

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NNM05792
6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.
8. Lease Name and Well No. ROJO 7811 34-27 FEDERAL COM 18H
9. API Well No. 30-025-44297
10. Field and Pool, or Exploratory RED HILLS/UPPER BNSPR SHA
11. Sec., T., R., M., or Block and Survey or Area Sec 34 T25S R33E Mer
12. County or Parish LEA
13. State NM
17. Elevations (DF, KB, RT, GL)* 3323 GL

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other

2. Name of Operator BTA OIL PRODUCERS, LLC	Contact: KATY REDDELL E-Mail: kreddell@btaoil.com
3. Address 104 S. PECOS MIDLAND, TX 79701	3a. Phone No. (include area code) Ph: 432-682-3753 Ext: 139

4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 34 T25S R33E Mer NENW 2504FSL 1980FWL 32.086642 N Lat, 103.562346 W Lon At top prod interval reported below Sec 34 T25S R33E Mer NENW 2504FSL 1980FWL 32.086642 N Lat, 103.562346 W Lon At total depth 54.4FNL 2258FWL 32.108635 N Lat, 103.561499 W Lon

14. Date Spudded 03/23/2019	15. Date T.D. Reached 05/03/2019	16. Date Completed ☐ D & A ☒ Ready to Prod. 08/06/2019
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18. Total Depth: MD TVD 20102 12409	19. Plug Back T.D.: MD TVD	20. Depth Bridge Plug Set: MD TVD
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21. Type Electric & Other Mechanical Logs Run (Submit copy of each) MWD GAMMA RAY	22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)
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23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
14.750	10.750 J-55	40.5		1130		765		0	
9.875	7.625 P-110	29.7		11782		2030		0	
6.750	5.500 P-110	18.0		20102		1610		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	11474	11474						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)			15386 TO 19902			FRAC
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
15386 TO 19902	400.079 BBLs FLUID; 18.09MM#S 100MESH AND 40/70 SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/06/2019	09/05/2019	24	→	887.0	1519.0	2284.0	43.0		FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 3500 SI	Csg. Press. 2500.0	24 Hr. Rate →	Oil BBL 887	Gas MCF 1519	Water BBL 2284	Gas:Oil Ratio	Well Status	POW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #484076 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 02/06/2020

ACCEPTED FOR RECORD

NOV 12 2019

BUREAU OF LAND MANAGEMENT
ROSWELL FIELD OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
BONE SPRING	9099			RUSTLER TOP SALT BASE SALT DELAWARE BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING	2619 2714 4757 4994 5192 6259 7522 9099

32. Additional remarks (include plugging procedure):

FIRST BONE SPRING SAND: 10,064

SECOND BONE SPRING SAND: 10,638

THIRD BONE SPRING CARBONATE: 11,092

THIRD BONE SPRING SAND: 11,710

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)

2. Geologic Report

3. DST Report

4. Directional Survey

5. Sundry Notice for plugging and cement verification

6. Core Analysis

7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #484076 Verified by the BLM Well Information System.
For BTA OIL PRODUCERS, LLC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/12/2019 ()

Name (please print) KATY REDDELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/19/2019

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Additional data for transaction #484076 that would not fit on the form

32. Additional remarks, continued

WOLFCAMP: 12,176

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-44297	Pool Code	Pool Name REDHILLS UPPER BONESPRING SHALE
Property Code	Property Name ROJO 7811 34-27 FEDERAL COM	Well Number 18H
OGRID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Elevation 3323'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	34	25-S	33-E		2504	SOUTH	1980	WEST	LEA

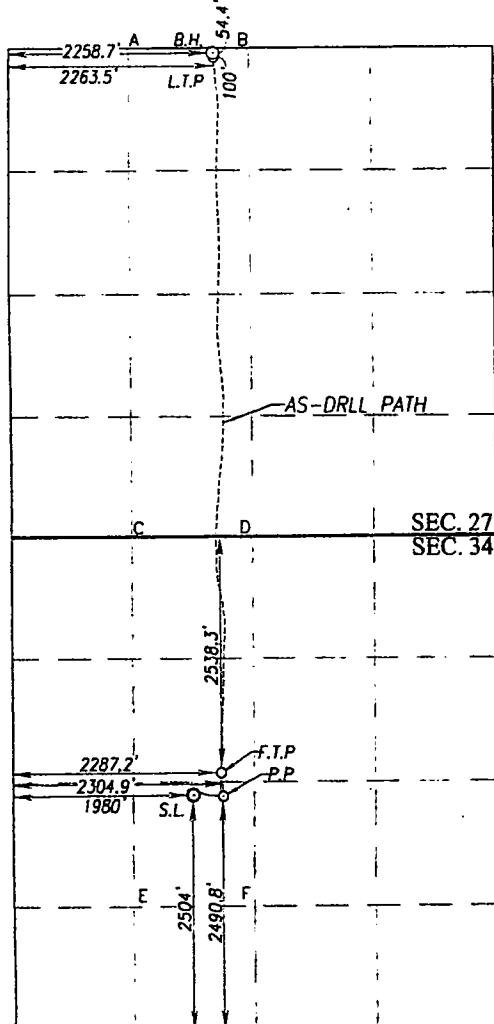
As-Drilled Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	25-S	33-E		54.4	NORTH	2258.7	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
480			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SCALE: 1"=2000'



