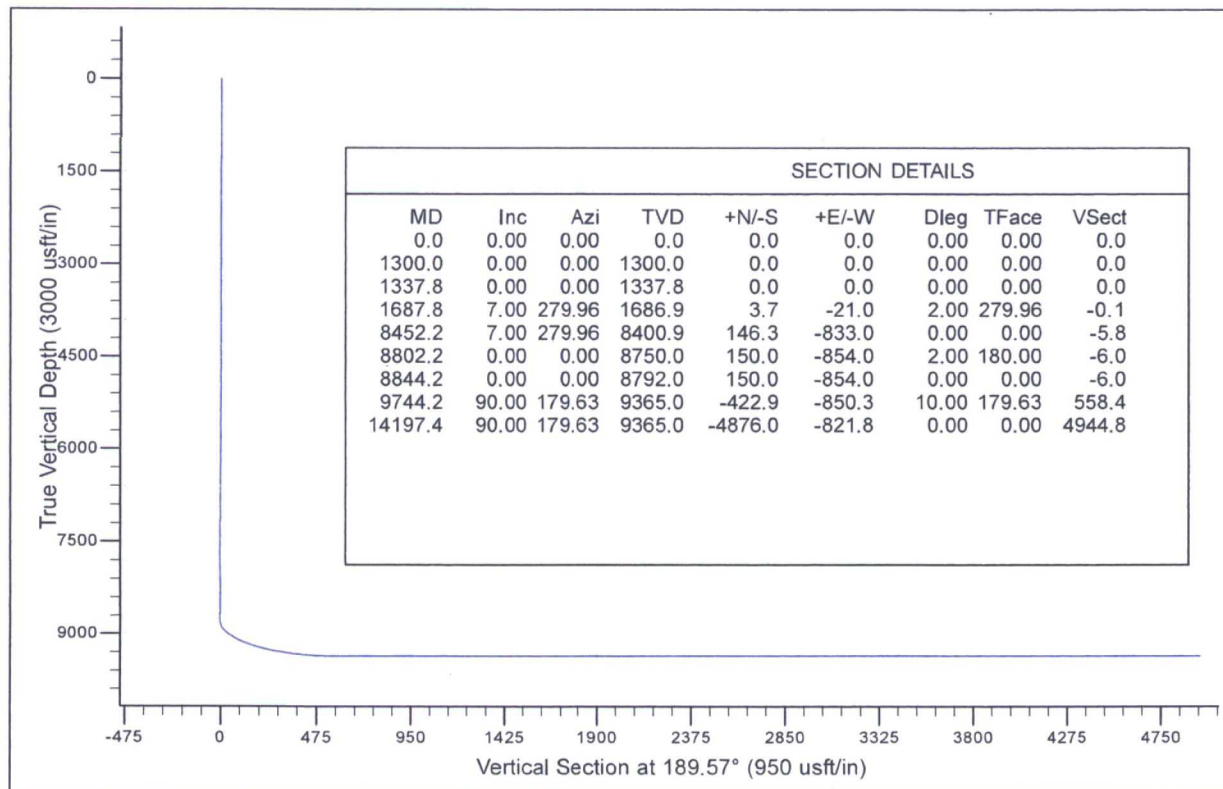


WELL DETAILS: Rojo B #2H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	409173.60	738093.2032° 7' 21.3561" E	33° 33' 51.345 W	
Ground Level: 3374.0					

SITE DETAILS: Rojo	
Site Centre Northing:	399019.90
Easting:	741892.00
Positional Uncertainty:	0.0
Convergence:	0.42
Local North:	Grid

BTA Oil Producers, LLC

PROJECT DETAILS: Lea County, NM (NAD 27)	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Ground Level



BTA Oil Producers, LLC

Lea County, NM (NAD 27)

