

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

NMOCD-REC'D: 9/10/2020

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

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'

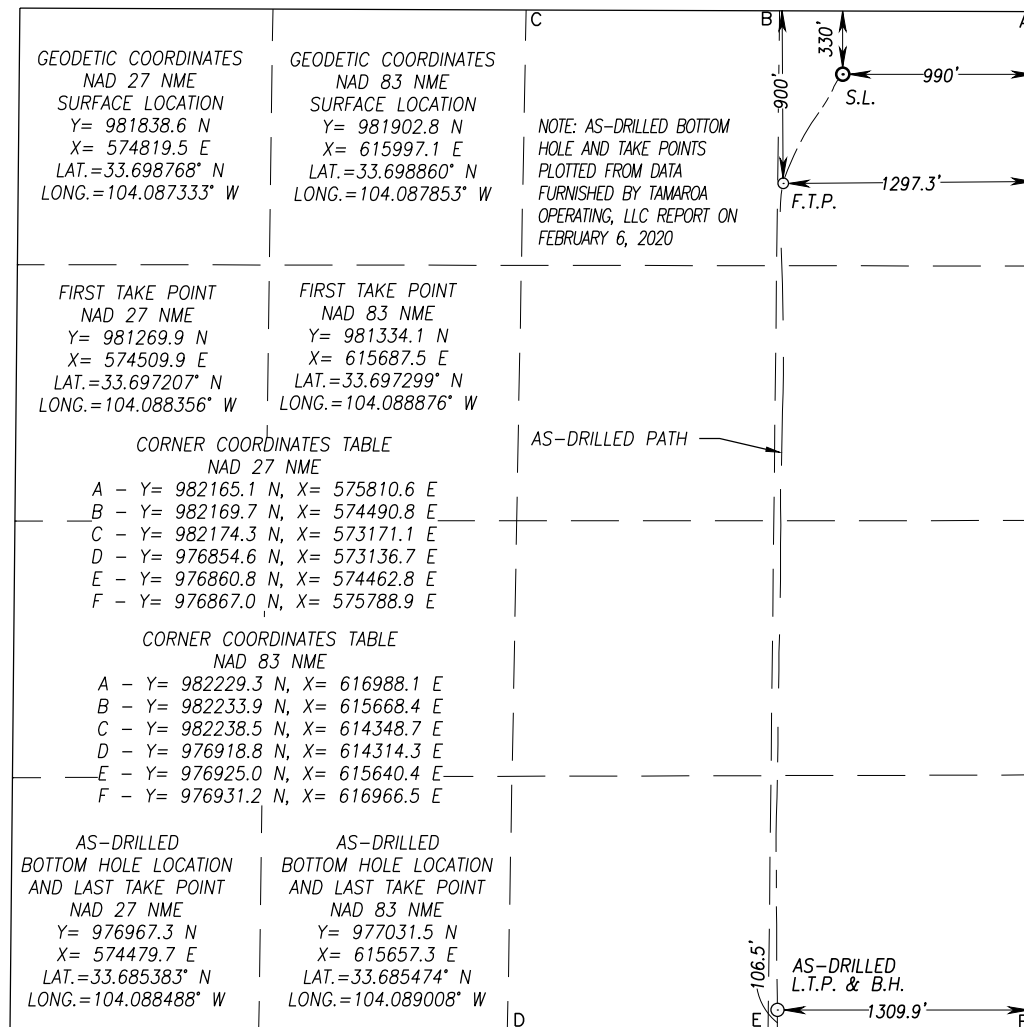
Surface Location

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

AS-DRILLE 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		106.5	SOUTH	1309.9	EAST	CHAVES
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



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.

Cory Walk **9-1-2020**
Signature Date
Cory Walk
Printed Name
cory@permitswest.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.

SEAL OF THE STATE OF NEW MEXICO
MAY 21, 2019
3239
Date of Survey
Signature & Seal of Professional Surveyor
Ronald J. Eidson **03/02/2020**
Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239
LSL Rel W.O.: 19.11.0606 JWSC W.O.: 20.13.0104



February 19, 2020

New Mexico Energy, Minerals and Natural Resources Department
 Attn: Oil Conservation Division
 1220 South St. Francis Drive
 Santa Fe, NM 87505

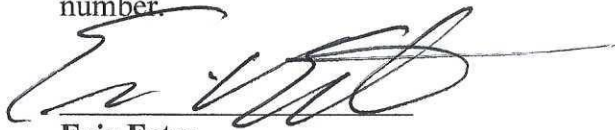
Attn: Bill Bahlberg

Re: Tamaroa Operating, LLC.
 Bonanza #002H
 Elkins; San Andres
 Chaves County, New Mexico
 API# 30-005-64336

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Keith Broussard	Original Hole	1,431ft. to 6,872ft.	01-27-20 to 02-02-20	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.



