

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Tamaroa Operating, LLC PO Box 866937 Plano, TX 750866937		² OGRID Number 328666	
		³ Reason for Filing Code/ Effective Date RT 500 bbl	
⁴ API Number 30 - 005-64348	⁵ Pool Name TWIN LAKES, SAN ANDRES		⁶ Pool Code 61570
⁷ Property Code 325485	⁸ Property Name Hellcat		⁹ Well Number 3H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
G	25	08S	28E		2540	N	2240	E	Chaves

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	25	08S	28E		313.9	N	2224	E	Chaves
¹² Lse Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date 3/15/22	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
278421	Holly Frontier Refining and Marketing PO Box 159, Artesia, NM 88210	O

IV. Well Completion Data

²¹ Spud Date 1/6/2020	²² Ready Date 1/17/2022	²³ TD 4769	²⁴ PBTD 4769	²⁵ Perforations 2427-4769	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
26"	20" 94# J-55	41 ft	44 sx		
17.5"	13 3/8" 54.5# J-55	440 ft	500 sx		
12 1/4"	8 5/8" 32# J-55	1608 ft	805 sx		
7 7/8"	5 1/2" 17# L-80	2427 ft	385 sx,		

V. Well Test Data

³¹ Date New Oil 2/10/22	³² Gas Delivery Date 3/15/22	³³ Test Date 2/11/22	³⁴ Test Length 24 Hr	³⁵ Tbg. Pressure NA	³⁶ Csg. Pressure NA
³⁷ Choke Size NA	³⁸ Oil 17 Bbl	³⁹ Water 132 Bbl	⁴⁰ Gas 15 MCF		⁴¹ Test Method Pumping
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: 			OIL CONSERVATION DIVISION		
Printed name: Geoff Bahlburg			Approved by: 		
Title: Vice President			Title: Petroleum Engineer		
E-mail Address: Geoff@tamaroadev.com			Approval Date: 05/02/22		
Date: 3/28/2022		Phone: 972-867-2575			

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 30-005-64348	Pool Code 61570	Pool Name TWIN LAKE: SAN ANDRES (ASSOC)
Property Code 325485	Property Name HELLCAT	Well Number 3H
OGRID No. 328666	Operator Name TAMAROA OPERATING, LLC	Elevation 3932'

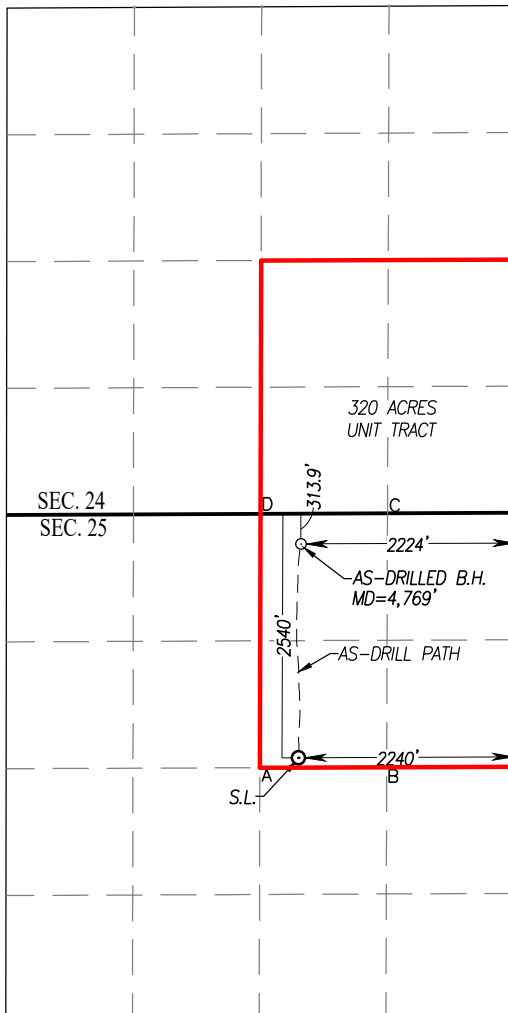
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	25	8-S	28-E		2540	NORTH	2240	EAST	CHAVES

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
B	25	8-S	28-E		313.9	NORTH	2224	EAST	CHAVES
Dedicated Acres 320	Joint or Infill 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'

