(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	Energy, Minerals and Natu OIL CONSERVATION 1220 South St. Fran Santa Fe, NM 87	WELL 30-00 5. Indie 7505 6. State N/A 7. Leas HERITA 8. Well 1	Form C-103 Revised July 18, 2013 API NO. 05-64357 cate Type of Lease STATE FEE e Oil & Gas Lease No. se Name or Unit Agreement Name AGE PARK I Number
TAMAROA OPERATING. LLC 3. Address of Operator		32866 10. Poo	of name or Wildcat
P. O. BOX 866937, PLANO TX	X 75086-6937	CHOCK PARTIES AND ADDRESS	S29E29; DEVONIAN
4. Well Location Unit Letter: M Section 20			the <u>WEST</u> line 4PM CHAVES County
12. Check A NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM OTHER:	Appropriate Box to Indicate N TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	r.	ENT REPORT OF:
of starting any proposed wo proposed completion or reco	rk). SEE RULE 19.15.7.14 NMAC ompletion.	C. For Multiple Completions:	•
Will change from vertical well to New TVD = 8,300' and MD = 8 Will run 2200' 9.625" 40# J-5 Will run 8382' 5.5" 17# L-80 p Will drill (closed loop): GL to 400' with 8.4 - 9.5# free 400' - 2200' with 8.7 - 10.0# 2200' - 5600' with 8.6 - 9.0# 5600' - TD with 9.0 - 9.5# cur	5,382'. See attached well bore 5 surface casing in 12.25" he broduction casing in 8.75" however spud mud. I cut brine cout brine	e views and plan. ble and cement to surfac	ce with 625 sx.
Spud Date:	Rig Release Da	te:	
I hereby certify that the information a	bove is true and complete to the be	st of my knowledge and belie	ef.
SIGNATURE	TITLE CONSU	<u>JLTANT</u>	DATE <u>7-4-21</u>
Type or print name BRIAN WOOD For State Use Only	E-mail address:	brian@permitswest.com	m PHONE: <u>505 466-8120</u>
APPROVED BY: Conditions of Approval (if any): Released to Imaging: 7/22/2021 1:27:	IIILE	eum Specialist	7/22/2021 DATE

Released to Imaging: 7/22/2021 1:27:51 PM

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 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

