

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address BTA OIL PRODUCERS, LLC 104 S. PECOS MIDLAND, TX. 79701		² OGRID Number 260297
		³ Reason for Filing Code/ Effective Date 5150 NEW WELL 4/12/2021
⁴ API Number 30 – 025-46149	⁵ Pool Name BELL LAKE/BONE SPRING, NORTH	
		⁶ Pool Code 5150
⁷ Property Code 325759	⁸ Property Name WHITE WING 7909 18-19 FED COM	
		⁹ Well Number 2H

II. ¹⁰ Surface Location

UL or lot no. C	Section 18	Township 23S	Range 34E	Lot Idn	Feet from the 530	North/South Line NORTH	Feet from the 1370	East/West line WEST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. N	Section 19	Township 23S	Range 34E	Lot Idn	Feet from the 50.7	North/South line SOUTH	Feet from the 1992.5	East/West line WEST	County LEA
¹² Lse Code F	¹³ Producing Method FLOWING		¹⁴ Gas Connection 4/12/2021		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	PLAINS MARKETING LP P.O. BOX 4648 HOUSTON, TX 77210	O
836041	TARGA PL MID-CONTINENT WETSTEX LLC 1000 LOUISIANA ST. STE 4300 HOUSTON, TX. 77002	G

IV. Well Completion Data

²¹ Spud Date 10/15/2020	²² Ready Date 4/12/2021	²³ TD 21,697’	²⁴ PBTD 21,661’	²⁵ Perforations 11,650’ – 21,591’	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
14 ¾		10 ¾	1,251’		845
9 7/8		7 5/8	10,800		2030
6 ¾		5 1/2	21,686		1840
6 ¾		5	21,686		1840

V. Well Test Data

³¹ Date New Oil 4/12/2021	³² Gas Delivery Date 4/12/2021	³³ Test Date 4/19/2021	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 3200 psi	³⁶ Csg. Pressure
³⁷ Choke Size 30/64	³⁸ Oil 1165	³⁹ Water 4040	⁴⁰ Gas 2948		⁴¹ Test Method FLOWING
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Katy Reddell			OIL CONSERVATION DIVISION		
Printed name: KATY REDDELL			Approved by: KURT SIMMONS		
Title: REGULATORY ANALYST			Title: NMOCD, SANTA FE		
E-mail Address: kreddell@btaoil.com			Approval Date: 07/07/2021		
Date: 4/21/2021		Phone: 432-682-3753			

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
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-46149	Pool Code 5150	Pool Name BELL LAKE/BONE SPRING, NORTH
Property Code 325759	Property Name WHITE WING 7909 18-19 FED COM	Well Number 2H
OGRID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Elevation 3507'

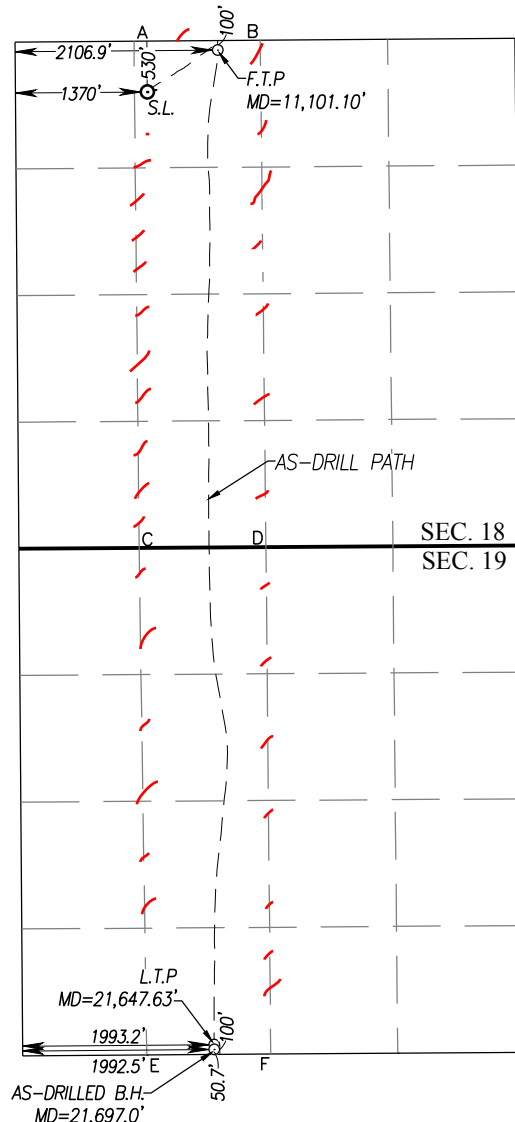
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	18	23-S	34-E		530	NORTH	1370	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
N	19	23-S	34-E		50.7	SOUTH	1992.5	WEST	LEA
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

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'	
GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 477634.2 N X= 794749.8 E LAT.=32.310424° N LONG.=103.513079° W	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 477574.5 N X= 753566.5 E LAT.=32.310300° N LONG.=103.512599° W
FIRST TAKE POINT NAD 83 NME Y= 478069.8 N X= 795483.3 E LAT.=32.311606° N LONG.=103.510695° W	FIRST TAKE POINT NAD 27 NME Y= 478010.1 N X= 754299.9 E LAT.=32.311482° N LONG.=103.510214° W
CORNER COORDINATES TABLE NAD 27 NME	
A - Y= 478103.4 N, X= 753429.0 E	
B - Y= 478113.5 N, X= 754744.2 E	
C - Y= 472825.5 N, X= 753482.7 E	
D - Y= 472834.5 N, X= 754802.9 E	
E - Y= 467546.1 N, X= 753562.2 E	
F - Y= 467555.5 N, X= 754852.8 E	
CORNER COORDINATES TABLE NAD 83 NME	
A - Y= 478163.0 N, X= 794612.3 E	
B - Y= 478173.2 N, X= 795927.5 E	
C - Y= 472885.0 N, X= 794666.1 E	
D - Y= 472894.1 N, X= 795986.3 E	
E - Y= 467605.5 N, X= 794745.7 E	
F - Y= 467614.9 N, X= 796036.4 E	
LAST TAKE POINT NAD 83 NME Y= 467710.6 N X= 795447.1 E LAT.=32.283133° N LONG.=103.511069° W	LAST TAKE POINT NAD 27 NME Y= 467651.2 N X= 754263.5 E LAT.=32.283009° N LONG.=103.510589° W
BOTTOM HOLE LOCATION NAD 83 NME Y= 467661.3 N X= 795446.7 E LAT.=32.282998° N LONG.=103.511071° W	BOTTOM HOLE LOCATION NAD 27 NME Y= 467601.9 N X= 754263.2 E LAT.=32.282874° N LONG.=103.510592° W
NOTE: AS-DRILLED BOTTOM HOLE, LAST TAKE POINT AND FIRST TAKE POINT PLOTTED FROM DATA FURNISHED BY QES SURVEY REPORT ON NOVEMBER 25, 2020.	