Eric Estes

Enclosures
 CC:

Tamaroa Operating, LLC.
 Attn: Geoff Bahlberg
 P.O. Box 866937
 Plano, Texas 75086

NMEMaNRD\Tamaroa Op, LLC.\Bonanza #2H\M201037

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



February 19, 2020

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of January 27, 2020 through February 2, 2020 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,431 feet to a depth of 6,872 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Tamaroa Operating, LLC., for the Bonanza #2H, well API # **30-005-64336** in Chaves County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163

Searches

Operator Data

Hearing Fee Application

OCD Permitting

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[Searches](#)
[Wells](#)
[Well Details](#)

30-005-64336 BONANZA #002H [325750]

General Well Information

Operator:	[328666] Tamaroa Operating, LLC		
Status:	New	Direction:	Horizontal
Well Type:	Oil	Multi-Lateral:	No
Work Type:	New	Mineral Owner:	Private
		Surface Owner:	Private
Surface Location:	A-21-07S-28E 330 FNL 990 FEL		
Lat/Long:	33.69886,-104.087853 NAD83		
GL Elevation:	3977		
KB Elevation:		Sing/Mult Compl:	Single
DF Elevation:		Potash Waiver:	False

Proposed Formation and/or Notes

Depths

Proposed:	6904	True Vertical Depth:	2750
Measured Vertical Depth:	2750	Plugback Measured:	0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval:	06/13/2019		
Most Recent APD Approval:	06/13/2019	Current APD Expiration:	06/13/2021
APD Cancellation:			
APD Extension Approval:			
Spud:	06/14/2019	Gas Capture Plan Received:	
Approved Temporary Abandonment:		TA Expiration:	
Shut In:			
Plug and Abandoned Intent Received:		PNR Expiration:	
Well Plugged:		Last MIT/BHT:	
Site Release:			
Last Inspection:	12/12/2019		

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
06/13/2019	[325750] BONANZA	#002H	[328666] Tamaroa Operating, LLC	New	Oil	New		

Comments

Quick

- [Gene](#)
- [Histo](#)
- [Comr](#)
- [Oper](#)
- [Pits](#)
- [Casir](#)
- [Well](#)
- [Finan](#)
- [Comr](#)
- [Incid](#)
- [Order](#)
- [Prodi](#)
- [Trans](#)
- [Point](#)

Assoc

- [Well](#)
- [Well](#)
- [Well](#)

New

- [New](#)
- [New](#)
- [New](#)
- [New](#)
- [New](#)
- [New](#)
- [New](#)

Searches

Operator Data

Hearing Fee Application

Casing

String/Hole Type	Taper	Date Set	Boreholes, Strings and Equipment Specifications			Specifications for Strings and Tubing			Strings Cemented and Intervals			Cement and Plug Description		
			Diameter	Top	Bottom (Depth)	Grade	Length	Weight	Bot of Cem	Top of Cem	Meth	Class of Cement	Sacks	Pressure Test (Y/N)
Hole 1	1	06/14/2019	26.000	0	40		0	0.0	0	0			0	No
Conductor	1	06/14/2019	20.000	0	40		0	0.0	0	0			0	No
Hole 2	1	12/13/2019	17.500	40	466		0	0.0	0	0			0	No
Surface Casing	1	12/13/2019	13.375	0	466	UKN	466	54.5	466	0	Circ	Class C Cement	475	Yes
Hole 3	1	01/21/2020	12.500	466	1385		0	0.0	0	0			0	No
Intermediate 1 Casing	1	01/21/2020	8.625	0	1382	UKN	1382	32.0	1382	0	Circ	Class C Cement	700	Yes
Hole 4	1	02/01/2020	7.875	1382	6915		0	0.0	0	0			0	No
Production Casing	1	02/01/2020	5.500	0	6915	L-80	6915	17.0	6915	0	Circ	Pozzuolanic Cement	1900	No

