

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

Form C-101
August 1, 2011

Permit 387449

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Tamaroa Operating, LLC PO Box 866937 Plano, TX 750866937		2. OGRID Number 328666
		3. API Number 30-025-54793
4. Property Code 337327	5. Property Name Flagstick 15	6. Well No. 001

7. Surface Location

UL - Lot D	Section 15	Township 16S	Range 36E	Lot Idn D	Feet From 850	N/S Line N	Feet From 700	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot D	Section 15	Township 16S	Range 36E	Lot Idn D	Feet From 968	N/S Line N	Feet From 333	E/W Line W	County Lea
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9. Pool Information

LOVINGTON;WOLFCAMP, NORTH	96625
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3901
16. Multiple N	17. Proposed Depth 10815	18. Formation Wolfcamp	19. Contractor	20. Spud Date 6/21/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	61	420	330	0
Int1	12.25	9.625	40	4350	1800	0
Prod	8.5	5.5	20	10815	1900	4000

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	TBD
Double Ram	5000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: Printed Name: Electronically filed by William C Bahlburg Title: Manager Email Address: geoff@tamaroadev.com Date: 4/12/2025	<div style="text-align: center;">OIL CONSERVATION DIVISION</div> Approved By: Jeffrey Harrison Title: Petroleum Specialist III Approved Date: 7/1/2025 Expiration Date: 7/1/2027 Conditions of Approval Attached
Phone: 972-867-2575	

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submital Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

WELL LOCATION INFORMATION

API Number 30-025- 54793	Pool Code 96625	Pool Name LOVINGTON; WOLFCAMP, NORTH
Property Code 337327	Property Name FLAGSTICK 15	Well Number 1
OGRID No. 328666	Operator Name TAMAROA OPERATING, LLC	Ground Level Elevation 3900.5'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

Surface Location

UL D	Section 15	Township 16-S	Range 36-E	Lot	Ft. from N/S 850 FNL	Ft. from E/W 700 FWL	Latitude 32.927132°N	Longitude 103.348778°W	County LEA
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Bottom Hole Location

UL D	Section 15	Township 16-S	Range 36-E	Lot	Ft. from N/S 968 FNL	Ft. from E/W 333 FWL	Latitude 32.926807°N	Longitude 103.349972°W	County LEA
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Dedicated Acres 80.00	Infill or Defining Well N/A	Defining Well API N/A	Overlapping Spacing Unit (Y/N) N	Consolidation Code N/A
Order Numbers. R-10735			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.


4-12-25

Signature Date

BRIAN WOOD

Printed Name Type text here

brian@permitswest.com

Email Address

SURVEYOR CERTIFICATIONS

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.