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 4/21/2021

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.

Date of Survey
Signature & Seal of Professional Surveyor

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BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Sec 18, T23-S, R34-E

White Wing 7909 18-19 Fed Com #2H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

25 November, 2020





QES
Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well White Wing 7909 18-19 Fed Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3532.0usft (Patterson #566)
Site:	Sec 18, T23-S, R34-E	MD Reference:	WELL @ 3532.0usft (Patterson #566)
Well:	White Wing 7909 18-19 Fed 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 18, T23-S, R34-E		
Site Position:		Northing:	477,633.90 usft
From:	Map	Easting:	794,719.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 18' 37.525 N
		Longitude:	103° 30' 47.436 W
		Grid Convergence:	0.44 °

Well	White Wing 7909 18-19 Fed Com #2H		
Well Position	+N/-S	0.0 usft	Northing: 477,634.20 usft
	+E/-W	0.0 usft	Easting: 794,749.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 18' 37.526 N
		Longitude:	103° 30' 47.085 W
		Ground Level:	3,507.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM2020	10/7/2020	6.50
			Dip Angle (°) 60.00
			Field Strength (nT) 47,843.00000000

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)
	0.0	0.0	0.0
			Direction (°) 176.07

Survey Program	Date	11/25/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
166.0	21,697.0	QES MWD Surveys (Wellbore #1)	MWD	OWSG MWD - Standard

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	477,634.20	794,749.80	32° 18' 37.526 N	103° 30' 47.085 W
166.0	0.10	243.40	166.0	-0.1	-0.1	477,634.14	794,749.67	32° 18' 37.525 N	103° 30' 47.087 W
First MWD Survey @ 166.0' MD / 166.0' TVD									
289.0	0.40	84.70	289.0	-0.1	0.2	477,634.13	794,750.00	32° 18' 37.525 N	103° 30' 47.083 W
349.0	0.50	80.00	349.0	0.0	0.7	477,634.19	794,750.47	32° 18' 37.526 N	103° 30' 47.078 W
409.0	0.50	73.30	409.0	0.1	1.2	477,634.31	794,750.97	32° 18' 37.527 N	103° 30' 47.072 W
470.0	0.60	57.90	470.0	0.4	1.7	477,634.56	794,751.50	32° 18' 37.529 N	103° 30' 47.066 W
530.0	0.50	57.80	530.0	0.7	2.2	477,634.87	794,751.99	32° 18' 37.532 N	103° 30' 47.060 W
717.0	0.40	55.70	717.0	1.5	3.4	477,635.67	794,753.22	32° 18' 37.540 N	103° 30' 47.045 W
810.0	0.50	35.10	810.0	2.0	3.9	477,636.18	794,753.72	32° 18' 37.545 N	103° 30' 47.040 W
903.0	0.40	38.20	903.0	2.6	4.4	477,636.77	794,754.15	32° 18' 37.551 N	103° 30' 47.034 W
1,089.0	0.40	54.00	1,089.0	3.5	5.3	477,637.66	794,755.08	32° 18' 37.560 N	103° 30' 47.024 W



