

Form 3160-5
(June 2015)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.5. Lease Serial No.
NMNM15091

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
ROJO 7811 22 FEDERAL COM 32H9. API Well No.
30-025-46094-00-X110. Field and Pool or Exploratory Area
BOBCAT DRAW-UPR WOLFCAMP11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
BTA OIL PRODUCERSContact: KATY REDDELL
E-Mail: kreddell@btaoil.com3a. Address
104 SOUTH PECOS STREET
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-682-3753 Ext: 139

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 22 T25S R33E SESW 380FSL 1330FWL
32.109705 N Lat, 103.564025 W Lon

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	Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

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.

8/27/2020: SPUD WELL

8/29/2020: DRILLED 14 3/4" HOLE. SET 10 3/4" 40.5# J-55 STC CASING @ 1,179' WITH 805 SACK CEMENT. CEMENT CIRCULATED TO SURFACE.

8/30/2020 TEST 10 3/4" CASING TO 1,500 PSI FOR 30 MIN. TEST OKAY.

9/2/2020: DRILLED 9 7/8" HOLE

9/3/2020: gih WITH 8 3/4" BIT. DRILLING 8 3/4" HOLE.

9/14/2020 (19 days) TD 10758'. Sidetrack depth 1,264' (67'). (1 day ST). WIH with

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

Electronic Submission #536231 verified by the BLM Well Information System
For BTA OIL PRODUCERS, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/03/2020 (21PP0414SE)

Name (Printed/Typed) KATY REDDELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/02/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By **ACCEPTED**JONATHON SHEPARD
Title PETROELUM ENGINEER

Date 12/16/2020

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 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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #536231 that would not fit on the form

32. Additional remarks, continued

whipstock, RU wireline, set whipstock at 1197' Drilled 9-7/8" hole

9/19/2020 (24 days) TD 10758'. Sidetrack depth 10,750' (1240'). (6 day ST). Drilling 8-3/4" hole

9/22/2020: drilled 8 3/4" hole and set 7 5/8" casing @ 12,246 in 2 stages (29.7# P-110 4713' Cobra SP & 7533' 29.7# P-110 BTC) with 585 sx. Open DV tool at 4931', cmt circ to surface off DV tool, pump 2nd stage with 1280 sx. Cmt circ to surface.

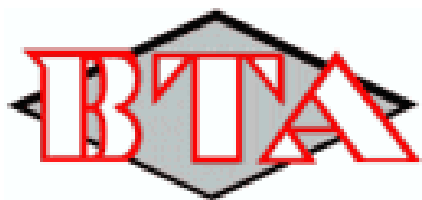
10/29/2020: drilled 6 3/4" hole and set 5 1/2"X5" tapered string C @ 17,988' [(5" 18# TXP-BTC P110 17,988' - 12,117') (5-1/2" 20# P-110 ICY TXP-BTC to surface)] with 1390 sx. Cmt did not circ to surface, TOC calc 727'.

TD Reached: 10/27/2020 @ 18,007'.

10/30/2020: rig released.

Revisions to Operator-Submitted EC Data for Sundry Notice #536231

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	DRG NOI	DRG SR
Lease:	NMNM15091	NMNM15091
Agreement:		
Operator:	BTA OIL PRODUCERS, LLC 104 S. PECOS MIDLAND, TX 79701 Ph: 432-682-3753	BTA OIL PRODUCERS 104 SOUTH PECOS STREET MIDLAND, TX 79701 Ph: 432.682.3753 Fx: 432.683.0325
Admin Contact:	KATY REDDELL REGULATORY ANALYST E-Mail: kreddell@btaoil.com Ph: 432-682-3753	KATY REDDELL REGULATORY ANALYST E-Mail: kreddell@btaoil.com Ph: 432-682-3753 Ext: 139
Tech Contact:	KATY REDDELL REGULATORY ANALYST E-Mail: kreddell@btaoil.com Ph: 432-682-3753	KATY REDDELL REGULATORY ANALYST E-Mail: kreddell@btaoil.com Ph: 432-682-3753 Ext: 139
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	BOBCAT DRAW; UPPER WOLF	BOBCAT DRAW-UPR WOLFCAMP
Well/Facility:	ROJO 7811 22 FEDERAL COM 32H Sec 22 T25S R33E SESW 380FSL 1330FWL 32.109705 N Lat, 103.564025 W Lon	ROJO 7811 22 FEDERAL COM 32H Sec 22 T25S R33E SESW 380FSL 1330FWL 32.109705 N Lat, 103.564025 W Lon