AS-DRILLED BOTTOM
HOLE LOCATION
NAD 27 NME
Y= 404055.5 N
X= 739131.4 E
LAT.=32.108510° N
LONG.=103.561028° W
LAST TAKE POINT
NAD 27 NME
Y= 404010.0 N
X= 739136.7 E
LAT.=32.108384° N
LONG.=103.561012° W

AS-DRILLED BOTTOM
HOLE LOCATION
NAD 83 NME
Y= 404113.2 N
X= 780317.7 E
LAT.=32.108635° N
LONG.=103.561499° W
LAST TAKE POINT
NAD 83 NME
Y= 404067.7 N
X= 780323.0 E
LAT.=32.108509° N
LONG.=103.561483° W

CORNER COORDINATES TABLE

NAD 27 NME
A - Y= 404103.8 N, X= 738199.0 E
B - Y= 404112.5 N, X= 739525.3 E
C - Y= 398822.6 N, X= 738243.9 E
D - Y= 398831.1 N, X= 739566.4 E
E - Y= 394866.1 N, X= 738279.6 E
F - Y= 394873.3 N, X= 739601.2 E

CORNER COORDINATES TABLE

NAD 83 NME
A - Y= 404161.5 N, X= 779385.3 E
B - Y= 404170.2 N, X= 780711.6 E
C - Y= 398880.1 N, X= 779430.4 E
D - Y= 398888.7 N, X= 780753.0 E
E - Y= 394923.6 N, X= 779466.4 E
F - Y= 394930.8 N, X= 780787.9 E

FIRST TAKE POINT
NAD 27 NME
Y= 396291.1 N
X= 739230.8 E
LAT.=32.087165° N
LONG.=103.560886° W

FIRST TAKE POINT
NAD 83 NME
Y= 396348.6 N
X= 780417.5 E
LAT.=32.087290° N
LONG.=103.561356° W

PENETRATION POINT
NAD 27 NME
Y= 396041.4 N
X= 739250.8 E
LAT.=32.086478° N
LONG.=103.560828° W

PENETRATION POINT
NAD 83 NME
Y= 396098.9 N
X= 780437.5 E
LAT.=32.086603° N
LONG.=103.561297° W

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 396053.1 N
X= 738925.9 E
LAT.=32.086517° N
LONG.=103.561876° W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 396110.6 N
X= 780112.6 E
LAT.=32.086642° N
LONG.=103.562346° W

NOTE: AS-DRILLED BOTTOM HOLE AND PENETRATION POINT PLOTTED FROM
DATA FURNISHED BY OES OILFIELD ENERGY SERVICES ON 30, APRIL 2019.

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

KATY REDDELL 9/16/19

Signature Date

KATY REDDELL

Printed Name

kreddell@btaoil.com

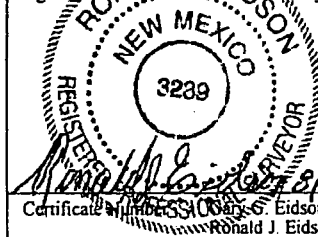
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 8, 2017

Date of Survey
Signature of Professional Surveyor:



Certificate Number 3239
Ronald J. Eidson 12641

ACK REL W.O. 17.11.0184 JWSC W.O. 19.13.0719



RECEIVED

MAY 15 2019

BTA
OIL PRODUCERS

BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Sec 34, T25-S, R33-E

Rejo: 7811-34-27 Fed Com #18H

Wellbore #1

Design: Surveys

QES Survey Certification Report

30 April, 2019



Quintana Energy Services

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678

**Survey Certification Sheet**

Company	Job Number	Date
BTA Oil Producers, LLC	WT-190399	5/7/2019

Lease	Well Name	County & State
SEC34, T25-S, R33-E	Rojo 7811 34-27 Feb Com #18H	Lea County, NM

API No.	Survey Depth Range	Survey Type
35-025-44297	157 feet to 20110 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
	David Andersson

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Quintana Energy Services (QES). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Christopher Hughes
MWD Compliance Manager

Quintana Energy Services

A large, stylized handwritten signature in black ink, which appears to be 'C. Hughes', is written over the signature line.