4/1/25

Signature and Seal of Professional Surveyor

Certificate Number

17777

Date of Survey

MARCH 28, 2025

W.O.#25-278

DRAWN BY: WN

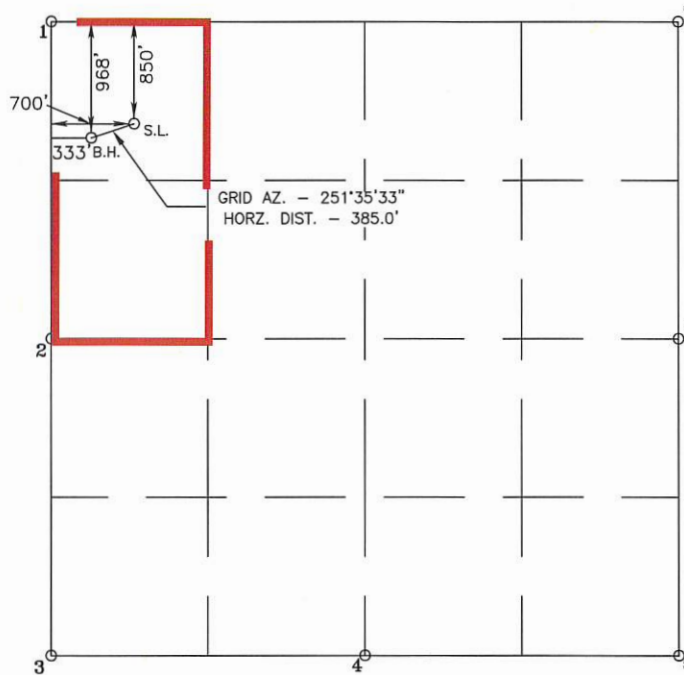
PAGE 1 OF 2

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

NAD 83 NME
SURFACE LOCATION
Y=702436.2 N
X=843433.0 E
LAT.=32.927132° N
LONG.=103.348778° W

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=702314.6 N
X=843067.7 E
LAT.=32.926807° N
LONG.=103.349972° W



POINT LEGEND	
1	Y=703278.3 N X=842722.1 E
2	Y=700633.5 N X=842755.5 E
3	Y=697968.6 N X=842790.9 E
4	Y=698014.3 N X=845434.5 E
5	Y=698040.5 N X=848078.6 E
6	Y=700689.5 N X=848047.1 E
7	Y=703337.9 N X=848015.6 E

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

Form APD Conditions

Permit 387449

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Tamaroa Operating, LLC [328666] PO Box 866937 Plano, TX 750866937	API Number: 30-025-54793
	Well: Flagstick 15 #001

OCD Reviewer	Condition
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	Administrative order required for non-standard location prior to production.
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.

Released to Imaging: 7/12/2025 1:10:41 PM

Received by OCD: 4/12/2025 4:27:51 PM

TAMAROA DEVELOPMENT LLC

Project: Lea County, NM (NAD83) NMEZ Grid
Site: Flagstick 15-1
Well: 15-1
Wellbore: 15-1 OH
Design: Plan #2

Section Lines Calculated From Plat

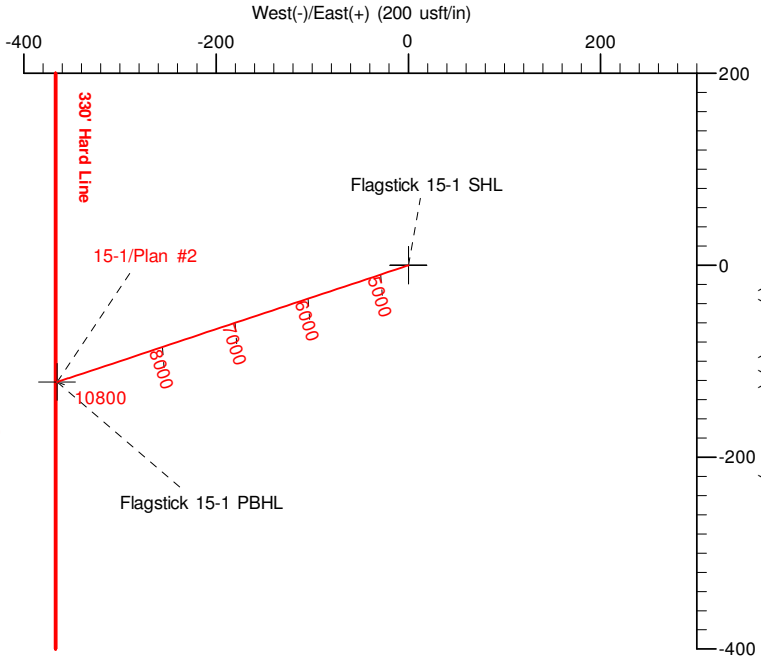
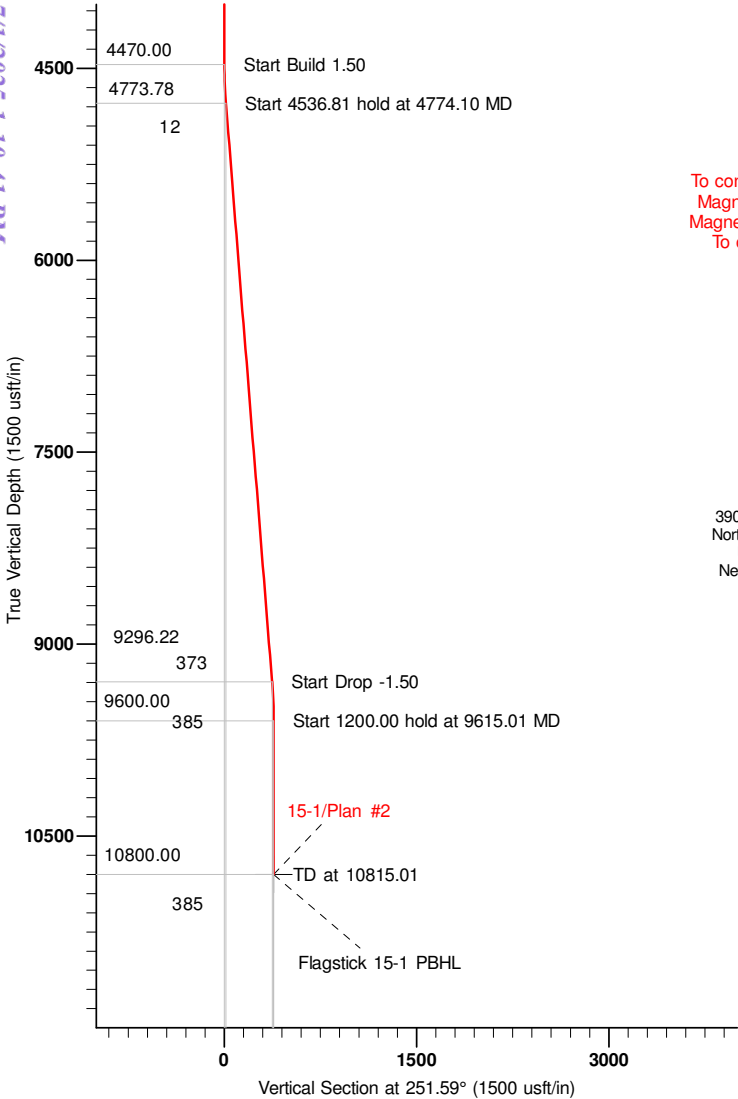


