Form 3160-5 (June 2015)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NMNM05792

#### **SUNDRY NOTICES AND REPORTS ON WELLS** Do not use this form for proposals to drill or to re-enter an

abandoned we	6. If Indian, Allotted	6. If Indian, Allottee or Tribe Name						
SUBMIT IN	TRIPLICATE - Other instruc	tions on page 2	7. If Unit or CA/Ag	reement, Name and/or No.				
1. Type of Well  ☐ Gas Well ☐ Oth	ner		8. Well Name and N ROJO 7811 34-	o. 27 FEDERAL 41H				
2. Name of Operator BTA OIL PRODUCERS LLC	9. API Well No. 30-025-46098	s-00-X1						
3a. Address 104 S. PECOS MIDLAND, TX 79701	10. Field and Pool of BOBCAT DRA	or Exploratory Area AW-UPR WOLFCAMP						
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)		11. County or Parish	h, State				
Sec 34 T25S R33E SENW 25 32.087369 N Lat, 103.564333			LEA COUNTY	′, NM				
12. CHECK THE AI	PPROPRIATE BOX(ES) TO	INDICATE NATURE OI	F NOTICE, REPORT, OR O	THER DATA				
TYPE OF SUBMISSION		TYPE OF	FACTION					
➤ Notice of Intent	☐ Acidize	□ Deepen	☐ Production (Start/Resume)	■ Water Shut-Off				
_	☐ Alter Casing	☐ Hydraulic Fracturing	□ Reclamation	■ Well Integrity				
☐ Subsequent Report	□ Casing Repair	■ New Construction	□ Recomplete	<b>⊠</b> Other				
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Abandon	□ Temporarily Abandon	Change to Original A PD				
	☐ Convert to Injection	□ Plug Back	■ Water Disposal					
following completion of the involved testing has been completed. Final At determined that the site is ready for final BTA OIL PRODUCERS LLC FAND BATCH DRILLING CHAIDETAILS.  ORIGINAL FOOTAGES: SHL: 2510'FNL & 1365'FWL in FTP: 2310' FNL & 2260'FWL in LTP: 330' FNL & 2260'FWL in 14. I hereby certify that the foregoing is	nandonment Notices must be filed on inal inspection.  RESPECTFULLY REQUESTS NGES TO THE ORIGINAL AF  In Sec. 34 (SHL IS UNCHANG)  In Sec. 34  Sec. 27	lly after all requirements, includi	ing reclamation, have been complete TAGE, CASING & DRILLING ASE SEE ATTACHED DOCUM	d and the operator has  DESIGN, MUD,				
Con	Electronic Submission #5150 For BTA OIL PR nmitted to AFMSS for processin	ODUCERS LĹC, sent to the ng by PRISCILLA PEREZ or	e Hobbs n 05/13/2020 (20PP2552SE)					
Name(Printed/Typed) SAMMY F	HAJAR	Title REGUL	ATORY ANALYST					
Signature (Electronic S	Submission)	Date 05/12/20	020					
	THIS SPACE FOR F	EDERAL OR STATE	OFFICE USE					
Approved By OLABODE AJIBOLA		TitlePETROLE	UM ENGINEER	Date 05/17/2020				
Conditions of approval, if any, are attache certify that the applicant holds legal or equ	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 Hobbs							
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent			willfully to make to any department	or agency of the United				

(Instructions on page 2)
\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

#### Additional data for EC transaction #515034 that would not fit on the form

#### 32. Additional remarks, continued

BHL: 100' FNL & 2260'FWL in Sec. 27

**NEW FOOTAGES:** 

FTP: 2540' FNL & 330'FWL in Sec. 34 LTP: 100' FNL & 330'FWL in Sec. 27 BHL: 50' FNL & 330'FWL in Sec. 27

#### Revisions to Operator-Submitted EC Data for Sundry Notice #515034

**Operator Submitted BLM Revised (AFMSS)** 

Sundry Type: OTHER **APDCH** NOI NOI

NMNM05792 Lease: NMNM05792

Agreement:

Operator: BTA OIL PRODUCERS, LLC BTA OIL PRODUCERS LLC

104 S. PECOS MIDLAND, TX 79701 104 S. PECOS MIDLAND, TX 79701 Ph: 432-682-3753 Ph: 4326823753

Admin Contact:

SAMMY HAJAR REGULATORY ANALYST E-Mail: shajar@btaoil.com SAMMY HAJAR REGULATORY ANALYST E-Mail: shajar@btaoil.com

Ph: 432-682-3753 Ph: 432-682-3753

Tech Contact: SAMMY HAJAR

SAMMY HAJAR REGULATORY ANALYST E-Mail: shajar@btaoil.com REGULATORY ANALYST E-Mail: shajar@btaoil.com

Ph: 432-682-3753 Ph: 432-682-3753

Location:

NM LEA COUNTY

State: County: NM LEA

Field/Pool: **BOBCAT DRAW/UPPER WOLFCAM BOBCAT DRAW-UPR WOLFCAMP** 

ROJO 7811 34-27 FEDERAL 41H Sec 34 T25S R33E SENW 2510FNL 1365FWL Well/Facility:

ROJO 7811 34-27 FEDERAL 41H Sec 34 T25S R33E SENW 2510FNL 1365FWL

32.087369 N Lat, 103.564333 W Lon 32.087369 N Lat, 103.564333 W Lon BTA OIL PRODUCERS LLC RESPECTFULLY REQUEST THE FOLLOWING CHANGES TO THE ORIGINAL APD AS APPROVED.