Rojo

Rojo B #2H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

27 June, 2017

BTA

Planning Report - Geographic

Database: EDM 5000.1 Single User Db
Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 27)
Site: Rojo
Well: Rojo B #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Rojo B #2H
TVD Reference: KB @ 3400.0usft (Nomac 94)
MD Reference: KB @ 3400.0usft (Nomac 94)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27), Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	Rojo				
Site Position:		Northing:	399,019.90 usft	Latitude:	32° 5' 40.608 N
From:	Map	Easting:	741,892.00 usft	Longitude:	103° 33' 8.030 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	Rojo B #2H					
Well Position	+N/-S	0.0 usft	Northing:	409,173.60 usft	Latitude:	32° 7' 21.356 N
	+E/-W	0.0 usft	Easting:	738,093.20 usft	Longitude:	103° 33' 51.345 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,374.0 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.74	60.15	48,733

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	189.57	

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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,337.8	0.00	0.00	1,337.8	0.0	0.0	0.00	0.00	0.00	0.00	
1,687.8	7.00	279.96	1,686.9	3.7	-21.0	2.00	2.00	0.00	279.96	
8,452.2	7.00	279.96	8,400.9	146.3	-833.0	0.00	0.00	0.00	0.00	
8,802.2	0.00	0.00	8,750.0	150.0	-854.0	2.00	-2.00	0.00	180.00	
8,844.2	0.00	0.00	8,792.0	150.0	-854.0	0.00	0.00	0.00	0.00	
9,744.2	90.00	179.63	9,365.0	-422.9	-850.3	10.00	10.00	0.00	179.63	
14,197.4	90.00	179.63	9,365.0	-4,876.0	-821.8	0.00	0.00	0.00	0.00	Rojo B #2H BHL