QES

Survey Report - Geographic



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Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3532.0usft (Patterson #566)
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Well:	White Wing 7909 18-19 Fed 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,183.0	0.70	56.00	1,183.0	4.0	6.0	477,638.18	794,755.82	32° 18' 37.565 N	103° 30' 47.015 W
1,227.0	0.70	78.30	1,227.0	4.2	6.5	477,638.38	794,756.31	32° 18' 37.567 N	103° 30' 47.009 W
1,337.0	0.80	61.30	1,337.0	4.7	7.8	477,638.89	794,757.64	32° 18' 37.572 N	103° 30' 46.994 W
1,431.0	3.90	53.70	1,430.9	6.9	11.0	477,641.09	794,760.79	32° 18' 37.593 N	103° 30' 46.957 W
1,524.0	7.10	47.80	1,523.4	12.6	17.8	477,646.83	794,767.60	32° 18' 37.650 N	103° 30' 46.877 W
1,617.0	7.50	46.70	1,615.7	20.7	26.5	477,654.85	794,776.28	32° 18' 37.728 N	103° 30' 46.775 W
1,710.0	7.70	47.60	1,707.9	29.0	35.5	477,663.22	794,785.29	32° 18' 37.810 N	103° 30' 46.669 W
1,803.0	7.90	49.00	1,800.0	37.4	44.9	477,671.61	794,794.72	32° 18' 37.893 N	103° 30' 46.559 W
1,896.0	8.30	49.40	1,892.1	46.0	54.8	477,680.17	794,804.64	32° 18' 37.977 N	103° 30' 46.442 W
1,990.0	8.40	50.80	1,985.1	54.7	65.3	477,688.93	794,815.11	32° 18' 38.063 N	103° 30' 46.320 W
2,083.0	7.40	55.80	2,077.2	62.4	75.5	477,696.59	794,825.33	32° 18' 38.138 N	103° 30' 46.200 W
2,176.0	7.60	54.30	2,169.4	69.3	85.5	477,703.54	794,835.28	32° 18' 38.206 N	103° 30' 46.083 W
2,269.0	7.70	56.20	2,261.6	76.4	95.6	477,710.60	794,845.45	32° 18' 38.275 N	103° 30' 45.964 W
2,362.0	8.20	55.50	2,353.7	83.6	106.3	477,717.82	794,856.09	32° 18' 38.345 N	103° 30' 45.840 W
2,456.0	7.10	62.10	2,446.8	90.1	117.0	477,724.33	794,866.75	32° 18' 38.409 N	103° 30' 45.715 W
2,549.0	7.40	64.50	2,539.1	95.4	127.4	477,729.60	794,877.23	32° 18' 38.460 N	103° 30' 45.592 W
2,642.0	6.20	61.70	2,631.4	100.4	137.3	477,734.56	794,887.06	32° 18' 38.509 N	103° 30' 45.477 W
2,735.0	6.00	61.60	2,723.9	105.1	146.0	477,739.25	794,895.76	32° 18' 38.554 N	103° 30' 45.375 W
2,744.1	6.08	61.42	2,733.0	105.5	146.8	477,739.71	794,896.60	32° 18' 38.559 N	103° 30' 45.366 W
280' VHL Crossed @ 2744.1' MD / 2733.0' TVD									
2,828.0	6.80	60.00	2,816.3	110.1	155.0	477,744.32	794,904.80	32° 18' 38.604 N	103° 30' 45.270 W
2,921.0	7.30	61.10	2,908.6	115.7	164.9	477,749.93	794,914.74	32° 18' 38.659 N	103° 30' 45.153 W
3,014.0	6.20	55.00	3,001.0	121.5	174.2	477,755.66	794,924.03	32° 18' 38.715 N	103° 30' 45.045 W
3,107.0	6.30	52.00	3,093.4	127.5	182.4	477,761.68	794,932.17	32° 18' 38.774 N	103° 30' 44.949 W
3,201.0	7.40	53.00	3,186.8	134.3	191.3	477,768.50	794,941.06	32° 18' 38.840 N	103° 30' 44.845 W
3,294.0	8.70	53.50	3,278.8	142.1	201.7	477,776.29	794,951.50	32° 18' 38.917 N	103° 30' 44.723 W
3,387.0	8.70	56.20	3,370.8	150.2	213.2	477,784.39	794,963.00	32° 18' 38.996 N	103° 30' 44.588 W
3,480.0	7.00	60.60	3,462.9	156.9	224.0	477,791.08	794,973.78	32° 18' 39.061 N	103° 30' 44.462 W
3,574.0	7.20	60.40	3,556.2	162.6	234.1	477,796.81	794,983.90	32° 18' 39.117 N	103° 30' 44.343 W
3,667.0	6.70	65.60	3,648.5	167.7	244.1	477,801.93	794,993.90	32° 18' 39.167 N	103° 30' 44.226 W
3,760.0	6.00	59.20	3,740.9	172.5	253.2	477,806.66	795,003.02	32° 18' 39.213 N	103° 30' 44.120 W
3,853.0	6.10	67.30	3,833.4	176.9	262.0	477,811.05	795,011.75	32° 18' 39.256 N	103° 30' 44.017 W
3,947.0	6.20	59.80	3,926.9	181.3	271.0	477,815.53	795,020.75	32° 18' 39.300 N	103° 30' 43.912 W
4,040.0	6.40	64.10	4,019.3	186.1	280.0	477,820.32	795,029.75	32° 18' 39.346 N	103° 30' 43.807 W
4,133.0	5.80	49.80	4,111.8	191.4	288.2	477,825.62	795,038.00	32° 18' 39.398 N	103° 30' 43.710 W
4,227.0	6.20	45.10	4,205.3	198.1	295.4	477,832.27	795,045.23	32° 18' 39.463 N	103° 30' 43.626 W
4,320.0	6.90	47.60	4,297.7	205.4	303.1	477,839.58	795,052.91	32° 18' 39.535 N	103° 30' 43.535 W
4,413.0	8.00	53.30	4,389.9	213.0	312.4	477,847.21	795,062.22	32° 18' 39.610 N	103° 30' 43.426 W
4,506.0	9.10	61.30	4,481.8	220.4	324.1	477,854.61	795,073.86	32° 18' 39.682 N	103° 30' 43.290 W
4,599.0	10.20	67.40	4,573.5	227.1	338.1	477,861.31	795,087.92	32° 18' 39.748 N	103° 30' 43.126 W
4,693.0	8.90	66.00	4,666.2	233.3	352.4	477,867.47	795,102.25	32° 18' 39.807 N	103° 30' 42.958 W
4,786.0	7.20	63.50	4,758.3	238.8	364.2	477,872.99	795,114.03	32° 18' 39.861 N	103° 30' 42.820 W
4,879.0	6.50	52.80	4,850.6	244.6	373.6	477,878.78	795,123.44	32° 18' 39.918 N	103° 30' 42.710 W
4,972.0	6.30	54.10	4,943.1	250.8	382.0	477,884.95	795,131.77	32° 18' 39.978 N	103° 30' 42.612 W
5,065.0	5.90	53.70	5,035.5	256.6	390.0	477,890.77	795,139.76	32° 18' 40.035 N	103° 30' 42.519 W
5,158.0	6.10	54.30	5,128.0	262.3	397.8	477,896.49	795,147.62	32° 18' 40.091 N	103° 30' 42.427 W
5,251.0	6.00	55.50	5,220.5	267.9	405.8	477,902.12	795,155.64	32° 18' 40.146 N	103° 30' 42.333 W
5,344.0	6.30	52.60	5,313.0	273.8	413.9	477,907.98	795,163.70	32° 18' 40.204 N	103° 30' 42.238 W
5,438.0	6.40	53.70	5,406.4	280.0	422.2	477,914.21	795,172.02	32° 18' 40.265 N	103° 30' 42.141 W
5,531.0	6.40	53.30	5,498.8	286.2	430.6	477,920.38	795,180.35	32° 18' 40.325 N	103° 30' 42.043 W
5,624.0	6.00	51.10	5,591.3	292.3	438.5	477,926.53	795,188.29	32° 18' 40.385 N	103° 30' 41.950 W
5,717.0	6.30	52.80	5,683.7	298.5	446.3	477,932.66	795,196.14	32° 18' 40.445 N	103° 30' 41.858 W
5,810.0	6.00	51.80	5,776.2	304.6	454.2	477,938.75	795,204.02	32° 18' 40.505 N	103° 30' 41.766 W
5,904.0	5.70	53.30	5,869.7	310.4	461.8	477,944.58	795,211.62	32° 18' 40.562 N	103° 30' 41.677 W
5,997.0	5.60	51.80	5,962.3	315.9	469.1	477,950.15	795,218.89	32° 18' 40.617 N	103° 30' 41.592 W