## **BATCH DRILLING SEQUENCE OF THE 40H and 41H:**

- -SPUD Rojo #40H drill 14-3/4" hole and set 10-3/4" csg
- -Walk to Rojo #41H, SPUD 14-3/4" hole and set 10-3/4" csg test BOP, drill 9-7/8" hole and set 7-5/8" csg
- -Walk to Rojo #40H, test BOP, drill 9-7/8" hole and set 7-5/8" csg, drill 6-3/4" hole and set 5-1/2" x 5" casing.
- -Walk to Rojo #41H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing.
- -Rig release

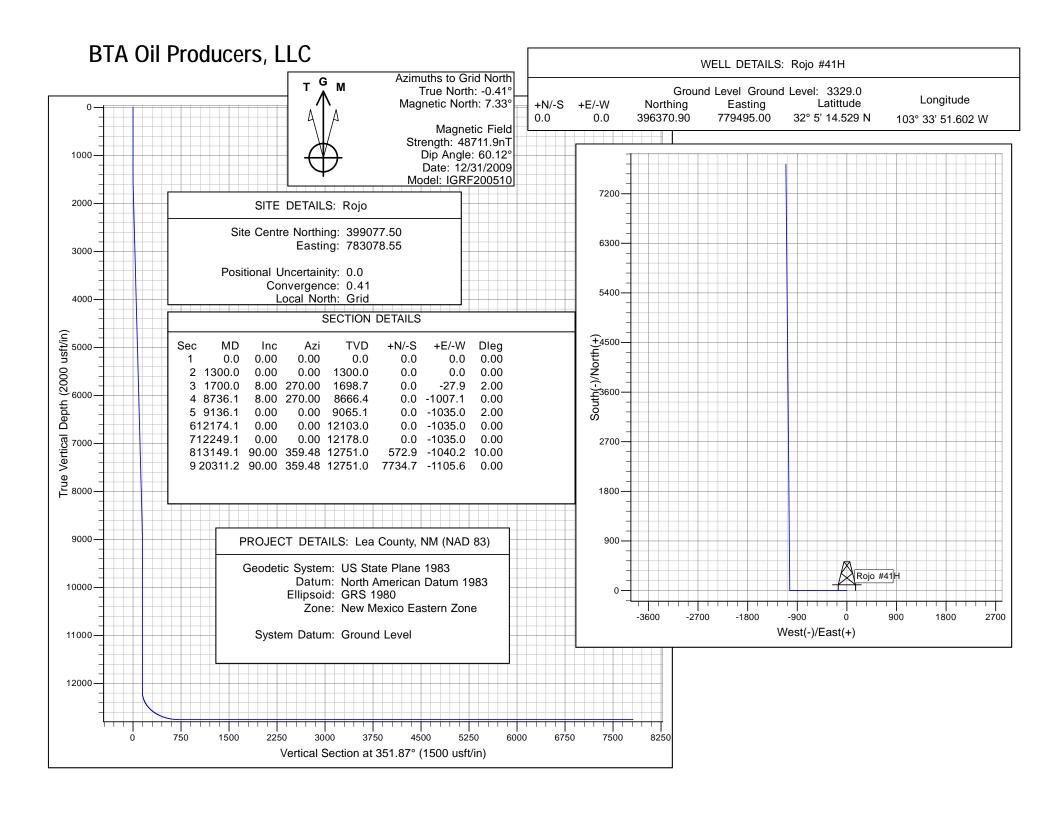
### **Mud Program:**

#### **Original Permit**

- -Surface Section Fresh water 8.4 ppg
- -Intermediate Brine 10.0 10.2 ppg
- -2nd Intermediate Cut brine 8.6 9.2 ppg
- -Production OBM 11.5 12.0 ppg

#### **Proposed Change**

- -Surface Section Fresh water 8.3 8.4 ppg
- -Intermediate DBE 9.0 9.4 ppg
- -Production OBM 11.5 12.0 ppg



OCD - HOBBS 05|19|2020 RECEIVED

# **BTA Oil Producers, LLC**

Lea County, NM (NAD 83) Rojo Rojo #41H

Wellbore #1

Plan: Design #1

## **Standard Planning Report - Geographic**

12 May, 2020

#### Planning Report - Geographic

Old Database:

Company: BTA Oil Producers, LLC Project: Lea County, NM (NAD 83)

Site: Rojo Well: Rojo #41H Wellbore: Wellbore #1 Design #1 Design:

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Rojo #41H GL @ 3329.0usft GL @ 3329.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83), Lea County, NM

US State Plane 1983 Map System:

North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

System Datum: Ground Level

Using geodetic scale factor

Site Rojo

Northing: 399,077.50 usft Site Position: Latitude: 32° 5' 41.057 N 103° 33' 9.721 W 783,078.55 usft Мар Easting: Longitude: From: Position Uncertainty: 0.0 usft Slot Radius: 0.41

13-3/16 " **Grid Convergence:** 

Well Rojo #41H

**Well Position** +N/-S 0.0 usft Northing: 396,370.90 usft Latitude: 32° 5' 14.529 N

+E/-W 0.0 usft Easting: 779,495.00 usft Longitude: 103° 33' 51.602 W Wellhead Elevation: Ground Level: **Position Uncertainty** 0.0 usft 0.0 usft 3,329.0 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF200510 12/31/2009 7.74 60.12 48,711.93929572

Design #1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 351.87

Date 5/12/2020 Plan Survey Tool Program

Depth From Depth To

**Tool Name** Survey (Wellbore) (usft) (usft) Remarks

0.0 20,311.2 Design #1 (Wellbore #1)

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	8.00	270.00	1,698.7	0.0	-27.9	2.00	2.00	0.00	270.00	
8,736.1	8.00	270.00	8,666.4	0.0	-1,007.1	0.00	0.00	0.00	0.00	
9,136.1	0.00	0.00	9,065.1	0.0	-1,035.0	2.00	-2.00	0.00	180.00	
12,174.1	0.00	0.00	12,103.0	0.0	-1,035.0	0.00	0.00	0.00	0.00	
12,249.1	0.00	0.00	12,178.0	0.0	-1,035.0	0.00	0.00	0.00	0.00	
13,149.1	90.00	359.48	12,751.0	572.9	-1,040.2	10.00	10.00	0.00	359.48	
20,311.2	90.00	359.48	12,751.0	7,734.7	-1,105.6	0.00	0.00	0.00	0.00	Rojo #41H BHL

#### Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC

Project: Lea County, NM (NAD 83)
Site: Rojo

Well: Rojo #41H Wellbore: Wellbore #1 Design: Design #1 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rojo #41H GL @ 3329.0usft