AS-DRILLED BOTTOM HOLE LOCATION NAD 83 NME Y= 945020.2 N X= 630562.5 E LAT.=33.597393° N LONG.=104.040306° W	AS-DRILLED BOTTOM HOLE LOCATION NAD 27 NME Y= 944955.5 N X= 589384.9 E LAT.=33.597297° N LONG.=104.039788° W
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CORNER COORDINATES TABLE

NAD 27 NME
A - Y= 942625.7 N, X= 588957.8 E
B - Y= 942631.3 N, X= 590278.9 E
C - Y= 945273.3 N, X= 590287.1 E
D - Y= 945267.5 N, X= 588964.4 E

CORNER COORDINATES TABLE

NAD 83 NME
A - Y= 942690.4 N, X= 630135.4 E
B - Y= 942695.9 N, X= 631456.5 E
C - Y= 945337.9 N, X= 631464.6 E
D - Y= 945332.1 N, X= 630142.0 E

GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 942794.5 N X= 630536.1 E LAT.=33.591276° N LONG.=104.040414° W	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 942729.9 N X= 589358.5 E LAT.=33.591180° N LONG.=104.039896° W
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NOTE: AS-DRILLED BOTTOM HOLE POINT
PLOTTED FROM DATA FURNISHED BY STRYKER
DIRECTIONAL ON DECEMBER 16, 2021.

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
Signature

3/24/22
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.

OCTOBER 27, 2019

Date of Survey

Signature & Seal of Professional Surveyor

3239

REGISTERED PROFESSIONAL SURVEYOR

RONALD J. EIDSON

03/23/2022

Ronald J. Eidson

03/23/2022

Certificate Number

Gary G. Eidson 12641

Ronald J. Eidson 3239

ACK REL. W.O.:22130080 JWSC W.O.: 22.13.0104

ANNOTATIONS - VERTICAL/LATERAL 1

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1456.00	0.81	78.77	1455.98	1.40	3.03	1.40	0.00	Tie-in to Gyro Survey - 1456' MD
1537.00	0.00	0.00	1536.98	1.51	3.59	1.51	0.57	Begin Vertical Hold
2512.70	0.00	0.00	2512.68	1.51	3.59	1.51	0.57	KOP, Begin 45.00°/100' Build
2712.70	90.00	0.00	2640.00	128.84	3.59	128.84	127.90	Begin 90.00° Lateral
5583.86	90.00	0.00	2640.00	3000.00	3.59	3000.00	2999.06	PBHL

T

G

M

Azimuths to Grid North
True North: -0.16°
Magnetic North: 6.66°

Magnetic Field
Strength: 48197.8nT
Dip Angle: 61.05°
Date: 12/1/2021
Model: IGRF2020

US State Plane 1983
New Mexico Eastern Zone

Created By: HLH
Date: 14:59, December 16 2021
Plan: Design #5

Grid North is 0.16° East of True North (Grid Convergence)
To convert a Magnetic Direction to a Grid Direction, Add 6.66°
To convert a Magnetic Direction to a True Direction, Add 6.82° East

Vertical Section at 0.00° (100 usf/in)

Vertical Section at 0.00° (20 usf/in)

Vertical Section at 0.00° (100 usf/in)

West-Y/East(°) (100 usf/in)

Released to Imaging: 5/2/2022 16:18:53 AM



Tamaroa Operating, LLC.

**Chaves County, NM (NAD 83)
Section 25 24-8S-28E Hellcat
Hellcat 3H
Wellbore #1**

Design: Surveys

Final Surveys

16 December, 2021



Stryker Directional
 Final Surveys

Company:	Tamaroa Operating, LLC.	Local Co-ordinate Reference:	Well Hellcat 3H
Project:	Chaves County, NM (NAD 83)	TVD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Site:	Section 25 24-8S-28E Hellcat	MD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Well:	Hellcat 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Project	Chaves 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	Section 25 24-8S-28E Hellcat		
Site Position:		Northing:	942,802.8000 usft
From:	Map	Easting:	632,425.7000 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	33° 35' 28.623 N
		Longitude:	104° 2' 3.151 W
		Grid Convergence:	0.17 °