QES Survey Certification Report

QES

Company: BTA Oil Producers, LLC
 Project: Lea County, NM (NAD 83)
 Site: Sec 34, T25-S, R33-E
 Well: Rojo 7811 34-27 Fed Com #18H
 Wellbore: Wellbore #1
 Design: Surveys

Local Co-ordinate Reference: Well Rojo 7811 34-27 Fed Com #18H
 TVD Reference: WELL @ 3348.0usft (Patterson #566)
 MD Reference: WELL @ 3348.0usft (Patterson #566)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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 34, T25-S, R33-E

Site Position: Northing: 386,110.60 usft Latitude: 32° 5' 11.910 N
 From: Map Easting: 780,112.60 usft Longitude: 103° 33' 44.445 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.41°

Well Rojo 7811 34-27 Fed Com #18H

Well Position: +N/-S 0.0 usft Northing: 386,110.60 usft Latitude: 32° 5' 11.910 N
 +E/-W 0.0 usft Easting: 780,112.60 usft Longitude: 103° 33' 44.445 W
 Position Uncertainty: 0.0 usft Wellhead Elevation: usft Ground Level: 3,323.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/5/2019	6.74	59.91	47,673.40855251

Design Surveys

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	1.83

Survey Program Date 4/30/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
157.0	20,110.0	QES MWD Surveys (Wellbore #1)	OWSG (Rev2) MWD	OWSG MWD - Standard

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
157.0	0.10	192.50	157.0	-0.1	0.0	0.1	192.50
First MWD Survey @ 157.0' MD / 157.0' TVD							
268.0	0.10	35.70	268.0	-0.1	0.0	0.1	177.74
380.0	0.60	151.70	380.0	-0.5	0.3	0.6	151.07
453.0	0.40	110.40	453.0	-1.1	0.8	1.3	142.15
546.0	0.40	110.60	546.0	-1.3	1.4	1.9	131.90
639.0	0.50	65.60	639.0	-1.2	2.1	2.4	120.27
732.0	0.70	44.30	732.0	-0.7	2.9	2.9	102.79
826.0	1.20	9.00	826.0	0.7	3.4	3.5	77.90
919.0	1.30	11.40	919.0	2.7	3.8	4.7	54.17
1,012.0	1.10	9.90	1,011.9	4.6	4.1	6.2	41.74



QES Survey Certification Report

QES

Company: BTA Oil Producers, LLC
 Project: Lea County, NM (NAD 83)
 Site: Sec 34, T25-S, R33-E
 Well: Rojo 7811 34-27 Fed Com #18H
 Wellbore: Wellbore #1
 Design: Surveys