GL @ 3329.0usft Grid

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	396,370.90	779,495.00	32° 5′ 14.529 N	103° 33' 51.602 W
100.0	0.00	0.00	100.0	0.0	0.0	396,370.90	779,495.00	32° 5' 14.529 N	103° 33' 51.602 W
200.0	0.00	0.00	200.0	0.0	0.0	396,370.90	779,495.00	32° 5' 14.529 N	103° 33' 51.602 W
300.0	0.00	0.00	300.0	0.0	0.0	396,370.90	779,495.00	32° 5' 14.529 N	103° 33' 51.602 W
400.0	0.00	0.00	400.0	0.0	0.0	396,370.90	779,495.00	32° 5' 14.529 N	103° 33' 51.602 W
500.0	0.00	0.00	500.0	0.0	0.0	396,370.90	779,495.00	32° 5′ 14.529 N	103° 33' 51.602 W
600.0	0.00	0.00	600.0	0.0	0.0	396,370.90	779,495.00	32° 5′ 14.529 N	103° 33' 51.602 W
700.0 800.0	0.00	0.00 0.00	700.0 800.0	0.0 0.0	0.0	396,370.90	779,495.00	32° 5′ 14.529 N	103° 33' 51.602 W
900.0		0.00		0.0	0.0	396,370.90	779,495.00	32° 5′ 14.529 N	103° 33' 51.602 W 103° 33' 51.602 W
1,000.0	0.00	0.00	900.0 1,000.0	0.0	0.0	396,370.90 396,370.90	779,495.00 779,495.00	32° 5' 14.529 N 32° 5' 14.529 N	103° 33' 51.602 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	396,370.90	779,495.00	32° 5′ 14.529 N	103° 33' 51.602 W
1,200.0	0.00	0.00	1,100.0	0.0	0.0	396,370.90	779,495.00	32° 5′ 14.529 N	103° 33' 51.602 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	396,370.90	779,495.00	32° 5′ 14.529 N	103° 33' 51.602 W
1,400.0	2.00	270.00	1,400.0	0.0	-1.7	396,370.90	779,493.00	32° 5′ 14.529 N	103° 33' 51.622 W
1,500.0	4.00	270.00	1,499.8	0.0	-7.0	396,370.90	779,488.02	32° 5′ 14.530 N	103° 33' 51.683 W
1,600.0	6.00	270.00	1,599.5	0.0	-15.7	396,370.90	779,479.30	32° 5′ 14.530 N	103° 33' 51.784 W
1,700.0	8.00	270.00	1,698.7	0.0	-27.9	396,370.90	779,467.12	32° 5' 14.531 N	103° 33' 51.764 W
1,800.0	8.00	270.00	1,797.7	0.0	-41.8	396,370.90	779,453.20	32° 5' 14.532 N	103° 33' 51.920 W
1,900.0	8.00	270.00	1,896.8	0.0	-55.7	396,370.90	779,439.28	32° 5' 14.533 N	103° 33' 52.249 W
2,000.0	8.00	270.00	1,995.8	0.0	-69.6	396,370.90	779,425.37	32° 5′ 14.534 N	103° 33' 52.411 W
2,100.0	8.00	270.00	2,094.8	0.0	-83.5	396,370.90	779,411.45	32° 5' 14.535 N	103° 33' 52.573 W
2,200.0	8.00	270.00	2,193.8	0.0	-97.5	396,370.90	779,397.53	32° 5′ 14.536 N	103° 33' 52.734 W
2,300.0	8.00	270.00	2,292.9	0.0	-111.4	396,370.90	779,383.62	32° 5' 14.537 N	103° 33' 52.896 W
2,400.0	8.00	270.00	2,391.9	0.0	-125.3	396,370.90	779,369.70	32° 5' 14.538 N	103° 33' 53.058 W
2,500.0	8.00	270.00	2,490.9	0.0	-139.2	396,370.90	779,355.78	32° 5' 14.539 N	103° 33' 53.220 W
2,600.0	8.00	270.00	2,589.9	0.0	-153.1	396,370.90	779,341.87	32° 5' 14.540 N	103° 33' 53.382 W
2,700.0	8.00	270.00	2,689.0	0.0	-167.1	396,370.90	779,327.95	32° 5' 14.541 N	103° 33' 53.543 W
2,800.0	8.00	270.00	2,788.0	0.0	-181.0	396,370.90	779,314.03	32° 5' 14.542 N	103° 33' 53.705 W
2,900.0	8.00	270.00	2,887.0	0.0	-194.9	396,370.90	779,300.11	32° 5' 14.543 N	103° 33' 53.867 W
3,000.0	8.00	270.00	2,986.1	0.0	-208.8	396,370.90	779,286.20	32° 5' 14.544 N	103° 33' 54.029 W
3,100.0	8.00	270.00	3,085.1	0.0	-222.7	396,370.90	779,272.28	32° 5′ 14.545 N	103° 33' 54.190 W
3,200.0	8.00	270.00	3,184.1	0.0	-236.6	396,370.90	779,258.36	32° 5′ 14.546 N	103° 33' 54.352 W
3,300.0	8.00	270.00	3,283.1	0.0	-250.6	396,370.90	779,244.45	32° 5′ 14.547 N	103° 33' 54.514 W
3,400.0	8.00	270.00	3,382.2	0.0	-264.5	396,370.90	779,230.53	32° 5′ 14.548 N	103° 33' 54.676 W
3,500.0	8.00	270.00	3,481.2	0.0	-278.4	396,370.90	779,216.61	32° 5′ 14.549 N	103° 33' 54.837 W
3,600.0	8.00	270.00	3,580.2	0.0	-292.3	396,370.90	779,202.70	32° 5′ 14.550 N	103° 33' 54.999 W
3,700.0	8.00	270.00	3,679.2	0.0	-306.2	396,370.90	779,188.78	32° 5′ 14.551 N	103° 33' 55.161 W
3,800.0	8.00	270.00	3,778.3	0.0	-320.1	396,370.90	779,174.86	32° 5′ 14.552 N	103° 33' 55.323 W
3,900.0	8.00	270.00	3,877.3	0.0	-334.1	396,370.90	779,160.95	32° 5′ 14.553 N	103° 33' 55.484 W
4,000.0	8.00	270.00	3,976.3	0.0	-348.0	396,370.90	779,147.03	32° 5′ 14.554 N	103° 33' 55.646 W
4,100.0		270.00	4,075.3	0.0	-361.9	396,370.90	779,133.11	32° 5′ 14.555 N	103° 33' 55.808 W
4,200.0		270.00	4,174.4	0.0	-375.8	396,370.90	779,119.19	32° 5′ 14.556 N	103° 33' 55.970 W
4,300.0	8.00	270.00	4,273.4	0.0	-389.7	396,370.90	779,105.28	32° 5′ 14.557 N	103° 33' 56.131 W
4,400.0	8.00	270.00	4,372.4	0.0	-403.6	396,370.90	779,091.36	32° 5′ 14.558 N	103° 33' 56.293 W
4,500.0	8.00	270.00	4,471.5	0.0	-417.6	396,370.90	779,077.44	32° 5′ 14.559 N	103° 33' 56.455 W
4,600.0	8.00	270.00	4,570.5	0.0	-431.5	396,370.90	779,063.53	32° 5′ 14.560 N	103° 33' 56.617 W
4,700.0		270.00	4,669.5	0.0	-445.4	396,370.90	779,049.61	32° 5′ 14.560 N	103° 33' 56.779 W
4,800.0	8.00	270.00	4,768.5	0.0	-459.3	396,370.90	779,035.69	32° 5' 14.561 N	103° 33' 56.940 W
4,900.0	8.00	270.00	4,867.6	0.0	-473.2	396,370.90	779,021.78	32° 5' 14.562 N	103° 33' 57.102 W
5,000.0	8.00	270.00	4,966.6	0.0	-487.2	396,370.90	779,007.86	32° 5' 14.563 N	103° 33' 57.264 W
5,100.0	8.00	270.00	5,065.6	0.0	-501.1	396,370.90	778,993.94	32° 5' 14.564 N	103° 33' 57.426 W
5,200.0	8.00	270.00	5,164.6	0.0	-515.0	396,370.90	778,980.02	32° 5' 14.565 N	103° 33' 57.587 W
5,300.0	8.00	270.00	5,263.7	0.0	-528.9	396,370.90	778,966.11	32° 5' 14.566 N	103° 33' 57.749 W
5,400.0	8.00	270.00	5,362.7	0.0	-542.8	396,370.90	778,952.19	32° 5' 14.567 N	103° 33' 57.911 W

#### Planning Report - Geographic

Database: Old

BTA Oil Producers, LLC

Company: Project: Lea County, NM (NAD 83)

Site: Rojo #41H Well: Wellbore #1 Wellbore: Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Rojo #41H GL @ 3329.0usft

GL @ 3329.0usft

Planned Survey	1								
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
5,500.0	8.00	270.00	5,461.7	0.0	-556.7	396,370.90	778,938.27	32° 5' 14.568 N	103° 33' 58.073 W
5,600.0		270.00	5,560.7	0.0	-570.7	396,370.90	778,924.36	32° 5′ 14.569 N	103° 33' 58.234 W
5,700.0	8.00	270.00	5,659.8	0.0	-584.6	396,370.90	778,910.44	32° 5′ 14.570 N	103° 33' 58.396 W
5,800.0		270.00	5,758.8	0.0	-598.5	396,370.90	778,896.52	32° 5′ 14.571 N	103° 33' 58.558 W
5,900.0	8.00	270.00	5,857.8	0.0	-612.4	396,370.90	778,882.61	32° 5' 14.572 N	103° 33' 58.720 W
6,000.0		270.00	5,956.9	0.0	-626.3	396,370.90	778,868.69	32° 5' 14.573 N	103° 33' 58.881 W
6,100.0	8.00	270.00	6,055.9	0.0	-640.2	396,370.90	778,854.77	32° 5' 14.574 N	103° 33' 59.043 W
6,200.0	8.00	270.00	6,154.9	0.0	-654.2	396,370.90	778,840.86	32° 5′ 14.575 N	103° 33' 59.205 W
6,300.0	8.00	270.00	6,253.9	0.0	-668.1	396,370.90	778,826.94	32° 5′ 14.576 N	103° 33' 59.367 W
6,400.0	8.00	270.00	6,353.0	0.0	-682.0	396,370.90	778,813.02	32° 5′ 14.577 N	103° 33' 59.528 W
6,500.0	8.00	270.00	6,452.0	0.0	-695.9	396,370.90	778,799.10	32° 5′ 14.578 N	103° 33' 59.690 W
6,600.0	8.00	270.00	6,551.0	0.0	-709.8	396,370.90	778,785.19	32° 5′ 14.579 N	103° 33' 59.852 W
6,700.0	8.00	270.00	6,650.0	0.0	-723.7	396,370.90	778,771.27	32° 5′ 14.580 N	103° 34' 0.014 W
6,800.0	8.00	270.00	6,749.1	0.0	-737.7	396,370.90	778,757.35	32° 5′ 14.581 N	103° 34' 0.176 W
6,900.0	8.00	270.00	6,848.1	0.0	-751.6	396,370.90	778,743.44	32° 5′ 14.582 N	103° 34' 0.337 W
7,000.0	8.00	270.00	6,947.1	0.0	-765.5	396,370.90	778,729.52	32° 5′ 14.583 N	103° 34' 0.499 W
7,100.0	8.00	270.00	7,046.1	0.0	-779.4	396,370.90	778,715.60	32° 5′ 14.584 N	103° 34' 0.661 W
7,200.0		270.00	7,145.2	0.0	-793.3	396,370.90	778,701.69	32° 5′ 14.585 N	103° 34' 0.823 W
7,300.0	8.00	270.00	7,244.2	0.0	-807.2	396,370.90	778,687.77	32° 5' 14.586 N	103° 34' 0.984 W
7,400.0		270.00	7,343.2	0.0	-821.2	396,370.90	778,673.85	32° 5′ 14.587 N	103° 34' 1.146 W
7,500.0	8.00	270.00	7,442.3	0.0	-835.1	396,370.90	778,659.94	32° 5′ 14.588 N	103° 34' 1.308 W
7,600.0		270.00	7,541.3	0.0	-849.0	396,370.90	778,646.02	32° 5′ 14.589 N	103° 34' 1.470 W
7,700.0 7,800.0	8.00 8.00	270.00 270.00	7,640.3 7,739.3	0.0 0.0	-862.9 -876.8	396,370.90 396,370.90	778,632.10 778,618.18	32° 5' 14.590 N 32° 5' 14.591 N	103° 34' 1.631 W 103° 34' 1.793 W
7,900.0	8.00	270.00	7,739.3	0.0	-890.8	396,370.90	778,604.27	32° 5' 14.592 N	103° 34' 1.795 W
8,000.0		270.00	7,030.4	0.0	-904.7	396,370.90	778,590.35	32° 5′ 14.593 N	103° 34' 2.117 W
8,100.0	8.00	270.00	8,036.4	0.0	-918.6	396,370.90	778,576.43	32° 5′ 14.594 N	103° 34' 2.278 W
8,200.0		270.00	8,135.4	0.0	-932.5	396,370.90	778,562.52	32° 5' 14.595 N	103° 34' 2.440 W
8,300.0	8.00	270.00	8,234.5	0.0	-946.4	396,370.90	778,548.60	32° 5' 14.596 N	103° 34' 2.602 W
8,400.0		270.00	8,333.5	0.0	-960.3	396,370.90	778,534.68	32° 5' 14.597 N	103° 34' 2.764 W
8,500.0	8.00	270.00	8,432.5	0.0	-974.3	396,370.90	778,520.77	32° 5′ 14.598 N	103° 34' 2.925 W
8,600.0	8.00	270.00	8,531.6	0.0	-988.2	396,370.90	778,506.85	32° 5′ 14.599 N	103° 34' 3.087 W
8,700.0	8.00	270.00	8,630.6	0.0	-1,002.1	396,370.90	778,492.93	32° 5′ 14.600 N	103° 34' 3.249 W
8,736.1	8.00	270.00	8,666.4	0.0	-1,007.1	396,370.90	778,487.90	32° 5′ 14.600 N	103° 34' 3.307 W
8,800.0	6.72	270.00	8,729.7	0.0	-1,015.3	396,370.90	778,479.72	32° 5′ 14.601 N	103° 34' 3.403 W
8,900.0	4.72	270.00	8,829.2	0.0	-1,025.3	396,370.90	778,469.75	32° 5′ 14.601 N	103° 34' 3.518 W
9,000.0	2.72	270.00	8,929.0	0.0	-1,031.8	396,370.90	778,463.26	32° 5′ 14.602 N	103° 34' 3.594 W
9,100.0		270.00	9,028.9	0.0	-1,034.8	396,370.90	778,460.25	32° 5′ 14.602 N	103° 34' 3.629 W
9,136.1	0.00	0.00	9,065.1	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
9,200.0		0.00	9,128.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
9,300.0		0.00	9,228.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
9,400.0		0.00	9,328.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5' 14.602 N	103° 34' 3.631 W
9,500.0		0.00	9,428.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
9,600.0		0.00	9,528.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
9,700.0	0.00	0.00	9,628.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
9,800.0		0.00	9,728.9	0.0	-1,035.0 1,035.0	396,370.90	778,460.02 778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W 103° 34' 3.631 W
9,900.0	0.00	0.00	9,828.9 9,928.9	0.0 0.0	-1,035.0 -1,035.0	396,370.90	778,460.02 778,460.02	32° 5′ 14.602 N	
10,000.0 10,100.0	0.00	0.00	10,028.9	0.0	-1,035.0	396,370.90 396,370.90	778,460.02	32° 5′ 14.602 N 32° 5′ 14.602 N	103° 34' 3.631 W 103° 34' 3.631 W
10,100.0		0.00	10,028.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5' 14.602 N	103° 34' 3.631 W
10,300.0		0.00	10,128.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
10,400.0		0.00	10,328.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5' 14.602 N	103° 34' 3.631 W
10,500.0	0.00	0.00	10,428.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5' 14.602 N	103° 34' 3.631 W
10,600.0		0.00	10,528.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5' 14.602 N	103° 34' 3.631 W
10,700.0	0.00	0.00	10,628.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W

#### Planning Report - Geographic

Database: Old

BTA Oil Producers, LLC

Company: Project:

Lea County, NM (NAD 83)

Site: Well: Wellbore:

Design:

Rojo Rojo #41H

Wellbore #1

Design #1

Local Co-ordinate Reference: TVD Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Rojo #41H GL @ 3329.0usft

GL @ 3329.0usft

Planned Survey	1								
r iainica carvey									
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	10,728.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
10,900.0		0.00	10,828.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5' 14.602 N	103° 34' 3.631 W
11,000.0	0.00	0.00	10,928.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
11,100.0	0.00	0.00	11,028.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
11,200.0	0.00	0.00	11,128.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
11,300.0	0.00	0.00	11,228.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
11,400.0	0.00	0.00	11,328.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
11,500.0	0.00	0.00	11,428.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
11,600.0	0.00	0.00	11,528.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5' 14.602 N	103° 34' 3.631 W
11,700.0		0.00	11,628.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5' 14.602 N	103° 34' 3.631 W
11,800.0		0.00	11,728.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
11,900.0		0.00	11,828.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W 103° 34' 3.631 W
12,000.0 12,100.0	0.00	0.00	11,928.9 12,028.9	0.0 0.0	-1,035.0 -1,035.0	396,370.90 396,370.90	778,460.02 778,460.02	32° 5' 14.602 N 32° 5' 14.602 N	103° 34' 3.631 W
12,174.1	0.00	0.00	12,026.9	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34′ 3.631 W
12,774.1		0.00	12,103.0	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
12,249.1	0.00	0.00	12,178.0	0.0	-1,035.0	396,370.90	778,460.02	32° 5′ 14.602 N	103° 34' 3.631 W
12,300.0		359.48	12,228.9	2.3	-1,035.0	396,373.16	778,460.00	32° 5' 14.624 N	103° 34' 3.632 W
12,400.0	15.09	359.48	12,327.2	19.8	-1,035.2	396,390.65	778,459.84	32° 5' 14.797 N	103° 34' 3.632 W
12,500.0		359.48	12,421.0	54.1	-1,035.5	396,424.95	778,459.53	32° 5' 15.137 N	103° 34' 3.633 W
12,600.0	35.09	359.48	12,507.4	104.1	-1,036.0	396,475.02	778,459.07	32° 5′ 15.632 N	103° 34' 3.634 W
12,700.0	45.09	359.48	12,583.8	168.4	-1,036.5	396,539.33	778,458.49	32° 5′ 16.269 N	103° 34' 3.635 W
12,800.0	55.09	359.48	12,647.9	245.0	-1,037.2	396,615.93	778,457.79	32° 5′ 17.027 N	103° 34' 3.637 W
12,900.0	65.09	359.48	12,697.7	331.6	-1,038.0	396,702.49	778,457.00	32° 5′ 17.883 N	103° 34' 3.639 W
13,000.0	75.09	359.48	12,731.7	425.5	-1,038.9	396,796.39	778,456.14	32° 5′ 18.813 N	103° 34' 3.642 W
13,100.0		359.48	12,748.9	523.9	-1,039.8	396,894.77	778,455.24	32° 5′ 19.786 N	103° 34' 3.644 W
13,149.1	90.00	359.48	12,751.0	572.9	-1,040.2	396,943.82	778,454.79	32° 5' 20.272 N	103° 34' 3.645 W
13,200.0		359.48	12,751.0	623.8	-1,040.7	396,994.70	778,454.33	32° 5' 20.775 N	103° 34' 3.646 W
13,300.0	90.00	359.48	12,751.0	723.8	-1,041.6	397,094.69	778,453.41	32° 5′ 21.765 N	103° 34' 3.649 W
13,400.0		359.48	12,751.0	823.8	-1,042.5	397,194.69	778,452.50	32° 5′ 22.754 N	103° 34' 3.651 W
13,500.0		359.48 359.48	12,751.0	923.8	-1,043.4	397,294.68	778,451.59	32° 5′ 23.744 N	103° 34' 3.653 W
13,600.0 13,700.0	90.00 90.00	359.46	12,751.0 12,751.0	1,023.8 1,123.8	-1,044.3 -1,045.3	397,394.67 397,494.67	778,450.68 778,449.76	32° 5' 24.733 N 32° 5' 25.723 N	103° 34' 3.656 W 103° 34' 3.658 W
13,800.0		359.48	12,751.0	1,123.8	-1,045.3	397,594.66	778,448.85	32° 5′ 26.712 N	103° 34′ 3.660 W
13,900.0	90.00	359.48	12,751.0	1,323.8	-1,047.1	397,694.65	778,447.94	32° 5' 27.702 N	103° 34' 3.663 W
14,000.0		359.48	12,751.0	1,423.8	-1,048.0	397,794.65	778,447.02	32° 5' 28.691 N	103° 34' 3.665 W
14,100.0	90.00	359.48	12,751.0	1,523.8	-1,048.9	397,894.64	778,446.11	32° 5' 29.681 N	103° 34' 3.667 W
14,200.0		359.48	12,751.0	1,623.8	-1,049.8	397,994.63	778,445.20	32° 5′ 30.670 N	103° 34' 3.670 W
14,300.0	90.00	359.48	12,751.0	1,723.8	-1,050.7	398,094.63	778,444.28	32° 5′ 31.660 N	103° 34' 3.672 W
14,400.0	90.00	359.48	12,751.0	1,823.8	-1,051.7	398,194.62	778,443.37	32° 5′ 32.650 N	103° 34' 3.675 W
14,500.0	90.00	359.48	12,751.0	1,923.8	-1,052.6	398,294.61	778,442.46	32° 5′ 33.639 N	103° 34' 3.677 W
14,600.0		359.48	12,751.0	2,023.8	-1,053.5	398,394.61	778,441.54	32° 5′ 34.629 N	103° 34' 3.679 W
14,700.0	90.00	359.48	12,751.0	2,123.8	-1,054.4	398,494.60	778,440.63	32° 5′ 35.618 N	103° 34' 3.682 W
14,800.0		359.48	12,751.0	2,223.8	-1,055.3	398,594.59	778,439.72	32° 5′ 36.608 N	103° 34' 3.684 W
14,900.0		359.48	12,751.0	2,323.7	-1,056.2	398,694.59	778,438.81	32° 5' 37.597 N	103° 34' 3.686 W
15,000.0		359.48	12,751.0	2,423.7	-1,057.1	398,794.58	778,437.89	32° 5' 38.587 N	103° 34' 3.689 W
15,100.0		359.48	12,751.0	2,523.7	-1,058.0	398,894.57	778,436.98	32° 5′ 39.576 N	103° 34' 3.691 W
15,200.0		359.48	12,751.0	2,623.7	-1,059.0	398,994.57	778,436.07	32° 5' 40.566 N	103° 34' 3.693 W
15,300.0		359.48	12,751.0	2,723.7	-1,059.9 1,060.8	399,094.56	778,435.15	32° 5' 41.555 N	103° 34' 3.696 W
15,400.0 15,500.0		359.48 359.48	12,751.0 12,751.0	2,823.7	-1,060.8 -1,061.7	399,194.55 399,294.54	778,434.24 778,433.33	32° 5' 42.545 N 32° 5' 43.534 N	103° 34' 3.698 W 103° 34' 3.701 W
15,600.0		359.46	12,751.0 12,751.0	2,923.7 3,023.7	-1,061.7 -1,062.6	399,294.54	778,432.41	32° 5′ 44.524 N	103° 34′ 3.703 W
15,700.0	90.00	359.48	12,751.0	3,123.7	-1,062.6	399,494.53	778,431.50	32° 5′ 45.514 N	103° 34′ 3.705 W
15,800.0		359.48	12,751.0	3,223.7	-1,064.4	399,594.52	778,430.59	32° 5′ 46.503 N	103° 34' 3.708 W
15,900.0	90.00	359.48	12,751.0	3,323.7	-1,065.4	399,694.52	778,429.67	32° 5′ 47.493 N	103° 34' 3.710 W

#### Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)

 Site:
 Rojo

 Well:
 Rojo #41H

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rojo #41H GL @ 3329.0usft GL @ 3329.0usft