Well	Hellcat 3H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	15.00 usft
		Latitude:	33° 35' 28.594 N
		Longitude:	104° 2' 25.490 W
		Ground Level:	3,932.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	12/1/2021	6.82
			Dip Angle (°)
			61.05
			Field Strength (nT)
			48,197.76962141

Design	Surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			0.00



Stryker Directional

Final Surveys



Company:	Tamaroa Operating, LLC.	Local Co-ordinate Reference:	Well Hellcat 3H
Project:	Chaves County, NM (NAD 83)	TVD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Site:	Section 25 24-8S-28E Hellcat	MD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Well:	Hellcat 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey Program	Date	12/16/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,456.00	Gyrodata Gyro (Wellbore #1)	Gyrodata New 2-16-16	Gyrodata Stationary Tool drop on BHA	
1,500.00	4,769.00	Stryker MWD (Wellbore #1)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
0.00	0.00	0.00	0.00	0.00	0.00	942,794.5000	630,536.1000	0.00	0.00	0.00
100.00	0.39	96.64	100.00	-0.04	0.34	942,794.4606	630,536.4381	0.39	0.00	-0.04
200.00	0.22	103.23	200.00	-0.12	0.86	942,794.3774	630,536.9630	-0.17	6.59	-0.12
300.00	0.13	123.57	300.00	-0.23	1.14	942,794.2707	630,537.2444	-0.09	20.34	-0.23
400.00	0.11	233.88	400.00	-0.35	1.16	942,794.1514	630,537.2614	-0.02	110.31	-0.35
500.00	0.15	247.36	500.00	-0.46	0.96	942,794.0444	630,537.0630	0.04	13.48	-0.46
600.00	0.24	293.93	600.00	-0.42	0.65	942,794.0790	630,536.7508	0.09	46.57	-0.42
700.00	0.36	289.12	700.00	-0.23	0.16	942,794.2668	630,536.2625	0.12	-4.81	-0.23
800.00	0.07	128.40	799.99	-0.17	-0.09	942,794.3318	630,536.0136	-0.29	-160.72	-0.17
900.00	0.12	313.18	899.99	-0.13	-0.11	942,794.3655	630,535.9851	0.05	-175.22	-0.13
1,000.00	0.24	49.87	999.99	0.07	-0.03	942,794.5721	630,536.0689	0.12	96.69	0.07
1,100.00	0.29	68.16	1,099.99	0.30	0.36	942,794.8013	630,536.4639	0.05	18.29	0.30
1,200.00	0.37	57.14	1,199.99	0.57	0.87	942,795.0706	630,536.9700	0.08	-11.02	0.57
1,300.00	0.43	59.67	1,299.99	0.94	1.47	942,795.4353	630,537.5651	0.06	2.53	0.94
1,400.00	0.64	76.74	1,399.98	1.25	2.33	942,795.7529	630,538.4326	0.21	17.07	1.25
1,456.00	0.73	80.71	1,455.98	1.38	2.99	942,795.8821	630,539.0884	0.16	7.08	1.38
Final Gyrodata Gyro - 1456.0' MD										
1,500.00	0.80	83.20	1,499.98	1.46	3.57	942,795.9636	630,539.6694	0.16	5.67	1.46
1,600.00	0.70	83.50	1,599.97	1.62	4.87	942,796.1155	630,540.9695	-0.10	0.30	1.62
1,700.00	0.60	73.90	1,699.96	1.83	5.98	942,796.3298	630,542.0795	-0.10	-9.60	1.83
1,800.00	0.60	67.80	1,799.96	2.17	6.97	942,796.6728	630,543.0674	0.00	-6.10	2.17

