

RECEIVED

OIL CONSERVATION DIVISION

DEC 18 2019 1220 South St. Francis Dr.
Santa Fe, NM 87505

DISTRICT IV - ARTESIA O.C.D.

WELL API NO. 30-005-64336
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Bonanza
8. Well Number 2H
9. OGRID Number 328666
10. Pool name or Wildcat Elkins, SA

SUNDY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator Tamaroa Operating, LLC	
3. Address of Operator PO Box 866937, Plano, Tx 75086-6937	
4. Well Location Unit Letter A : 330 feet from the N line and 990 feet from the E line Section 21 Township 7S Range 28E NMPM County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3977 GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

We propose to change plans to drill this well horizontally through the San Andres pay. Changes include:

8 5/8" 24# casing at 1750'. 7 7/8" hole TD @ 6904' MD, 2750' TVD. Bottom Hole location:

Unit P, Sec 21, T7S, R28E; 100' FSL and 1316' FEL, Chaves County, NM

5 1/2" casing will be run to TD and Cemented back to surface using 1100 sx.

See Well Plan attached. A new C-102 showing the well path is also enclosed.

Spud Date:

June 14, 2019

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE

Consultant

DATE

12/12/19

Type or print name

Phelps White

E-mail address:

pwiv@zianet.com

PHONE:

575 626 7660

For State Use Only

APPROVED BY:

Raymond D. Polansky

TITLE

Geologist

DATE

12-18-19

Conditions of Approval (if any):

RECEIVED

TAMAROA
OPERATING LLC
P.O. BOX 866037 PLANO, TX 75086

1 3 2019

COMPANY: Tamaroa Operating, LLC.
WELL: Bonanza 2H
COUNTY: Chaves County, N.M. (NAD 27)
DATUM: NAD 1927 (NADCON CONUS)

STRYKER
DIRECTIONAL
OFFICE: 936.582.7296

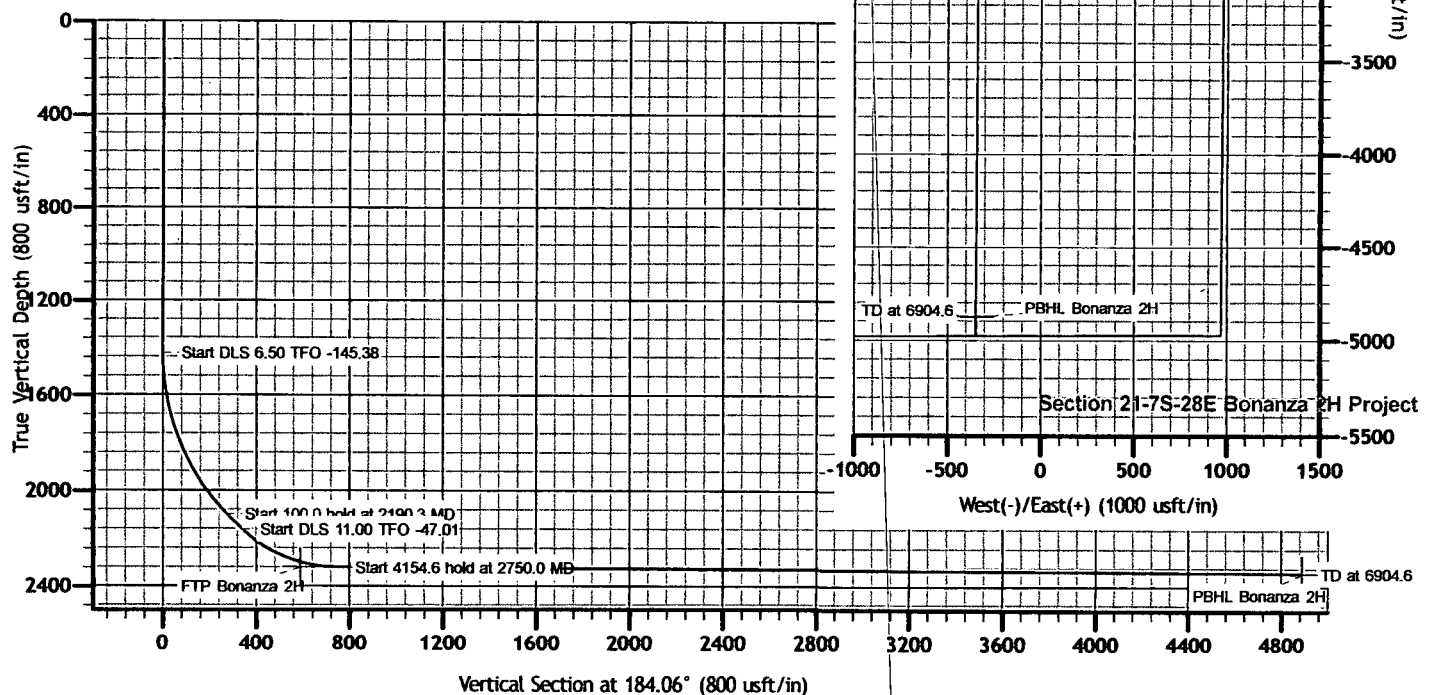
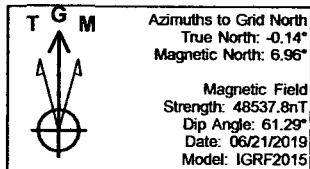
DISTRICT: ARTESIA O.C.D.