Azimuths to Grid North
True North: -0.54°
Magnetic North: 5.67°

Magnetic Field
Strength: 47480.9nT
Dip Angle: 60.43°
Date: 04/04/2025
Model: NOAA 2025

To convert a Magnetic Direction to a True Direction, Add 6.21° East
Magnetic North is 6.21° East of True North (Magnetic Declination)
Magnetic North is 5.67° East of Grid North (Magnetic Convergence)
To convert a Magnetic Direction to a Grid Direction, Add 5.67°

3900.5 @ 3900.50usft (GL)
North American Datum 1983
US State Plane 1983
New Mexico Eastern Zone



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4470.00	0.00	0.00	4470.00	0.00	0.00	0.00	0.00	0.00
3	4774.10	4.56	251.59	4773.78	-3.82	-11.48	1.50	251.59	12.10
4	9310.91	4.56	251.59	9296.22	-117.78	-353.82	0.00	0.00	372.91
5	9615.01	0.00	0.00	9600.00	-121.60	-365.30	1.50	180.00	385.01
6	10815.01	0.00	0.00	10800.00	-121.60	-365.30	0.00	0.00	385.01

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Flagstick 15-1 SHL	0.00	0.00	0.00	702436.20	843433.00
Flagstick 15-1 SHL hi	0.00	0.00	0.00	702436.20	843433.00
Flagstick 15-1 SHL sec	0.00	0.00	0.00	702436.20	843433.00
Flagstick 15-1 PBHL	10800.00	-121.60	-365.30	702314.60	843067.70

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 15-1
Company:	TAMAROA DEVELOPMENT LLC	TVD Reference:	3900.5 @ 3900.50usft (GL)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3900.5 @ 3900.50usft (GL)
Site:	Flagstick 15-1	North Reference:	Grid
Well:	15-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	15-1 OH		
Design:	Plan #2		