BTA

Planning Report - Geographic

Database: EDM 5000.1 Single User Db
Company: BTA Oil Producers, LLC
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Site: Rojo
Well: Rojo B #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Rojo B #2H
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MD Reference: KB @ 3400.0usft (Nomac 94)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
100.0	0.00	0.00	100.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
200.0	0.00	0.00	200.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
300.0	0.00	0.00	300.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
400.0	0.00	0.00	400.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
500.0	0.00	0.00	500.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
600.0	0.00	0.00	600.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
700.0	0.00	0.00	700.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
800.0	0.00	0.00	800.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
900.0	0.00	0.00	900.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
1,337.8	0.00	0.00	1,337.8	0.0	0.0	409,173.60	738,093.20	32° 7' 21.356 N	103° 33' 51.345 W
1,400.0	1.24	279.96	1,400.0	0.1	-0.7	409,173.72	738,092.53	32° 7' 21.357 N	103° 33' 51.353 W
1,500.0	3.24	279.96	1,499.9	0.8	-4.5	409,174.39	738,088.68	32° 7' 21.364 N	103° 33' 51.398 W
1,600.0	5.24	279.96	1,599.6	2.1	-11.8	409,175.67	738,081.39	32° 7' 21.377 N	103° 33' 51.483 W
1,687.8	7.00	279.96	1,686.9	3.7	-21.0	409,177.29	738,072.17	32° 7' 21.394 N	103° 33' 51.590 W
1,700.0	7.00	279.96	1,699.0	4.0	-22.5	409,177.55	738,070.70	32° 7' 21.396 N	103° 33' 51.607 W
1,800.0	7.00	279.96	1,798.3	6.1	-34.5	409,179.66	738,058.70	32° 7' 21.418 N	103° 33' 51.746 W
1,900.0	7.00	279.96	1,897.5	8.2	-46.5	409,181.77	738,046.70	32° 7' 21.440 N	103° 33' 51.885 W
2,000.0	7.00	279.96	1,996.8	10.3	-58.5	409,183.87	738,034.69	32° 7' 21.462 N	103° 33' 52.025 W
2,100.0	7.00	279.96	2,096.1	12.4	-70.5	409,185.98	738,022.69	32° 7' 21.483 N	103° 33' 52.164 W
2,200.0	7.00	279.96	2,195.3	14.5	-82.5	409,188.09	738,010.69	32° 7' 21.505 N	103° 33' 52.304 W
2,300.0	7.00	279.96	2,294.6	16.6	-94.5	409,190.20	737,998.69	32° 7' 21.527 N	103° 33' 52.443 W
2,400.0	7.00	279.96	2,393.8	18.7	-106.5	409,192.31	737,986.68	32° 7' 21.548 N	103° 33' 52.582 W
2,500.0	7.00	279.96	2,493.1	20.8	-118.5	409,194.42	737,974.68	32° 7' 21.570 N	103° 33' 52.722 W
2,600.0	7.00	279.96	2,592.3	22.9	-130.5	409,196.52	737,962.68	32° 7' 21.592 N	103° 33' 52.861 W