X AMENDED REPORT change SHL, BHL, & dedication

WELL LOCATION AND ACREAGE DEDICATION PLAT

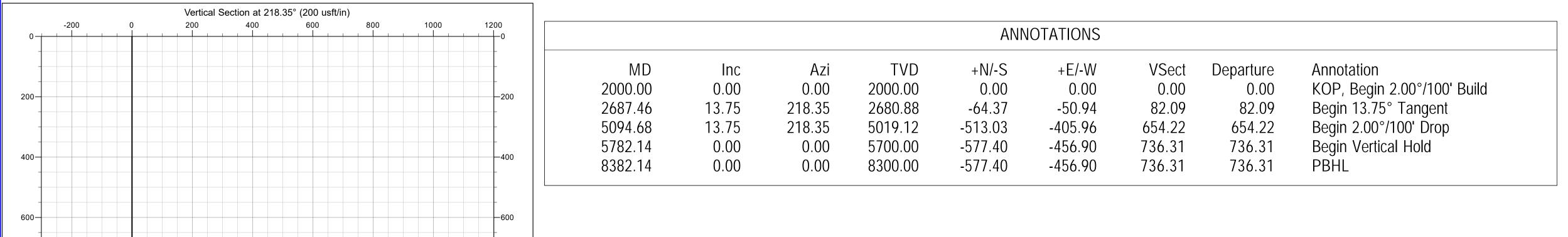
	PI Number 1 5-6435 7	7		Pool Code 98354		WC	Pool N 19829E29	; DEVONIAN	
Property C	ode			15	Property Nam HERITAGE I			W	'ell Number 1
OGRID N 32866			-	TAMA	Operator Nam				Elevation 3879'
					Surface Locat	ion			
UL or lot No.	Section 20	Township 9-S	Range 29-E	Lot Idn	Feet from the 125	North/South line SOUTH	Feet from the 125	East/West line WEST	County
				Bottom H	ole Location If Diffe	erent From Surface			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	9-S	29-E		450	NORTH	330	EAST	CHAVES
Dedicated Acres 40.00	Joint or	Infill	Consolidation C	ode O	rder No.				•
GEODETIC CO NAD 27 SURFACE L Y=91376 X=59690 LAT.=33.51 LONG.=104.0	NME OCATION 64.2 N 00.3 E 1511* N	NAD SURFAC Y=91 X=63 LAT.=3.	5801/8 (1 F	SEC. 19 SEC. 20	A - Y= 91363 B - Y= 91363 C - Y= 91364 D - Y= 91231 E - Y= 91232 CORNER CO MAI A - Y= 913600 B - Y= 913711 D - Y= 912379	D 27 NME 1.6 N, X= 59546 8.4 N, X= 59676 6.9 N, X= 59809 4.4 N, X= 59546 1.0 N, X= 59677 DORDINATES TABLE 0.83 NME 5.5 N, X= 63664 3.4 N, X= 63927 9.4 N, X= 63694 6.0 N, X= 63794	8.9 E 4.4 E 5.7 E 6.0 E 1.1 E propo well a of suc poolin hereto 3.3 E 3.7 E	ERATOR CERTIF by certify that the information ete to the best of my knowled is organization either owns a ed mineral interest in the lan sed bottom hole location or h this location pursuant to a c in mineral or working interest g agreement or alcompulsary fore entered by the division.	n herein is true and dge and belief, and n working interest or d including the has a right to drill thi ontract with an own t, or to a voluntary
SEC. 19 SEC. 30		NZ.=218*21 NDIST.=736 A	5.5'	B 125,	L. C	S S	EC. 20 E-ma SL I heretwas pl	IAN WOOD Id Name brian@perm il Address (505) URVEYOR CERTIL If y certify that the well location that from figld hoof offerly ander my supervision, and all rrect to the best of my Elief APRIL 15,	FICATION on shown on this pla
BOTTOM HOLE NAD 27 Y=913186 X=59644. LAT.=33.509 LONG.=104.01	NME 5.8 N 3.4 E 9928" N	NAD Y=913 X=633 LAT.=33	OLE LOCATION 83 NME	SEC. 29			Date of Signat	f Survey 12641 ure R Seal of Profession Profession Profession ROFESSION Graph Control Gary Ronal	.~

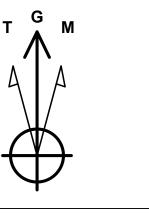
Page 3 of 21 Received by OCD: 7/4/2021 3:52:55 PM



Company: Tamaroa Operating, LLC.
Site: Heritage Park
Well: Heritage Park 1
Project: Chaves County, NM (NAD 83)
Rig: 18' Rig
To convert a Magnetic Direction to a Grid Direction, Add 6.69°