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Sec 22, T25-S, R33-E

Rojo 7811 22 Fed #32H

Sidetrack #1

Design: Sidetrack #1

QES Survey Report

26 October, 2020





QES Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo 7811 22 Fed #32H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3372.0usft (Patterson #288)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3372.0usft (Patterson #288)
Well:	Rojo 7811 22 Fed #32H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 Single User Db

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 22, T25-S, R33-E		
Site Position:		Northing:	409,243.40 usft
From:	Map	Easting:	781,148.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 21.790 N
		Longitude:	103° 33' 31.310 W
		Grid Convergence:	0.41 °

Well	Rojo 7811 22 Fed #32H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 35.387 N
		Longitude:	103° 33' 52.187 W
		Ground Level:	3,347.0 usft

Wellbore	Sidetrack #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	10/13/2020	6.48	59.68	47,632.20000000

Design	Sidetrack #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	1,148.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	3.39	

Survey Program	Date	10/26/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
199.0	1,148.0	QES MWD Surveys (Wellbore #1)	MWD	OWSG MWD - Standard	
1,281.0	18,007.0	QES MWD Surveys - ST01 (Sidetrack #1)	MWD	OWSG MWD - Standard	

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	
199.0	0.30	182.00	199.0	-0.5	0.0	-0.5	0.15	0.15	0.00	
327.0	0.20	266.40	327.0	-0.9	-0.3	-0.9	0.27	-0.08	65.94	
451.0	0.20	305.80	451.0	-0.8	-0.6	-0.8	0.11	0.00	31.77	
567.0	0.70	304.10	567.0	-0.2	-1.4	-0.3	0.43	0.43	-1.47	
717.0	1.30	292.90	717.0	0.9	-3.7	0.7	0.42	0.40	-7.47	
812.0	2.20	281.00	811.9	1.7	-6.5	1.3	1.02	0.95	-12.53	
907.0	3.80	277.20	906.8	2.4	-11.4	1.8	1.70	1.68	-4.00	
1,003.0	5.50	281.80	1,002.5	3.8	-19.1	2.6	1.81	1.77	4.79	
1,098.0	5.90	287.90	1,097.0	6.2	-28.2	4.5	0.76	0.42	6.42	



QES Survey Report



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Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3372.0usft (Patterson #288)
Well:	Rojo 7811 22 Fed #32H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 Single User Db

