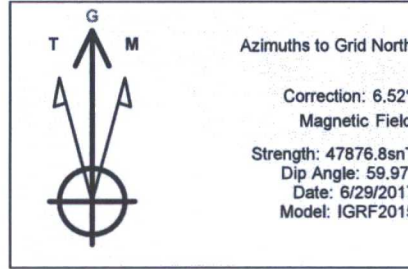
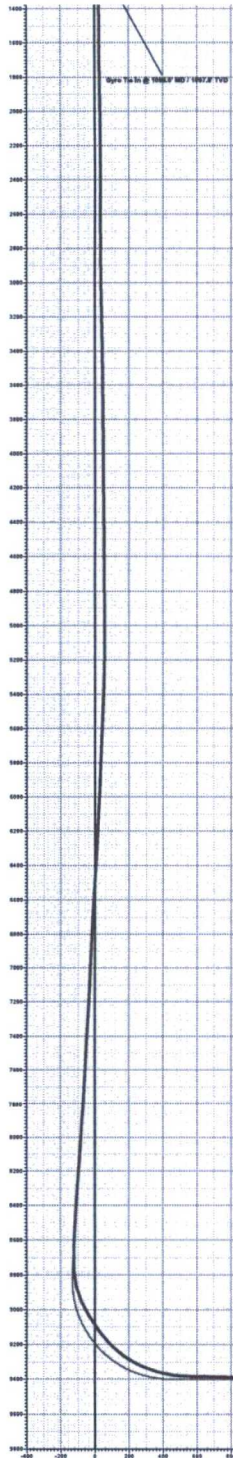


Company Name: BTA Oil Producers, LLC
 Rojo D 7811 JV-P Com #2H
 Lea County, NM (NAD 83)
 Rig: Momac #94
 Created By: Shane Robbins
 Date: 8/1/2017

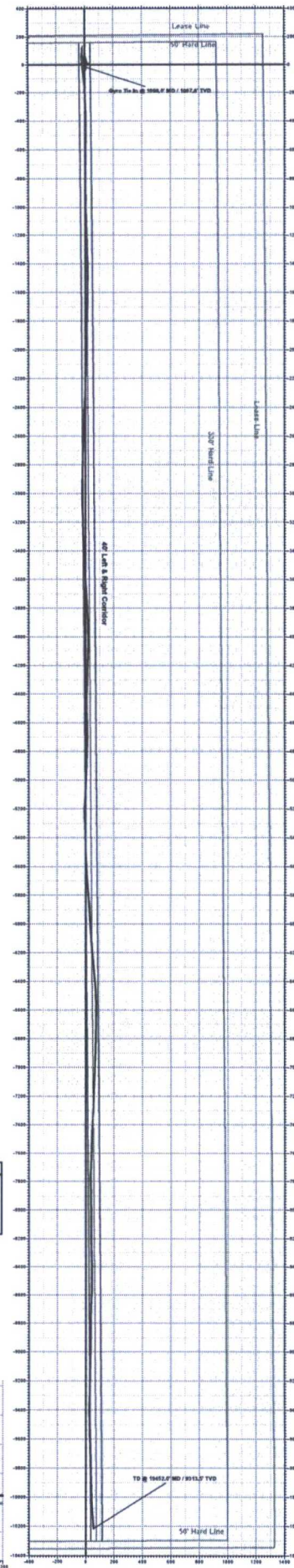
Rojo D 7811 JV-P Com #2H
 Lea County, NM (NAD 83)
 Q170860 & WT-170724
 Target Change #1



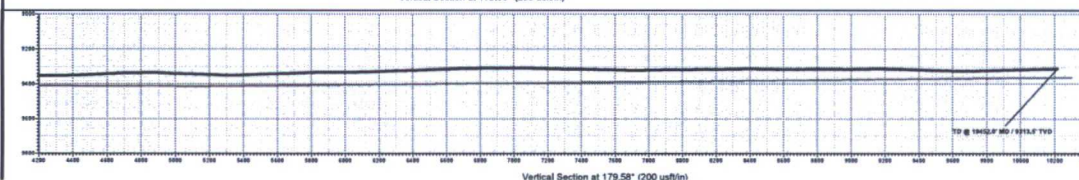
PROJECT DETAILS: Lea County, NM (NAD 83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