Project	Lea County, NM (NAD83) NMEZ Grid		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Flagstick 15-1				
Site Position:		Northing:	702,436.20 usft	Latitude:	32.9271317
From:	Map	Easting:	843,433.00 usft	Longitude:	-103.3487783
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.54 °

Well	15-1					
Well Position	+N/-S	0.00 usft	Northing:	702,436.20 usft	Latitude:	32.9271317
	+E/-W	0.00 usft	Easting:	843,433.00 usft	Longitude:	-103.3487783
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,900.50 usft

Wellbore	15-1 OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	04/04/25	6.21	60.43	47,480.90000000

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	251.59

Plan Survey Tool Program	Date	04/11/25		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,815.01	Plan #2 (15-1 OH)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,470.00	0.00	0.00	4,470.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,774.10	4.56	251.59	4,773.78	-3.82	-11.48	1.50	1.50	0.00	251.59	
9,310.91	4.56	251.59	9,296.22	-117.78	-353.82	0.00	0.00	0.00	0.00	
9,615.01	0.00	0.00	9,600.00	-121.60	-365.30	1.50	-1.50	0.00	180.00	
10,815.01	0.00	0.00	10,800.00	-121.60	-365.30	0.00	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 15-1
Company:	TAMAROA DEVELOPMENT LLC	TVD Reference:	3900.5 @ 3900.50usft (GL)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3900.5 @ 3900.50usft (GL)
Site:	Flagstick 15-1	North Reference:	Grid
Well:	15-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	15-1 OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,470.00	0.00	0.00	4,470.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.45	251.59	4,500.00	-0.04	-0.11	0.12	1.50	1.50	0.00
4,600.00	1.95	251.59	4,599.98	-0.70	-2.10	2.21	1.50	1.50	0.00
4,700.00	3.45	251.59	4,699.86	-2.19	-6.57	6.92	1.50	1.50	0.00
4,774.10	4.56	251.59	4,773.78	-3.82	-11.48	12.10	1.50	1.50	0.00
4,800.00	4.56	251.59	4,799.60	-4.47	-13.43	14.16	0.00	0.00	0.00
4,900.00	4.56	251.59	4,899.28	-6.98	-20.98	22.11	0.00	0.00	0.00
5,000.00	4.56	251.59	4,998.96	-9.50	-28.53	30.06	0.00	0.00	0.00
5,100.00	4.56	251.59	5,098.65	-12.01	-36.07	38.02	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 15-1
Company:	TAMAROA DEVELOPMENT LLC	TVD Reference:	3900.5 @ 3900.50usft (GL)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3900.5 @ 3900.50usft (GL)
Site:	Flagstick 15-1	North Reference:	Grid
Well:	15-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	15-1 OH		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,200.00	4.56	251.59	5,198.33	-14.52	-43.62	45.97	0.00	0.00	0.00	
5,300.00	4.56	251.59	5,298.01	-17.03	-51.16	53.92	0.00	0.00	0.00	
5,400.00	4.56	251.59	5,397.70	-19.54	-58.71	61.88	0.00	0.00	0.00	
5,500.00	4.56	251.59	5,497.38	-22.05	-66.25	69.83	0.00	0.00	0.00	
5,600.00	4.56	251.59	5,597.06	-24.57	-73.80	77.78	0.00	0.00	0.00	
5,700.00	4.56	251.59	5,696.75	-27.08	-81.35	85.74	0.00	0.00	0.00	
5,800.00	4.56	251.59	5,796.43	-29.59	-88.89	93.69	0.00	0.00	0.00	
5,900.00	4.56	251.59	5,896.11	-32.10	-96.44	101.64	0.00	0.00	0.00	
6,000.00	4.56	251.59	5,995.80	-34.61	-103.98	109.59	0.00	0.00	0.00	
6,100.00	4.56	251.59	6,095.48	-37.13	-111.53	117.55	0.00	0.00	0.00	
6,200.00	4.56	251.59	6,195.16	-39.64	-119.08	125.50	0.00	0.00	0.00	
6,300.00	4.56	251.59	6,294.85	-42.15	-126.62	133.45	0.00	0.00	0.00	
6,400.00	4.56	251.59	6,394.53	-44.66	-134.17	141.41	0.00	0.00	0.00	
6,500.00	4.56	251.59	6,494.21	-47.17	-141.71	149.36	0.00	0.00	0.00	
6,600.00	4.56	251.59	6,593.90	-49.68	-149.26	157.31	0.00	0.00	0.00	
6,700.00	4.56	251.59	6,693.58	-52.20	-156.81	165.26	0.00	0.00	0.00	
6,800.00	4.56	251.59	6,793.26	-54.71	-164.35	173.22	0.00	0.00	0.00	
6,900.00	4.56	251.59	6,892.95	-57.22	-171.90	181.17	0.00	0.00	0.00	
7,000.00	4.56	251.59	6,992.63	-59.73	-179.44	189.12	0.00	0.00	0.00	
7,100.00	4.56	251.59	7,092.31	-62.24	-186.99	197.08	0.00	0.00	0.00	
7,200.00	4.56	251.59	7,192.00	-64.76	-194.53	205.03	0.00	0.00	0.00	
7,300.00	4.56	251.59	7,291.68	-67.27	-202.08	212.98	0.00	0.00	0.00	
7,400.00	4.56	251.59	7,391.36	-69.78	-209.63	220.93	0.00	0.00	0.00	
7,500.00	4.56	251.59	7,491.04	-72.29	-217.17	228.89	0.00	0.00	0.00	
7,600.00	4.56	251.59	7,590.73	-74.80	-224.72	236.84	0.00	0.00	0.00	
7,700.00	4.56	251.59	7,690.41	-77.32	-232.26	244.79	0.00	0.00	0.00	
7,800.00	4.56	251.59	7,790.09	-79.83	-239.81	252.75	0.00	0.00	0.00	
7,900.00	4.56	251.59	7,889.78	-82.34	-247.36	260.70	0.00	0.00	0.00	
8,000.00	4.56	251.59	7,989.46	-84.85	-254.90	268.65	0.00	0.00	0.00	
8,100.00	4.56	251.59	8,089.14	-87.36	-262.45	276.61	0.00	0.00	0.00	
8,200.00	4.56	251.59	8,188.83	-89.87	-269.99	284.56	0.00	0.00	0.00	
8,300.00	4.56	251.59	8,288.51	-92.39	-277.54	292.51	0.00	0.00	0.00	
8,400.00	4.56	251.59	8,388.19	-94.90	-285.08	300.46	0.00	0.00	0.00	
8,500.00	4.56	251.59	8,487.88	-97.41	-292.63	308.42	0.00	0.00	0.00	
8,600.00	4.56	251.59	8,587.56	-99.92	-300.18	316.37	0.00	0.00	0.00	
8,700.00	4.56	251.59	8,687.24	-102.43	-307.72	324.32	0.00	0.00	0.00	
8,800.00	4.56	251.59	8,786.93	-104.95	-315.27	332.28	0.00	0.00	0.00	
8,900.00	4.56	251.59	8,886.61	-107.46	-322.81	340.23	0.00	0.00	0.00	
9,000.00	4.56	251.59	8,986.29	-109.97	-330.36	348.18	0.00	0.00	0.00	
9,100.00	4.56	251.59	9,085.98	-112.48	-337.91	356.13	0.00	0.00	0.00	
9,200.00	4.56	251.59	9,185.66	-114.99	-345.45	364.09	0.00	0.00	0.00	
9,300.00	4.56	251.59	9,285.34	-117.50	-353.00	372.04	0.00	0.00	0.00	
9,310.91	4.56	251.59	9,296.22	-117.78	-353.82	372.91	0.00	0.00	0.00	
9,400.00	3.23	251.59	9,385.10	-119.69	-359.56	378.96	1.50	-1.50	0.00	
9,500.00	1.73	251.59	9,485.01	-121.05	-363.66	383.28	1.50	-1.50	0.00	
9,600.00	0.23	251.59	9,584.99	-121.59	-365.27	384.98	1.50	-1.50	0.00	
9,615.01	0.00	0.00	9,600.00	-121.60	-365.30	385.01	1.50	-1.50	0.00	
9,700.00	0.00	0.00	9,684.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,784.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,884.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,984.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,084.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,184.99	-121.60	-365.30	385.01	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 15-1
Company:	TAMAROA DEVELOPMENT LLC	TVD Reference:	3900.5 @ 3900.50usft (GL)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3900.5 @ 3900.50usft (GL)
Site:	Flagstick 15-1	North Reference:	Grid
Well:	15-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	15-1 OH		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,300.00	0.00	0.00	10,284.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,400.00	0.00	0.00	10,384.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,484.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,584.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,684.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,800.00	0.00	0.00	10,784.99	-121.60	-365.30	385.01	0.00	0.00	0.00	
10,815.01	0.00	0.00	10,800.00	-121.60	-365.30	385.01	0.00	0.00	0.00	