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)
ST01 Tie In @ 1148.0'MD / 1146.7' TVD									
1,148.0	5.80	289.30	1,146.7	7.8	-33.0	5.9	0.35	-0.20	2.80
1,281.0	5.80	353.80	1,279.2	16.8	-40.1	14.4	4.65	0.00	48.50
1,376.0	4.20	35.10	1,373.9	24.4	-38.6	22.0	4.03	-1.68	43.47
1,472.0	4.40	87.20	1,469.6	27.4	-32.9	25.4	3.94	0.21	54.27
1,567.0	4.80	104.80	1,564.3	26.6	-25.4	25.0	1.54	0.42	18.53
1,662.0	4.80	106.00	1,659.0	24.5	-17.8	23.4	0.11	0.00	1.26
1,757.0	4.80	107.60	1,753.7	22.2	-10.1	21.5	0.14	0.00	1.68
1,852.0	5.00	107.70	1,848.3	19.7	-2.4	19.5	0.21	0.21	0.11
1,947.0	5.00	108.70	1,942.9	17.1	5.5	17.4	0.09	0.00	1.05
2,042.0	5.10	111.40	2,037.6	14.3	13.3	15.0	0.27	0.11	2.84
2,137.0	5.10	112.00	2,132.2	11.1	21.2	12.4	0.06	0.00	0.63
2,232.0	4.90	114.50	2,226.8	7.9	28.8	9.6	0.31	-0.21	2.63
2,326.0	4.70	113.40	2,320.5	4.7	35.9	6.8	0.23	-0.21	-1.17
2,421.0	6.20	122.00	2,415.1	0.4	43.9	3.0	1.79	1.58	9.05
2,517.0	6.40	124.60	2,510.5	-5.4	52.7	-2.2	0.36	0.21	2.71
2,612.0	6.40	125.00	2,604.9	-11.4	61.4	-7.8	0.05	0.00	0.42
2,707.0	6.30	125.30	2,699.3	-17.5	70.0	-13.3	0.11	-0.11	0.32
2,801.0	6.00	125.70	2,792.8	-23.3	78.2	-18.6	0.32	-0.32	0.43
2,896.0	5.80	124.90	2,887.3	-28.9	86.1	-23.8	0.23	-0.21	-0.84
2,991.0	5.70	120.10	2,981.8	-34.1	94.1	-28.4	0.52	-0.11	-5.05
3,086.0	6.90	126.30	3,076.2	-39.8	102.8	-33.7	1.45	1.26	6.53
3,181.0	7.60	124.70	3,170.5	-46.8	112.6	-40.0	0.77	0.74	-1.68
3,277.0	7.90	119.50	3,265.6	-53.6	123.5	-46.2	0.79	0.31	-5.42
3,372.0	7.70	132.20	3,359.7	-61.1	133.9	-53.1	1.82	-0.21	13.37
3,466.0	7.80	133.70	3,452.9	-69.7	143.2	-61.2	0.24	0.11	1.60
3,562.0	7.30	134.30	3,548.0	-78.5	152.3	-69.4	0.53	-0.52	0.63
3,657.0	7.20	136.90	3,642.3	-87.1	160.7	-77.4	0.36	-0.11	2.74
3,752.0	7.00	138.30	3,736.5	-95.7	168.6	-85.6	0.28	-0.21	1.47
3,847.0	6.60	122.60	3,830.9	-103.0	177.1	-92.4	1.99	-0.42	-16.53
3,942.0	6.50	122.50	3,925.3	-108.8	186.2	-97.6	0.11	-0.11	-0.11
4,037.0	6.10	123.50	4,019.7	-114.5	194.9	-102.8	0.44	-0.42	1.05
4,132.0	5.80	124.70	4,114.2	-120.0	203.1	-107.8	0.34	-0.32	1.26
4,227.0	5.90	123.90	4,208.7	-125.5	211.1	-112.8	0.14	0.11	-0.84
4,322.0	7.00	123.40	4,303.1	-131.4	220.0	-118.2	1.16	1.16	-0.53
4,417.0	7.00	121.10	4,397.4	-137.6	229.8	-123.7	0.30	0.00	-2.42
4,512.0	6.80	127.50	4,491.7	-144.0	239.2	-129.6	0.84	-0.21	6.74
4,608.0	7.60	133.70	4,586.9	-151.8	248.3	-136.9	1.16	0.83	6.46
4,703.0	8.50	134.60	4,681.0	-161.1	257.8	-145.6	0.96	0.95	0.95
4,798.0	7.00	131.70	4,775.1	-169.9	267.1	-153.8	1.63	-1.58	-3.05
4,893.0	5.90	127.50	4,869.5	-176.7	275.3	-160.1	1.26	-1.16	-4.42
4,987.0	5.60	127.00	4,963.0	-182.4	282.8	-165.4	0.32	-0.32	-0.53
5,082.0	4.80	128.90	5,057.7	-187.7	289.6	-170.2	0.86	-0.84	2.00



QES Survey Report



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Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 Single User Db