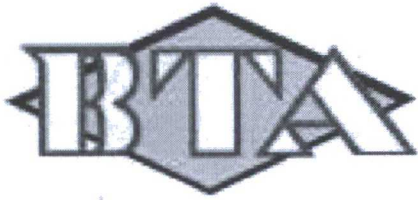
WELL DETAILS: Rojo D 7811 JV-P Com #2H					
		Ground Level	3348.0		
NAD-83	E-W	Northing	82572.10	Latitude	32° 7' 31.787 N
0.0	0.0	Eastings	78572.10	Longitude	103° 17' 20.567 W

ANNOTATIONS									
MD	Inc	Azi	TVD	+N-S	+E-W	V-Sect	Departure	Annotation	
1068.8	1.51	169.57	1067.8	-16.8	0.0	15.9	21.2	Dyna Tie In @ 1068.8' MD / 1067.8' TVD	
19452.0	91.80	175.30	8313.5	-10217.1	54.8	10217.2	10621.6	TD @ 19452.0' MD / 8313.5' TVD	



Vertical Section at 179.58° (200 usf/in)





BTA Oil Producers, LLC

**Lea County, NM (NAD 83)
Sec 22, T25-S, R33-E
Rojo D 7811 JV-P Com #2H**

Wellbore #1

Design: Wellbore #1

QES Survey Report

01 August, 2017





Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo D 7811 JV-P Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Nomac #94)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3374.0usft (Nomac #94)
Well:	Rojo D 7811 JV-P Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #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	Latitude:	32° 7' 21.790 N
From:	Map	Easting:	781,148.30 usft	Longitude:	103° 33' 31.310 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Rojo D 7811 JV-P Com #2H					
Well Position	+N/-S	0.0 usft	Northing:	409,249.80 usft	Latitude:	32° 7' 21.787 N
	+E/-W	0.0 usft	Easting:	782,072.10 usft	Longitude:	103° 33' 20.567 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft	Ground Level:	3,349.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/29/2017	6.94	59.97	47,876.75100439

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.58	

Survey Program	Date	8/1/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,098.0	MS Gyros (Wellbore #1)	GYRO-NS	OWSG Gyrocompass Gyro	
1,288.0	19,452.0	MWD Surveys (Wellbore #1)	MWD default	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	
100.0	0.19	34.27	100.0	0.1	0.1	-0.1	0.19	0.19	0.00	
200.0	0.97	108.35	200.0	0.0	1.0	0.0	0.94	0.78	74.08	
300.0	0.95	110.57	300.0	-0.6	2.6	0.6	0.04	-0.02	2.22	
400.0	0.98	125.70	400.0	-1.3	4.0	1.4	0.26	0.03	15.13	
500.0	0.94	138.93	500.0	-2.5	5.3	2.5	0.22	-0.04	13.23	
600.0	1.41	162.72	599.9	-4.3	6.2	4.3	0.67	0.47	23.79	
700.0	1.55	162.76	699.9	-6.7	6.9	6.8	0.14	0.14	0.04	
800.0	1.34	169.69	799.9	-9.2	7.6	9.2	0.27	-0.21	6.93	
900.0	1.77	187.27	899.8	-11.8	7.6	11.9	0.64	0.43	17.58	



Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo D 7811 JV-P Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Nomac #94)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3374.0usft (Nomac #94)
Well:	Rojo D 7811 JV-P Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #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)
1,000.0	1.30	168.71	999.8	-14.5	7.6	14.5	0.68	-0.47	-18.56
Gyro Tie In @ 1098.0' MD / 1097.8' TVD									
1,098.0	1.51	169.57	1,097.8	-16.8	8.0	16.9	0.22	0.21	0.88
1,288.0	1.90	181.30	1,287.7	-22.5	8.4	22.5	0.27	0.21	6.17
1,478.0	0.30	88.60	1,477.6	-25.6	8.9	25.7	1.02	-0.84	-48.79
1,668.0	0.50	193.90	1,667.6	-26.4	9.2	26.5	0.34	0.11	55.42
1,858.0	1.10	219.00	1,857.6	-28.6	7.8	28.7	0.36	0.32	13.21
2,048.0	1.00	222.70	2,047.6	-31.2	5.5	31.3	0.06	-0.05	1.95
2,238.0	0.90	268.60	2,237.6	-32.5	2.9	32.5	0.39	-0.05	24.16
2,427.0	1.10	270.00	2,426.5	-32.5	-0.4	32.5	0.11	0.11	0.74
2,617.0	1.10	258.80	2,616.5	-32.9	-4.0	32.9	0.11	0.00	-5.89
2,807.0	0.60	265.50	2,806.5	-33.3	-6.8	33.3	0.27	-0.26	3.53
2,997.0	1.10	161.40	2,996.5	-35.1	-7.2	35.1	0.72	0.26	-54.79
3,187.0	1.70	154.40	3,186.4	-39.4	-5.4	39.4	0.33	0.32	-3.68
3,377.0	0.80	203.60	3,376.4	-43.2	-4.7	43.1	0.70	-0.47	25.89
3,567.0	1.00	224.00	3,566.3	-45.6	-6.4	45.5	0.20	0.11	10.74
3,757.0	0.60	225.90	3,756.3	-47.5	-8.2	47.4	0.21	-0.21	1.00
3,947.0	0.30	166.40	3,946.3	-48.6	-8.8	48.6	0.27	-0.16	-31.32
4,137.0	0.40	155.40	4,136.3	-49.7	-8.5	49.6	0.06	0.05	-5.79
4,325.0	0.50	138.00	4,324.3	-50.9	-7.6	50.9	0.09	0.05	-9.26
4,515.0	1.00	117.40	4,514.3	-52.3	-5.6	52.3	0.29	0.26	-10.84
4,705.0	2.00	123.80	4,704.2	-54.9	-1.4	54.9	0.53	0.53	3.37
4,895.0	0.80	277.90	4,894.2	-56.6	0.1	56.6	1.44	-0.63	81.11
4,958.0	0.90	270.70	4,957.2	-56.5	-0.9	56.5	0.23	0.16	-11.43
5,156.0	1.00	281.80	5,155.2	-56.1	-4.1	56.1	0.11	0.05	5.61
5,347.0	2.40	339.60	5,346.1	-52.0	-7.1	52.0	1.07	0.73	30.26
5,537.0	2.20	342.30	5,535.9	-44.8	-9.6	44.8	0.12	-0.11	1.42
5,727.0	2.00	341.40	5,725.8	-38.2	-11.8	38.1	0.11	-0.11	-0.47
5,917.0	2.50	354.70	5,915.7	-31.0	-13.2	30.9	0.38	0.26	7.00
6,107.0	3.40	357.00	6,105.4	-21.2	-13.9	21.1	0.48	0.47	1.21
6,296.0	3.10	354.00	6,294.1	-10.5	-14.7	10.4	0.18	-0.16	-1.59
6,487.0	3.20	353.50	6,484.8	-0.1	-15.9	0.0	0.05	0.05	-0.26
6,677.0	3.00	353.30	6,674.5	10.1	-17.1	-10.2	0.11	-0.11	-0.11
6,867.0	2.90	353.00	6,864.3	19.8	-18.2	-20.0	0.05	-0.05	-0.16
7,057.0	2.50	345.40	7,054.1	28.6	-19.9	-28.8	0.28	-0.21	-4.00
7,247.0	3.40	5.80	7,243.8	38.2	-20.3	-38.4	0.72	0.47	10.74
7,437.0	3.10	2.10	7,433.5	49.0	-19.6	-49.1	0.19	-0.16	-1.95
7,627.0	2.60	359.10	7,623.3	58.4	-19.5	-58.5	0.27	-0.26	-1.58
7,816.0	4.00	0.70	7,812.0	69.3	-19.4	-69.4	0.74	0.74	0.85
7,911.0	3.90	1.40	7,906.7	75.8	-19.3	-76.0	0.12	-0.11	0.74
8,006.0	3.40	4.20	8,001.5	81.9	-19.0	-82.0	0.56	-0.53	2.95
8,196.0	4.40	6.70	8,191.1	94.7	-17.8	-94.9	0.53	0.53	1.32
8,386.0	3.80	3.40	8,380.6	108.2	-16.6	-108.4	0.34	-0.32	-1.74



Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo D 7811 JV-P Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Nomac #94)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3374.0usft (Nomac #94)
Well:	Rojo D 7811 JV-P Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #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)
8,575.0	3.30	0.90	8,569.3	119.9	-16.1	-120.1	0.28	-0.26	-1.32
8,717.0	0.20	305.50	8,711.2	124.2	-16.2	-124.3	2.25	-2.18	-39.01
8,777.0	1.20	193.00	8,771.2	123.6	-16.5	-123.7	2.15	1.67	-187.50
8,872.0	14.40	176.00	8,865.1	110.8	-15.9	-110.9	13.95	13.89	-17.89
8,967.0	25.10	181.90	8,954.4	78.8	-15.7	-78.9	11.44	11.26	6.21
9,061.0	32.10	180.40	9,036.9	33.8	-16.5	-34.0	7.49	7.45	-1.60
9,157.0	36.70	174.60	9,116.1	-20.3	-14.0	20.2	5.88	4.79	-6.04
9,252.0	43.70	175.30	9,188.6	-81.3	-8.6	81.3	7.38	7.37	0.74
9,347.0	52.10	177.00	9,252.2	-151.6	-4.0	151.6	8.94	8.84	1.79
9,442.0	61.60	176.90	9,304.1	-230.9	0.2	230.9	10.00	10.00	-0.11
9,536.0	70.20	178.10	9,342.5	-316.6	3.9	316.6	9.22	9.15	1.28
9,631.0	77.90	179.70	9,368.5	-407.8	5.7	407.8	8.27	8.11	1.68
9,726.0	86.80	180.70	9,381.2	-501.9	5.3	501.9	9.43	9.37	1.05
9,847.0	89.00	180.40	9,385.6	-622.8	4.2	622.8	1.83	1.82	-0.25
10,037.0	89.00	179.70	9,388.9	-812.7	4.0	812.8	0.37	0.00	-0.37
10,227.0	88.30	179.00	9,393.4	-1,002.7	6.2	1,002.7	0.52	-0.37	-0.37
10,417.0	89.40	178.30	9,397.2	-1,192.6	10.6	1,192.6	0.69	0.58	-0.37
10,606.0	90.00	178.80	9,398.2	-1,381.5	15.4	1,381.6	0.41	0.32	0.26
10,701.0	89.70	180.20	9,398.5	-1,476.5	16.3	1,476.6	1.51	-0.32	1.47
10,796.0	90.80	180.40	9,398.0	-1,571.5	15.8	1,571.6	1.18	1.16	0.21
10,891.0	91.90	181.60	9,395.8	-1,666.5	14.1	1,666.5	1.71	1.16	1.26
10,986.0	92.40	181.30	9,392.2	-1,761.4	11.7	1,761.4	0.61	0.53	-0.32
11,176.0	91.50	181.30	9,385.8	-1,951.2	7.4	1,951.2	0.47	-0.47	0.00
11,366.0	89.90	181.40	9,383.5	-2,141.1	2.9	2,141.1	0.84	-0.84	0.05
11,557.0	89.60	181.60	9,384.3	-2,332.1	-2.1	2,332.0	0.19	-0.16	0.10
11,747.0	90.40	183.40	9,384.3	-2,521.9	-10.4	2,521.7	1.04	0.42	0.95
11,937.0	87.80	180.90	9,387.3	-2,711.7	-17.5	2,711.5	1.90	-1.37	-1.32
12,126.0	89.70	180.50	9,391.4	-2,900.6	-19.8	2,900.4	1.03	1.01	-0.21
12,316.0	92.00	180.00	9,388.6	-3,090.6	-20.6	3,090.4	1.24	1.21	-0.26
12,506.0	90.00	177.60	9,385.3	-3,280.5	-16.7	3,280.3	1.64	-1.05	-1.26
12,696.0	90.10	176.50	9,385.1	-3,470.2	-6.9	3,470.1	0.58	0.05	-0.58
12,887.0	93.00	177.00	9,379.9	-3,660.8	3.9	3,660.8	1.54	1.52	0.26
13,077.0	94.20	176.50	9,368.0	-3,850.2	14.7	3,850.2	0.68	0.63	-0.26
13,172.0	94.50	177.90	9,360.8	-3,944.8	19.3	3,944.8	1.50	0.32	1.47
13,267.0	93.40	180.50	9,354.2	-4,039.5	20.6	4,039.6	2.97	-1.16	2.74
13,361.0	89.70	183.90	9,351.7	-4,133.4	17.0	4,133.4	5.34	-3.94	3.62
13,456.0	89.20	180.70	9,352.6	-4,228.3	13.2	4,228.3	3.41	-0.53	-3.37
13,551.0	91.20	181.30	9,352.3	-4,323.3	11.6	4,323.2	2.20	2.11	0.63
13,647.0	92.00	181.80	9,349.6	-4,419.2	9.0	4,419.1	0.98	0.83	0.52
13,742.0	92.40	178.80	9,346.0	-4,514.1	8.5	4,514.1	3.18	0.42	-3.16
13,836.0	93.50	177.60	9,341.1	-4,607.9	11.4	4,607.9	1.73	1.17	-1.28
13,931.0	90.70	180.70	9,337.6	-4,702.8	12.8	4,702.8	4.40	-2.95	3.26
14,026.0	91.90	181.80	9,335.5	-4,797.8	10.8	4,797.7	1.71	1.26	1.16



Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo D 7811 JV-P Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Nomac #94)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3374.0usft (Nomac #94)
Well:	Rojo D 7811 JV-P Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #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)	
14,121.0	87.60	181.60	9,335.9	-4,892.7	7.9	4,892.7	4.53	-4.53	-0.21	
14,216.0	87.40	182.50	9,340.0	-4,987.6	4.5	4,987.5	0.97	-0.21	0.95	
14,311.0	88.00	183.20	9,343.9	-5,082.4	-0.2	5,082.2	0.97	0.63	0.74	
14,406.0	87.80	181.90	9,347.3	-5,177.2	-4.4	5,177.1	1.38	-0.21	-1.37	
14,501.0	89.30	178.10	9,349.7	-5,272.2	-4.4	5,272.0	4.30	1.58	-4.00	
14,595.0	90.60	178.10	9,349.8	-5,366.1	-1.3	5,366.0	1.38	1.38	0.00	
14,690.0	93.10	179.10	9,346.8	-5,461.0	1.0	5,460.9	2.83	2.63	1.05	
14,785.0	91.10	178.30	9,343.3	-5,555.9	3.2	5,555.8	2.27	-2.11	-0.84	
14,880.0	91.10	175.80	9,341.4	-5,650.8	8.1	5,650.7	2.63	0.00	-2.63	
14,976.0	92.80	174.70	9,338.2	-5,746.4	16.0	5,746.4	2.11	1.77	-1.15	
15,071.0	92.10	176.30	9,334.1	-5,841.0	23.5	5,841.0	1.84	-0.74	1.68	
15,165.0	88.90	176.70	9,333.3	-5,934.8	29.2	5,934.9	3.43	-3.40	0.43	
15,260.0	90.80	176.70	9,333.5	-6,029.7	34.7	6,029.8	2.00	2.00	0.00	
15,355.0	91.40	176.00	9,331.7	-6,124.5	40.7	6,124.6	0.97	0.63	-0.74	
15,450.0	92.70	174.00	9,328.3	-6,219.0	49.0	6,219.2	2.51	1.37	-2.11	
15,545.0	91.60	174.90	9,324.8	-6,313.5	58.2	6,313.8	1.50	-1.16	0.95	
15,640.0	91.50	174.90	9,322.2	-6,408.1	66.6	6,408.4	0.11	-0.11	0.00	
15,735.0	92.20	176.90	9,319.1	-6,502.8	73.4	6,503.2	2.23	0.74	2.11	
15,830.0	93.80	180.40	9,314.2	-6,597.6	75.6	6,598.0	4.05	1.68	3.68	
15,925.0	90.20	181.40	9,310.8	-6,692.5	74.1	6,692.9	3.93	-3.79	1.05	
16,020.0	90.80	180.70	9,310.0	-6,787.5	72.4	6,787.9	0.97	0.63	-0.74	
16,114.0	89.80	181.80	9,309.5	-6,881.5	70.4	6,881.8	1.58	-1.06	1.17	
16,209.0	91.10	182.50	9,308.8	-6,976.4	66.8	6,976.7	1.55	1.37	0.74	
16,304.0	88.80	182.60	9,308.9	-7,071.3	62.6	7,071.6	2.42	-2.42	0.11	
16,399.0	88.20	181.80	9,311.3	-7,166.2	58.9	7,166.5	1.05	-0.63	-0.84	
16,494.0	89.40	181.80	9,313.3	-7,261.1	55.9	7,261.4	1.26	1.26	0.00	
16,589.0	88.40	183.70	9,315.2	-7,356.0	51.4	7,356.2	2.26	-1.05	2.00	
16,684.0	89.70	183.50	9,316.7	-7,450.8	45.4	7,450.9	1.38	1.37	-0.21	
16,779.0	88.20	181.10	9,318.5	-7,545.7	41.6	7,545.8	2.98	-1.58	-2.53	
16,874.0	88.90	181.80	9,320.9	-7,640.6	39.2	7,640.7	1.04	0.74	0.74	
16,968.0	90.20	181.30	9,321.6	-7,734.6	36.7	7,734.7	1.48	1.38	-0.53	
17,063.0	91.40	178.80	9,320.3	-7,829.6	36.6	7,829.6	2.92	1.26	-2.63	
17,158.0	90.00	180.00	9,319.1	-7,924.6	37.6	7,924.6	1.94	-1.47	1.26	
17,253.0	91.30	178.30	9,318.0	-8,019.6	39.0	8,019.6	2.25	1.37	-1.79	
17,348.0	90.50	180.00	9,316.6	-8,114.5	40.4	8,114.6	1.98	-0.84	1.79	
17,443.0	90.30	180.20	9,315.9	-8,209.5	40.2	8,209.6	0.30	-0.21	0.21	
17,538.0	92.20	179.10	9,313.8	-8,304.5	40.8	8,304.6	2.31	2.00	-1.16	
17,633.0	89.40	178.60	9,312.5	-8,399.5	42.7	8,399.5	2.99	-2.95	-0.53	
17,728.0	88.60	180.50	9,314.2	-8,494.4	43.5	8,494.5	2.17	-0.84	2.00	
17,823.0	89.10	181.90	9,316.1	-8,589.4	41.5	8,589.5	1.56	0.53	1.47	
17,918.0	90.00	181.90	9,316.8	-8,684.3	38.3	8,684.4	0.95	0.95	0.00	
18,013.0	91.40	180.40	9,315.6	-8,779.3	36.4	8,779.3	2.16	1.47	-1.58	
18,108.0	89.10	180.40	9,315.2	-8,874.3	35.7	8,874.3	2.42	-2.42	0.00	
18,203.0	90.20	181.80	9,315.8	-8,969.3	33.9	8,969.3	1.87	1.16	1.47	



Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Rojo D 7811 JV-P Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3374.0usft (Nomac #94)
Site:	Sec 22, T25-S, R33-E	MD Reference:	WELL @ 3374.0usft (Nomac #94)
Well:	Rojo D 7811 JV-P Com #2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #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)	
18,298.0	92.20	180.90	9,313.8	-9,064.2	31.7	9,064.2	2.31	2.11	-0.95	
18,393.0	88.50	180.70	9,313.2	-9,159.2	30.4	9,159.2	3.90	-3.89	-0.21	
18,488.0	89.10	182.30	9,315.2	-9,254.1	27.9	9,254.1	1.80	0.63	1.68	
18,583.0	87.80	180.20	9,317.8	-9,349.1	25.8	9,349.0	2.60	-1.37	-2.21	
18,678.0	88.00	178.80	9,321.3	-9,444.0	26.6	9,443.9	1.49	0.21	-1.47	
18,773.0	88.80	179.30	9,323.9	-9,538.9	28.2	9,538.9	0.99	0.84	0.53	
18,868.0	89.30	178.10	9,325.5	-9,633.9	30.4	9,633.9	1.37	0.53	-1.26	
18,963.0	90.50	178.80	9,325.7	-9,728.9	32.9	9,728.8	1.46	1.26	0.74	
19,058.0	93.10	178.80	9,322.7	-9,823.8	34.9	9,823.8	2.74	2.74	0.00	
19,153.0	90.40	178.30	9,319.8	-9,918.7	37.3	9,918.7	2.89	-2.84	-0.53	
19,248.0	90.90	177.40	9,318.7	-10,013.6	40.9	10,013.7	1.08	0.53	-0.95	
19,399.0	91.80	175.30	9,315.2	-10,164.3	50.5	10,164.4	1.51	0.60	-1.39	
TD @ 19452.0' MD / 9313.5' TVD										
19,452.0	91.80	175.30	9,313.5	-10,217.1	54.8	10,217.2	0.00	0.00	0.00	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,098.0	1,097.8	-16.8	8.0	Gyro Tie In @ 1098.0' MD / 1097.8' TVD
19,452.0	9,313.5	-10,217.1	54.8	TD @ 19452.0' MD / 9313.5' TVD

Checked By: _____ Approved By: _____ Date: _____