Grid

ned 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	359.48	12,751.0	3,423.7	-1,066.3	399,794.51	778,428.76	32° 5′ 48.482 N	103° 34' 3.712
16,100.0	90.00	359.48	12,751.0	3,523.7	-1,067.2	399,894.50	778,427.85	32° 5′ 49.472 N	103° 34' 3.715
16,200.0	90.00	359.48	12,751.0	3,623.7	-1,068.1	399,994.50	778,426.94	32° 5′ 50.461 N	103° 34' 3.717
16,300.0	90.00	359.48	12,751.0	3,723.7	-1,069.0	400,094.49	778,426.02	32° 5′ 51.451 N	103° 34' 3.719
16,400.0	90.00	359.48	12,751.0	3,823.7	-1,069.9	400,194.48	778,425.11	32° 5′ 52.440 N	103° 34' 3.722
16,500.0	90.00	359.48	12,751.0	3,923.7	-1,070.8	400,294.48	778,424.20	32° 5′ 53.430 N	103° 34' 3.724
16,600.0	90.00	359.48	12,751.0	4,023.7	-1,071.7	400,394.47	778,423.28	32° 5′ 54.419 N	103° 34' 3.726
16,700.0	90.00	359.48	12,751.0	4,123.7	-1,072.7	400,494.46	778,422.37	32° 5′ 55.409 N	103° 34' 3.729
16,800.0	90.00	359.48	12,751.0	4,223.7	-1,073.6	400,594.46	778,421.46	32° 5′ 56.398 N	103° 34' 3.731
16,900.0	90.00	359.48	12,751.0	4,323.7	-1,074.5	400,694.45	778,420.54	32° 5′ 57.388 N	103° 34' 3.734
17,000.0	90.00	359.48	12,751.0	4,423.7	-1,075.4	400,794.44	778,419.63	32° 5′ 58.377 N	103° 34' 3.736
17,100.0	90.00	359.48	12,751.0	4,523.7	-1,076.3	400,894.44	778,418.72	32° 5′ 59.367 N	103° 34' 3.738
17,200.0	90.00	359.48	12,751.0	4,623.7	-1,077.2	400,994.43	778,417.80	32° 6′ 0.357 N	103° 34' 3.741
17,300.0	90.00	359.48	12,751.0	4,723.6	-1,078.1	401,094.42	778,416.89	32° 6′ 1.346 N	103° 34' 3.743
17,400.0	90.00	359.48	12,751.0	4,823.6	-1,079.0	401,194.42	778,415.98	32° 6′ 2.336 N	103° 34' 3.745
17,500.0	90.00	359.48	12,751.0	4,923.6	-1,080.0	401,294.41	778,415.07	32° 6′ 3.325 N	103° 34' 3.748
17,600.0	90.00	359.48	12,751.0	5,023.6	-1,080.9	401,394.40	778,414.15	32° 6' 4.315 N	103° 34' 3.750
17,700.0	90.00	359.48	12,751.0	5,123.6	-1,081.8	401,494.40	778,413.24	32° 6' 5.304 N	103° 34' 3.752
17,800.0	90.00	359.48	12,751.0	5,223.6	-1,082.7	401,594.39	778,412.33	32° 6' 6.294 N	103° 34' 3.75
17,900.0	90.00	359.48	12,751.0	5,323.6	-1,083.6	401,694.38	778,411.41	32° 6' 7.283 N	103° 34' 3.75
18,000.0	90.00	359.48	12,751.0	5,423.6	-1,084.5	401,794.38	778,410.50	32° 6′ 8.273 N	103° 34' 3.760
18,100.0	90.00	359.48	12,751.0	5,523.6	-1,085.4	401,894.37	778,409.59	32° 6′ 9.262 N	103° 34' 3.76
18,200.0	90.00	359.48	12,751.0	5,623.6	-1,086.4	401,994.36	778,408.67	32° 6' 10.252 N	103° 34' 3.76
18,300.0	90.00	359.48	12,751.0	5,723.6	-1,087.3	402,094.36	778,407.76	32° 6' 11.241 N	103° 34' 3.76
18,400.0	90.00	359.48	12,751.0	5,823.6	-1,088.2	402,194.35	778,406.85	32° 6' 12.231 N	103° 34' 3.769
18,500.0	90.00	359.48	12,751.0	5,923.6	-1,089.1	402,294.34	778,405.93	32° 6' 13.220 N	103° 34' 3.77
18,600.0	90.00	359.48	12,751.0	6,023.6	-1,090.0	402,394.34	778,405.02	32° 6' 14.210 N	103° 34' 3.77
18,700.0	90.00	359.48	12,751.0	6,123.6	-1,090.9	402,494.33	778,404.11	32° 6' 15.200 N	103° 34' 3.77
18,800.0	90.00	359.48	12,751.0	6,223.6	-1,091.8	402,594.32	778,403.20	32° 6' 16.189 N	103° 34' 3.77
18,900.0	90.00	359.48	12,751.0	6,323.6	-1,092.7	402,694.31	778,402.28	32° 6' 17.179 N	103° 34' 3.78
19,000.0	90.00	359.48	12,751.0	6,423.6	-1,093.7	402,794.31	778,401.37	32° 6' 18.168 N	103° 34' 3.78
19,100.0	90.00	359.48	12,751.0	6,523.6	-1,094.6	402,894.30	778,400.46	32° 6' 19.158 N	103° 34' 3.78
19,200.0	90.00	359.48	12,751.0	6,623.6	-1,095.5	402,994.29	778,399.54	32° 6' 20.147 N	103° 34' 3.78
19,300.0	90.00	359.48	12,751.0	6,723.6	-1,096.4	403,094.29	778,398.63	32° 6' 21.137 N	103° 34' 3.79
19,400.0	90.00	359.48	12,751.0	6,823.6	-1,097.3	403,194.28	778,397.72	32° 6' 22.126 N	103° 34' 3.79
19,500.0	90.00	359.48	12,751.0	6,923.6	-1,098.2	403,294.27	778,396.80	32° 6' 23.116 N	103° 34' 3.79
19,600.0	90.00	359.48	12,751.0	7,023.6	-1,099.1	403,394.27	778,395.89	32° 6' 24.105 N	103° 34' 3.79'
19,700.0	90.00	359.48	12,751.0	7,123.5	-1,100.0	403,494.26	778,394.98	32° 6' 25.095 N	103° 34' 3.800
19,800.0	90.00	359.48	12,751.0	7,223.5	-1,101.0	403,594.25	778,394.06	32° 6' 26.084 N	103° 34' 3.802
19,900.0	90.00	359.48	12,751.0	7,323.5	-1,101.9	403,694.25	778,393.15	32° 6' 27.074 N	103° 34' 3.804
20,000.0	90.00	359.48	12,751.0	7,423.5	-1,102.8	403,794.24	778,392.24	32° 6' 28.063 N	103° 34' 3.80'
20,100.0	90.00	359.48	12,751.0	7,523.5	-1,103.7	403,894.23	778,391.33	32° 6' 29.053 N	103° 34' 3.80
20,200.0	90.00	359.48	12,751.0	7,623.5	-1,104.6	403,994.23	778,390.41	32° 6' 30.043 N	103° 34' 3.81°
20,200.0	90.00	359.48	12,751.0	7,723.5	-1,105.5	404,094.22	778,389.50	32° 6' 31.032 N	103° 34' 3.814
20,000.0	90.00	359.48	12,751.0	7,723.3	-1,105.6	404,105.40	778,389.40	32° 6' 31.143 N	103° 34' 3.814