QES

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well White Wing 7909 18-19 Fed Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3532.0usft (Patterson #566)
Site:	Sec 18, T23-S, R34-E	MD Reference:	WELL @ 3532.0usft (Patterson #566)
Well:	White Wing 7909 18-19 Fed 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,090.0	5.60	51.50	6,054.8	321.6	476.2	477,955.78	795,226.01	32° 18' 40.672 N	103° 30' 41.508 W
6,183.0	5.50	53.00	6,147.4	327.1	483.3	477,961.29	795,233.12	32° 18' 40.726 N	103° 30' 41.425 W
6,276.0	5.70	50.50	6,239.9	332.7	490.4	477,966.91	795,240.24	32° 18' 40.781 N	103° 30' 41.341 W
6,369.0	5.60	50.10	6,332.5	338.6	497.5	477,972.75	795,247.29	32° 18' 40.838 N	103° 30' 41.259 W
6,462.0	5.60	48.20	6,425.0	344.5	504.4	477,978.69	795,254.15	32° 18' 40.896 N	103° 30' 41.178 W
6,556.0	5.70	47.40	6,518.6	350.7	511.2	477,984.91	795,261.01	32° 18' 40.957 N	103° 30' 41.098 W
6,649.0	5.70	46.60	6,611.1	357.0	518.0	477,991.21	795,267.76	32° 18' 41.019 N	103° 30' 41.018 W
6,742.0	6.20	56.20	6,703.6	363.0	525.5	477,997.17	795,275.29	32° 18' 41.078 N	103° 30' 40.930 W
6,835.0	6.70	57.80	6,796.0	368.7	534.3	478,002.86	795,284.06	32° 18' 41.133 N	103° 30' 40.828 W
6,928.0	6.50	56.20	6,888.4	374.5	543.2	478,008.68	795,293.02	32° 18' 41.190 N	103° 30' 40.723 W
7,022.0	6.70	57.50	6,981.8	380.4	552.3	478,014.58	795,302.07	32° 18' 41.248 N	103° 30' 40.617 W
7,115.0	6.70	55.40	7,074.2	386.4	561.3	478,020.58	795,311.11	32° 18' 41.307 N	103° 30' 40.511 W
7,208.0	6.60	55.90	7,166.5	392.5	570.2	478,026.66	795,320.00	32° 18' 41.366 N	103° 30' 40.407 W
7,301.0	6.20	55.70	7,259.0	398.3	578.8	478,032.48	795,328.57	32° 18' 41.423 N	103° 30' 40.306 W
7,394.0	5.50	56.30	7,351.5	403.6	586.6	478,037.78	795,336.43	32° 18' 41.475 N	103° 30' 40.214 W
7,488.0	5.50	56.20	7,445.0	408.6	594.1	478,042.79	795,343.92	32° 18' 41.524 N	103° 30' 40.126 W
7,581.0	5.40	56.00	7,537.6	413.5	601.5	478,047.72	795,351.25	32° 18' 41.572 N	103° 30' 40.041 W
7,674.0	5.40	53.30	7,630.2	418.6	608.6	478,052.78	795,358.39	32° 18' 41.622 N	103° 30' 39.957 W
7,767.0	4.70	50.40	7,722.8	423.6	615.0	478,057.82	795,364.83	32° 18' 41.671 N	103° 30' 39.881 W
7,861.0	4.40	52.50	7,816.6	428.3	620.9	478,062.47	795,370.66	32° 18' 41.717 N	103° 30' 39.813 W
7,954.0	4.00	58.90	7,909.3	432.1	626.5	478,066.32	795,376.27	32° 18' 41.754 N	103° 30' 39.747 W
8,047.0	4.10	44.70	8,002.1	436.2	631.6	478,070.36	795,381.39	32° 18' 41.794 N	103° 30' 39.687 W
8,071.5	4.07	44.86	8,026.5	437.4	632.8	478,071.60	795,382.62	32° 18' 41.806 N	103° 30' 39.673 W
100' PA Crossed @ 8071.5' MD / 8026.5' TVD									
8,140.0	4.00	45.30	8,094.8	440.8	636.2	478,075.00	795,386.03	32° 18' 41.839 N	103° 30' 39.633 W
8,234.0	3.80	48.40	8,188.6	445.2	640.9	478,079.38	795,390.69	32° 18' 41.882 N	103° 30' 39.578 W
8,327.0	3.30	51.30	8,281.4	448.9	645.3	478,083.10	795,395.08	32° 18' 41.919 N	103° 30' 39.527 W
8,420.0	3.30	56.00	8,374.3	452.1	649.6	478,086.27	795,399.39	32° 18' 41.950 N	103° 30' 39.476 W
8,513.0	3.20	56.90	8,467.1	455.0	654.0	478,089.18	795,403.78	32° 18' 41.978 N	103° 30' 39.425 W
8,607.0	3.10	58.10	8,561.0	457.8	658.3	478,091.96	795,408.14	32° 18' 42.006 N	103° 30' 39.374 W
8,699.0	2.90	59.20	8,652.9	460.3	662.5	478,094.46	795,412.25	32° 18' 42.030 N	103° 30' 39.326 W
8,792.0	2.70	65.00	8,745.8	462.4	666.5	478,096.59	795,416.26	32° 18' 42.051 N	103° 30' 39.279 W
8,885.0	2.50	70.80	8,838.7	464.0	670.4	478,098.19	795,420.16	32° 18' 42.066 N	103° 30' 39.233 W
8,979.0	2.50	86.70	8,932.6	464.8	674.3	478,098.98	795,424.14	32° 18' 42.074 N	103° 30' 39.187 W
9,072.0	1.80	83.00	9,025.5	465.1	677.8	478,099.27	795,427.62	32° 18' 42.076 N	103° 30' 39.146 W
9,165.0	2.00	89.90	9,118.5	465.3	680.9	478,099.46	795,430.69	32° 18' 42.078 N	103° 30' 39.110 W
9,258.0	3.10	79.40	9,211.4	465.7	685.0	478,099.92	795,434.78	32° 18' 42.082 N	103° 30' 39.063 W
9,351.0	4.20	76.40	9,304.2	467.0	690.8	478,101.18	795,440.56	32° 18' 42.094 N	103° 30' 38.995 W
9,444.0	2.10	54.60	9,397.0	468.8	695.5	478,102.97	795,445.26	32° 18' 42.112 N	103° 30' 38.940 W
9,537.0	1.60	73.20	9,490.0	470.1	698.1	478,104.33	795,447.90	32° 18' 42.125 N	103° 30' 38.909 W
9,630.0	2.70	93.50	9,582.9	470.4	701.5	478,104.58	795,451.33	32° 18' 42.127 N	103° 30' 38.869 W
9,724.0	1.20	88.90	9,676.9	470.3	704.7	478,104.46	795,454.52	32° 18' 42.126 N	103° 30' 38.832 W
9,817.0	0.90	96.20	9,769.8	470.2	706.4	478,104.40	795,456.22	32° 18' 42.125 N	103° 30' 38.812 W
9,910.0	1.10	104.70	9,862.8	469.9	708.0	478,104.09	795,457.81	32° 18' 42.122 N	103° 30' 38.794 W
10,003.0	1.50	101.80	9,955.8	469.4	710.1	478,103.62	795,459.86	32° 18' 42.117 N	103° 30' 38.770 W
10,097.0	1.90	88.40	10,049.8	469.2	712.8	478,103.41	795,462.63	32° 18' 42.115 N	103° 30' 38.738 W
10,190.0	1.80	78.00	10,142.7	469.6	715.8	478,103.76	795,465.60	32° 18' 42.118 N	103° 30' 38.703 W
10,283.0	1.70	61.90	10,235.7	470.5	718.4	478,104.71	795,468.24	32° 18' 42.127 N	103° 30' 38.672 W
10,376.0	0.70	85.90	10,328.7	471.2	720.2	478,105.40	795,470.03	32° 18' 42.134 N	103° 30' 38.652 W
10,469.0	0.30	33.10	10,421.7	471.4	720.9	478,105.65	795,470.73	32° 18' 42.136 N	103° 30' 38.643 W
10,563.0	0.20	80.90	10,515.7	471.7	721.2	478,105.88	795,471.02	32° 18' 42.138 N	103° 30' 38.640 W
10,656.0	1.10	114.50	10,608.6	471.3	722.2	478,105.53	795,471.99	32° 18' 42.135 N	103° 30' 38.629 W
10,849.0	1.90	108.40	10,801.6	469.6	726.9	478,103.76	795,476.72	32° 18' 42.117 N	103° 30' 38.574 W
10,943.0	3.00	126.60	10,895.5	467.6	730.4	478,101.80	795,480.17	32° 18' 42.097 N	103° 30' 38.534 W
11,038.0	13.80	176.00	10,989.4	454.8	733.2	478,088.96	795,482.97	32° 18' 41.970 N	103° 30' 38.502 W