RIG:

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.96°

GEODETIC ZONE: New Mexico East 3001										
3977+17 @ 3994.0usft										
GROUND ELEVATION: 3977.0										
+N-S	+E-W	Northing	Easting	Latitude	Longitude					Slot
0.0	0.0	981838.60	574819.50	33° 41' 55.566 N	104° 5' 14.400 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1421.1	0.00	0.00	1421.1	0.0	0.0	0.00	0.00	0.0	
3	2190.3	50.00	214.62	2096.3	-259.1	-178.9	6.50	-145.38	271.1	
4	2290.3	50.00	214.62	2160.6	-322.2	-222.4	0.00	0.00	337.1	
5	2750.0	89.72	180.22	2320.0	-723.3	-330.4	11.00	-47.01	744.9	
6	6904.6	89.72	180.22	2340.0	-4877.8	-346.2	0.00	0.00	4890.1	PBHL Bonanza 2H

SHL: 330 FNL; 990' FEL
Section 21-7S-28E
PBHL: 100' FSL; 1316.3' FEL
Section 21-7S-28E





TAMAROA
OPERATING LLC

P.O. BOX 866937 PLANO, TX 75086

Tamaroa Operating, LLC.

Chaves County, N.M. (NAD 27)

Section 21-7S-28E Bonanza 2H Project
Bonanza 2H

Original Hole

Plan: Plan #2

Standard Planning Report

21 June, 2019

RECEIVED

DEC 13 2019

DISTRICT 7 / ARTESIA O.C.D.

STRYKER
DIRECTIONAL

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Bonanza 2H
Company:	Tamaroa Operating, LLC	TVD Reference:	3977+17 @ 3994.0usft
Project:	Chaves County, N.M. (NAD 27)	MD Reference:	3977+17 @ 3994.0usft
Site:	Section 21-7S-28E Bonanza 2H Project	North Reference:	Grid
Well:	Bonanza 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

Project	Chaves County, N.M. (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 21-7S-28E Bonanza 2H Project		
Site Position:	Map	Northing:	981,838.60 usft
From:		Easting:	574,819.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	33° 41' 55.566 N
		Longitude:	104° 5' 14.400 W
		Grid Convergence:	0.14 °

Well	Bonanza 2H					
Well Position	+N/-S	0.0 usft	Northing:	981,838.60 usft	Latitude:	33° 41' 55.566 N
	+E/-W	0.0 usft	Easting:	574,819.50 usft	Longitude:	104° 5' 14.400 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	17.0 usft	Ground Level:	3,977.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	06/21/19	7.09	61.29	48,537.84912898

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft) Direction (°)
	0.0	0.0	0.0 184.06

Plan Survey Tool Program	Date	06/21/19
Depth From	Depth To	
(usft)	(usft)	
Survey (Wellbore)	Tool Name	Remarks
1	0.0	6,904.5 Plan #2 (Original Hole)

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,421.1	0.00	0.00	1,421.1	0.0	0.0	0.00	0.00	0.00	0.00	
2,190.3	50.00	214.62	2,096.3	-259.1	-178.9	6.50	6.50	27.90	-145.38	
2,290.3	50.00	214.62	2,160.6	-322.2	-222.4	0.00	0.00	0.00	0.00	
2,750.0	89.72	180.22	2,320.0	-723.3	-330.4	11.00	8.64	-7.48	-47.01	
6,904.6	89.72	180.22	2,340.0	-4,877.8	-346.2	0.00	0.00	0.00	0.00	PBHL Bonanza 2H