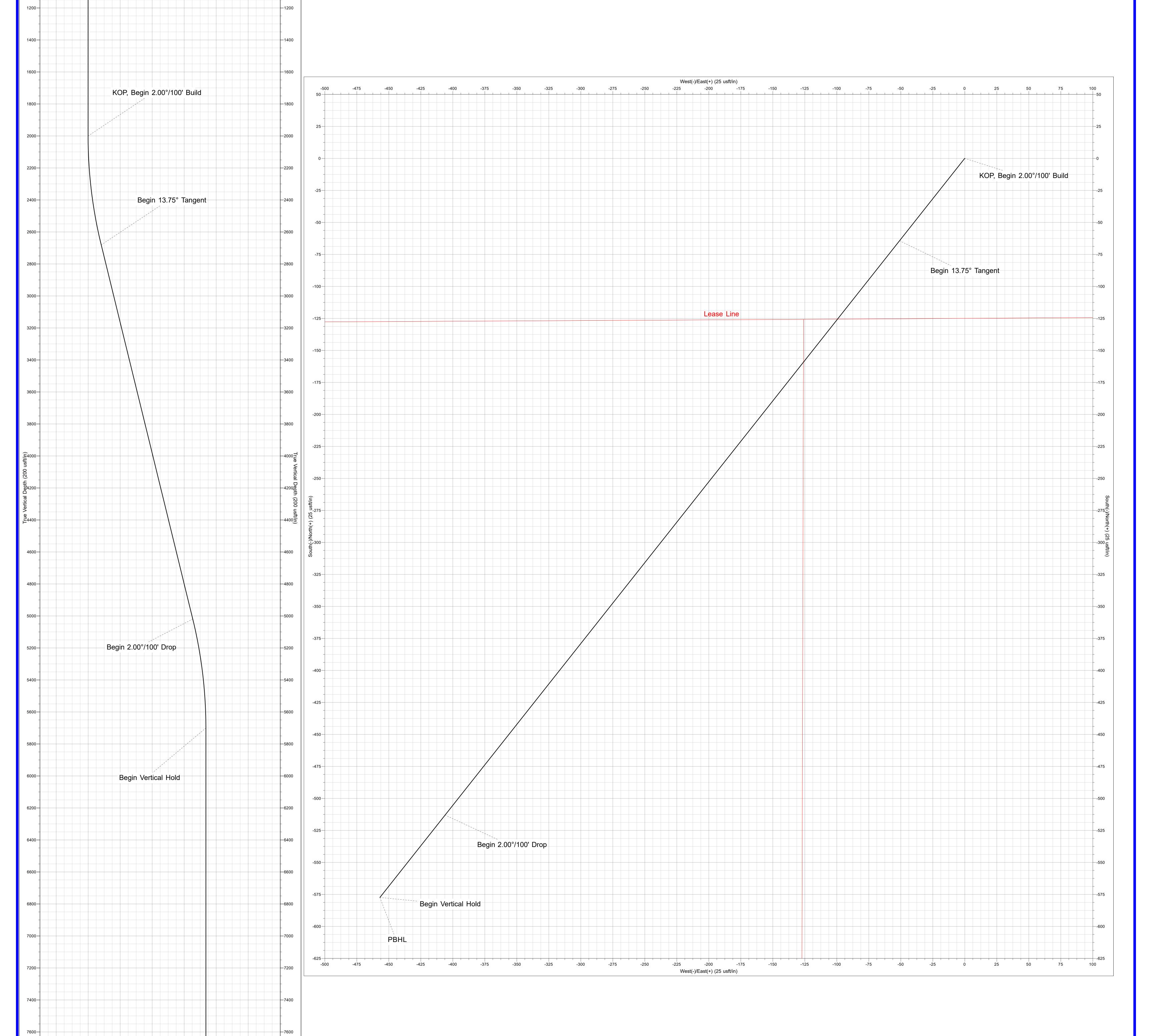




Azimuths to Grid North True North: -0.18° Magnetic North: 6.69° Magnetic Field Strength: 48206.6nT Dip Angle: 61.00° Date: 6/1/2021 Model: IGRF2020

US State Plane 1983 New Mexico Eastern Zone

Created By: HLH Date: 14:56, May 03 2021 Plan: Design #2



PBHL

Vertical Section at 218.35° (200 usft/in)

Planning Report

Database: EDM5000

Company: Tamaroa Operating, LLC.
Project: Chaves County, NM (NAD 83)

Site: Heritage Park
Well: Heritage Park 1
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

North Reference:
Survey Calculation Method:

Well Heritage Park 1

WELL @ 3897.00usft (18' Rig) WELL @ 3897.00usft (18' Rig)

Grid

Minimum Curvature

Project Chaves County, NM (NAD 83)

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone System Datum:

Mean Sea Level

Site Heritage Park

Site Position: Northing: 913,829.2000 usft Latitude: 33° 30' 41.797 N From: Мар Easting: 638,078.0000 usft Longitude: 104° 0' 57.379 W **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.18 $^{\circ}$

Well Heritage Park 1

 Well Position
 +N/-S
 0.00 usft
 Northing:
 913,829.2000 usft
 Latitude:
 33° 30' 41.797 N

 +E/-W
 0.00 usft
 Easting:
 638,078.0000 usft
 Longitude:
 104° 0' 57.379 W

Position Uncertainty0.00 usftWellhead Elevation:Ground Level:3,879.00 usft

Wellbore #1

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 6/1/2021
 6.86
 61.00
 48,206.60485348

Design #2

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 +E/-W (usft)
 Direction (°)

 0.00
 0.00
 0.00
 0.00
 218.35

Plan Sections	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
2,687.46	13.75	218.35	2,680.88	-64.37	-50.94	2.00	2.00	0.00	218.35	
5,094.68	13.75	218.35	5,019.12	-513.03	-405.96	0.00	0.00	0.00	0.00	
5,782.14	0.00	0.00	5,700.00	-577.40	-456.90	2.00	-2.00	0.00	180.00	
8,382.14	0.00	0.00	8,300.00	-577.40	-456.90	0.00	0.00	0.00	0.00	