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well Rojo 7811 34-27 Fed Com #18H
 WELL @ 3348.0usft (Patterson #566)
 WELL @ 3348.0usft (Patterson #566)
 Grid
 Minimum Curvature
 EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
1,105.0	1.50	13.50	1,104.9	6.7	4.6	8.1	34.33
1,165.0	1.40	15.70	1,164.9	8.2	5.0	9.6	31.25
1,258.0	1.00	13.20	1,257.9	10.1	5.5	11.4	28.47
1,351.0	0.80	29.40	1,350.9	11.4	6.0	12.9	27.56
1,445.0	1.00	26.60	1,444.8	12.7	6.6	14.4	27.59
1,538.0	0.90	37.80	1,537.8	14.0	7.5	15.9	28.01
1,631.0	0.70	32.80	1,630.8	15.1	8.2	17.2	28.59
1,724.0	0.90	41.30	1,723.8	16.1	9.0	18.4	29.22
1,818.0	0.70	40.80	1,817.8	17.1	9.9	19.7	30.00
1,911.0	0.50	42.90	1,910.8	17.8	10.5	20.7	30.55
2,004.0	0.50	37.80	2,003.8	18.4	11.0	21.5	30.91
2,098.0	0.80	46.60	2,097.8	19.2	11.8	22.5	31.49
2,191.0	0.60	56.30	2,190.8	19.9	12.6	23.6	32.40
2,284.0	0.60	68.60	2,283.8	20.4	13.5	24.4	33.53
2,377.0	1.10	65.10	2,376.8	20.9	14.8	25.6	35.21
2,471.0	1.30	64.20	2,470.7	21.8	16.5	27.3	37.23
2,564.0	1.80	68.00	2,563.7	22.8	18.8	29.6	39.61
2,657.0	0.70	109.70	2,656.7	23.1	20.7	31.1	41.87
2,751.0	1.10	114.80	2,750.7	22.6	22.1	31.6	44.40
2,844.0	1.10	115.10	2,843.7	21.8	23.7	32.2	47.40
2,937.0	1.40	113.90	2,936.6	21.0	25.6	33.1	50.64
3,031.0	1.80	102.00	3,030.6	20.2	28.1	34.6	54.25
3,124.0	0.70	90.20	3,123.6	19.9	30.1	36.0	56.50
3,217.0	1.50	75.40	3,216.6	20.2	31.8	37.7	57.58
3,310.0	1.10	132.90	3,309.5	19.9	33.6	39.1	59.39
3,404.0	1.10	111.60	3,403.5	19.0	35.1	39.9	61.66
3,497.0	1.50	89.50	3,496.5	18.6	37.2	41.6	63.38
3,590.0	1.80	77.20	3,589.5	18.9	39.7	43.9	64.49
3,683.0	1.80	62.60	3,682.4	19.8	42.1	46.5	64.78
3,777.0	2.80	93.00	3,776.4	20.3	45.5	49.9	65.97
3,870.0	3.30	91.20	3,869.2	20.1	50.5	54.3	68.27
3,963.0	3.40	76.70	3,962.1	20.7	55.8	59.6	69.68
4,057.0	4.00	67.20	4,055.9	22.6	61.6	65.6	69.83
4,150.0	3.20	52.40	4,148.7	25.5	66.6	71.3	69.09
4,243.0	3.40	59.80	4,241.5	28.4	71.1	76.5	68.20
4,337.0	3.70	86.10	4,335.4	30.0	76.5	82.2	68.56
4,430.0	6.00	109.20	4,428.0	28.6	84.1	88.8	71.19
4,523.0	5.70	111.30	4,520.6	25.4	93.0	96.4	74.74
4,617.0	5.70	114.60	4,614.1	21.7	101.6	103.9	77.93
4,710.0	6.20	125.50	4,706.6	16.9	109.9	111.2	81.26
4,803.0	6.10	126.40	4,799.1	11.0	117.9	118.4	84.65
4,897.0	4.70	109.20	4,892.6	6.8	125.6	125.8	86.90
4,990.0	4.20	104.60	4,985.4	4.7	132.5	132.6	87.97
5,083.0	3.90	99.30	5,078.1	3.3	138.9	138.9	88.63



QES Survey Certification Report

QES

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)
Site: Sec 34, T25-S, R33-E
Well: Rojo 7811 34-27 Fed Com #18H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Rojo 7811 34-27 Fed Com #18H
WELL @ 3348.0usft (Patterson #566)
WELL @ 3348.0usft (Patterson #566)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,176.0	4.80	98.80	5,170.9	2.2	145.9	145.9	89.13
5,269.0	5.30	97.70	5,263.5	1.0	154.0	154.0	89.61
5,363.0	5.50	96.90	5,357.1	-0.1	162.7	162.7	90.03
5,456.0	5.30	97.60	5,449.7	-1.2	171.4	171.4	90.39
5,549.0	5.40	96.00	5,542.3	-2.2	180.0	180.0	90.70
5,643.0	5.00	93.50	5,635.9	-2.9	188.5	188.5	90.89
5,736.0	5.30	91.80	5,728.5	-3.3	196.9	196.9	90.96
5,829.0	5.30	92.80	5,821.1	-3.6	205.4	205.5	91.02
5,922.0	4.70	95.10	5,913.7	-4.2	213.5	213.6	91.12
6,016.0	4.70	93.40	6,007.4	-4.8	221.2	221.3	91.23
6,109.0	4.40	94.10	6,100.1	-5.2	228.6	228.6	91.31
6,202.0	4.10	90.00	6,192.9	-5.5	235.5	235.5	91.34
6,296.0	4.00	89.70	6,286.6	-5.5	242.1	242.2	91.30
6,389.0	3.80	90.40	6,379.4	-5.5	248.4	248.5	91.28
6,482.0	3.80	86.80	6,472.2	-5.3	254.6	254.6	91.20
6,576.0	3.90	86.80	6,566.0	-5.0	260.9	260.9	91.09
6,669.0	4.00	84.70	6,658.8	-4.5	267.3	267.3	90.97
6,762.0	4.00	84.20	6,751.6	-3.9	273.7	273.7	90.81
6,856.0	4.10	80.70	6,845.3	-3.0	280.3	280.3	90.61
6,949.0	3.80	83.90	6,938.1	-2.1	286.6	286.7	90.43
7,042.0	3.50	83.30	7,030.9	-1.5	292.5	292.5	90.29
7,135.0	3.20	84.60	7,123.8	-0.9	297.9	297.9	90.17
7,228.0	3.20	91.90	7,216.6	-0.7	303.1	303.1	90.14
7,322.0	2.80	91.40	7,310.5	-0.9	308.0	308.0	90.17
7,415.0	2.60	91.40	7,403.4	-1.0	312.4	312.4	90.18
7,508.0	2.60	92.60	7,496.3	-1.1	316.6	316.6	90.21
7,602.0	2.40	93.20	7,590.2	-1.4	320.7	320.7	90.24
7,695.0	1.80	93.20	7,683.1	-1.5	324.1	324.1	90.27
7,788.0	1.10	103.20	7,776.1	-1.8	326.4	326.5	90.32
7,881.0	0.80	125.00	7,869.1	-2.4	327.8	327.9	90.42
7,975.0	0.60	132.70	7,963.1	-3.1	328.7	328.8	90.54
8,068.0	0.60	135.90	8,056.1	-3.8	329.4	329.5	90.66
8,161.0	0.40	142.40	8,149.1	-4.4	330.0	330.0	90.76
8,254.0	0.40	176.50	8,242.1	-5.0	330.2	330.2	90.86
8,347.0	0.60	217.50	8,335.1	-5.7	329.9	330.0	90.99
8,441.0	0.70	197.80	8,429.1	-6.6	329.4	329.5	91.15
8,534.0	0.60	216.20	8,522.1	-7.6	329.0	329.1	91.32
8,627.0	0.60	224.50	8,615.1	-8.3	328.4	328.5	91.45
8,720.0	0.80	214.10	8,708.1	-9.2	327.7	327.8	91.61
8,813.0	0.60	215.90	8,801.0	-10.1	327.0	327.2	91.77
8,907.0	0.70	220.30	8,895.0	-11.0	326.3	326.5	91.92
9,000.0	0.80	252.30	8,988.0	-11.6	325.4	325.6	92.04
9,093.0	0.60	257.90	9,081.0	-11.9	324.3	324.5	92.10
9,186.0	1.00	273.90	9,174.0	-11.9	323.0	323.2	92.12
9,280.0	1.10	279.20	9,268.0	-11.7	321.3	321.5	92.09