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Bonanza 2H
Company:	Tamaroa Operating, LLC.	TVD Reference:	3977+17 @ 3994.0usft
Project:	Chaves County,N.M. (NAD 27)	MD Reference:	3977+17 @ 3994.0usft
Site:	Section 21-7S-28E Bonanza 2H Project	North Reference:	Grid
Well:	Bonanza 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

Planned 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	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,421.1	0.00	0.00	1,421.1	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	5.13	214.62	1,499.9	-2.9	-2.0	3.0	6.50	6.50	0.00
1,600.0	11.63	214.62	1,598.8	-14.9	-10.3	15.6	6.50	6.50	0.00
1,700.0	18.13	214.62	1,695.4	-36.0	-24.9	37.7	6.50	6.50	0.00
1,800.0	24.63	214.62	1,788.4	-66.0	-45.6	69.1	6.50	6.50	0.00
1,900.0	31.13	214.62	1,876.8	-104.5	-72.1	109.3	6.50	6.50	0.00
2,000.0	37.63	214.62	1,959.3	-150.9	-104.2	157.9	6.50	6.50	0.00
2,100.0	44.13	214.62	2,034.8	-204.7	-141.3	214.2	6.50	6.50	0.00
2,190.3	50.00	214.62	2,096.3	-259.1	-178.9	271.1	6.50	6.50	0.00
2,200.0	50.00	214.62	2,102.6	-265.2	-183.1	277.5	0.00	0.00	0.00
2,290.3	50.00	214.62	2,160.6	-322.2	-222.4	337.1	0.00	0.00	0.00
2,300.0	50.73	213.61	2,166.8	-328.3	-226.6	343.6	11.00	7.55	-10.39
2,400.0	58.71	204.31	2,224.6	-399.7	-265.7	417.5	11.00	7.98	-9.30
2,500.0	67.25	196.51	2,270.0	-483.1	-296.5	502.9	11.00	8.54	-7.80
2,600.0	76.12	189.65	2,301.5	-575.5	-317.8	596.5	11.00	8.87	-6.86
2,700.0	85.17	183.31	2,317.7	-673.4	-328.8	695.0	11.00	9.05	-6.35
2,750.0	89.72	180.22	2,320.0	-723.3	-330.4	744.9	11.00	9.11	-6.18
2,800.0	89.72	180.22	2,320.2	-773.3	-330.6	794.7	0.00	0.00	0.00
2,900.0	89.72	180.22	2,320.7	-873.3	-331.0	894.5	0.00	0.00	0.00
3,000.0	89.72	180.22	2,321.2	-973.3	-331.3	994.3	0.00	0.00	0.00
3,100.0	89.72	180.22	2,321.6	-1,073.3	-331.7	1,094.1	0.00	0.00	0.00
3,200.0	89.72	180.22	2,322.1	-1,173.3	-332.1	1,193.8	0.00	0.00	0.00
3,300.0	89.72	180.22	2,322.6	-1,273.3	-332.5	1,293.6	0.00	0.00	0.00
3,400.0	89.72	180.22	2,323.1	-1,373.3	-332.9	1,393.4	0.00	0.00	0.00
3,500.0	89.72	180.22	2,323.6	-1,473.3	-333.2	1,493.2	0.00	0.00	0.00
3,600.0	89.72	180.22	2,324.1	-1,573.3	-333.6	1,592.9	0.00	0.00	0.00
3,700.0	89.72	180.22	2,324.5	-1,673.3	-334.0	1,692.7	0.00	0.00	0.00
3,800.0	89.72	180.22	2,325.0	-1,773.3	-334.4	1,792.5	0.00	0.00	0.00
3,900.0	89.72	180.22	2,325.5	-1,873.3	-334.8	1,892.3	0.00	0.00	0.00
4,000.0	89.72	180.22	2,326.0	-1,973.3	-335.1	1,992.0	0.00	0.00	0.00
4,100.0	89.72	180.22	2,326.5	-2,073.3	-335.5	2,091.8	0.00	0.00	0.00
4,200.0	89.72	180.22	2,327.0	-2,173.3	-335.9	2,191.6	0.00	0.00	0.00
4,300.0	89.72	180.22	2,327.4	-2,273.3	-336.3	2,291.4	0.00	0.00	0.00
4,400.0	89.72	180.22	2,327.9	-2,373.3	-336.7	2,391.1	0.00	0.00	0.00
4,500.0	89.72	180.22	2,328.4	-2,473.3	-337.0	2,490.9	0.00	0.00	0.00
4,600.0	89.72	180.22	2,328.9	-2,573.2	-337.4	2,590.7	0.00	0.00	0.00
4,700.0	89.72	180.22	2,329.4	-2,673.2	-337.8	2,690.5	0.00	0.00	0.00
4,800.0	89.72	180.22	2,329.8	-2,773.2	-338.2	2,790.2	0.00	0.00	0.00
4,900.0	89.72	180.22	2,330.3	-2,873.2	-338.6	2,890.0	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Bonanza 2H
Company:	Tamaroa Operating, LLC	TVD Reference:	3977+17 @ 3994.0usft
Project:	Chaves County, N.M. (NAD 27)	MD Reference:	3977+17 @ 3994.0usft
Site:	Section 21-7S-28E Bonanza 2H Project	North Reference:	Grid
Well:	Bonanza 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