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)
5,177.0	4.70	123.80	5,152.3	-192.4	296.0	-174.5	0.46	-0.11	-5.37
5,272.0	5.00	120.90	5,247.0	-196.6	302.7	-178.4	0.41	0.32	-3.05
5,367.0	5.00	121.20	5,341.6	-200.9	309.8	-182.2	0.03	0.00	0.32
5,462.0	4.80	118.20	5,436.3	-204.9	316.9	-185.8	0.34	-0.21	-3.16
5,557.0	4.70	117.30	5,531.0	-208.6	323.8	-189.1	0.13	-0.11	-0.95
5,652.0	5.70	126.40	5,625.6	-213.2	331.1	-193.2	1.36	1.05	9.58
5,747.0	6.10	128.40	5,720.1	-219.1	338.9	-198.7	0.47	0.42	2.11
5,842.0	6.10	128.70	5,814.5	-225.4	346.7	-204.5	0.03	0.00	0.32
5,937.0	6.10	127.60	5,909.0	-231.6	354.7	-210.3	0.12	0.00	-1.16
6,032.0	6.00	128.60	6,003.5	-237.8	362.6	-216.0	0.15	-0.11	1.05
6,127.0	5.60	128.30	6,098.0	-243.8	370.1	-221.5	0.42	-0.42	-0.32
6,222.0	5.50	127.20	6,192.5	-249.4	377.3	-226.7	0.15	-0.11	-1.16
6,317.0	5.50	126.50	6,287.1	-254.9	384.6	-231.7	0.07	0.00	-0.74
6,412.0	5.80	128.30	6,381.6	-260.6	392.1	-236.9	0.37	0.32	1.89
6,507.0	5.80	127.70	6,476.1	-266.5	399.6	-242.4	0.06	0.00	-0.63
6,602.0	5.80	127.40	6,570.6	-272.3	407.2	-247.8	0.03	0.00	-0.32
6,697.0	5.80	126.90	6,665.2	-278.1	414.9	-253.1	0.05	0.00	-0.53
6,792.0	5.50	128.40	6,759.7	-283.8	422.3	-258.4	0.35	-0.32	1.58
6,888.0	4.50	136.90	6,855.3	-289.4	428.5	-263.6	1.29	-1.04	8.85
6,983.0	3.90	140.30	6,950.1	-294.6	433.1	-268.5	0.68	-0.63	3.58
7,078.0	3.90	140.10	7,044.9	-299.6	437.2	-273.2	0.01	0.00	-0.21
7,173.0	3.80	140.30	7,139.6	-304.5	441.3	-277.9	0.11	-0.11	0.21
7,268.0	3.60	139.70	7,234.4	-309.2	445.2	-282.3	0.21	-0.21	-0.63
7,363.0	3.30	139.70	7,329.3	-313.6	448.9	-286.5	0.32	-0.32	0.00
7,458.0	3.30	140.10	7,424.1	-317.8	452.5	-290.4	0.02	0.00	0.42
7,553.0	3.40	140.50	7,519.0	-322.0	456.0	-294.5	0.11	0.11	0.42
7,648.0	2.90	141.90	7,613.8	-326.1	459.3	-298.4	0.53	-0.53	1.47
7,742.0	2.90	144.20	7,707.7	-329.9	462.1	-302.0	0.12	0.00	2.45
7,837.0	1.50	153.50	7,802.6	-333.0	464.1	-304.9	1.52	-1.47	9.79
7,932.0	1.40	160.80	7,897.6	-335.2	465.0	-307.1	0.22	-0.11	7.68
8,027.0	1.50	161.70	7,992.6	-337.4	465.8	-309.3	0.11	0.11	0.95
8,123.0	1.50	169.50	8,088.5	-339.9	466.4	-311.7	0.21	0.00	8.13
8,218.0	1.60	174.20	8,183.5	-342.4	466.8	-314.2	0.17	0.11	4.95
8,313.0	1.50	170.30	8,278.5	-345.0	467.1	-316.7	0.15	-0.11	-4.11
8,408.0	1.50	180.30	8,373.4	-347.4	467.3	-319.2	0.28	0.00	10.53
8,503.0	1.50	186.50	8,468.4	-349.9	467.2	-321.7	0.17	0.00	6.53
8,598.0	1.70	184.60	8,563.4	-352.5	466.9	-324.3	0.22	0.21	-2.00
8,693.0	1.60	184.50	8,658.3	-355.3	466.7	-327.0	0.11	-0.11	-0.11
8,789.0	1.60	183.90	8,754.3	-357.9	466.5	-329.7	0.02	0.00	-0.63
8,877.0	1.80	195.40	8,842.2	-360.5	466.1	-332.3	0.45	0.23	13.07
8,972.0	0.70	354.60	8,937.2	-361.4	465.6	-333.2	2.60	-1.16	167.58
9,067.0	0.60	337.20	9,032.2	-360.3	465.4	-332.2	0.23	-0.11	-18.32
9,162.0	0.80	304.40	9,127.2	-359.5	464.6	-331.4	0.46	0.21	-34.53



QES Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo 7811 22 Fed #32H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3372.0usft (Patterson #288)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3372.0usft (Patterson #288)
Well:	Rojo 7811 22 Fed #32H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 Single User Db

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)
9,257.0	1.00	253.90	9,222.2	-359.3	463.3	-331.3	0.83	0.21	-53.16
9,352.0	1.90	248.80	9,317.2	-360.1	461.0	-332.3	0.96	0.95	-5.37
9,447.0	0.80	207.60	9,412.1	-361.3	459.3	-333.5	1.47	-1.16	-43.37
9,542.0	0.80	229.70	9,507.1	-362.3	458.4	-334.6	0.32	0.00	23.26
9,638.0	0.70	13.70	9,603.1	-362.2	458.1	-334.5	1.49	-0.10	150.00
9,733.0	0.60	3.80	9,698.1	-361.1	458.2	-333.4	0.16	-0.11	-10.42
9,828.0	0.70	316.80	9,793.1	-360.2	457.9	-332.5	0.55	0.11	-49.47
9,923.0	1.30	309.50	9,888.1	-359.1	456.6	-331.5	0.64	0.63	-7.68
10,018.0	2.00	305.30	9,983.1	-357.4	454.5	-330.0	0.75	0.74	-4.42
10,113.0	1.80	259.80	10,078.0	-356.8	451.6	-329.4	1.56	-0.21	-47.89
10,208.0	0.30	264.10	10,173.0	-357.0	449.9	-329.8	1.58	-1.58	4.53
10,303.0	0.10	283.60	10,268.0	-357.1	449.6	-329.8	0.22	-0.21	20.53
10,398.0	0.30	296.60	10,363.0	-356.9	449.3	-329.7	0.21	0.21	13.68
10,494.0	1.40	227.70	10,459.0	-357.6	448.2	-330.5	1.38	1.15	-71.77
10,589.0	1.30	226.80	10,554.0	-359.1	446.6	-332.1	0.11	-0.11	-0.95
10,684.0	0.50	74.30	10,649.0	-359.7	446.2	-332.7	1.85	-0.84	-160.53
10,779.0	0.30	117.00	10,744.0	-359.7	446.8	-332.7	0.36	-0.21	44.95
10,874.0	0.10	130.30	10,839.0	-359.9	447.1	-332.8	0.21	-0.21	14.00
10,969.0	1.00	255.40	10,933.9	-360.2	446.3	-333.1	1.12	0.95	131.68
11,064.0	0.60	176.70	11,028.9	-360.9	445.6	-333.9	1.12	-0.42	-82.84
11,159.0	1.20	192.60	11,123.9	-362.3	445.4	-335.4	0.68	0.63	16.74
11,254.0	0.90	281.80	11,218.9	-363.2	444.4	-336.2	1.57	-0.32	93.89
11,348.0	1.10	338.80	11,312.9	-362.2	443.4	-335.3	1.03	0.21	60.64
11,443.0	2.10	289.00	11,407.9	-360.8	441.4	-334.0	1.71	1.05	-52.42
11,538.0	1.40	270.20	11,502.8	-360.2	438.6	-333.6	0.94	-0.74	-19.79
11,633.0	0.90	324.00	11,597.8	-359.6	437.0	-333.1	1.19	-0.53	56.63
11,728.0	0.80	345.60	11,692.8	-358.3	436.4	-331.9	0.35	-0.11	22.74
11,823.0	1.40	310.30	11,787.8	-356.9	435.3	-330.6	0.92	0.63	-37.16
11,917.0	0.50	61.30	11,881.8	-356.0	434.8	-329.7	1.75	-0.96	118.09
12,012.0	0.20	117.30	11,976.8	-355.9	435.3	-329.5	0.44	-0.32	58.95
12,107.0	0.40	223.60	12,071.8	-356.2	435.3	-329.8	0.52	0.21	111.89
12,200.0	0.40	186.50	12,164.8	-356.7	435.0	-330.4	0.27	0.00	-39.89
12,278.0	0.70	216.10	12,242.8	-357.4	434.7	-331.1	0.52	0.38	37.95
12,350.0	1.10	123.10	12,314.8	-358.1	435.0	-331.8	1.85	0.56	-129.17
12,444.0	10.60	85.30	12,408.2	-357.9	444.4	-331.0	10.38	10.11	-40.21
12,534.0	22.30	76.10	12,494.4	-353.1	469.3	-324.8	13.28	13.00	-10.22
12,629.0	25.20	48.70	12,581.6	-335.4	502.1	-305.1	11.90	3.05	-28.84
12,725.0	37.10	36.60	12,663.7	-298.5	534.9	-266.3	13.95	12.40	-12.60
100' HL Crossed @ 12766.6' MD / 12695.6' TVD									
12,766.6	42.51	30.91	12,695.6	-276.3	549.6	-243.3	15.67	13.02	-13.67
12,828.0	50.90	24.40	12,737.7	-236.7	570.1	-202.6	15.67	13.66	-10.61
12,922.0	65.90	10.90	12,787.0	-160.7	593.5	-125.3	20.06	15.96	-14.36
13,017.0	84.70	1.60	12,811.0	-69.8	603.2	-34.1	21.92	19.79	-9.79
13,131.0	91.80	347.30	12,814.5	43.2	592.2	78.1	13.99	6.23	-12.54