Stryker Directional
 Final Surveys

Company:	Tamaroa Operating, LLC.	Local Co-ordinate Reference:	Well Hellcat 3H
Project:	Chaves County, NM (NAD 83)	TVD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Site:	Section 25 24-8S-28E Hellcat	MD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Well:	Hellcat 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
1,900.00	0.80	73.00	1,899.95	2.57	8.12	942,797.0748	630,544.2197	0.20	5.20	2.57
2,000.00	0.60	73.70	1,999.94	2.93	9.29	942,797.4258	630,545.3899	-0.20	0.70	2.93
2,100.00	0.60	62.50	2,099.94	3.31	10.26	942,797.8146	630,546.3569	0.00	-11.20	3.31
2,200.00	0.40	78.50	2,199.93	3.63	11.06	942,798.1259	630,547.1633	-0.20	16.00	3.63
2,300.00	0.30	42.30	2,299.93	3.89	11.58	942,798.3891	630,547.6816	-0.10	-36.20	3.89
2,398.00	0.40	70.20	2,397.93	4.19	12.08	942,798.6948	630,548.1761	0.10	28.47	4.19
2,459.00	0.10	29.30	2,458.93	4.31	12.30	942,798.8133	630,548.4025	-0.49	-67.05	4.31
2,490.00	8.00	350.40	2,489.83	6.47	11.96	942,800.9673	630,548.0555	25.48	-125.48	6.47
2,522.00	23.30	354.10	2,520.55	15.01	10.93	942,809.5091	630,547.0274	47.81	11.56	15.01
2,553.00	37.50	356.50	2,547.22	30.61	9.71	942,825.1063	630,545.8149	45.81	7.74	30.61
2,582.00	51.20	358.10	2,567.91	50.81	8.80	942,845.3080	630,544.8969	47.24	5.52	50.81
2,611.00	65.00	358.50	2,583.20	75.36	8.07	942,869.8580	630,544.1748	47.59	1.38	75.36
2,642.00	76.10	357.50	2,593.50	104.52	7.05	942,899.0247	630,543.1475	35.81	-3.23	104.52
2,674.00	84.00	357.40	2,599.03	135.99	5.65	942,930.4872	630,541.7460	24.69	-0.31	135.99
2,706.00	85.10	356.90	2,602.07	167.80	4.06	942,962.3026	630,540.1620	3.44	-1.56	167.80
2,737.00	89.00	359.70	2,603.66	198.74	3.15	942,993.2388	630,539.2452	12.58	9.03	198.74
2,768.00	88.70	1.90	2,604.28	229.73	3.58	943,024.2276	630,539.6778	-0.97	7.10	229.73
2,800.00	90.80	4.40	2,604.42	261.67	5.34	943,056.1746	630,541.4360	6.56	7.81	261.67
2,831.00	90.40	4.60	2,604.10	292.58	7.77	943,087.0773	630,543.8681	-1.29	0.65	292.58
2,863.00	85.40	3.30	2,605.27	324.47	9.97	943,118.9690	630,546.0708	-15.62	-4.06	324.47
2,894.00	84.60	3.50	2,607.97	355.30	11.80	943,149.7964	630,547.9023	-2.58	0.65	355.30
2,926.00	86.00	3.90	2,610.60	387.12	13.86	943,181.6215	630,549.9604	4.37	1.25	387.12
2,957.00	86.50	2.20	2,612.62	418.01	15.51	943,212.5100	630,551.6061	1.61	-5.48	418.01
2,989.00	87.30	0.20	2,614.35	449.95	16.18	943,244.4543	630,552.2751	2.50	-6.25	449.95
3,019.00	89.00	0.40	2,615.32	479.94	16.33	943,274.4372	630,552.4321	5.67	0.67	479.94
3,051.00	90.20	0.20	2,615.55	511.94	16.50	943,306.4353	630,552.5996	3.75	-0.62	511.94
3,082.00	91.70	359.00	2,615.03	542.93	16.28	943,337.4289	630,552.3833	4.84	-3.87	542.93