QES Survey Certification Report

QES

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)
Site: Sec 34, T25-S, R33-E
Well: Rojo 7811 34-27 Fed Com #18H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Rojo 7811 34-27 Fed Com #18H
WELL @ 3348.0usft (Patterson #566)
WELL @ 3348.0usft (Patterson #566)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
9,373.0	1.50	275.80	9,361.0	-11.5	319.2	319.4	92.06
9,466.0	1.70	280.60	9,453.9	-11.1	316.6	316.8	92.01
9,559.0	1.30	290.10	9,548.9	-10.5	314.3	314.4	91.91
9,653.0	1.60	293.00	9,640.9	-9.6	312.1	312.2	91.78
9,746.0	0.80	37.60	9,733.9	-8.6	311.3	311.4	91.58
9,839.0	0.90	344.70	9,826.9	-7.4	311.5	311.5	91.35
9,933.0	1.10	308.50	9,920.8	-6.1	310.6	310.6	91.12
10,026.0	1.40	276.20	10,013.8	-5.4	308.7	308.8	91.00
10,120.0	1.90	269.00	10,107.8	-5.3	306.0	306.1	90.99
10,213.0	1.80	274.60	10,200.7	-5.2	303.0	303.1	90.89
10,307.0	0.30	192.30	10,294.7	-5.3	301.5	301.6	91.01
10,400.0	1.00	232.70	10,387.7	-6.1	300.8	300.9	91.16
10,493.0	1.10	267.90	10,480.7	-6.6	299.3	299.3	91.26
10,586.0	1.00	324.50	10,573.7	-6.0	297.9	298.0	91.15
10,680.0	1.60	24.10	10,667.7	-4.1	298.0	298.0	90.79
10,773.0	2.90	49.10	10,760.6	-1.4	300.3	300.3	90.26
10,866.0	2.80	48.20	10,853.5	1.7	303.7	303.8	89.68
10,959.0	2.00	23.40	10,946.4	4.7	306.1	306.1	89.12
11,053.0	2.30	349.30	11,040.3	8.0	306.4	306.5	88.50
11,146.0	2.00	344.20	11,133.3	11.4	305.6	305.8	87.86
11,239.0	1.50	331.40	11,226.2	14.1	304.6	304.9	87.35
11,332.0	2.00	296.90	11,319.2	15.9	302.5	303.0	87.00
11,426.0	2.40	317.10	11,413.1	18.1	299.7	300.3	86.55
11,519.0	2.10	318.40	11,506.0	20.8	297.3	298.0	86.01
11,612.0	2.60	340.50	11,599.0	24.0	295.4	296.4	85.35
11,705.0	2.80	346.80	11,691.9	28.2	294.2	295.6	84.52
11,745.0	-2.50	352.50	11,731.8	30.0	293.9	295.4	84.16
11,825.0	0.70	54.10	11,811.8	32.1	294.1	295.8	83.78
11,920.0	15.70	6.90	11,905.6	45.2	296.1	299.5	81.31
12,015.0	25.10	0.60	11,994.5	78.2	297.8	307.9	75.29
12,111.0	33.70	2.00	12,078.1	125.3	299.0	324.2	67.26
12,206.0	42.70	3.60	12,152.7	183.9	301.9	353.5	58.66
12,301.0	51.40	2.60	12,217.3	253.3	305.6	396.9	50.35
12,396.0	58.70	0.30	12,271.7	331.0	307.5	451.9	42.89
12,491.0	67.70	1.00	12,314.5	415.7	308.5	517.7	36.58
12,586.0	74.80	2.40	12,345.0	505.6	311.2	593.7	31.61
12,680.0	79.10	1.00	12,366.2	597.1	313.9	674.6	27.73
12,775.0	79.10	0.30	12,384.2	690.4	315.0	758.9	24.52
12,870.0	84.10	1.10	12,398.1	784.3	316.1	845.6	21.95
12,964.0	91.30	2.20	12,401.9	878.2	318.8	934.2	19.95
13,059.0	92.70	1.30	12,398.5	973.1	321.7	1,024.9	18.30
13,087.0	92.70	2.20	12,397.2	1,001.0	322.6	1,051.7	17.86
13,181.0	80.40	1.10	12,394.7	1,094.9	325.3	1,142.2	16.55
13,276.0	69.90	1.50	12,394.4	1,189.9	327.5	1,234.1	15.39