2,700.0	7.00	279.96	2,691.6	25.0	-142.5	409,198.63	737,950.67	32° 7' 21.614 N	103° 33' 53.001 W
2,800.0	7.00	279.96	2,790.8	27.1	-154.5	409,200.74	737,938.67	32° 7' 21.635 N	103° 33' 53.140 W
2,900.0	7.00	279.96	2,890.1	29.3	-166.5	409,202.85	737,926.67	32° 7' 21.657 N	103° 33' 53.279 W
3,000.0	7.00	279.96	2,989.3	31.4	-178.5	409,204.96	737,914.67	32° 7' 21.679 N	103° 33' 53.419 W
3,100.0	7.00	279.96	3,088.6	33.5	-190.5	409,207.07	737,902.66	32° 7' 21.700 N	103° 33' 53.558 W
3,200.0	7.00	279.96	3,187.9	35.6	-202.5	409,209.17	737,890.66	32° 7' 21.722 N	103° 33' 53.698 W
3,300.0	7.00	279.96	3,287.1	37.7	-214.5	409,211.28	737,878.66	32° 7' 21.744 N	103° 33' 53.837 W
3,400.0	7.00	279.96	3,386.4	39.8	-226.5	409,213.39	737,866.65	32° 7' 21.765 N	103° 33' 53.976 W
3,500.0	7.00	279.96	3,485.6	41.9	-238.6	409,215.50	737,854.65	32° 7' 21.787 N	103° 33' 54.116 W
3,600.0	7.00	279.96	3,584.9	44.0	-250.6	409,217.61	737,842.65	32° 7' 21.809 N	103° 33' 54.255 W
3,700.0	7.00	279.96	3,684.1	46.1	-262.6	409,219.71	737,830.65	32° 7' 21.831 N	103° 33' 54.394 W
3,800.0	7.00	279.96	3,783.4	48.2	-274.6	409,221.82	737,818.64	32° 7' 21.852 N	103° 33' 54.534 W
3,900.0	7.00	279.96	3,882.6	50.3	-286.6	409,223.93	737,806.64	32° 7' 21.874 N	103° 33' 54.673 W
4,000.0	7.00	279.96	3,981.9	52.4	-298.6	409,226.04	737,794.64	32° 7' 21.896 N	103° 33' 54.813 W
4,100.0	7.00	279.96	4,081.1	54.5	-310.6	409,228.15	737,782.63	32° 7' 21.917 N	103° 33' 54.952 W
4,200.0	7.00	279.96	4,180.4	56.7	-322.6	409,230.26	737,770.63	32° 7' 21.939 N	103° 33' 55.091 W
4,300.0	7.00	279.96	4,279.7	58.8	-334.6	409,232.36	737,758.63	32° 7' 21.961 N	103° 33' 55.231 W
4,400.0	7.00	279.96	4,378.9	60.9	-346.6	409,234.47	737,746.63	32° 7' 21.983 N	103° 33' 55.370 W
4,500.0	7.00	279.96	4,478.2	63.0	-358.6	409,236.58	737,734.62	32° 7' 22.004 N	103° 33' 55.510 W
4,600.0	7.00	279.96	4,577.4	65.1	-370.6	409,238.69	737,722.62	32° 7' 22.026 N	103° 33' 55.649 W
4,700.0	7.00	279.96	4,676.7	67.2	-382.6	409,240.80	737,710.62	32° 7' 22.048 N	103° 33' 55.788 W
4,800.0	7.00	279.96	4,775.9	69.3	-394.6	409,242.91	737,698.61	32° 7' 22.069 N	103° 33' 55.928 W
4,900.0	7.00	279.96	4,875.2	71.4	-406.6	409,245.01	737,686.61	32° 7' 22.091 N	103° 33' 56.067 W
5,000.0	7.00	279.96	4,974.4	73.5	-418.6	409,247.12	737,674.61	32° 7' 22.113 N	103° 33' 56.207 W
5,100.0	7.00	279.96	5,073.7	75.6	-430.6	409,249.23	737,662.61	32° 7' 22.135 N	103° 33' 56.346 W
5,200.0	7.00	279.96	5,173.0	77.7	-442.6	409,251.34	737,650.60	32° 7' 22.156 N	103° 33' 56.485 W