Stryker Directional
 Final Surveys

Company:	Tamaroa Operating, LLC.	Local Co-ordinate Reference:	Well Hellcat 3H
Project:	Chaves County, NM (NAD 83)	TVD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Site:	Section 25 24-8S-28E Hellcat	MD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Well:	Hellcat 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
3,114.00	91.40	358.70	2,614.17	574.91	15.64	943,369.4106	630,551.7413	-0.94	-0.94	574.91
3,145.00	89.50	357.40	2,613.92	605.89	14.59	943,400.3896	630,550.6865	-6.13	-4.19	605.89
3,176.00	89.90	357.50	2,614.08	636.86	13.21	943,431.3585	630,549.3073	1.29	0.32	636.86
3,207.00	89.10	356.00	2,614.36	667.81	11.45	943,462.3063	630,547.5500	-2.58	-4.84	667.81
3,239.00	89.50	355.90	2,614.75	699.72	9.19	943,494.2239	630,545.2901	1.25	-0.31	699.72
3,271.00	90.60	357.40	2,614.72	731.67	7.32	943,526.1678	630,543.4203	3.44	4.69	731.67
3,302.00	89.50	359.60	2,614.69	762.65	6.51	943,557.1548	630,542.6088	-3.55	7.10	762.65
3,334.00	91.30	0.20	2,614.47	794.65	6.45	943,589.1525	630,542.5530	5.62	1.87	794.65
3,365.00	90.10	359.50	2,614.09	825.65	6.37	943,620.1493	630,542.4718	-3.87	-2.26	825.65
3,396.00	89.10	357.90	2,614.31	856.64	5.67	943,651.1392	630,541.7686	-3.23	-5.16	856.64
3,428.00	92.30	358.00	2,613.91	888.61	4.52	943,683.1122	630,540.6241	10.00	0.31	888.61
3,460.00	93.70	358.00	2,612.24	920.55	3.41	943,715.0481	630,539.5089	4.37	0.00	920.55
3,492.00	92.70	356.70	2,610.45	952.46	1.93	943,746.9629	630,538.0315	-3.12	-4.06	952.46
3,523.00	92.80	356.30	2,608.97	983.37	0.04	943,777.8694	630,536.1412	0.32	-1.29	983.37
3,555.00	92.00	355.80	2,607.63	1,015.27	-2.16	943,809.7650	630,533.9388	-2.50	-1.56	1,015.27
3,583.00	92.30	355.20	2,606.58	1,043.16	-4.36	943,837.6589	630,531.7435	1.07	-2.14	1,043.16
3,615.00	91.70	355.60	2,605.46	1,075.04	-6.92	943,869.5362	630,529.1788	-1.87	1.25	1,075.04
3,646.00	88.50	354.40	2,605.40	1,105.91	-9.62	943,900.4136	630,526.4773	-10.32	-3.87	1,105.91
3,678.00	89.10	354.40	2,606.08	1,137.75	-12.74	943,932.2537	630,523.3554	1.87	0.00	1,137.75
3,704.00	90.50	356.70	2,606.17	1,163.67	-14.76	943,958.1728	630,521.3383	5.38	8.85	1,163.67
3,736.00	90.00	357.40	2,606.03	1,195.63	-16.41	943,990.1298	630,519.6914	-1.56	2.19	1,195.63
3,769.00	91.40	0.20	2,605.62	1,228.62	-17.10	944,023.1160	630,519.0004	4.24	8.48	1,228.62
3,800.00	88.90	358.30	2,605.54	1,259.61	-17.51	944,054.1093	630,518.5946	-8.06	-6.13	1,259.61
3,832.00	91.00	359.70	2,605.57	1,291.60	-18.06	944,086.1019	630,518.0362	6.56	4.37	1,291.60
3,864.00	92.70	1.10	2,604.54	1,323.58	-17.84	944,118.0824	630,518.2593	5.31	4.37	1,323.58
3,895.00	90.50	359.70	2,603.67	1,354.57	-17.62	944,149.0669	630,518.4754	-7.10	-4.52	1,354.57
3,924.00	93.50	0.30	2,602.66	1,383.55	-17.62	944,178.0458	630,518.4752	10.34	2.07	1,383.55

Stryker Directional
 Final Surveys

Company:	Tamaroa Operating, LLC.	Local Co-ordinate Reference:	Well Hellcat 3H
Project:	Chaves County, NM (NAD 83)	TVD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Site:	Section 25 24-8S-28E Hellcat	MD Reference:	RKB @ 3947.00usft (S&W Rig 12)
Well:	Hellcat 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM5000

Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Build (°/100usft)	Turn (°/100usft)	V. Sec (usft)
3,956.00	93.40	1.20	2,600.73	1,415.48	-17.21	944,209.9848	630,518.8933	-0.31	2.81	1,415.48
3,987.00	92.90	1.70	2,599.03	1,446.43	-16.42	944,240.9278	630,519.6766	-1.61	1.61	1,446.43
4,019.00	92.80	1.40	2,597.44	1,478.38	-15.56	944,272.8765	630,520.5411	-0.31	-0.94	1,478.38
4,050.00	90.30	0.90	2,596.60	1,509.36	-14.94	944,303.8564	630,521.1629	-8.06	-1.61	1,509.36
4,082.00	88.00	0.70	2,597.08	1,541.35	-14.49	944,335.8475	630,521.6097	-7.19	-0.62	1,541.35
4,114.00	87.50	1.00	2,598.33	1,573.32	-14.02	944,367.8192	630,522.0840	-1.56	0.94	1,573.32
4,146.00	90.60	2.70	2,598.86	1,605.29	-12.98	944,399.7931	630,523.1170	9.69	5.31	1,605.29
4,177.00	88.40	1.80	2,599.13	1,636.27	-11.77	944,430.7658	630,524.3339	-7.10	-2.90	1,636.27
4,208.00	89.30	2.10	2,599.75	1,667.24	-10.71	944,461.7412	630,525.3886	2.90	0.97	1,667.24
4,239.00	91.80	2.90	2,599.46	1,698.21	-9.36	944,492.7076	630,526.7405	8.06	2.58	1,698.21
4,270.00	89.50	1.90	2,599.11	1,729.18	-8.06	944,523.6759	630,528.0384	-7.42	-3.23	1,729.18
4,302.00	90.50	3.00	2,599.11	1,761.15	-6.69	944,555.6458	630,529.4063	3.12	3.44	1,761.15
4,333.00	89.20	1.70	2,599.19	1,792.12	-5.42	944,586.6183	630,530.6774	-4.19	-4.19	1,792.12
4,365.00	88.00	359.80	2,599.97	1,824.10	-5.00	944,618.6039	630,531.0962	-3.75	-5.94	1,824.10
4,396.00	89.90	0.20	2,600.54	1,855.10	-5.00	944,649.5972	630,531.0963	6.13	1.29	1,855.10
4,428.00	89.40	1.10	2,600.73	1,887.09	-4.64	944,681.5941	630,531.4593	-1.56	2.81	1,887.09
4,460.00	89.80	2.60	2,600.96	1,919.08	-3.61	944,713.5757	630,532.4923	1.25	4.69	1,919.08
4,491.00	90.00	3.00	2,601.01	1,950.04	-2.09	944,744.5386	630,534.0066	0.65	1.29	1,950.04
4,524.00	88.50	2.50	2,601.44	1,983.00	-0.51	944,777.4967	630,535.5897	-4.55	-1.52	1,983.00
4,556.00	87.80	2.80	2,602.47	2,014.95	0.97	944,809.4456	630,537.0684	-2.19	0.94	2,014.95
4,587.00	88.80	4.20	2,603.39	2,045.87	2.86	944,840.3730	630,538.9601	3.23	4.52	2,045.87
4,618.00	90.60	6.20	2,603.56	2,076.74	5.67	944,871.2421	630,541.7695	5.81	6.45	2,076.74
4,647.00	91.20	7.60	2,603.10	2,105.53	9.15	944,900.0277	630,545.2529	2.07	4.83	2,105.53
4,678.00	91.70	7.80	2,602.32	2,136.24	13.31	944,930.7382	630,549.4051	1.61	0.65	2,136.24
4,709.00	91.80	8.40	2,601.37	2,166.91	17.67	944,961.4145	630,553.7710	0.32	1.94	2,166.91
4,769.00	91.80	8.40	2,599.49	2,226.24	26.43	945,020.7415	630,562.5317	0.00	0.00	2,226.24

Projection to TD - 4769.00' MD



Stryker Directional

Final Surveys



Company: Tamaroa Operating, LLC.
Project: Chaves County, NM (NAD 83)
Site: Section 25 24-8S-28E Hellcat
Well: Hellcat 3H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well Hellcat 3H
TVD Reference: RKB @ 3947.00usft (S&W Rig 12)
MD Reference: RKB @ 3947.00usft (S&W Rig 12)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,456.00	1,455.98	1.38	2.99	Final Gyrodata Gyro - 1456.0' MD
4,769.00	2,599.49	2,226.24	26.43	Projection to TD - 4769.00' MD

Checked By: _____ Approved By: _____ Date: _____

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

Submit a Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-005-64348	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Hellcat	
8. Well Number 3H	
9. OGRID Number 328666	
10. Pool name or Wildcat Twin Lake; San Andres (Assoc)	
SUNDRY 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 G : 2540 feet from the N line and 2240 feet from the E line Section 25 Township 08S Range 28E NMPM Chaves County 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3932 Gr	

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: Completion ☒

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.