#### Planning Report - Geographic

Local Co-ordinate Reference:

Database: Old

Wellbore #1

Company: Project:

Wellbore:

Lea County, NM (NAD 83)

Site: Rojo #41H Well:

BTA Oil Producers, LLC

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:**  Well Rojo #41H GL @ 3329.0usft GL @ 3329.0usft

Grid Minimum Curvature

Design: Design #1 **Design Targets** 

Target Name - hit/miss target Di - Shape	p Angle (°)	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Rojo #41H BHL	0.00	0.00	12,751.0	7,734.7	-1,105.6	404,105.40	778,389.40	32° 6′ 31.143 N	103° 34' 3.814 W

- plan hits target center - Point

rogram														
Csg.Size	From (MD)	To (MD)	From (TVD)	To (T <b>V</b> D)	Tapered String	Veight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tensio n	Dry/ Buoyant	Mud Veight (ppg)
10 3/4	0	500	0	500	No	40.5	J-55	STC	7.3	14.5	31.1	20.7	Dry	8.3
7 5/8	0	8063	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
7 5/8	8063	12174	8000	12103	yes	29.7	P110	FJ	1.6	1.6	2.6	2.7	Dry	9.4
5 1/2	0	11974	0	11903	Yes	20	P110	Buttress	1.8	1.4	2.7	2.8	Dry	14
5	11974	20311	11903	12751	Yes	18	P110	Buttress	1.8	1.4	1.6	1.7	Dry	14
s DV Tool	<b>€</b> 5000°													
5000														
ng Progr	am													
	Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Yolume (cu.ft.)	% Excess		Additives			
Lead		0	255	Class C	160	1.8	13.5	288	100%			2% CaCl2		
Tail	34	255	500	Class C	200	1.34	14.8	268	100%			2% CaCl2	je	35
Stg 2 Lead														
Stg 2 Tail	2	elec	£1000000	8000860796007	800000	150%	(32)-(34)	March (1970) 9	250200				30	0.
Stg 1 Lead		Services 8	A000000 12	10/10/07 00/040 10/00/07 00/07	5-70-000 	STORTS CONTRACTOR	**************************************	000000000000000000000000000000000000000	eriotics s				W D:	- 2
Stg 1 Tail		1012-102-6	1990000	PARK - 790RY	380740	75000	1901080	L1627820	4000000			12 1 2 2 C L L L L L L L L L L L L L L L L L	90	
		8625	12174	Class H	400	1.19	15.6	476	25%			1% CaCl2		
	0				5		0	S						70
Tail		11175	11974											(0)
Lead														
Tail		11974	20311	Class H	890	1.27	14.8	1130.3	10%	) 	0	.1% Fluid Lo	)SS	
	Csg.Size  0 3/4  5/8  5/8  1/2  s DV Tool  5000  1g Progr  ead  Fail  Stg 2 Lead  Stg 2 Tail  Stg 1 Lead  Stg 1 Tail  ead  Fail	Csg.Size   From (MD)   0 3/4	Csg.Size   From (MD)   To (MD)   0 3/4   0   500   5/8   0   8063   12174   11/2   0   11974   20311   5 DV Tool © 5000'   5000   12 Program   Top MD of Segment   12	Csg.Size   From (MD)   From (TVD)	To (MD)   From (TYD)   To (TYD)	Csg.Size   From (MD)   From (TVD)   To (TVD)   Tapered String	Csg.Size   From (MD)   To (MD)   From (TVD)   To (TVD)   Tapered String   Veight (lbs)	Csg.Size   From (MD)   From (TVD)   To (TVD)   Tapered String   Veight (lbs)   Grade	Csg.Size   From (MD)   From (TVD)   To (TVD)   Tapered String   Veight (lbs)   Grade   Conn.	Company   Comp	Case   From (MD)   From (TVD)   To (TVD)   Tapered String   Veight (lbs)   Grade   Con.   Collapse   Burst	Cag. Size   From   To (MD)   From (TVD)   To (TVD)   Tapered String   Veight (lbs)   Grade   Cons.   Collapse   Burst   Tension	Cag. Size   From   To (MD)   From (TVD)   To (TVD)   Tapered String   Veight (lbs)   Grade   Conn.   Collapse   Burst   Pension   Tension   To (TVD)   Tapered String   Veight (lbs)   Grade   Conn.   Collapse   Burst   Pension   Tension   Tensio	Cag-Size   From   To (MD)   From (TVD)   To (TVD)   T

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** | BTA OIL PRODUCERS, LLC

LEASE NO.: | NMNM05792

**WELL NAME & NO.:** | Rojo 7811 34-27 Federal 41H

**SURFACE HOLE FOOTAGE:** 2510'/N & 1365'/W **BOTTOM HOLE FOOTAGE** 50'/N & 330'/W

**LOCATION:** Section 34, T.25 S., R.33 E., NMPM

**COUNTY:** Lea County, New Mexico

COA

H2S	C Yes	<b>⊙</b> No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	• Low	© Medium	C High
Cave/Karst Potential	Critical Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	© Multibowl	O Both
Other	☐4 String Area	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	□ СОМ	□ Unit

#### All previous COAs still apply.

#### A. CASING

#### **Primary Casing Design:**

1. The **10-3/4** inch surface casing shall be set at approximately **1050 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

#### Excess cement calculates to -5%, additional cement might be required.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

- after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

#### **Option 1 (Single Stage):**

Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Excess cement calculates to -45%, additional cement might be required.

#### Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

Excess cement calculates to -6%, additional cement might be required.

- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. The minimum required fill of cement behind the production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

#### B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

#### **Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

#### **Option 2:**

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### OTA05172020