BTA

Planning Report - Geographic

Database: EDM 5000.1 Single User Db
Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 27)
Site: Rojo
Well: Rojo B #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Rojo B #2H
TVD Reference: KB @ 3400.0usft (Nomac 94)
MD Reference: KB @ 3400.0usft (Nomac 94)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,300.0	7.00	279.96	5,272.2	79.8	-454.6	409,253.45	737,638.60	32° 7' 22.178 N	103° 33' 56.625 W
5,400.0	7.00	279.96	5,371.5	82.0	-466.6	409,255.55	737,626.60	32° 7' 22.200 N	103° 33' 56.764 W
5,500.0	7.00	279.96	5,470.7	84.1	-478.6	409,257.66	737,614.59	32° 7' 22.221 N	103° 33' 56.903 W
5,600.0	7.00	279.96	5,570.0	86.2	-490.6	409,259.77	737,602.59	32° 7' 22.243 N	103° 33' 57.043 W
5,700.0	7.00	279.96	5,669.2	88.3	-502.6	409,261.88	737,590.59	32° 7' 22.265 N	103° 33' 57.182 W
5,800.0	7.00	279.96	5,768.5	90.4	-514.6	409,263.99	737,578.59	32° 7' 22.286 N	103° 33' 57.322 W
5,900.0	7.00	279.96	5,867.7	92.5	-526.6	409,266.10	737,566.58	32° 7' 22.308 N	103° 33' 57.461 W
6,000.0	7.00	279.96	5,967.0	94.6	-538.6	409,268.20	737,554.58	32° 7' 22.330 N	103° 33' 57.600 W
6,100.0	7.00	279.96	6,066.2	96.7	-550.6	409,270.31	737,542.58	32° 7' 22.352 N	103° 33' 57.740 W
6,200.0	7.00	279.96	6,165.5	98.8	-562.6	409,272.42	737,530.57	32° 7' 22.373 N	103° 33' 57.879 W
6,300.0	7.00	279.96	6,264.8	100.9	-574.6	409,274.53	737,518.57	32° 7' 22.395 N	103° 33' 58.019 W
6,400.0	7.00	279.96	6,364.0	103.0	-586.6	409,276.64	737,506.57	32° 7' 22.417 N	103° 33' 58.158 W
6,500.0	7.00	279.96	6,463.3	105.1	-598.6	409,278.75	737,494.57	32° 7' 22.438 N	103° 33' 58.297 W
6,600.0	7.00	279.96	6,562.5	107.3	-610.6	409,280.85	737,482.56	32° 7' 22.460 N	103° 33' 58.437 W
6,700.0	7.00	279.96	6,661.8	109.4	-622.7	409,282.96	737,470.56	32° 7' 22.482 N	103° 33' 58.576 W
6,800.0	7.00	279.96	6,761.0	111.5	-634.7	409,285.07	737,458.56	32° 7' 22.504 N	103° 33' 58.716 W
6,900.0	7.00	279.96	6,860.3	113.6	-646.7	409,287.18	737,446.55	32° 7' 22.525 N	103° 33' 58.855 W
7,000.0	7.00	279.96	6,959.5	115.7	-658.7	409,289.29	737,434.55	32° 7' 22.547 N	103° 33' 58.994 W
7,100.0	7.00	279.96	7,058.8	117.8	-670.7	409,291.39	737,422.55	32° 7' 22.569 N	103° 33' 59.134 W
7,200.0	7.00	279.96	7,158.0	119.9	-682.7	409,293.50	737,410.55	32° 7' 22.590 N	103° 33' 59.273 W
7,300.0	7.00	279.96	7,257.3	122.0	-694.7	409,295.61	737,398.54	32° 7' 22.612 N	103° 33' 59.412 W
7,400.0	7.00	279.96	7,356.6	124.1	-706.7	409,297.72	737,386.54	32° 7' 22.634 N	103° 33' 59.552 W
7,500.0	7.00	279.96	7,455.8	126.2	-718.7	409,299.83	737,374.54	32° 7' 22.656 N	103° 33' 59.691 W
7,600.0	7.00	279.96	7,555.1	128.3	-730.7	409,301.94	737,362.53	32° 7' 22.677 N	103° 33' 59.831 W
7,700.0	7.00	279.96	7,654.3	130.4	-742.7	409,304.04	737,350.53	32° 7' 22.699 N	103° 33' 59.970 W
7,800.0	7.00	279.96	7,753.6	132.6	-754.7	409,306.15	737,338.53	32° 7' 22.721 N	103° 34' 0.109 W