Planning Report

Database: EDM5000 Company: Tamaroa C

Project:

Tamaroa Operating, LLC.
Chaves County, NM (NAD 83)

Site: Heritage Park
Well: Heritage Park 1
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Heritage Park 1

WELL @ 3897.00usft (18' Rig) WELL @ 3897.00usft (18' Rig)

Grid

Minimum Curvature

Design:	Design #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)
0.00	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
500.00 600.00 700.00 800.00 900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	500.00 600.00 700.00 800.00 900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	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 KOP. Begin	0.00 2.00°/100' B u	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	218.35	2,099.98	-1.37	-1.08	1.75	2.00	2.00	0.00
2,200.00	4.00	218.35	2,199.84	-5.47	-4.33	6.98	2.00	2.00	0.00
2,300.00	6.00	218.35	2,299.45	-12.31	-9.74	15.69	2.00	2.00	0.00
2,400.00	8.00	218.35	2,398.70	-21.86	-17.30	27.88	2.00	2.00	0.00
2,500.00	10.00	218.35	2,497.47	-34.13	-27.01	43.52	2.00	2.00	0.00
2,600.00	12.00	218.35	2,595.62	-49.09	-38.85	62.60	2.00	2.00	0.00
2,687.46	13.75	218.35	2,680.88	-64.37	-50.94	82.09	2.00	2.00	0.00
Begin 13.75 2,700.00	13.75	218.35	2,693.06	-66.71	-52.79	85.07	0.00	0.00	0.00
2,800.00	13.75	218.35	2,790.20	-85.35	-67.54	108.84	0.00	0.00	0.00
2,900.00	13.75	218.35	2,887.33	-103.99	-82.28	132.60	0.00	0.00	0.00
3,000.00	13.75	218.35	2,984.47	-122.62	-97.03	156.37	0.00	0.00	0.00
3,100.00	13.75	218.35	3,081.60	-141.26	-111.78	180.14	0.00	0.00	0.00
3,200.00	13.75	218.35	3,178.73	-159.90	-126.53	203.91	0.00	0.00	0.00
3,300.00	13.75	218.35	3,275.87	-178.54	-141.28	227.67	0.00	0.00	0.00
3,400.00	13.75	218.35	3,373.00	-197.18	-156.03	251.44	0.00	0.00	0.00
3,500.00	13.75	218.35	3,470.14	-215.81	-170.77	275.21	0.00	0.00	0.00
3,600.00	13.75	218.35	3,567.27	-234.45	-185.52	298.97	0.00	0.00	0.00
3,700.00	13.75	218.35	3,664.41	-253.09	-200.27	322.74	0.00	0.00	0.00
3,800.00	13.75	218.35	3,761.54	-271.73	-215.02	346.51	0.00	0.00	0.00
3,900.00	13.75	218.35	3,858.68	-290.36	-229.77	370.28	0.00	0.00	0.00
4,000.00	13.75	218.35	3,955.81	-309.00	-244.52	394.04	0.00	0.00	0.00
4,100.00	13.75	218.35	4,052.95	-327.64	-259.26	417.81	0.00	0.00	0.00
4,200.00	13.75	218.35	4,150.08	-346.28	-274.01	441.58	0.00	0.00	0.00
4,300.00	13.75	218.35	4,247.21	-364.92	-288.76	465.35	0.00	0.00	0.00
4,400.00	13.75	218.35	4,344.35	-383.55	-303.51	489.11	0.00	0.00	0.00
4,500.00	13.75	218.35	4,441.48	-402.19	-318.26	512.88	0.00	0.00	0.00
4,600.00	13.75	218.35	4,538.62	-420.83	-333.01	536.65	0.00	0.00	0.00
4,700.00	13.75	218.35	4,635.75	-439.47	-347.75	560.41	0.00	0.00	0.00
4,800.00	13.75	218.35	4,732.89	-458.11	-362.50	584.18	0.00	0.00	0.00
4,900.00	13.75	218.35	4,830.02	-476.74	-377.25	607.95	0.00	0.00	0.00
5,000.00	13.75	218.35	4,927.16	-495.38	-392.00	631.72	0.00	0.00	0.00

Planning Report

Database: Company:

Planned Survey

Design:

EDM5000

Design #2

Tamaroa Operating, LLC.