Well Completions

[21730] ELKINS; SAN ANDRES

Status: New, Not Drilled
 Bottomhole Location: P-21-07S-28E 100 FSL 1316 FEL
 Lat/Long: 33.685457,-104.08903 NAD83
 Acreage: 320 21-07S-28E Units: A B G H I J O P
 DHC:

Last Produced:

Consolidation Code:

Production Method:

Well Test Data

Production Test: Test Length: 0 hours
 Flowing Tubing Pressure: 0 psi Flowing Casing Pressure: 0 psi
 Choke Size: 0.000 inches Testing Method:
 Gas Volume: 0.0 MCF Oil Volume: 0.0 bbls
 Gas-Oil Ratio: 0 Kcf / bbl Oil Gravity: 0.0 Corr. API
 Disposition of Gas: Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)	Top Vertical Depth	Bottom Vertical Depth
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Notes

Event Dates

Initial Effective/Approval: 06/13/2019
 Most Recent Approval: 06/13/2019

TA Expiration:

Company: Tamaroa Operating, LLC.
Project: Chaves County, N.M. (NAD 27)
Site: Section 21-7S-28E Bonanza 2H Project
Well: Bonanza 2H
Wellbore: Original Hole
Design: As drilled

Local Co-ordinate Reference: Well Bonanza 2H
TVD Reference: 3977+17 @ 3994.0usft
MD Reference: 3977+17 @ 3994.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey Program		Date 02/06/20		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
91.6	1,400.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
1,431.0	6,915.0	Stryker Surveys (Original Hole)	MWD	MWD v3:standard declination

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	981,838.60	574,819.50	
91.6	0.31	4.99	91.6	0.2	0.0	0.2	4.99	0.34	981,838.85	574,819.52	
183.7	0.43	22.38	183.7	0.8	0.2	0.8	12.11	0.18	981,839.41	574,819.67	
272.9	0.56	32.45	272.8	1.5	0.5	1.6	19.76	0.17	981,840.09	574,820.04	
363.2	0.70	33.93	363.2	2.3	1.1	2.6	24.96	0.16	981,840.92	574,820.58	
455.5	0.85	28.23	455.5	3.4	1.7	3.8	26.87	0.18	981,841.99	574,821.22	
550.4	1.06	17.22	550.4	4.9	2.3	5.4	25.48	0.29	981,843.45	574,821.81	
644.2	1.08	10.18	644.2	6.6	2.7	7.1	22.59	0.14	981,845.15	574,822.23	
738.5	1.12	29.52	738.4	8.2	3.3	8.9	22.07	0.39	981,846.83	574,822.84	
833.3	1.14	35.82	833.2	9.8	4.3	10.7	23.91	0.13	981,848.40	574,823.85	
928.6	1.25	47.53	928.5	11.3	5.7	12.6	26.70	0.28	981,849.87	574,825.17	
1,022.4	1.31	46.25	1,022.3	12.7	7.2	14.6	29.53	0.07	981,851.30	574,826.70	
1,117.4	1.31	49.22	1,117.3	14.2	8.8	16.7	31.86	0.07	981,852.76	574,828.30	
1,211.5	1.01	45.24	1,211.3	15.4	10.2	18.5	33.45	0.33	981,854.05	574,829.71	
1,305.8	0.95	48.78	1,305.6	16.5	11.4	20.1	34.52	0.09	981,855.15	574,830.88	
1,400.0	0.77	49.45	1,399.8	17.5	12.5	21.5	35.47	0.19	981,856.07	574,831.95	
First Stryker Surveys											
1,431.0	0.30	60.30	1,430.8	17.7	12.7	21.7	35.70	1.55	981,856.25	574,832.18	
1,463.0	0.60	188.70	1,462.8	17.5	12.7	21.7	35.99	2.56	981,856.13	574,832.23	
1,494.0	2.80	219.00	1,493.8	16.8	12.2	20.8	36.09	7.43	981,855.38	574,831.73	
1,526.0	5.40	220.70	1,525.7	15.0	10.8	18.5	35.59	8.13	981,853.63	574,830.25	

Company: Tamaroa Operating, LLC.
Project: Chaves County, N.M. (NAD 27)
Site: Section 21-7S-28E Bonanza 2H Project
Well: Bonanza 2H
Wellbore: Original Hole
Design: As drilled

Local Co-ordinate Reference: Well Bonanza 2H
TVD Reference: 3977+17 @ 3994.0usft
MD Reference: 3977+17 @ 3994.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
1,558.0	8.10	224.90	1,557.5	12.3	8.2	14.8	33.65	8.57	981,850.89	574,827.68	
1,590.0	11.90	225.60	1,589.0	8.4	4.2	9.4	26.78	11.88	981,846.98	574,823.73	
1,621.0	15.50	224.10	1,619.1	3.2	-0.9	3.3	343.52	11.67	981,841.77	574,818.56	
1,653.0	17.40	221.30	1,649.8	-3.5	-7.1	7.9	243.69	6.43	981,835.10	574,812.43	
1,683.0	19.40	218.60	1,678.3	-10.8	-13.1	17.0	230.69	7.25	981,827.84	574,806.36	
1,713.0	21.10	216.10	1,706.4	-19.0	-19.4	27.2	225.62	6.36	981,819.58	574,800.07	
1,744.0	22.90	213.40	1,735.1	-28.6	-26.0	38.7	222.35	6.66	981,810.04	574,793.46	
1,775.0	24.90	209.40	1,763.5	-39.3	-32.6	51.0	219.66	8.30	981,799.31	574,786.93	
1,806.0	26.40	206.40	1,791.4	-51.1	-38.8	64.2	217.21	6.40	981,787.45	574,780.87	
1,836.0	27.60	203.70	1,818.2	-63.5	-44.6	77.6	215.09	5.72	981,775.12	574,774.91	
1,867.0	29.30	204.00	1,845.4	-77.0	-50.6	92.1	213.30	5.50	981,761.61	574,768.93	
1,897.0	31.20	205.90	1,871.3	-90.7	-56.9	107.1	212.13	7.09	981,747.91	574,762.55	
1,928.0	32.60	208.60	1,897.6	-105.2	-64.5	123.4	211.48	6.45	981,733.36	574,755.05	
1,959.0	32.70	211.40	1,923.7	-119.7	-72.8	140.1	211.31	4.88	981,718.88	574,746.69	
1,990.0	33.70	211.50	1,949.7	-134.2	-81.7	157.1	211.32	3.23	981,704.39	574,737.83	
2,020.0	35.80	212.20	1,974.3	-148.7	-90.7	174.2	211.37	7.13	981,689.87	574,728.81	
2,066.0	39.30	213.70	2,010.8	-172.2	-106.0	202.2	211.60	7.86	981,666.36	574,713.55	
2,113.0	43.90	215.20	2,045.9	-198.0	-123.6	233.4	211.98	10.01	981,640.65	574,695.89	
2,159.0	46.50	215.20	2,078.4	-224.6	-142.4	266.0	212.38	5.65	981,613.98	574,677.07	
2,205.0	50.60	212.90	2,108.8	-253.2	-161.7	300.4	212.57	9.67	981,585.41	574,657.79	
2,251.0	53.40	211.30	2,137.1	-283.9	-181.0	336.7	212.51	6.68	981,554.70	574,638.54	
2,297.0	57.00	209.70	2,163.4	-316.4	-200.1	374.4	212.31	8.33	981,522.16	574,619.38	
2,343.0	59.00	207.10	2,187.7	-350.8	-218.7	413.3	211.94	6.47	981,487.84	574,600.84	
2,389.0	59.30	205.90	2,211.3	-386.1	-236.3	452.7	211.46	2.33	981,452.50	574,583.22	
2,435.0	60.90	205.10	2,234.3	-422.1	-253.4	492.3	210.98	3.79	981,416.51	574,566.06	
2,481.0	64.40	203.90	2,255.4	-459.3	-270.4	532.9	210.49	7.95	981,379.33	574,549.12	
2,527.0	67.80	202.10	2,274.0	-498.0	-286.8	574.7	209.94	8.21	981,340.63	574,532.70	

Company: Tamaroa Operating, LLC.
Project: Chaves County, N.M. (NAD 27)
Site: Section 21-7S-28E Bonanza 2H Project
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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,573.0	73.00	197.80	2,289.5	-538.7	-301.5	617.4	209.24	14.33	981,299.91	574,517.95	
2,619.0	75.60	192.20	2,301.9	-581.4	-313.0	660.3	208.29	13.01	981,257.15	574,506.51	
2,665.0	76.90	186.50	2,312.9	-625.5	-320.2	702.7	207.11	12.36	981,213.08	574,499.26	
2,711.0	80.40	182.90	2,321.9	-670.4	-323.9	744.6	205.79	10.80	981,168.15	574,495.57	
2,757.0	86.20	179.10	2,327.3	-716.1	-324.7	786.3	204.39	15.04	981,122.50	574,494.79	
2,802.0	88.40	178.80	2,329.4	-761.0	-323.9	827.1	203.05	4.93	981,077.56	574,495.61	
2,848.0	90.50	179.50	2,329.8	-807.0	-323.2	869.3	201.83	4.81	981,031.57	574,496.29	
2,944.0	87.20	177.90	2,331.8	-903.0	-321.0	958.3	199.57	3.82	980,935.63	574,498.47	
3,038.0	88.00	177.90	2,335.7	-996.8	-317.6	1,046.2	197.67	0.85	980,841.78	574,501.91	
3,133.0	87.80	177.80	2,339.2	-1,091.7	-314.0	1,136.0	196.05	0.24	980,746.91	574,505.47	
3,228.0	91.20	179.40	2,340.0	-1,186.6	-311.7	1,226.9	194.72	3.96	980,651.96	574,507.79	
3,323.0	90.90	179.60	2,338.3	-1,281.6	-310.9	1,318.8	193.63	0.38	980,556.98	574,508.62	
3,417.0	91.00	179.50	2,336.7	-1,375.6	-310.1	1,410.1	192.71	0.15	980,462.99	574,509.36	
3,512.0	90.50	178.90	2,335.5	-1,470.6	-308.8	1,502.7	191.86	0.82	980,368.01	574,510.68	
3,607.0	89.70	180.30	2,335.3	-1,565.6	-308.2	1,595.6	191.14	1.70	980,273.02	574,511.35	
3,701.0	89.10	182.40	2,336.3	-1,659.5	-310.4	1,688.3	190.59	2.32	980,179.05	574,509.13	
3,796.0	90.30	181.10	2,336.8	-1,754.5	-313.3	1,782.2	190.12	1.86	980,084.10	574,506.23	
3,891.0	90.20	181.10	2,336.4	-1,849.5	-315.1	1,876.1	189.67	0.11	979,989.12	574,504.41	
3,985.0	89.80	181.20	2,336.4	-1,943.5	-317.0	1,969.1	189.26	0.44	979,895.14	574,502.52	
4,080.0	89.50	181.50	2,337.0	-2,038.4	-319.2	2,063.3	188.90	0.45	979,800.17	574,500.28	
4,201.0	90.10	181.90	2,337.4	-2,159.4	-322.8	2,183.4	188.50	0.60	979,679.22	574,496.69	
4,295.0	89.50	178.50	2,337.7	-2,253.4	-323.1	2,276.4	188.16	3.67	979,585.24	574,496.37	
4,390.0	88.80	180.40	2,339.1	-2,348.3	-322.2	2,370.3	187.81	2.13	979,490.26	574,497.28	
4,484.0	88.70	180.50	2,341.2	-2,442.3	-323.0	2,463.6	187.53	0.15	979,396.28	574,496.54	
4,578.0	88.70	180.10	2,343.3	-2,536.3	-323.5	2,556.8	187.27	0.43	979,302.31	574,496.05	
4,672.0	88.40	180.20	2,345.7	-2,630.3	-323.7	2,650.1	187.02	0.34	979,208.34	574,495.80	
4,767.0	91.10	181.50	2,346.1	-2,725.2	-325.1	2,744.6	186.80	3.15	979,113.36	574,494.39	

Company: Tamaroa Operating, LLC.
Project: Chaves County, N.M. (NAD 27)
Site: Section 21-7S-28E Bonanza 2H Project
Well: Bonanza 2H
Wellbore: Original Hole
Design: As drilled