7,900.0	7.00	279.96	7,852.8	134.7	-766.7	409,308.26	737,326.52	32° 7' 22.742 N	103° 34' 0.249 W
8,000.0	7.00	279.96	7,952.1	136.8	-778.7	409,310.37	737,314.52	32° 7' 22.764 N	103° 34' 0.388 W
8,100.0	7.00	279.96	8,051.3	138.9	-790.7	409,312.48	737,302.52	32° 7' 22.786 N	103° 34' 0.528 W
8,200.0	7.00	279.96	8,150.6	141.0	-802.7	409,314.59	737,290.52	32° 7' 22.807 N	103° 34' 0.667 W
8,300.0	7.00	279.96	8,249.8	143.1	-814.7	409,316.69	737,278.51	32° 7' 22.829 N	103° 34' 0.806 W
8,400.0	7.00	279.96	8,349.1	145.2	-826.7	409,318.80	737,266.51	32° 7' 22.851 N	103° 34' 0.946 W
8,452.2	7.00	279.96	8,400.9	146.3	-833.0	409,319.90	737,260.25	32° 7' 22.862 N	103° 34' 1.018 W
8,500.0	6.04	279.96	8,448.4	147.2	-838.3	409,320.84	737,254.90	32° 7' 22.872 N	103° 34' 1.081 W
8,600.0	4.04	279.96	8,548.0	148.8	-847.0	409,322.36	737,246.24	32° 7' 22.888 N	103° 34' 1.181 W
8,700.0	2.04	279.96	8,647.9	149.7	-852.2	409,323.28	737,241.01	32° 7' 22.897 N	103° 34' 1.242 W
8,800.0	0.04	279.96	8,747.8	150.0	-854.0	409,323.60	737,239.22	32° 7' 22.900 N	103° 34' 1.263 W
8,802.2	0.00	0.00	8,750.0	150.0	-854.0	409,323.60	737,239.22	32° 7' 22.900 N	103° 34' 1.263 W
8,844.2	0.00	0.00	8,792.0	150.0	-854.0	409,323.60	737,239.22	32° 7' 22.900 N	103° 34' 1.263 W
8,900.0	5.58	179.63	8,847.8	147.3	-854.0	409,320.88	737,239.24	32° 7' 22.873 N	103° 34' 1.263 W
9,000.0	15.58	179.63	8,945.9	128.9	-853.9	409,302.54	737,239.35	32° 7' 22.692 N	103° 34' 1.263 W
9,100.0	25.58	179.63	9,039.4	93.8	-853.6	409,267.44	737,239.58	32° 7' 22.345 N	103° 34' 1.263 W
9,200.0	35.58	179.63	9,125.4	43.0	-853.3	409,216.63	737,239.90	32° 7' 21.842 N	103° 34' 1.264 W
9,300.0	45.58	179.63	9,201.3	-21.9	-852.9	409,151.67	737,240.32	32° 7' 21.199 N	103° 34' 1.264 W
9,400.0	55.58	179.63	9,264.7	-99.1	-852.4	409,074.52	737,240.81	32° 7' 20.435 N	103° 34' 1.265 W
9,500.0	65.58	179.63	9,313.7	-186.1	-851.8	408,987.53	737,241.37	32° 7' 19.574 N	103° 34' 1.265 W
9,600.0	75.58	179.63	9,346.9	-280.3	-851.2	408,893.34	737,241.97	32° 7' 18.642 N	103° 34' 1.266 W
9,700.0	85.58	179.63	9,363.3	-378.8	-850.6	408,794.82	737,242.60	32° 7' 17.667 N	103° 34' 1.267 W
9,744.2	90.00	179.63	9,365.0	-422.9	-850.3	408,750.66	737,242.89	32° 7' 17.230 N	103° 34' 1.267 W
9,800.0	90.00	179.63	9,365.0	-478.7	-850.0	408,694.87	737,243.24	32° 7' 16.678 N	103° 34' 1.268 W
9,900.0	90.00	179.63	9,365.0	-578.7	-849.3	408,594.87	737,243.88	32° 7' 15.689 N	103° 34' 1.269 W
10,000.0	90.00	179.63	9,365.0	-678.7	-848.7	408,494.88	737,244.52	32° 7' 14.699 N	103° 34' 1.270 W
10,100.0	90.00	179.63	9,365.0	-778.7	-848.1	408,394.88	737,245.16	32° 7' 13.710 N	103° 34' 1.270 W
10,200.0	90.00	179.63	9,365.0	-878.7	-847.4	408,294.89	737,245.80	32° 7' 12.720 N	103° 34' 1.271 W
10,300.0	90.00	179.63	9,365.0	-978.7	-846.8	408,194.89	737,246.45	32° 7' 11.730 N	103° 34' 1.272 W