QES Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo 7811 22 Fed #32H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3372.0usft (Patterson #288)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3372.0usft (Patterson #288)
Well:	Rojo 7811 22 Fed #32H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 Single User Db

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)
13,225.0	92.40	345.70	12,811.1	134.5	570.2	168.0	1.82	0.64	-1.70
13,321.0	92.20	342.30	12,807.2	226.7	543.8	258.5	3.54	-0.21	-3.54
13,416.0	95.10	339.70	12,801.2	316.4	512.9	346.1	4.10	3.05	-2.74
13,511.0	91.00	336.90	12,796.1	404.5	477.9	432.0	5.22	-4.32	-2.95
13,605.0	93.60	334.80	12,792.4	490.2	439.4	515.3	3.55	2.77	-2.23
13,700.0	91.50	336.50	12,788.1	576.6	400.3	599.3	2.84	-2.21	1.79
13,795.0	89.90	339.00	12,787.0	664.5	364.4	684.9	3.12	-1.68	2.63
13,889.0	93.80	346.20	12,783.9	754.1	336.3	772.7	8.71	4.15	7.66
13,984.0	92.90	355.50	12,778.4	847.6	321.2	865.1	9.82	-0.95	9.79
14,078.0	87.50	356.80	12,778.0	941.4	314.9	958.3	5.91	-5.74	1.38
14,173.0	85.70	355.50	12,783.7	1,036.0	308.5	1,052.4	2.34	-1.89	-1.37
14,268.0	87.80	359.20	12,789.1	1,130.7	304.2	1,146.7	4.47	2.21	3.89
14,363.0	86.30	1.10	12,793.9	1,225.6	304.4	1,241.4	2.55	-1.58	2.00
14,458.0	85.30	1.50	12,800.9	1,320.3	306.6	1,336.1	1.13	-1.05	0.42
14,552.0	87.30	1.00	12,807.0	1,414.1	308.6	1,429.8	2.19	2.13	-0.53
14,646.0	91.30	1.50	12,808.1	1,508.0	310.6	1,523.8	4.29	4.26	0.53
14,741.0	91.60	2.00	12,805.7	1,603.0	313.6	1,618.7	0.61	0.32	0.53
14,836.0	89.80	2.40	12,804.6	1,697.9	317.2	1,713.7	1.94	-1.89	0.42
14,930.0	90.40	0.10	12,804.4	1,791.8	319.2	1,807.6	2.53	0.64	-2.45
15,025.0	90.30	359.40	12,803.8	1,886.8	318.8	1,902.4	0.74	-0.11	-0.74
15,120.0	92.10	359.20	12,801.8	1,981.8	317.7	1,997.1	1.91	1.89	-0.21
15,214.0	87.80	356.80	12,801.9	2,075.7	314.4	2,090.7	5.24	-4.57	-2.55
15,308.0	88.00	355.00	12,805.3	2,169.4	307.7	2,183.8	1.93	0.21	-1.91
15,403.0	89.90	358.50	12,807.1	2,264.2	302.3	2,278.1	4.19	2.00	3.68
15,497.0	89.50	358.70	12,807.6	2,358.2	300.0	2,371.8	0.48	-0.43	0.21
15,592.0	89.80	357.50	12,808.2	2,453.1	296.8	2,466.4	1.30	0.32	-1.26
15,686.0	89.20	358.50	12,809.0	2,547.1	293.6	2,560.0	1.24	-0.64	1.06
15,781.0	86.40	0.30	12,812.6	2,642.0	292.6	2,654.7	3.50	-2.95	1.89
15,876.0	87.70	0.60	12,817.5	2,736.9	293.3	2,749.4	1.40	1.37	0.32
15,971.0	84.90	0.10	12,823.6	2,831.6	293.9	2,844.1	2.99	-2.95	-0.53
16,066.0	88.50	359.90	12,829.1	2,926.5	293.9	2,938.7	3.80	3.79	-0.21
16,161.0	90.50	359.40	12,829.9	3,021.5	293.3	3,033.5	2.17	2.11	-0.53
16,256.0	91.70	358.90	12,828.1	3,116.4	291.9	3,128.2	1.37	1.26	-0.53
16,350.0	89.80	359.40	12,826.9	3,210.4	290.5	3,222.0	2.09	-2.02	0.53
16,445.0	90.00	359.40	12,827.1	3,305.4	289.5	3,316.7	0.21	0.21	0.00
16,540.0	89.50	356.80	12,827.5	3,400.3	286.4	3,411.3	2.79	-0.53	-2.74
16,635.0	90.90	359.20	12,827.1	3,495.3	283.1	3,505.9	2.92	1.47	2.53
16,729.0	90.00	356.60	12,826.4	3,589.2	279.6	3,599.5	2.93	-0.96	-2.77
16,823.0	90.80	0.10	12,825.7	3,683.1	276.9	3,693.1	3.82	0.85	3.72
16,917.0	84.90	359.70	12,829.3	3,777.0	276.7	3,786.8	6.29	-6.28	-0.43
17,012.0	91.10	2.60	12,832.6	3,871.9	278.6	3,881.6	7.20	6.53	3.05
17,107.0	93.40	3.10	12,828.9	3,966.7	283.4	3,976.5	2.48	2.42	0.53
17,202.0	91.20	3.10	12,825.0	4,061.5	288.5	4,071.4	2.32	-2.32	0.00