Local Co-ordinate Reference: Well Bonanza 2H
TVD Reference: 3977+17 @ 3994.0usft
MD Reference: 3977+17 @ 3994.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
4,863.0	91.30	181.10	2,344.1	-2,821.2	-327.3	2,840.1	186.62	0.47	979,017.41	574,492.22	
4,957.0	90.80	181.10	2,342.4	-2,915.2	-329.1	2,933.7	186.44	0.53	978,923.44	574,490.41	
5,052.0	91.00	181.40	2,340.9	-3,010.1	-331.2	3,028.3	186.28	0.38	978,828.47	574,488.34	
5,146.0	89.30	180.40	2,340.6	-3,104.1	-332.6	3,121.9	186.12	2.10	978,734.49	574,486.86	
5,240.0	88.70	180.60	2,342.3	-3,198.1	-333.5	3,215.4	185.95	0.67	978,640.51	574,486.04	
5,348.0	88.40	181.00	2,345.0	-3,306.0	-335.0	3,323.0	185.79	0.46	978,532.56	574,484.54	
5,440.0	87.60	180.60	2,348.2	-3,398.0	-336.2	3,414.6	185.65	0.97	978,440.62	574,483.25	
5,533.0	88.30	180.30	2,351.5	-3,490.9	-337.0	3,507.1	185.51	0.82	978,347.68	574,482.52	
5,624.0	89.10	180.80	2,353.6	-3,581.9	-337.9	3,597.8	185.39	1.04	978,256.71	574,481.65	
5,716.0	89.60	181.80	2,354.6	-3,673.9	-339.9	3,689.5	185.29	1.22	978,164.74	574,479.56	
5,808.0	90.90	181.60	2,354.2	-3,765.8	-342.7	3,781.4	185.20	1.43	978,072.79	574,476.83	
5,902.0	90.40	181.00	2,353.2	-3,859.8	-344.8	3,875.2	185.10	0.83	977,978.82	574,474.70	
5,997.0	89.80	180.70	2,353.0	-3,954.8	-346.2	3,969.9	185.00	0.71	977,883.83	574,473.29	
6,091.0	88.70	179.60	2,354.2	-4,048.8	-346.5	4,063.6	184.89	1.65	977,789.84	574,473.04	
6,185.0	88.00	179.30	2,356.9	-4,142.7	-345.6	4,157.1	184.77	0.81	977,695.88	574,473.95	
6,279.0	89.70	180.10	2,358.8	-4,236.7	-345.1	4,250.7	184.66	2.00	977,601.91	574,474.44	
6,374.0	89.70	179.40	2,359.3	-4,331.7	-344.6	4,345.4	184.55	0.74	977,506.91	574,474.85	
6,469.0	91.00	179.60	2,358.7	-4,426.7	-343.8	4,440.0	184.44	1.38	977,411.92	574,475.68	
6,564.0	91.00	179.80	2,357.1	-4,521.7	-343.3	4,534.7	184.34	0.21	977,316.94	574,476.18	
6,658.0	90.90	179.60	2,355.5	-4,615.7	-342.8	4,628.4	184.25	0.24	977,222.95	574,476.67	
6,753.0	90.40	179.00	2,354.4	-4,710.6	-341.7	4,723.0	184.15	0.82	977,127.96	574,477.83	
6,848.0	90.40	179.50	2,353.8	-4,805.6	-340.4	4,817.7	184.05	0.53	977,032.97	574,479.07	
6,872.0	90.50	179.50	2,353.6	-4,829.6	-340.2	4,841.6	184.03	0.42	977,008.98	574,479.28	
6,915.0	90.50	179.50	2,353.2	-4,872.6	-339.8	4,884.5	183.99	0.00	976,965.98	574,479.66	
6915.0' Projected to bit											

Company: Tamaroa Operating, LLC.
Project: Chaves County,N.M. (NAD 27)
Site: Section 21-7S-28E Bonanza 2H Project
Well: Bonanza 2H
Wellbore: Original Hole
Design: As drilled

Local Co-ordinate Reference: Well Bonanza 2H
TVD Reference: 3977+17 @ 3994.0usft
MD Reference: 3977+17 @ 3994.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,400.0	1,399.8	17.5	12.5	First Stryker Surveys
6,915.0	2,353.2	-4,872.6	-339.8	6915.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.93°

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	1440.0	0.80	46.78	1439.8	17.8	12.9	0.00	0.00	-18.7	
2	2356.9	60.00	209.65	2200.1	-358.8	-199.1	6.63	163.00	372.0	
3	2431.9	60.00	209.65	2237.6	-415.3	-231.2	0.00	0.00	430.6	
4	2802.3	89.79	180.43	2335.0	-754.3	-315.5	11.00	-48.41	774.7	
5	6926.0	89.79	180.43	2350.0	-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