1/19/22: Stimulate open hole from 2427' to 4769' with 15,000 gals 20% NEFE acid

Spud Date:

1/6/2020

Rig Release Date:

12/17/21

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

SIGNATURE Geoffrey A. Bahlburg TITLE Vice President DATE 3/28/22

Type or print name Geoff Bahlburg E-mail address: Geoff@tamaroadev.com PHONE: 972-867-2575

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-005-64348		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								2. Type of Lease ☐ STATE ☒ FEE ☐ FED/INDIAN		
								3. State Oil & Gas Lease No.		
5. Lease Name or Unit Agreement Name Hellcat								6. Well Number: 3H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Tamaroa Operating, LLC						9. OGRID 328666				
10. Address of Operator 5924 West Parker Rd., Suite 200, Plano, TX 75093						11. Pool name or Wildcat Twin Lakes; San Andres				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	G	25	8S	28E		2540'	N	2240'	E	Chaves
BH:	B	25	8S	28E		320'	N	2224'	E	Chaves
13. Date Spudded 1/6/2020	14. Date T.D. Reached 12/15/2021		15. Date Rig Released 12/17/21		16. Date Completed (Ready to Produce) 1/17/22			17. Elevations (DF and RKB, RT, GR, etc.) 3932 GR		
18. Total Measured Depth of Well 4769'			19. Plug Back Measured Depth 4769'		20. Was Directional Survey Made? Yes (attached)			21. Type Electric and Other Logs Run GR/CCL		
22. Producing Interval(s), of this completion - Top, Bottom, Name 2427' to 4769' MD - San Andres										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
20"		94# J-55		41'		26"		4 yds ready-mix		None
13-3/8"		54.5# J-55		440'		17.5"		500 sxs Class C		None
8-5/8"		32# J-55		1608'		12-1/4"		805 sxs Class C		None
5-1/2"		17# N-80		2427'		7-7/8"		385 sxs Class C		None
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET	PACKER SET		
						2-7/8"	2343'	NA		
26. Perforation record (interval, size, and number) 4-3/4" Open Hole- 2427 to 4769' MD (2427' to 2599' TVD)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						OH		700 gal 20% NEFE		
						OH		15000 gal 20% NEFE		
28. PRODUCTION										
Date First Production 2/10/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping				Well Status (Prod. or Shut-in) Producing				
Date of Test 2/11/22	Hours Tested 24	Choke Size NA	Prod'n For Test Period	Oil - Bbl 17	Gas - MCF 15	Water - Bbl. 132	Gas - Oil Ratio 882			
Flow Tubing Press. NA	Casing Pressure NA	Calculated 24-Hour Rate	Oil - Bbl. 17	Gas - MCF 15	Water - Bbl. 132	Oil Gravity - API - (Corr.) 28.4				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented								30. Test Witnessed By Phelps White Jr.		
31. List Attachments Directional Survey and CR/CCL log										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date: 12/17/21		
34. If an on-site burial was used at the well, report the exact location of the on-site burial: Latitude _____ Longitude _____ NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Printed Signature  Name Geoff Bahlburg Title Vice President Date 3/28/22 E-mail Address geoff@tamaroadev.com										

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1560'	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 1970'	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from 2610' to 4769' No. 3, fromto.....
 No. 2, fromto..... No. 4, fromto.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, fromto.....feet.....
 No. 2, fromto.....feet.....
 No. 3, fromto.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
0	1560	1560'	Shale, Sand, Salt, Limestone, Anhy				
1560	1970	410'	Sand, Shale, Anhydrite, Dolomite				
1970	2427'	457'	Anhydrite, Dolomite				
2427	2599' TVD 172'		Dolomite, Anhydrite				

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 93711

ACKNOWLEDGMENTS

Operator: Tamaroa Operating, LLC PO Box 866937 Plano, TX 750866937	OGRID: 328666
	Action Number: 93711
	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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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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 93711

CONDITIONS

Operator: Tamaroa Operating, LLC PO Box 866937 Plano, TX 750866937	OGRID: 328666
	Action Number: 93711
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
llowe	None	5/2/2022