Project: Chaves County, NM (NAD 83)
Site: Heritage Park
Well: Heritage Park 1
Wellbore: Wellbore #1

7,300.00

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7,800.00

7,900.00

8,000.00

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8,217.86

8,300.00

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Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Heritage Park 1

WELL @ 3897.00usft (18' Rig) WELL @ 3897.00usft (18' Rig)

Grid

Minimum Curvature

illiou oui roj									
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)
5,094.68	13.75	218.35	5,019.12	-513.03	-405.96	654.22	0.00	0.00	0.00
Begin 2.00)°/100' Drop								
5,100.00 5,200.00	13.64 11.64	218.35 218.35	5,024.29 5,121.86	-514.02 -531.18	-406.74 -420.32	655.48 677.36	2.00 2.00	-2.00 -2.00	0.00 0.00
5,300.00 5,400.00 5,500.00 5,600.00 5,700.00	9.64 7.64 5.64 3.64 1.64	218.35 218.35 218.35 218.35 218.35	5,220.14 5,319.00 5,418.32 5,517.99 5,617.88	-545.66 -557.44 -566.51 -572.86 -576.48	-431.78 -441.11 -448.29 -453.31 -456.17	695.83 710.86 722.43 730.52 735.13	2.00 2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00 0.00
5,782.14	0.00	0.00	5,700.00	-577.40	-456.90	736.31	2.00	-2.00	0.00
Begin Ver	tical Hold								
5,800.00 5,900.00 6,000.00 6,100.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5,717.86 5,817.86 5,917.86 6,017.86	-577.40 -577.40 -577.40 -577.40	-456.90 -456.90 -456.90 -456.90	736.31 736.31 736.31 736.31	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,200.00 6,300.00 6,400.00 6,500.00 6,600.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,117.86 6,217.86 6,317.86 6,417.86 6,517.86	-577.40 -577.40 -577.40 -577.40 -577.40	-456.90 -456.90 -456.90 -456.90	736.31 736.31 736.31 736.31 736.31	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,700.00 6,800.00 6,900.00 7,000.00 7,100.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,617.86 6,717.86 6,817.86 6,917.86 7,017.86	-577.40 -577.40 -577.40 -577.40 -577.40	-456.90 -456.90 -456.90 -456.90	736.31 736.31 736.31 736.31 736.31	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,200.00	0.00	0.00	7,117.86	-577.40	-456.90	736.31	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
PBHL v2 - Heritage P - plan hits target o - Point		0.00	8,300.00	-577.40	-456.90	913,251.8000	637,621.1000	33° 30' 36.098 N	104° 1' 2.796 W

Planning Report

Database: EDM5000 Company:

Project:

Tamaroa Operating, LLC. Chaves County, NM (NAD 83)

Heritage Park Site: Heritage Park 1 Well: Wellbore: Wellbore #1 Design: Design #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Heritage Park 1

WELL @ 3897.00usft (18' Rig) WELL @ 3897.00usft (18' Rig)

Minimum Curvature

Plan Annotati	ons				
	Measured	Vertical	Local Coor	dinates	
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
	2,000.00	2,000.00	0.00	0.00	KOP, Begin 2.00°/100' Build
	2,687.46	2,680.88	-64.37	-50.94	Begin 13.75° Tangent
	5,094.68	5,019.12	-513.03	-405.96	Begin 2.00°/100' Drop
	5,782.14	5,700.00	-577.40	-456.90	Begin Vertical Hold
	8,382.14	8,300.00	-577.40	-456.90	PBHL

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: <u>326666</u>	Date: <u>07-03-21</u>	
II. Type: ⊠ Original □Amendment due t	o □19.15.27.9.D(6)(a) N	NMAC □19.15.27.9.D(6)(b) NMAC □Other.	
If Other, please describe:			
III. Well(s): Provide the following inform	ation for each new or re	completed well or set of wells proposed to be drilled or pro	posed 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
Heritage Park 1	30-005- 64357	M-20-9S-29E	125 FSL & 125 FWL	200	200	50

- IV. Central Delivery Point Name: Targa Midstream Services LLC (24650) O'Brien 1 (I-11-9s-29e) [See 19.15.27.9(D)(1) NMAC]
- 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
Heritage Park 1	30-005- 64357	12-31-21	1-31-22	2-1-22	2-14-22	3-1-22