QES
Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo 7811 22 Fed #32H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3372.0usft (Patterson #288)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3372.0usft (Patterson #288)
Well:	Rojo 7811 22 Fed #32H	North Reference:	Grid
Wellbore:	Sidetrack #1	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #1	Database:	EDM 5000.1 Single User Db

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)	
17,296.0	90.00	1.50	12,824.1	4,155.4	292.3	4,165.4	2.13	-1.28	-1.70	
17,391.0	89.50	2.00	12,824.5	4,250.4	295.2	4,260.4	0.74	-0.53	0.53	
17,486.0	90.40	2.00	12,824.6	4,345.3	298.5	4,355.3	0.95	0.95	0.00	
17,582.0	89.30	2.00	12,824.8	4,441.2	301.8	4,451.3	1.15	-1.15	0.00	
17,677.0	88.20	359.90	12,826.9	4,536.2	303.4	4,546.2	2.49	-1.16	-2.21	
17,772.0	88.20	359.00	12,829.9	4,631.1	302.5	4,640.9	0.95	0.00	-0.95	
17,867.0	92.30	358.30	12,829.4	4,726.1	300.3	4,735.6	4.38	4.32	-0.74	
100' HL Crossed @ 17943.6' MD / 12826.3' TVD										
17,943.6	92.39	358.03	12,826.3	4,802.6	297.8	4,811.8	0.38	0.12	-0.36	
17,951.0	92.40	358.00	12,826.0	4,810.0	297.6	4,819.2	0.38	0.12	-0.36	
TD @ 18007.0' MD / 12823.7' TVD										
18,007.0	92.40	358.00	12,823.7	4,865.9	295.6	4,874.9	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,148.0	1,146.7	7.8	-33.0	ST01 Tie In @ 1148.0' MD / 1146.7' TVD	
12,766.6	12,695.6	-276.3	549.6	100' HL Crossed @ 12766.6' MD / 12695.6' TVD	
17,943.6	12,826.3	4,802.6	297.8	100' HL Crossed @ 17943.6' MD / 12826.3' TVD	
18,007.0	12,823.7	4,865.9	295.6	TD @ 18007.0' MD / 12823.7' TVD	

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 35429

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 35429
	Action Type: [C-103] Sub. Drilling (C-103N)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	7/8/2021