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
Flagstick 15-1 SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	702,436.20	843,433.00	32.9271317		-103.3487783
Flagstick 15-1 SHL sec - plan hits target center - Rectangle (sides W0.00 H2,000.00 D0.00)	0.00	0.00	0.00	0.00	0.00	702,436.20	843,433.00	32.9271317		-103.3487783
Flagstick 15-1 SHL hl - plan hits target center - Rectangle (sides W0.00 H2,000.00 D0.00)	0.00	0.00	0.00	0.00	0.00	702,436.20	843,433.00	32.9271317		-103.3487783
Flagstick 15-1 PBHL - plan hits target center - Point	0.00	0.00	10,800.00	-121.60	-365.30	702,314.60	843,067.70	32.9268069		-103.3499723

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: TAMAROA OPERATING, LLC **OGRID:** 328666 **Date:** 04 / 12 / 25

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
FLAGSTICK 15 #1	30-025-	D-15-16S-36E	850 FNL & 700 FWL	120	350	80

IV. Central Delivery Point Name: Targa Midstream Services LLC (24650) [See 19.15.27.9(D)(1) NMAC]
IN K-16-16S-36E

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
FLAGSTICK 15 #1	30-025-	6-1-25	6-15-25	6-25-25	6-30-25	6-30--25

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

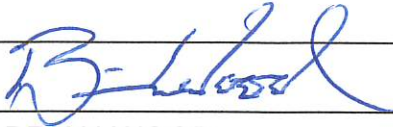
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	BRIAN WOOD
Title:	CONSULTANT
E-mail Address:	brian@permitswest.com
Date:	4-12-25
Phone:	505 466-8120

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. SEPARATION EQUIPMENT

Tamaroa Operating LLC will install either a 4' x 20' or 8' x 20' heater-treater depending on volumes.

Associated equipment will include:

- 3-phase separator
- gas scrubber
- fuel safety shut-off valve
- vapor recovery tower
- vapor recovery piping for water & oil tanks
- two 500 bbl water tanks
- two or three 500 bbl oil tanks

VII. Operational Practices

NMAC 19.15.27.8 (A) Venting & Flaring of Natural Gas

1. Tamaroa Operating, LLC will comply NMAC 19.15.27.8 – venting and flaring of gas during drilling, completion, or production that constitutes waste as defined in 19.15.2 is banned.

NMAC 19.15.27.8 (B) Venting & Flaring During Drilling

1. Tamaroa will capture or combust gas if technically feasible during drilling operations using best industry practices.
2. A flare stack with a 100% capacity for expected volume will be set on the pad ≥ 100 feet from the nearest well head and storage tank.
3. In an emergency, Tamaroa will vent gas in order to avoid substantial impact. Tamaroa will report vented or flared gas to the NMOCD.

NMAC 19.15.27.8 (C) Venting & Flaring During Completion or Recompletion

1. Facilities will be built and ready from the first day of flowback
2. Test separator will be properly separate gas and liquids. Temporary test separator will be used initially to process volumes. In addition, separator will be tied into flowback tanks which will be tied into the gas processing equipment for sale down a pipeline.
3. Should the facility not be ready to process gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or a temporary flare to manage all gas. This flare would meet the following requirements:
 - a) An appropriate sized flare stack with an automatic igniter
 - b) Tamaroa analyzes gas samples twice a week



- c) Tamaroa flows the gas into a gathering line as soon as the pipeline specifications are met
- d) Tamaroa provides the NMOCD with pipeline specifications and natural gas data.

NMAC 19.15.27.8 (D) Venting & Flaring During Production

Tamaroa will not vent or flare natural gas except:

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided
 - a) Tamaroa does not vent after the well achieves a stabilized rate and pressure
 - b) Tamaroa will be on-site while unloading liquids by manual purging and take all reasonable actions to achieve a stabilized rate and pressure as soon as possible
 - c) Tamaroa will optimize the system to minimize gas venting if the well is equipped with a plunger lift or auto control system
 - d) Best management practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided
 - a) Tamaroa receives approval from the NMOCD
 - b) Tamaroa stays in compliance with NMOCD gas capture requirements
 - c) Tamaroa submits an updated C-129 form to the NMOCD
4. During the following activities unless prohibited
 - a) Gauging or sampling a storage tank or low-pressure production vessel
 - b) Loading out liquids from a storage tank
 - c) Repair and maintenance
 - d) Normal operation of a gas-activated pneumatic controller or pump
 - e) Normal operation of a storage tank but not including venting from a thief hatch
 - f) Normal operation of dehydration units
 - g) Normal operations of compressors, engines, turbines, valves, flanges, & connectors
 - h) During a bradenhead, packer leakage test, or production test lasting <24 hours
 - i) When natural gas does not meet the gathering line specifications
 - j) Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

NMAC 19.15.27.8 (E) Performance Standards

1. Tamaroa used a safety factor to design the separation and storage equipment. The equipment will be routed to a vapor recovery system and uses a flare as back up for startup, shutdown, maintenance, or malfunction of the VRU system.
2. Tamaroa will install a flare that will handle the full volume of vapors from the facility in case of VRU failure. It will have an auto-ignition system.
3. Flare stacks will be appropriately sized and designed to ensure proper combustion efficiency
 - a) Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.



- b) Previously installed flare stacks will be retrofitted within 18 months of May 25, 2021 with an automatic ignitor, continuous pilot, or technology that alerts Tamaroa to flare malfunction.
 - c) Flare stacks replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot if at a well or facility with an average production of ≤ 60 Mcfd of natural gas.
 - d) Flare stacks will be located >100 feet from well head and storage tanks and securely anchored.
- 4. Tamaroa will conduct an AVO inspection on all components for leaks and defects every week.
 - 5. Tamaroa will make and keep records of AVO inspections available to the NMOCD for at least 5 years.
 - 6. Tamaroa may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
 - 7. Facilities will be designed to minimize waste.
 - 8. Tamaroa will resolve emergencies as promptly as possible.

NMAC 19.15.27.8 (F) Measuring or Estimating Vented & Flared Natural Gas

- 1. Tamaroa will have meters on both the low pressure and high-pressure sides of the flares. Volumes will be recorded in the SCADA system.
- 2. Tamaroa will install equipment to measure the volume of flared natural gas that has an average production of ≥ 60 Mcfd.
- 3. Tamaroa's measuring equipment will conform to industry standards.
- 4. Measurement system will be designed such that it cannot be bypassed except for inspections and servicing the meters.
- 5. Tamaroa will estimate the volume of vented or flared gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
- 6. Tamaroa will estimate the volume of vented and flared gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on form C-116.
- 7. Tamaroa will install measuring equipment whenever the NMOCD determines that metering is necessary.
- 8.

VIII. Best Management Practices

Tamaroa Operating, LLC will minimize venting during maintenance by:

- 1. System will be designed and operated to route storage tank and process equipment emissions to the VRU. If the VRU is not operable, then vapors will be routed to the flare.
- 2. Scheduling maintenance for multiple tasks to minimize the need for blowdowns.
- 3. After completion of maintenance, gas will be flared until it meets pipeline specifications.