QES

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well White Wing 7909 18-19 Fed Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3532.0usft (Patterson #566)
Site:	Sec 18, T23-S, R34-E	MD Reference:	WELL @ 3532.0usft (Patterson #566)
Well:	White Wing 7909 18-19 Fed 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,093.7	20.28	180.57	11,042.6	438.5	733.5	478,072.66	795,483.33	32° 18' 41.809 N	103° 30' 38.499 W
100' PA Crossed @ 11093.7' MD / 11042.6' TVD									
11,133.0	24.90	182.40	11,078.9	423.4	733.1	478,057.58	795,482.92	32° 18' 41.660 N	103° 30' 38.506 W
11,229.0	32.10	181.90	11,163.2	377.6	731.4	478,011.83	795,481.22	32° 18' 41.207 N	103° 30' 38.529 W
11,323.0	41.50	183.10	11,238.4	321.4	728.9	477,955.65	795,478.71	32° 18' 40.651 N	103° 30' 38.564 W
11,418.0	54.10	190.00	11,302.1	251.8	720.5	477,886.00	795,470.28	32° 18' 39.963 N	103° 30' 38.668 W
11,513.0	63.00	188.40	11,351.6	171.9	707.6	477,806.07	795,457.39	32° 18' 39.173 N	103° 30' 38.825 W
11,607.0	72.00	189.00	11,387.6	86.1	694.5	477,720.32	795,444.26	32° 18' 38.325 N	103° 30' 38.986 W
11,702.0	85.40	189.80	11,406.2	-5.6	679.3	477,628.62	795,429.06	32° 18' 37.419 N	103° 30' 39.171 W
11,794.0	91.70	190.10	11,408.5	-96.1	663.4	477,538.08	795,413.18	32° 18' 36.525 N	103° 30' 39.365 W
11,857.0	92.10	188.80	11,406.4	-158.2	653.0	477,475.97	795,402.84	32° 18' 35.911 N	103° 30' 39.491 W
11,952.0	92.00	184.50	11,403.0	-252.5	642.0	477,381.70	795,391.85	32° 18' 34.979 N	103° 30' 39.627 W
12,047.0	91.70	182.90	11,399.9	-347.3	635.9	477,286.95	795,385.72	32° 18' 34.042 N	103° 30' 39.707 W
12,141.0	93.10	181.90	11,396.0	-441.1	632.0	477,193.11	795,381.79	32° 18' 33.114 N	103° 30' 39.761 W
12,235.0	91.20	181.20	11,392.5	-535.0	629.4	477,099.22	795,379.25	32° 18' 32.185 N	103° 30' 39.799 W
12,330.0	91.50	179.20	11,390.2	-629.9	629.1	477,004.25	795,378.91	32° 18' 31.245 N	103° 30' 39.812 W
12,424.0	91.30	177.10	11,387.9	-723.9	632.2	476,910.33	795,381.95	32° 18' 30.315 N	103° 30' 39.785 W
12,519.0	92.30	175.70	11,384.9	-818.6	638.1	476,815.57	795,387.91	32° 18' 29.377 N	103° 30' 39.724 W
12,615.0	90.90	175.50	11,382.3	-914.3	645.5	476,719.89	795,395.27	32° 18' 28.430 N	103° 30' 39.646 W
12,709.0	91.10	178.00	11,380.6	-1,008.1	650.8	476,626.07	795,400.60	32° 18' 27.501 N	103° 30' 39.593 W
12,805.0	92.30	181.10	11,377.8	-1,104.1	651.6	476,530.13	795,401.35	32° 18' 26.552 N	103° 30' 39.592 W
12,901.0	93.70	180.30	11,372.7	-1,199.9	650.4	476,434.27	795,400.18	32° 18' 25.603 N	103° 30' 39.615 W
12,995.0	90.20	179.40	11,369.6	-1,293.9	650.6	476,340.34	795,400.43	32° 18' 24.674 N	103° 30' 39.620 W
13,090.0	89.40	178.80	11,369.9	-1,388.8	652.1	476,245.35	795,401.92	32° 18' 23.734 N	103° 30' 39.611 W
13,185.0	89.60	180.60	11,370.7	-1,483.8	652.6	476,150.36	795,402.42	32° 18' 22.794 N	103° 30' 39.614 W
13,280.0	90.20	180.20	11,370.9	-1,578.8	652.0	476,055.36	795,401.76	32° 18' 21.854 N	103° 30' 39.630 W
13,375.0	87.80	180.80	11,372.5	-1,673.8	651.1	475,960.39	795,400.93	32° 18' 20.914 N	103° 30' 39.648 W
13,470.0	88.50	180.30	11,375.6	-1,768.8	650.2	475,865.44	795,400.02	32° 18' 19.975 N	103° 30' 39.667 W
13,566.0	89.30	179.30	11,377.4	-1,864.7	650.6	475,769.46	795,400.35	32° 18' 19.025 N	103° 30' 39.672 W
13,661.0	88.00	182.80	11,379.7	-1,959.7	648.8	475,674.52	795,398.61	32° 18' 18.086 N	103° 30' 39.701 W
13,755.0	88.60	182.80	11,382.5	-2,053.5	644.2	475,580.68	795,394.02	32° 18' 17.158 N	103° 30' 39.763 W
13,850.0	89.70	182.70	11,383.9	-2,148.4	639.7	475,485.80	795,389.46	32° 18' 16.219 N	103° 30' 39.824 W
13,945.0	88.00	181.90	11,385.8	-2,243.3	635.9	475,390.90	795,385.65	32° 18' 15.280 N	103° 30' 39.877 W
14,040.0	88.50	181.50	11,388.7	-2,338.2	633.0	475,295.98	795,382.84	32° 18' 14.342 N	103° 30' 39.919 W
14,135.0	89.30	181.30	11,390.5	-2,433.2	630.7	475,201.03	795,380.51	32° 18' 13.402 N	103° 30' 39.954 W
14,230.0	90.30	181.30	11,390.8	-2,528.1	628.6	475,106.06	795,378.36	32° 18' 12.463 N	103° 30' 39.988 W
14,325.0	89.10	182.90	11,391.3	-2,623.1	625.1	475,011.13	795,374.88	32° 18' 11.523 N	103° 30' 40.037 W
14,420.0	90.20	178.90	11,391.9	-2,718.0	623.6	474,916.16	795,373.39	32° 18' 10.584 N	103° 30' 40.063 W
14,514.0	91.40	178.00	11,390.6	-2,812.0	626.1	474,822.21	795,375.93	32° 18' 9.654 N	103° 30' 40.041 W
14,610.0	88.50	179.40	11,390.7	-2,908.0	628.3	474,726.25	795,378.11	32° 18' 8.704 N	103° 30' 40.025 W
14,705.0	87.90	179.20	11,393.7	-3,002.9	629.5	474,631.30	795,379.27	32° 18' 7.765 N	103° 30' 40.019 W
14,801.0	88.30	178.80	11,396.9	-3,098.8	631.1	474,535.37	795,380.94	32° 18' 6.815 N	103° 30' 40.009 W
14,896.0	89.50	178.50	11,398.7	-3,193.8	633.4	474,440.41	795,383.18	32° 18' 5.876 N	103° 30' 39.991 W
14,991.0	89.80	178.30	11,399.3	-3,288.7	636.0	474,345.45	795,385.83	32° 18' 4.936 N	103° 30' 39.969 W
15,086.0	88.40	179.60	11,400.8	-3,383.7	637.8	474,250.48	795,387.57	32° 18' 3.996 N	103° 30' 39.957 W
15,182.0	88.40	179.60	11,403.4	-3,479.7	638.4	474,154.52	795,388.24	32° 18' 3.046 N	103° 30' 39.958 W
15,277.0	88.90	179.00	11,405.7	-3,574.6	639.6	474,059.56	795,389.40	32° 18' 2.107 N	103° 30' 39.952 W
15,372.0	90.20	178.60	11,406.4	-3,669.6	641.6	473,964.58	795,391.39	32° 18' 1.167 N	103° 30' 39.938 W
15,467.0	89.10	180.40	11,407.0	-3,764.6	642.4	473,869.60	795,392.22	32° 18' 0.227 N	103° 30' 39.937 W
15,563.0	89.60	180.50	11,408.1	-3,860.6	641.7	473,773.60	795,391.47	32° 17' 59.277 N	103° 30' 39.954 W
15,658.0	88.40	180.90	11,409.8	-3,955.6	640.5	473,678.63	795,390.31	32° 17' 58.337 N	103° 30' 39.976 W
15,753.0	88.70	180.80	11,412.2	-4,050.5	639.1	473,583.67	795,388.90	32° 17' 57.398 N	103° 30' 40.001 W
15,848.0	90.00	180.10	11,413.2	-4,145.5	638.4	473,488.68	795,388.15	32° 17' 56.458 N	103° 30' 40.018 W
15,943.0	87.70	179.70	11,415.1	-4,240.5	638.5	473,393.71	795,388.32	32° 17' 55.518 N	103° 30' 40.025 W
16,038.0	88.00	179.70	11,418.7	-4,335.4	639.0	473,298.78	795,388.81	32° 17' 54.579 N	103° 30' 40.027 W



QES

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well White Wing 7909 18-19 Fed Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3532.0usft (Patterson #566)
Site:	Sec 18, T23-S, R34-E	MD Reference:	WELL @ 3532.0usft (Patterson #566)
Well:	White Wing 7909 18-19 Fed 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,133.0	86.80	179.60	11,423.0	-4,430.3	639.6	473,203.88	795,389.39	32° 17' 53.640 N	103° 30' 40.029 W
16,227.0	86.90	178.40	11,428.2	-4,524.2	641.2	473,110.03	795,391.03	32° 17' 52.711 N	103° 30' 40.018 W
16,322.0	87.10	179.50	11,433.1	-4,619.0	643.0	473,015.18	795,392.77	32° 17' 51.772 N	103° 30' 40.007 W
16,416.0	87.70	178.50	11,437.4	-4,712.9	644.6	472,921.29	795,394.41	32° 17' 50.843 N	103° 30' 39.996 W
16,511.0	86.70	180.10	11,442.1	-4,807.8	645.8	472,826.42	795,395.57	32° 17' 49.904 N	103° 30' 39.991 W
16,606.0	87.10	179.80	11,447.2	-4,902.6	645.9	472,731.56	795,395.65	32° 17' 48.966 N	103° 30' 39.998 W
16,701.0	87.80	178.90	11,451.4	-4,997.5	646.9	472,636.66	795,396.73	32° 17' 48.027 N	103° 30' 39.994 W
16,796.0	87.40	177.60	11,455.4	-5,092.4	649.8	472,541.79	795,399.63	32° 17' 47.088 N	103° 30' 39.969 W
16,891.0	87.30	179.10	11,459.8	-5,187.3	652.6	472,446.93	795,402.36	32° 17' 46.149 N	103° 30' 39.946 W
16,987.0	88.00	178.80	11,463.7	-5,283.2	654.3	472,351.03	795,404.12	32° 17' 45.200 N	103° 30' 39.934 W
17,082.0	88.00	178.10	11,467.0	-5,378.1	656.9	472,256.12	795,406.69	32° 17' 44.261 N	103° 30' 39.912 W
17,176.0	89.70	177.70	11,468.9	-5,472.0	660.3	472,162.21	795,410.13	32° 17' 43.331 N	103° 30' 39.881 W
17,271.0	87.90	176.20	11,470.9	-5,566.8	665.4	472,067.37	795,415.18	32° 17' 42.392 N	103° 30' 39.830 W
17,366.0	86.80	175.80	11,475.3	-5,661.5	672.0	471,972.71	795,421.80	32° 17' 41.455 N	103° 30' 39.761 W
17,460.0	88.10	175.90	11,479.5	-5,755.2	678.8	471,879.05	795,428.60	32° 17' 40.528 N	103° 30' 39.691 W
17,554.0	88.40	173.90	11,482.4	-5,848.7	687.2	471,785.47	795,436.95	32° 17' 39.601 N	103° 30' 39.602 W
17,649.0	89.50	173.90	11,484.1	-5,943.2	697.2	471,691.02	795,447.04	32° 17' 38.666 N	103° 30' 39.493 W
17,743.0	89.80	170.80	11,484.7	-6,036.3	709.8	471,597.87	795,459.55	32° 17' 37.743 N	103° 30' 39.355 W
17,838.0	88.00	170.30	11,486.5	-6,130.0	725.4	471,504.18	795,475.15	32° 17' 36.815 N	103° 30' 39.182 W
17,933.0	88.70	166.90	11,489.2	-6,223.1	744.1	471,411.11	795,493.92	32° 17' 35.893 N	103° 30' 38.972 W
18,027.0	89.00	171.00	11,491.1	-6,315.3	762.1	471,318.89	795,511.92	32° 17' 34.979 N	103° 30' 38.770 W
18,121.0	91.60	170.90	11,490.6	-6,408.1	776.9	471,226.07	795,526.71	32° 17' 34.059 N	103° 30' 38.606 W
18,216.0	92.90	169.40	11,486.9	-6,501.7	793.1	471,132.55	795,542.95	32° 17' 33.132 N	103° 30' 38.425 W
18,310.0	92.30	170.20	11,482.6	-6,594.1	809.8	471,040.13	795,559.58	32° 17' 32.217 N	103° 30' 38.240 W
18,406.0	90.70	172.90	11,480.1	-6,689.0	823.9	470,945.22	795,573.67	32° 17' 31.277 N	103° 30' 38.084 W
18,501.0	90.40	176.00	11,479.2	-6,783.5	833.1	470,850.68	795,582.86	32° 17' 30.340 N	103° 30' 37.986 W
18,595.0	90.60	181.50	11,478.4	-6,877.5	835.1	470,756.74	795,584.91	32° 17' 29.411 N	103° 30' 37.970 W
18,690.0	89.90	180.80	11,478.0	-6,972.4	833.2	470,661.76	795,583.00	32° 17' 28.471 N	103° 30' 38.001 W
18,785.0	90.70	183.70	11,477.5	-7,067.4	829.5	470,566.85	795,579.28	32° 17' 27.532 N	103° 30' 38.053 W
18,881.0	90.90	183.70	11,476.1	-7,163.1	823.3	470,471.06	795,573.08	32° 17' 26.585 N	103° 30' 38.133 W
18,976.0	90.10	186.30	11,475.3	-7,257.8	815.0	470,376.43	795,564.80	32° 17' 25.649 N	103° 30' 38.238 W
19,071.0	91.60	186.70	11,473.9	-7,352.1	804.3	470,282.06	795,554.05	32° 17' 24.716 N	103° 30' 38.372 W
19,166.0	89.80	185.50	11,472.7	-7,446.6	794.2	470,187.61	795,543.96	32° 17' 23.782 N	103° 30' 38.498 W
19,262.0	90.00	185.10	11,472.9	-7,542.2	785.3	470,092.02	795,535.09	32° 17' 22.837 N	103° 30' 38.610 W
19,357.0	89.90	184.20	11,473.0	-7,636.9	777.6	469,997.33	795,527.39	32° 17' 21.901 N	103° 30' 38.708 W
19,451.0	90.90	185.90	11,472.3	-7,730.5	769.3	469,903.70	795,519.11	32° 17' 20.975 N	103° 30' 38.813 W
19,545.0	90.10	187.60	11,471.5	-7,823.8	758.3	469,810.36	795,508.07	32° 17' 20.052 N	103° 30' 38.950 W
19,639.0	90.00	186.70	11,471.4	-7,917.1	746.6	469,717.09	795,496.37	32° 17' 19.130 N	103° 30' 39.094 W
19,734.0	90.00	186.80	11,471.4	-8,011.4	735.4	469,622.75	795,485.20	32° 17' 18.198 N	103° 30' 39.233 W
19,829.0	90.40	184.30	11,471.1	-8,106.0	726.2	469,528.21	795,476.01	32° 17' 17.263 N	103° 30' 39.348 W
19,923.0	91.80	183.30	11,469.3	-8,199.8	720.0	469,434.43	795,469.78	32° 17' 16.335 N	103° 30' 39.429 W
20,018.0	89.60	183.10	11,468.1	-8,294.6	714.7	469,339.59	795,464.48	32° 17' 15.397 N	103° 30' 39.500 W
20,113.0	90.40	183.10	11,468.1	-8,389.5	709.5	469,244.73	795,459.34	32° 17' 14.459 N	103° 30' 39.568 W
20,207.0	91.40	182.40	11,466.7	-8,483.3	705.0	469,150.86	795,454.83	32° 17' 13.530 N	103° 30' 39.629 W
20,302.0	90.50	180.60	11,465.1	-8,578.3	702.6	469,055.91	795,452.35	32° 17' 12.591 N	103° 30' 39.666 W
20,397.0	91.90	180.50	11,463.1	-8,673.3	701.6	468,960.93	795,451.44	32° 17' 11.651 N	103° 30' 39.685 W
20,492.0	90.80	180.20	11,460.9	-8,768.2	701.1	468,865.96	795,450.86	32° 17' 10.712 N	103° 30' 39.701 W
20,587.0	90.10	179.70	11,460.1	-8,863.2	701.1	468,770.97	795,450.94	32° 17' 9.772 N	103° 30' 39.708 W
20,682.0	91.80	178.90	11,458.5	-8,958.2	702.3	468,675.99	795,452.10	32° 17' 8.832 N	103° 30' 39.703 W
20,777.0	90.20	180.80	11,456.9	-9,053.2	702.6	468,581.01	795,452.35	32° 17' 7.892 N	103° 30' 39.709 W
20,872.0	91.10	181.00	11,455.8	-9,148.2	701.1	468,486.03	795,450.86	32° 17' 6.952 N	103° 30' 39.734 W
20,966.0	89.50	181.00	11,455.3	-9,242.1	699.4	468,392.05	795,449.22	32° 17' 6.023 N	103° 30' 39.762 W
21,060.0	90.00	180.30	11,455.7	-9,336.1	698.4	468,298.06	795,448.15	32° 17' 5.093 N	103° 30' 39.783 W
21,154.0	87.80	180.60	11,457.5	-9,430.1	697.6	468,204.09	795,447.41	32° 17' 4.163 N	103° 30' 39.800 W
21,248.0	88.80	180.20	11,460.3	-9,524.1	697.0	468,110.13	795,446.76	32° 17' 3.233 N	103° 30' 39.816 W



QES
Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well White Wing 7909 18-19 Fed Com #2H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3532.0usft (Patterson #566)
Site:	Sec 18, T23-S, R34-E	MD Reference:	WELL @ 3532.0usft (Patterson #566)
Well:	White Wing 7909 18-19 Fed 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,342.0	89.10	179.90	11,462.0	-9,618.1	696.9	468,016.15	795,446.67	32° 17' 2.303 N	103° 30' 39.825 W
21,437.0	90.30	179.60	11,462.5	-9,713.0	697.3	467,921.15	795,447.09	32° 17' 1.363 N	103° 30' 39.829 W
21,532.0	91.30	180.10	11,461.2	-9,808.0	697.5	467,826.16	795,447.34	32° 17' 0.423 N	103° 30' 39.834 W
21,627.0	92.50	180.10	11,458.1	-9,903.0	697.4	467,731.22	795,447.17	32° 16' 59.484 N	103° 30' 39.845 W
21,640.0	92.70	180.40	11,457.5	-9,916.0	697.3	467,718.23	795,447.11	32° 16' 59.355 N	103° 30' 39.847 W
21,647.6	92.70	180.40	11,457.1	-9,923.6	697.3	467,710.64	795,447.06	32° 16' 59.280 N	103° 30' 39.848 W
100' PA Crossed @ 21647.6' MD / 11457.1' TVD									
21,697.0	92.70	180.40	11,454.8	-9,972.9	696.9	467,661.29	795,446.72	32° 16' 58.792 N	103° 30' 39.856 W
TD @ 21697.0' MD / 11454.8' TVD									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
166.0	166.0	-0.1	-0.1	First MWD Survey @ 166.0' MD / 166.0' TVD	
2,744.1	2,733.0	105.5	146.8	280' VHL Crossed @ 2744.1' MD / 2733.0' TVD	
8,071.5	8,026.5	437.4	632.8	100' PA Crossed @ 8071.5' MD / 8026.5' TVD	
11,093.7	11,042.6	438.5	733.5	100' PA Crossed @ 11093.7' MD / 11042.6' TVD	
21,647.6	11,457.1	-9,923.6	697.3	100' PA Crossed @ 21647.6' MD / 11457.1' TVD	
21,697.0	11,454.8	-9,972.9	696.9	TD @ 21697.0' MD / 11454.8' TVD	

Checked By: _____ Approved By: _____ Date: _____

Well Name: STARCASTER 7909 FEDERAL COM	Well Location: T23S / R34E / SEC 18 / NENW / 32.310424 / -103.513079	County or Parish/State: LEA / NM
Well Number: 6H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC0068387, NMLC068387	Unit or CA Name:	Unit or CA Number: NMNM137206
US Well Number: 3002546149	Well Status: Approved Application for Permit to Drill	Operator: BTA OIL PRODUCERS LLC

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Hydraulic Fracturing
Date Sundry Submitted: 04/13/2021	Time Sundry Submitted: 02:29
Date Operation Actually Began: 03/17/2021	

Actual Procedure: 11/26/2020: TD REACHED @ 21,697' 3/17/2021 THROUGH 4/1/2021 PERF AND FRAC BONESPRING NORTH @ 11,650 - 21,591' WITH 534,240 bbls TOTAL FLUIDS; 24.52 MM#S 100 MESH SAND. 4/9/2021: 2 7/8" L-8 TUBING. SET PACKER AT 10,523'. 4/12/2021: START FLOWING BACK AND TESTING.

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: REDDELL	Signed on: APR 13, 2021 02:29 PM
Name: BTA OIL PRODUCERS LLC	
Title: Regulatory Analyst	
Street Address: 104 S Pecos	
City: Midland	State: TX
Phone: (432) 682-3753	
Email address: Kredell@btaoil.com	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

Well Name: STARCASTER 7909
FEDERAL COM

Well Location: T23S / R34E / SEC 18 /
NENW / 32.310424 / -103.513079

County or Parish/State: LEA /
NM

Well Number: 6H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC0068387,
NMLC068387

Unit or CA Name:

Unit or CA Number:
NMNM137206

US Well Number: 3002546149

Well Status: Approved Application for
Permit to Drill

Operator: BTA OIL
PRODUCERS LLC

CONFIDENTIAL

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

ACKNOWLEDGMENTS

Action 25036

ACKNOWLEDGMENTS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 25036
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☐	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☐	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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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 25036

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 25036
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	Submit completion report.	7/7/2021