Planned 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)	
5,000.0	89.72	180.22	2,330.8	-2,973.2	-338.9	2,989.8	0.00	0.00	0.00	
5,100.0	89.72	180.22	2,331.3	-3,073.2	-339.3	3,089.5	0.00	0.00	0.00	
5,200.0	89.72	180.22	2,331.8	-3,173.2	-339.7	3,189.3	0.00	0.00	0.00	
5,300.0	89.72	180.22	2,332.3	-3,273.2	-340.1	3,289.1	0.00	0.00	0.00	
5,400.0	89.72	180.22	2,332.7	-3,373.2	-340.5	3,388.9	0.00	0.00	0.00	
5,500.0	89.72	180.22	2,333.2	-3,473.2	-340.9	3,488.6	0.00	0.00	0.00	
5,600.0	89.72	180.22	2,333.7	-3,573.2	-341.2	3,588.4	0.00	0.00	0.00	
5,700.0	89.72	180.22	2,334.2	-3,673.2	-341.6	3,688.2	0.00	0.00	0.00	
5,800.0	89.72	180.22	2,334.7	-3,773.2	-342.0	3,788.0	0.00	0.00	0.00	
5,900.0	89.72	180.22	2,335.2	-3,873.2	-342.4	3,887.7	0.00	0.00	0.00	
6,000.0	89.72	180.22	2,335.6	-3,973.2	-342.8	3,987.5	0.00	0.00	0.00	
6,100.0	89.72	180.22	2,336.1	-4,073.2	-343.1	4,087.3	0.00	0.00	0.00	
6,200.0	89.72	180.22	2,336.6	-4,173.2	-343.5	4,187.1	0.00	0.00	0.00	
6,300.0	89.72	180.22	2,337.1	-4,273.2	-343.9	4,286.8	0.00	0.00	0.00	
6,400.0	89.72	180.22	2,337.6	-4,373.2	-344.3	4,386.6	0.00	0.00	0.00	
6,500.0	89.72	180.22	2,338.0	-4,473.2	-344.7	4,486.4	0.00	0.00	0.00	
6,600.0	89.72	180.22	2,338.5	-4,573.2	-345.0	4,586.2	0.00	0.00	0.00	
6,700.0	89.72	180.22	2,339.0	-4,673.2	-345.4	4,685.9	0.00	0.00	0.00	
6,800.0	89.72	180.22	2,339.5	-4,773.2	-345.8	4,785.7	0.00	0.00	0.00	
6,900.0	89.72	180.22	2,340.0	-4,873.2	-346.2	4,885.5	0.00	0.00	0.00	
6,904.6	89.72	180.22	2,340.0	-4,877.8	-346.2	4,890.1	0.00	0.00	0.00	

Design Targets									
Target Name									
hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP Bonanza 2H	0.00	0.00	2,320.0	-568.7	-323.4	981,269.90	574,496.10	33° 41' 49.947 N	104° 5' 18.244 W
- plan misses target center by 20.5usft at 2600.0usft MD (2301.5 TVD, -575.5 N, -317.8 E)									
- Point									
PBHL Bonanza 2H	0.00	0.00	2,340.0	-4,877.8	-346.2	976,960.80	574,473.30	33° 41' 7.314 N	104° 5' 18.635 W
- plan hits target center									
- Point									



TAMAROA
OPERATING LLC

P.O. BOX 866937 PLANO, TX 75086

Tamaroa Operating, LLC.