- 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 –	Enha	nced	Plan
EFFE	CTIV	E APR	IL 1, 20)22

	EFFECTI	VE APRIL 1, 2022		
		ee with its statewide natural	gas ca	pture requirement for the applicable
nt for the applicable	reporting area.	ection because Operator is in	n comp	liance with its statewide natural gas
				T
Well				Anticipated Volume of Natural Gas for the First Year MCF
athering System (N	NGGS):			
System	ULSTR of Tie-in	Anticipated Gathering Start Date	Ava	nilable Maximum Daily Capacity of System Segment Tie-in
ons to the existing of portion of the natural gas at ty. The natural gas are from the well prior re. Operator does thering system(s) detr's plan to manage publicy: Departor as yided in Paragraph	or planned interconnect of gas gathering system(s) gathering system gathering system will to the date of first products control does not anticipate excribed above will control or control of the second of th	of the natural gas gathering so to which the well(s) will be will not have capacity to ction. that its existing well(s) continue to meet anticipated incomplete the increased line pressure. The suant to Section 71-2-8 NM f 19.15.27.9 NMAC, and a	gather mected creases	(s), and the maximum daily capacity cted. 100% of the anticipated natural gas to the same segment, or portion, of in line pressure caused by the new
	ies that it is not requit for the applicable latural Gas Productive Well athering System (Note that a system of the existing coortion of the natural gas go from the well prior re. Operator does thering system(s) decided in Paragraph	athering System (NGGS): System ULSTR of Tie-in an accurate and legible map depicting the const to the existing or planned interconnect of cortion of the natural gas gathering system(s) ty. The natural gas gathering system will from the well prior to the date of first production: The natural gas gathering system will from the well prior to the date of first production of the natural gas gathering system(s) the continuous does not anticipate thering system(s) described above will continuous planned in response to the continuous planned in response to the continuous planned in response to the date of first production in response to the date of planned in the continuous planned in the c	ies that it is not required to complete this section because Operator is in interest for the applicable reporting area. Statural Gas Production: API	athering System ULSTR of Tie-in Anticipated Gathering System ULSTR of Tie-in Start Date Start Date an accurate and legible map depicting the location of the well(s), the anticipated or the existing or planned interconnect of the natural gas gathering system (bortion of the natural gas gathering system) or the natural gas gathering system will will not have capacity to gather of first production. The natural gas gathering system will will not have capacity to gather of first production. The natural gas gathering system will continue to meet anticipated increases of the natural gas gathering system(s) or to the date of first production. The operator does does not anticipate that its existing well(s) connected thering system(s) described above will continue to meet anticipated increases of the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragraph (2) of subsection D of 19.15.27.9 NMAC, and attached the paragrap

Section 3 - Certifications Effective May 25, 2021

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

- Departor 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. Deperator 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;
- liquids removal on lease: (d)
- reinjection for underground storage; (e)
- (f) reinjection for temporary storage;
- reinjection for enhanced oil recovery; (g)
- fuel cell production; and (h)
- other alternative beneficial uses approved by the division. (i)

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become (a) 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
- 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: The Salar Signature:
Printed Name: Brian Wood
Title: Consultant
E-mail Address: brian@permitswest.com
Date: 7-3-21
Phone: 505 466-8120
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By: John Garcia
Title: Petroleum Specialist
Approval Date: 7/22/2021
Conditions of Approval:

VI. SEPARATION EQUIPMENT

Tamaroa Operating LLC will install either a 4' \times 20' or 8' \times 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

Typical specifications are attached.





Petrosmith Equipment, LP

Sales Quote

OILFIELD MANUFACTURING & SUPPLY

7435 US Hwy 277 S P.O. BOX 6291 (79608)

Abilene, Texas 79606

Phone: (325)691-1085

Quote To:
NEW CUSTOMER

Ship To:

TAMAROA DEVELOPMENT LLC
P.O. BOX 560430
THE COLONY, TX 75093 U.S.A.
Phone: 972.740.8969

Quote No.
Q17100
Quote Date
7/2/2021
Purchase Order Number
Entered By
JD

Quote Description
Delaware AFE Well w/ Specs

Terms Net 30 Req. Ship Date 7/2/2021

Line#	Qty	UOM	Description Unit Price Disc. Tax Extension
0001	1.00	EA	36" x 10' 250# Horizontal Non-Code 3-phs Separator
			 Built to Non Code Spec. (Non Monogrammed) SA-516 Gr.70 Heads SA-36 Rolled Shell ANSI 3M Threaded Connections Class 150 Flanged Connections 1/2" Threaded Pressure Indicator/Sight Glass 1" Auxiliary Connection 2" Threaded PSV/HLSS 4" Flanged Drains 6" Flanged Inlet/Gas Out/Fluid Outs 8" Kimray HUTA LLC 12" Gas Dome Fixed Inlet Diverter Baffle Internal Coating: NONE
			- External Paint: Devthane 349QC (Desert Sand)
0002	1.00	EA	48" x 20' 125# Vertical Non-Code Heater Treater Built to Non-Code Spec.
			3/8" F&D Heads SA-36 3/8" Shell SA-36 ANSI 3M Threaded Nozzles 16" Manways w/Neoprene Gaskets 16" Firetube w/Neoprene Gasket Standard 20' Ladder
0003	1.00	EA	Accessories - 125# Vertical Heater Treater w/2" Dumps, 16" Firetube (Item: 90633)
			- (1) SB 16-16 500,000 BTU Flame Arrestor Burner with Gasket, Pilot, Nozzle - (4) 1" x 3/4" F.S. Bushing SA-105 - (1) 1/2" x 1/4" F.S. Bushing SA-105 - (2) 3/4" x 1/4" F.S. Bushing SA-105 - (2) 1/4" 3000# F.S. Threaded Full Coupling SA-105 (25) - (1) 1/4" 3000# F.S Street 90 SA-105, Threaded - (4) 1/4" 69C Brass Tubing ELL Fitting - (4) 1/4" 69C Brass Tubing Straight Fitting - (1) 1/4" Blk Mlb TEE - (2) 3/4" Blk Mlb 90 ELL



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Sales Quote

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7435 US Hwy 277 S P.O. BOX 6291 (79608)

Abilene, Texas 79606

Phone: (325)691-1085

- (2) 3/4" Blk Mlb TEE
- (1) 0-160# 2.5" face Dry Pressure Gauge, 1/4" brass Lower Mount
- (1) 0-30# 2.5" face Dry Pressure Gauge, 1/4" brass Lower Mount
- (1) Kimray (HAA) T-12 Thermostat (HAA)
- (1) Kimray (HCC) 1" SS12 Seperable Socket Well
- (3) Set of 1/2" Brass Gauge Cocks 250# W.P.
- (1) WIKA TI-33 0-250 Thermometer w/Thermowell
- (1) 5/8" x 18" Std. Sight Glass
- (1) 5/8" x 24" Std. Sight Glass
- (1) 5/8" x 48" Std. Sight Glass
- (1) 1/2" x 4" Std. Threaded Nipple
- (2) 1/4" x 2" Std. Threaded Nipple
- (1) 1/4" x 6" Std. Threaded Nipple
- (1) 2" x 18" XH Threaded Nipple
- (4) 3/4" x 4" Std. Threaded Nipple
- (1) 3/4" x 6" Std. Threaded Nipple
- (24) Bolt, Hex Head, G5, Standard, 1/2" x 1-1/4"
- (24) Nut, Hex Head, G5, Standard, 1/2"
- (1) 1-1/4" Std. Blk Mlb Cored Plug
- (25) 1/4" Copper Tubing
- (1) 3/4" 150# Blk Mlb Union
- (1) 1/2" Brass Ball Valve, Threaded
- (1) 1/4" Brass Air Cock
- (1) 2" Pop-Off set @ 125#
- (1) 3/4" Brass Gate Valve, Threaded
- (1) Kimray (AAR) 230-SGT BP Back Pressure D. Regulator 300# W.P. (Rplc AAA)
- (2) Kimray (DAA) 26-SWA Treater Dump Valve 125# W.P.
- (1) Kimray (EUA3) 130-SMT DAB Motor Valve
- (1) Wellmark Mighty Gun Fuel Gas Regulator IPR-9S385 (10-95#)

1.00 EA Concrete Fad - 05 x 12 (F) (item: 97451)	0004	1.00	EΑ	Concrete Pad - 05' x 12" (P) (Item: 97451)
--	------	------	----	--

0005 10" x 25" ASME-Code Manchester Gas Scrubber 1.00 EA

#301301 (Item: 95451)

Built to ASME-Code Spec, MAWP 250#

Required Accessories:

(1) Fuel Safety Shut-Off Valve Float Assembly (2 piece, Separate Line Item)

0006 Fuel Safety Shut-Off Valve Float Assembly (2 piece) 1.00 EA

(Item: 90526)

0007 30" x 36' 125# Non-Code Vapor Recovery Tower 1.00 EA

- Built to Non Code Spec. (Non Monogrammed)
- F&D Heads and Shell SA-36
- ANSI 3M Threaded Nozzles
- Class 150 RFWN Flanged Nozzles
- 2" Threaded Drain (Siphon)
- 2" Flanged Pressure Safety Relief

PETROSMITH

Petrosmith Equipment, LP

Sales Quote

OILFIELD MANUFACTURING & SUPPLY

7435 US Hwy 277 S P.O. BOX 6291 (79608)

Abilene, Texas 79606

Phone: (325)691-1085

- 4" Flanged Inlet / Outlets
- 18" Flanged Manway w/Neoprene Gasket
- Zinc Plated Internal Fasteners for Piping
- G5 Fasteners for Flanged Connections
- Internal Coating: Bottom and 5' Up with Enviroline 2405
- External Coating: Devthane 349QC DTM (Shale Green)

US Dollars

Comments:

CUSTOMER SIGNATURE REQUIRED AS ACKNOWLEDGEMENT OF BINDING AGREEMENT THAT CUSTOMER WILL BE BILLED FOR EQUIPMENT UPON FABRICATION COMPLETION AND PAYMENT WILL BE DUE PER THE TERMS MENTIONED BELOW.

Signature	Date	Purchase Order No .

QUOTE IS BASED ON MATERIAL AVAILABILITY AND RAW GOODS SPOT MARKET VALUE. SURCHARGE WILL BE ADDED FOR RAW GOODS SPOT MARKET VALUE AT TIME OF MATERIAL PROCUREMENT. ASSOCIATED COSTS FOR 3rd PARTY HOLD POINTS THAT ARE PRODUCTION IMPACTING WILL BE BILLED ACCORDINGLY. SHIP DATES ARE ESTIMATED AND MAY VARY FROM ACTUAL SHIP DATES.

Please Note: All Quotes Valid for 48 Hours Only. All Invoices Due and Payable in Abilene, Taylor County, Texas. Equipment will be billed upon completion and inspection approval. Applicable Freight Charges Will Apply for Delivery of Equipment. No Crane Charge Quoted. If Third Party Crane is Required for Off-Loading/Setting of Tanks, Petrosmith Will Not be Responsible for Crane Charges. In The Event There is a Coating/Paint Issue After Equipment is Delivered, Petrosmith Reserves the Right to Repair the Issue(s) in the Field at Our Discretion. Customer to Provide Navigable Path for Trucks to Deliver Product(s) in a Safe Manner; Damage to Equipment Caused by such will be Responsibility of Customer. Petrosmith Reserves the Right to Re-Bid Projects Based on Cost Increase of Purchased Goods and Raw Materials at Any Time. All Invoices Remaining Unpaid 30 Days From The Date of Invoices Are Subject to Late Charges of 1-1/2%, 18% Annual Rate, Along With Attorney and Collection Fees. Please be Advised Used Products NOT Subject To Any Warranty Intended Or Implied - Sold As Is Where Is. Manufactured Tanks and Vessels are Warranted to be Free from Defects in Material and Workmanship for 12 Months. Stairs and walkways not manufactured in accordance with API-12F Annex B. Title To This Pipe Or Equipment Does Not Pass Until Invoice Is Paid In Full. Equipment Subject To Repossession Without Notice Upon Default Of Terms.

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.
- 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.



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.



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

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**

COMMENTS

Action 34869

COMMENTS

Operator:		OGRID:
	amaroa Operating, LLC	328666
F	PO Box 866937	Action Number:
F	Plano, TX 750866937	34869
		Action Type:
		[C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 7/7/2021	7/7/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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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**

CONDITIONS

Action 34869

CONDITIONS

Operator:	OGRID:
Tamaroa Operating, LLC	328666
PO Box 866937	Action Number:
Plano, TX 750866937	34869
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	7/7/2021