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Wellbore: Wellbore #1
Design: Surveys

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Survey Calculation Method:
Database:

Well Rojo 7811 34-27 Fed Com #18H
WELL @ 3348.0usft (Patterson #566)
WELL @ 3348.0usft (Patterson #566)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,371.0	92.60	1.10	12,392.4	1,284.8	329.6	1,326.4	14.39
13,466.0	89.10	359.20	12,390.9	1,379.8	329.9	1,418.7	13.44
13,561.0	90.00	1.70	12,391.7	1,474.8	330.6	1,511.4	12.64
13,656.0	90.30	0.10	12,391.4	1,569.8	332.1	1,604.5	11.95
13,751.0	89.80	4.50	12,391.4	1,664.7	335.9	1,698.2	11.41
13,846.0	89.00	2.40	12,392.4	1,759.5	341.6	1,792.4	10.99
13,941.0	89.90	355.80	12,393.3	1,854.4	340.2	1,885.4	10.40
14,036.0	92.10	354.60	12,391.6	1,949.1	332.3	1,977.2	9.68
14,130.0	89.50	348.10	12,390.3	2,041.9	318.2	2,066.6	8.88
14,226.0	89.70	346.20	12,391.0	2,135.5	298.9	2,156.1	7.91
14,320.0	90.30	349.70	12,391.0	2,227.5	277.3	2,244.6	7.10
14,415.0	90.40	353.10	12,390.4	2,321.4	263.0	2,336.2	6.46
14,510.0	90.70	357.30	12,389.5	2,416.0	255.1	2,429.4	6.03
14,605.0	91.20	358.20	12,387.9	2,510.9	251.4	2,523.5	5.72
14,700.0	89.30	357.60	12,387.5	2,605.9	247.9	2,617.6	5.43
14,795.0	89.30	359.70	12,388.6	2,700.8	245.7	2,712.0	5.20
14,891.0	90.70	2.00	12,388.6	2,796.8	247.1	2,807.7	5.05
14,985.0	89.20	4.00	12,388.7	2,890.7	252.0	2,901.6	4.98
15,080.0	88.50	1.10	12,390.6	2,985.5	256.2	2,996.5	4.91
15,174.0	89.20	3.40	12,392.5	3,079.4	259.8	3,090.4	4.82
15,268.0	90.20	5.90	12,393.0	3,173.1	267.5	3,184.4	4.82
15,362.0	89.30	2.40	12,393.4	3,266.9	274.3	3,278.4	4.80
15,456.0	87.80	2.60	12,395.8	3,360.7	278.4	3,372.2	4.74
15,551.0	87.10	5.20	12,400.0	3,455.4	284.9	3,467.1	4.71
15,646.0	86.30	4.50	12,405.5	3,549.9	292.9	3,562.0	4.72
15,741.0	94.10	6.20	12,405.2	3,644.4	301.8	3,656.9	4.73
15,838.0	91.00	3.40	12,400.9	3,739.0	309.7	3,751.8	4.73
15,931.0	92.30	3.40	12,398.2	3,833.8	315.3	3,846.7	4.70
16,026.0	88.40	359.60	12,399.3	3,928.7	317.8	3,941.5	4.62
16,120.0	84.80	0.10	12,406.4	4,022.4	317.8	4,034.9	4.51
16,215.0	92.60	2.00	12,408.5	4,117.3	319.3	4,128.6	4.43
16,310.0	89.30	358.50	12,406.9	4,212.2	319.7	4,224.4	4.34
16,405.0	90.00	358.70	12,407.5	4,307.2	317.4	4,318.9	4.21
16,500.0	90.70	353.90	12,406.9	4,402.0	311.3	4,413.0	4.04
16,595.0	89.10	353.40	12,407.1	4,496.4	300.8	4,508.4	3.83
16,690.0	90.80	358.90	12,407.3	4,591.0	292.7	4,600.4	3.65
16,784.0	91.10	355.50	12,405.9	4,684.8	286.5	4,693.6	3.50
16,879.0	87.70	351.30	12,406.9	4,779.1	275.8	4,787.1	3.30
16,969.0	86.40	354.50	12,411.6	4,868.3	264.5	4,875.5	3.11
17,064.0	88.60	357.30	12,415.7	4,963.0	257.7	4,969.7	2.97
17,159.0	89.70	0.60	12,417.1	5,057.9	256.0	5,064.4	2.90
17,253.0	90.50	1.50	12,416.9	5,151.9	257.7	5,158.4	2.86
17,349.0	92.60	1.70	12,414.4	5,247.8	260.4	5,254.3	2.84
17,443.0	91.80	1.50	12,410.7	5,341.7	263.0	5,348.2	2.82