BTA

Planning Report - Geographic

Database: EDM 5000.1 Single User Db
Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 27)
Site: Rojo
Well: Rojo B #2H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Rojo B #2H
TVD Reference: KB @ 3400.0usft (Nomac 94)
MD Reference: KB @ 3400.0usft (Nomac 94)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,400.0	90.00	179.63	9,365.0	-1,078.7	-846.1	408,094.90	737,247.09	32° 7' 10.741 N	103° 34' 1.273 W
10,500.0	90.00	179.63	9,365.0	-1,178.7	-845.5	407,994.90	737,247.73	32° 7' 9.751 N	103° 34' 1.274 W
10,600.0	90.00	179.63	9,365.0	-1,278.7	-844.9	407,894.91	737,248.37	32° 7' 8.762 N	103° 34' 1.275 W
10,700.0	90.00	179.63	9,365.0	-1,378.7	-844.2	407,794.91	737,249.01	32° 7' 7.772 N	103° 34' 1.275 W
10,800.0	90.00	179.63	9,365.0	-1,478.7	-843.6	407,694.92	737,249.65	32° 7' 6.783 N	103° 34' 1.276 W
10,900.0	90.00	179.63	9,365.0	-1,578.7	-842.9	407,594.92	737,250.29	32° 7' 5.793 N	103° 34' 1.277 W
11,000.0	90.00	179.63	9,365.0	-1,678.7	-842.3	407,494.93	737,250.93	32° 7' 4.804 N	103° 34' 1.278 W
11,100.0	90.00	179.63	9,365.0	-1,778.7	-841.7	407,394.93	737,251.57	32° 7' 3.814 N	103° 34' 1.279 W
11,200.0	90.00	179.63	9,365.0	-1,878.7	-841.0	407,294.93	737,252.21	32° 7' 2.824 N	103° 34' 1.279 W
11,300.0	90.00	179.63	9,365.0	-1,978.7	-840.4	407,194.94	737,252.85	32° 7' 1.835 N	103° 34' 1.280 W
11,400.0	90.00	179.63	9,365.0	-2,078.7	-839.7	407,094.94	737,253.49	32° 7' 0.845 N	103° 34' 1.281 W
11,500.0	90.00	179.63	9,365.0	-2,178.7	-839.1	406,994.95	737,254.13	32° 6' 59.856 N	103° 34' 1.282 W
11,600.0	90.00	179.63	9,365.0	-2,278.7	-838.5	406,894.95	737,254.77	32° 6' 58.866 N	103° 34' 1.283 W
11,700.0	90.00	179.63	9,365.0	-2,378.7	-837.8	406,794.96	737,255.41	32° 6' 57.877 N	103° 34' 1.284 W
11,800.0	90.00	179.63	9,365.0	-2,478.7	-837.2	406,694.96	737,256.05	32° 6' 56.887 N	103° 34' 1.284 W
11,900.0	90.00	179.63	9,365.0	-2,578.7	-836.5	406,594.97	737,256.69	32° 6' 55.897 N	103° 34' 1.285 W
12,000.0	90.00	179.63	9,365.0	-2,678.7	-835.9	406,494.97	737,257.33	32° 6' 54.908 N	103° 34' 1.286 W
12,100.0	90.00	179.63	9,365.0	-2,778.7	-835.2	406,394.98	737,257.97	32° 6' 53.918 N	103° 34' 1.287 W
12,200.0	90.00	179.63	9,365.0	-2,878.7	-834.6	406,294.98	737,258.61	32° 6' 52.929 N	103° 34' 1.288 W
12,300.0	90.00	179.63	9,365.0	-2,978.7	-834.0	406,194.99	737,259.25	32° 6' 51.939 N	103° 34' 1.289 W
12,400.0	90.00	179.63	9,365.0	-3,078.7	-833.3	406,094.99	737,259.89	32° 6' 50.950 N	103° 34' 1.289 W
12,500.0	90.00	179.63	9,365.0	-3,178.7	-832.7	405,994.99	737,260.53	32° 6' 49.960 N	103° 34' 1.290 W
12,600.0	90.00	179.63	9,365.0	-3,278.7	-832.0	405,895.00	737,261.17	32° 6' 48.970 N	103° 34' 1.291 W
12,700.0	90.00	179.63	9,365.0	-3,378.7	-831.4	405,795.00	737,261.81	32° 6' 47.981 N	103° 34' 1.292 W
12,800.0	90.00	179.63	9,365.0	-3,478.7	-830.8	405,695.01	737,262.45	32° 6' 46.991 N	103° 34' 1.293 W
12,900.0	90.00	179.63	9,365.0	-3,578.7	-830.1	405,595.01	737,263.09	32° 6' 46.002 N	103° 34' 1.293 W
13,000.0	90.00	179.63	9,365.0	-3,678.7	-829.5	405,495.02	737,263.73	32° 6' 45.012 N	103° 34' 1.294 W
13,100.0	90.00	179.63	9,365.0	-3,778.7	-828.8	405,395.02	737,264.37	32° 6' 44.023 N	103° 34' 1.295 W
13,200.0	90.00	179.63	9,365.0	-3,878.7	-828.2	405,295.03	737,265.01	32° 6' 43.033 N	103° 34' 1.296 W
13,300.0	90.00	179.63	9,365.0	-3,978.7	-827.6	405,195.03	737,265.65	32° 6' 42.044 N	103° 34' 1.297 W
13,400.0	90.00	179.63	9,365.0	-4,078.7	-826.9	405,095.04	737,266.29	32° 6' 41.054 N	103° 34' 1.298 W
13,500.0	90.00	179.63	9,365.0	-4,178.7	-826.3	404,995.04	737,266.93	32° 6' 40.064 N	103° 34' 1.298 W
13,600.0	90.00	179.63	9,365.0	-4,278.7	-825.6	404,895.05	737,267.57	32° 6' 39.075 N	103° 34' 1.299 W
13,700.0	90.00	179.63	9,365.0	-4,378.7	-825.0	404,795.05	737,268.21	32° 6' 38.085 N	103° 34' 1.300 W
13,800.0	90.00	179.63	9,365.0	-4,478.7	-824.4	404,695.06	737,268.85	32° 6' 37.096 N	103° 34' 1.301 W
13,900.0	90.00	179.63	9,365.0	-4,578.7	-823.7	404,595.06	737,269.49	32° 6' 36.106 N	103° 34' 1.302 W
14,000.0	90.00	179.63	9,365.0	-4,678.7	-823.1	404,495.06	737,270.13	32° 6' 35.117 N	103° 34' 1.302 W
14,100.0	90.00	179.63	9,365.0	-4,778.7	-822.4	404,395.07	737,270.77	32° 6' 34.127 N	103° 34' 1.303 W
14,197.4	90.00	179.63	9,365.0	-4,876.0	-821.8	404,297.70	737,271.40	32° 6' 33.163 N	103° 34' 1.304 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									
Rojo B #2H BHL	0.00	0.00	9,365.0	-4,876.0	-821.8	404,297.70	737,271.40	32° 6' 33.163 N	103° 34' 1.304 W
- plan hits target center									
- Point									