Chaves County, N.M. (NAD 27)

Section 21-7S-28E Bonanza 2H Project

Bonanza 2H

Original Hole

Plan: Plan #2

Standard Planning Report - Geographic

21 June, 2019



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Bonanza 2H
Company:	Tamaroa Operating, LLC	TVD Reference:	3977+17 @ 3994.0usft
Project:	Chaves County,N.M. (NAD 27)	MD Reference:	3977+17 @ 3994.0usft
Site:	Section 21-7S-28E Bonanza 2H Project	North Reference:	Grid
Well:	Bonanza 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
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Project	Chaves County,N.M. (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 21-7S-28E Bonanza 2H Project		
Site Position:		Northing:	981,838.60 usft
From:	Map	Easting:	574,819.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	33° 41' 55.566 N
		Longitude:	104° 5' 14.400 W
		Grid Convergence:	0.14 °

Well	Bonanza 2H		
Well Position	+N/-S	0.0 usft	Northing: 981,838.60 usft
	+E/-W	0.0 usft	Easting: 574,819.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	17.0 usft
		Latitude:	33° 41' 55.566 N
		Longitude:	104° 5' 14.400 W
		Ground Level:	3,977.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	06/21/19	7.09
		Dip Angle	Field Strength
		(°)	(nT)
		61.29	48,537.84912898

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
		Direction	
		(°)	184.06

Plan Survey Tool Program	Date	06/21/19	
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	6,904.5 Plan #2 (Original Hole)	
			Remarks

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,421.1	0.00	0.00	1,421.1	0.0	0.0	0.00	0.00	0.00	0.00	
2,190.3	50.00	214.62	2,096.3	-259.1	-178.9	6.50	6.50	27.90	-145.38	
2,290.3	50.00	214.62	2,160.6	-322.2	-222.4	0.00	0.00	0.00	0.00	
2,750.0	89.72	180.22	2,320.0	-723.3	-330.4	11.00	8.64	-7.48	-47.01	
6,904.6	89.72	180.22	2,340.0	-4,877.8	-346.2	0.00	0.00	0.00	0.00	PBHL Bonanza 2H