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Wellbore: Wellbore #1
Design: Surveys

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Well Rojo 7811 34-27 Fed Com #18H
WELL @ 3348.0usft (Patterson #566)
WELL @ 3348.0usft (Patterson #566)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,538.0	91.80	1.70	12,407.8	5,436.6	265.6	5,437.1	2.80
17,633.0	89.90	0.80	12,406.3	5,531.6	267.7	5,538.1	2.77
17,727.0	90.70	1.50	12,405.9	5,625.6	269.8	5,632.0	2.74
17,821.0	90.20	1.50	12,405.1	5,719.6	272.1	5,726.0	2.72
17,916.0	89.00	0.40	12,405.8	5,814.5	273.6	5,821.0	2.69
18,011.0	89.70	359.90	12,406.9	5,909.5	273.9	5,915.9	2.65
18,105.0	91.00	359.70	12,406.3	6,003.5	273.5	6,009.7	2.61
18,199.0	90.20	358.30	12,405.3	6,097.5	271.9	6,103.6	2.55
18,294.0	90.50	357.50	12,404.7	6,192.4	268.4	6,198.2	2.48
18,388.0	90.00	357.60	12,404.3	6,286.3	264.4	6,291.9	2.41
18,483.0	90.30	358.70	12,404.1	6,381.3	261.3	6,386.6	2.35
18,577.0	90.00	355.70	12,403.8	6,475.2	256.7	6,480.3	2.27
18,673.0	89.30	356.80	12,404.4	6,571.0	250.5	6,575.7	2.18
18,767.0	89.10	0.30	12,405.7	6,664.9	248.1	6,669.5	2.13
18,862.0	92.00	2.90	12,404.8	6,759.8	250.7	6,764.5	2.12
18,957.0	88.50	1.80	12,404.4	6,854.7	254.6	6,859.5	2.13
19,051.0	89.30	1.80	12,406.2	6,948.7	257.6	6,953.5	2.12
19,146.0	89.10	1.10	12,407.5	7,043.6	260.0	7,048.4	2.11
19,241.0	90.70	1.80	12,407.7	7,138.6	262.4	7,143.4	2.11
19,336.0	90.80	1.50	12,406.4	7,233.6	265.1	7,238.4	2.10
19,430.0	92.00	0.40	12,404.1	7,327.5	266.7	7,332.4	2.08
19,525.0	89.60	357.80	12,402.8	7,422.5	265.2	7,427.2	2.05
19,621.0	88.90	354.80	12,404.1	7,518.3	259.0	7,522.7	1.97
19,716.0	88.40	351.80	12,406.3	7,612.6	247.9	7,616.6	1.87
19,812.0	89.70	352.70	12,407.9	7,707.7	235.0	7,711.3	1.75
19,907.0	88.00	354.10	12,409.8	7,802.0	224.1	7,805.2	1.65
20,003.0	91.30	356.40	12,410.4	7,897.7	216.1	7,900.6	1.57
20,054.0	90.30	353.40	12,409.7	7,948.5	211.6	7,951.3	1.52
20,110.0	90.30	353.40	12,409.4	8,004.1	205.2	8,005.7	1.47