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Bonanza 2H
Company:	Tamaroa Operating, LLC	TVD Reference:	3977+17 @ 3994.0usft
Project:	Chaves County, N.M. (NAD 27)	MD Reference:	3977+17 @ 3994.0usft
Site:	Section 21-7S-28E Bonanza 2H Project	North Reference:	Grid
Well:	Bonanza 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
100.0	0.00	0.00	100.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
200.0	0.00	0.00	200.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
300.0	0.00	0.00	300.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
400.0	0.00	0.00	400.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
500.0	0.00	0.00	500.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
600.0	0.00	0.00	600.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
700.0	0.00	0.00	700.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
800.0	0.00	0.00	800.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
900.0	0.00	0.00	900.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
1,421.1	0.00	0.00	1,421.1	0.0	0.0	981,838.60	574,819.50	33° 41' 55.566 N	104° 5' 14.400 W
1,500.0	5.13	214.62	1,499.9	-2.9	-2.0	981,835.70	574,817.50	33° 41' 55.537 N	104° 5' 14.424 W
1,600.0	11.63	214.62	1,598.8	-14.9	-10.3	981,823.71	574,809.23	33° 41' 55.419 N	104° 5' 14.522 W
1,700.0	18.13	214.62	1,695.4	-36.0	-24.9	981,802.59	574,794.65	33° 41' 55.210 N	104° 5' 14.695 W
1,800.0	24.63	214.62	1,788.4	-66.0	-45.6	981,772.61	574,773.95	33° 41' 54.914 N	104° 5' 14.941 W
1,900.0	31.13	214.62	1,876.8	-104.5	-72.1	981,734.15	574,747.40	33° 41' 54.534 N	104° 5' 15.256 W
2,000.0	37.63	214.62	1,959.3	-150.9	-104.2	981,687.70	574,715.34	33° 41' 54.075 N	104° 5' 15.637 W
2,100.0	44.13	214.62	2,034.8	-204.7	-141.3	981,633.87	574,678.19	33° 41' 53.544 N	104° 5' 16.078 W
2,190.3	50.00	214.62	2,096.3	-259.1	-178.9	981,579.47	574,640.63	33° 41' 53.006 N	104° 5' 16.524 W
2,200.0	50.00	214.62	2,102.6	-265.2	-183.1	981,573.37	574,636.43	33° 41' 52.946 N	104° 5' 16.574 W
2,290.3	50.00	214.62	2,160.6	-322.2	-222.4	981,516.42	574,597.12	33° 41' 52.384 N	104° 5' 17.041 W
2,300.0	50.73	213.61	2,166.8	-328.3	-226.6	981,510.26	574,592.94	33° 41' 52.323 N	104° 5' 17.091 W
2,400.0	58.71	204.31	2,224.6	-399.7	-265.7	981,438.86	574,553.81	33° 41' 51.617 N	104° 5' 17.556 W
2,500.0	67.25	196.51	2,270.0	-483.1	-296.5	981,355.46	574,523.02	33° 41' 50.793 N	104° 5' 17.923 W
2,600.0	76.12	189.65	2,301.5	-575.5	-317.8	981,263.12	574,501.71	33° 41' 49.880 N	104° 5' 18.178 W
2,700.0	85.17	183.31	2,317.7	-673.4	-328.8	981,165.23	574,490.66	33° 41' 48.911 N	104° 5' 18.311 W
2,750.0	89.72	180.22	2,320.0	-723.3	-330.4	981,115.30	574,489.12	33° 41' 48.417 N	104° 5' 18.331 W
2,800.0	89.72	180.22	2,320.2	-773.3	-330.6	981,065.32	574,488.93	33° 41' 47.923 N	104° 5' 18.334 W
2,900.0	89.72	180.22	2,320.7	-873.3	-331.0	980,965.32	574,488.55	33° 41' 46.934 N	104° 5' 18.342 W
3,000.0	89.72	180.22	2,321.2	-973.3	-331.3	980,865.32	574,488.17	33° 41' 45.944 N	104° 5' 18.349 W
3,100.0	89.72	180.22	2,321.6	-1,073.3	-331.7	980,765.32	574,487.79	33° 41' 44.955 N	104° 5' 18.356 W
3,200.0	89.72	180.22	2,322.1	-1,173.3	-332.1	980,665.33	574,487.41	33° 41' 43.966 N	104° 5' 18.364 W
3,300.0	89.72	180.22	2,322.6	-1,273.3	-332.5	980,565.33	574,487.03	33° 41' 42.976 N	104° 5' 18.371 W
3,400.0	89.72	180.22	2,323.1	-1,373.3	-332.9	980,465.33	574,486.65	33° 41' 41.987 N	104° 5' 18.378 W
3,500.0	89.72	180.22	2,323.6	-1,473.3	-333.2	980,365.33	574,486.26	33° 41' 40.997 N	104° 5' 18.386 W
3,600.0	89.72	180.22	2,324.1	-1,573.3	-333.6	980,265.33	574,485.88	33° 41' 40.008 N	104° 5' 18.393 W
3,700.0	89.72	180.22	2,324.5	-1,673.3	-334.0	980,165.34	574,485.50	33° 41' 39.019 N	104° 5' 18.400 W
3,800.0	89.72	180.22	2,325.0	-1,773.3	-334.4	980,065.34	574,485.12	33° 41' 38.029 N	104° 5' 18.408 W
3,900.0	89.72	180.22	2,325.5	-1,873.3	-334.8	979,965.34	574,484.74	33° 41' 37.040 N	104° 5' 18.415 W
4,000.0	89.72	180.22	2,326.0	-1,973.3	-335.1	979,865.34	574,484.36	33° 41' 36.051 N	104° 5' 18.422 W
4,100.0	89.72	180.22	2,326.5	-2,073.3	-335.5	979,765.34	574,483.98	33° 41' 35.061 N	104° 5' 18.430 W
4,200.0	89.72	180.22	2,327.0	-2,173.3	-335.9	979,665.35	574,483.60	33° 41' 34.072 N	104° 5' 18.437 W
4,300.0	89.72	180.22	2,327.4	-2,273.3	-336.3	979,565.35	574,483.22	33° 41' 33.083 N	104° 5' 18.444 W
4,400.0	89.72	180.22	2,327.9	-2,373.3	-336.7	979,465.35	574,482.84	33° 41' 32.093 N	104° 5' 18.451 W
4,500.0	89.72	180.22	2,328.4	-2,473.3	-337.0	979,365.35	574,482.46	33° 41' 31.104 N	104° 5' 18.459 W
4,600.0	89.72	180.22	2,328.9	-2,573.2	-337.4	979,265.35	574,482.08	33° 41' 30.114 N	104° 5' 18.466 W
4,700.0	89.72	180.22	2,329.4	-2,673.2	-337.8	979,165.35	574,481.70	33° 41' 29.125 N	104° 5' 18.473 W
4,800.0	89.72	180.22	2,329.8	-2,773.2	-338.2	979,065.36	574,481.32	33° 41' 28.136 N	104° 5' 18.481 W
4,900.0	89.72	180.22	2,330.3	-2,873.2	-338.6	978,965.36	574,480.93	33° 41' 27.146 N	104° 5' 18.488 W
5,000.0	89.72	180.22	2,330.8	-2,973.2	-338.9	978,865.36	574,480.55	33° 41' 26.157 N	104° 5' 18.495 W

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Bonanza 2H
Company:	Tamaroa Operating, LLC	TVD Reference:	3977+17 @ 3994.0usft
Project:	Chaves County, N.M. (NAD 27)	MD Reference:	3977+17 @ 3994.0usft
Site:	Section 21-7S-28E Bonanza 2H Project	North Reference:	Grid
Well:	Bonanza 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,100.0	89.72	180.22	2,331.3	-3,073.2	-339.3	978,765.36	574,480.17	33° 41' 25.168 N	104° 5' 18.503 W	
5,200.0	89.72	180.22	2,331.8	-3,173.2	-339.7	978,665.36	574,479.79	33° 41' 24.178 N	104° 5' 18.510 W	
5,300.0	89.72	180.22	2,332.3	-3,273.2	-340.1	978,565.37	574,479.41	33° 41' 23.189 N	104° 5' 18.517 W	
5,400.0	89.72	180.22	2,332.7	-3,373.2	-340.5	978,465.37	574,479.03	33° 41' 22.199 N	104° 5' 18.525 W	
5,500.0	89.72	180.22	2,333.2	-3,473.2	-340.9	978,365.37	574,478.65	33° 41' 21.210 N	104° 5' 18.532 W	
5,600.0	89.72	180.22	2,333.7	-3,573.2	-341.2	978,265.37	574,478.27	33° 41' 20.221 N	104° 5' 18.539 W	
5,700.0	89.72	180.22	2,334.2	-3,673.2	-341.6	978,165.37	574,477.89	33° 41' 19.231 N	104° 5' 18.546 W	
5,800.0	89.72	180.22	2,334.7	-3,773.2	-342.0	978,065.38	574,477.51	33° 41' 18.242 N	104° 5' 18.554 W	
5,900.0	89.72	180.22	2,335.2	-3,873.2	-342.4	977,965.38	574,477.13	33° 41' 17.253 N	104° 5' 18.561 W	
6,000.0	89.72	180.22	2,335.6	-3,973.2	-342.8	977,865.38	574,476.75	33° 41' 16.263 N	104° 5' 18.568 W	
6,100.0	89.72	180.22	2,336.1	-4,073.2	-343.1	977,765.38	574,476.37	33° 41' 15.274 N	104° 5' 18.576 W	
6,200.0	89.72	180.22	2,336.6	-4,173.2	-343.5	977,665.38	574,475.99	33° 41' 14.285 N	104° 5' 18.583 W	
6,300.0	89.72	180.22	2,337.1	-4,273.2	-343.9	977,565.39	574,475.60	33° 41' 13.295 N	104° 5' 18.590 W	
6,400.0	89.72	180.22	2,337.6	-4,373.2	-344.3	977,465.39	574,475.22	33° 41' 12.306 N	104° 5' 18.598 W	
6,500.0	89.72	180.22	2,338.0	-4,473.2	-344.7	977,365.39	574,474.84	33° 41' 11.316 N	104° 5' 18.605 W	
6,600.0	89.72	180.22	2,338.5	-4,573.2	-345.0	977,265.39	574,474.46	33° 41' 10.327 N	104° 5' 18.612 W	
6,700.0	89.72	180.22	2,339.0	-4,673.2	-345.4	977,165.39	574,474.08	33° 41' 9.338 N	104° 5' 18.620 W	
6,800.0	89.72	180.22	2,339.5	-4,773.2	-345.8	977,065.39	574,473.70	33° 41' 8.348 N	104° 5' 18.627 W	
6,900.0	89.72	180.22	2,340.0	-4,873.2	-346.2	976,965.40	574,473.32	33° 41' 7.359 N	104° 5' 18.634 W	
6,904.6	89.72	180.22	2,340.0	-4,877.8	-346.2	976,960.80	574,473.30	33° 41' 7.314 N	104° 5' 18.635 W	

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP Bonanza 2H	- plan misses target center by 20.5usft at 2600.0usft MD (2301.5 TVD, -575.5 N, -317.8 E)	0.00	0.00	2,320.0	-568.7	-323.4	981,269.90	574,496.10	33° 41' 49.947 N	104° 5' 18.244 W
	- Point									
PBHL Bonanza 2H	- plan hits target center	0.00	0.00	2,340.0	-4,877.8	-346.2	976,960.80	574,473.30	33° 41' 7.314 N	104° 5' 18.635 W
	- Point									

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

RECEIVED

DEC 13 2019

DISTRICT II-ARTESIA O.C.D. AMENDED REPORT

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-64336	Pool Code 21730	Pool Name Elkins, San Andres
Property Code 325750	Property Name BONANZA	Well Number 2H
OGRID No. 328666	Operator Name TAMAROA OPERATING, LLC	Elevation 3977'

Surface Location

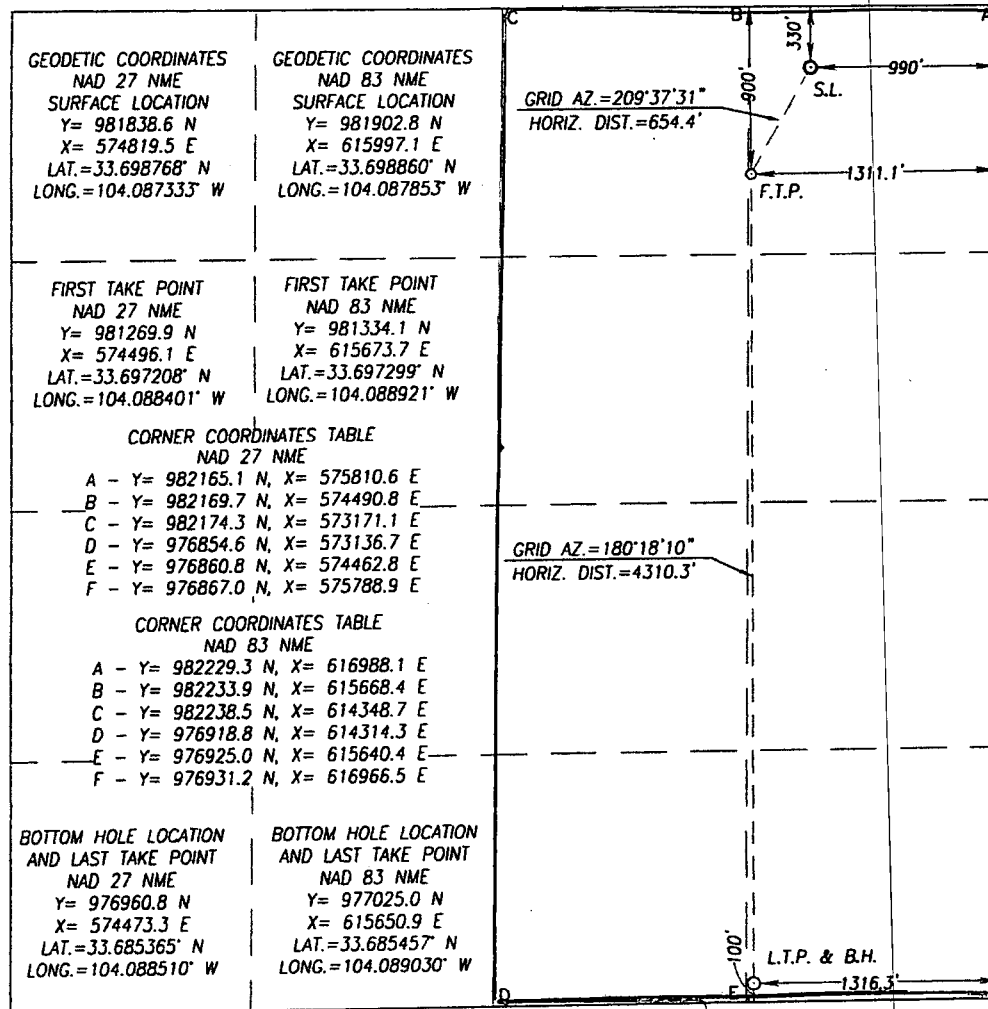
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	21	7-S	28-E		330	NORTH	990	EAST	CHAVES

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
P	21	7-S	28-E		100	SOUTH	1316.3	EAST	CHAVES

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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



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.

Signature
Phelps White
Printed Name
pwiv@zianet.com
E-mail Address

12/11/2019
Date

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
NEW MEXICO
REGISTERED SURVEYOR
3239
Certificate Number
12641
Ronald J. Eidson
3239
LSL
JWSC W.O.: 19.11.0606

RW 12-18-19