TD @ 20110.0' MD / 12409.4' TVD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
157.0	157.0	-0.1	0.0	First MWD Survey @ 157.0' MD / 157.0' TVD
20,110.0	12,409.4	8,004.1	205.2	TD @ 20110.0' MD / 12409.4' TVD

Checked By:

Approved By:

Date

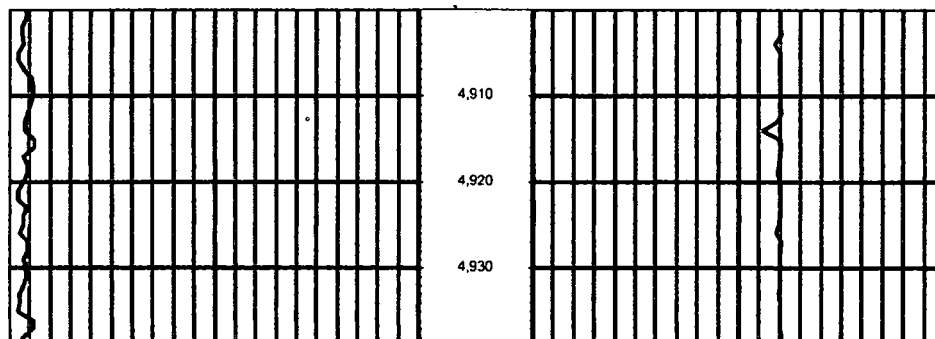
**Quintana Energy Services**

Quintana Energy Services
13000 W. Hwy 80 East
Odessa TX, 79765

Rojo 7811 34-27 Fed Com 18H**Scale 5":100' - MD****4/30/2019 12:46 AM****Oper. Company:** BTA Oil Producers LLC.**Well:** Rojo 7811 34-27 Fed Com 18H**Field:** Wolfcamp**Rig:** Patterson 566**Well ID:** 30-025-44297**Job Number:** WT-190524**State:** NM**County:** Lea Co.,**Country:** United States of America**Location:** Sec 34, T25-S, R33-E**Start Date:** 04/09/2019 12:00:00**End Date:** 04/30/2019 00:30:00**Latitude:** 32° 5' 11.910 N**Longitude:** 103° 33' 44.445 W**Elev GL:** 3,323'**Elev DF:** 3,348'**Elev KB:** 3,348'**Operator 1:** D. Andersson**Operator 2:** R. Sullivan

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	857 DETEQ	383CBG			
Bit Size	9 7/8	6 3/4			
Cal Factor	5.13	2.5			
Survey Offset	50.00	56.00			
Gamma Offset	38.00	44.00			
Resistivity Offset	0.00	0.00			
Start Depth	4900.00	11795.00			
StartDate	4/9/2019	4/29/2019			
StartTime	12:00	17:39			
EndDepth	11795.00	20110.00			
EndDate	4/15/2019	4/30/2019			
EndTime	09:30	00:30			
Mud Type	WBM	OBM			
Mud Weight	9.2	12.7			
Funnel Viscosity	56	52			
Chlorides	186000	39000			
Temperature	153	211			
Hole Data			Casing Data		
Size	From	To	Size	From	To
14 3/4	80.00	1135.00	24	0.00	80.00
9 7/8	1135.00	11795.00	10 3/4	0.00	1135.00
6 3/4	11795.00	20110.00			

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.



Intent ☐ As Drilled ☒

API #
30-025-45446

Operator Name:
BTA OIL PRODUCERS, LLC

Property Name:
ROJO 7811 22 FEDERAL COM

Well Number
14Y

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	22	25S	33E		220	S	1250	E	LEA
Latitude					Longitude			NAD	
32.109386					-103.555695			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	22	25S	33E		330	S	330	E	LEA
Latitude					Longitude			NAD	
32.109386					-103.555695			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	22	25S	33E		330	N	330	E	LEA
Latitude					Longitude			NAD	
32.122388					-103.552729			83	

Is this well the defining well for the Horizontal Spacing Unit?

☒ YES

Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:

Property Name:

Well Number

KZ 06/29/2018

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 10/4/2017

☒ Original Operator & OGRID No.: BTA Oil Producers, LLC OGRID # 260297
☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Rojo 7811 27 Fed Com #18H	NA	A-34-25S-33E	2504' FSL 1980' FWL	1000	0	NA

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Energy Transfer and will be connected to Energy Transfer's low pressure gathering system located in Lea County, New Mexico. It will require ~8976' of pipeline to connect the facility to low pressure gathering system. BTA Oil Producers, LLC provides (periodically) to Energy Transfer a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, BTA Oil Producers, LLC and Energy Transfer have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Jal 3 Plant located in Sec. 22, Twn. 24 South, Rng. 37 East, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on energy Transfers system at that time. Based on current information, it is BTA Oil Producers, LLC belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines