

ID NO. 164465

NSL - 8507

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO: pLEL2234153684
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Maverick Permian, LLC **OGRID Number:** 331199
Well Name: Peridot 8 Federal No. 4H **API:** N/A
Pool: Maljamar, Yeso, West Pool **Pool Code:** 44500

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location – Spacing Unit – Simultaneous Dedication
☒ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD
- B. Check one only for [I] or [II]
 [I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
 A. ☒ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☐ Application requires published notice
 D. ☐ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☐ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application Content Complete

- 3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

David Catanach (Agent for Maverick Permian, LLC)

Print or Type Name

David Catanach

Signature

December 6, 2022

Date

(505) 690-9453

Phone Number

catanach_david@comcast.net

e-mail Address

December 6, 2022

New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

Attention: Ms. Adrienne Sandoval
Division Director

Re: **Application for Unorthodox Well Location**
Maverick Permian, LLC (331199)
Peridot 8 Federal No. 4H (API No. N/A)
Surface Location: 2362' FNL & 1692' FEL (Unit G) Section 8
First Take Point: 2461' FNL & 2302' FWL (Unit F) Section 8
BH Location: 2451' FNL & 325' FWL (Unit E/Lot 2) Section 7
All in Township 17 South, Range 32 East, NMPM, Lea County, NM

Dear Ms. Sandoval:

Pursuant to Division Rule No. 19.15.15.13 NMAC, Maverick Permian, LLC ("Maverick") respectfully requests administrative approval of an unorthodox oil well location for its proposed Peridot 8 Federal Well No. 4H. The well will be drilled as a horizontal development oil well in the Maljamar; Yeso, West Pool (44500).

The Maljamar; Yeso, West Pool is currently governed by Division Rule No. 19.15.15.9 which requires standard 40-acre oil spacing and proration units with wells to be located no closer than 330 feet to the outer boundary of the spacing unit. In addition, since the subject well is a horizontal well, it is also governed by Division Rule No. 19.15.16.15 (C), which states that the distance in the horizontal plane from any point in the completed interval to any outer boundary of the horizontal spacing unit, measured along a line perpendicular to the completed interval, or to the tangent thereof, shall be a minimum of 330 feet for an oil well. This rule also allows the first and last take points of a horizontal well to be located no closer than 100 feet to any outer boundary of the horizontal spacing unit.

The proposed 481.92-acre standard horizontal spacing unit will comprise the N/2 of Section 7 and the NW/4 of Section 8, Township 17 South, Range 32 East, NMPM. This unit will ultimately be dedicated to the subject Peridot 8 Federal Well No. 4H, and to the proposed Peridot 8 Federal Wells No. 5H, 6H, 15H and 16H, all as shown on the attached plats and spreadsheet.

The proposed unorthodox well location is necessary in order to optimize the distance between the horizontal wells in the spacing unit, thereby increasing the ultimate recovery of oil and gas reserves from the Maljamar; Yeso, West Pool, and to avoid existing wells in the horizontal spacing unit.

Maverick Permian, LLC
Application for Unorthodox Well Location
Peridot 8 Federal Well No. 4H
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Pursuant to Division Rules No. 19.15.15.13, 19.15.16.15 (C)(6) and 19.15.4.12, notice of the proposed unorthodox well location must be provided to affected offset operators, leasehold owners or owners of working interest. The affected offset acreage is identified as an existing 240.93-acre horizontal spacing unit comprising the N/2 S/2 of Section 7 and N/2 SW/4 of Section 8, Township 17 South, Range 32 East, NMPM. This unit is currently dedicated to the Peridot 8 Federal Well No. 3H, and is operated by Maverick.

This affected offset unit is also proposed by Maverick to be included in a 481.84-acre horizontal spacing unit comprising the S/2 of Section 7 and the SW/4 of Section 8, Township 17 South, Range 32 East, NMPM. This unit will ultimately be developed by the Maverick Peridot 8 Federal Wells No. 1H, 2H, 3H and 14H, all as shown on the attached plat and spreadsheet.

The affected 481.84-acre horizontal spacing unit is operated by Maverick, who owns 98% of the working interest in this unit. The remaining 2% working interest is owned by Chase Oil Corporation. Pursuant to Division Rule 19.15.2.7 (a)(8), which defines "Affected Persons", notice of this application is being provided to Chase Oil Corporation, being the only other working interest owner in the affected offset acreage.

A copy of this application is also being furnished to the United States Bureau of Land Management.

Included in this application are the following:

1. Form C-102 for the Peridot 8 Federal No. 4H;
2. Plat showing the proposed unit and affected offset acreage;
3. Spreadsheet showing wells, FTP and LTP locations for all wells in the proposed unit and affected offset unit(s);
4. Plat showing proposed development of the subject unit;
5. Standard Planning Report for the Peridot 8 Federal No. 4H; and
6. Proof of notice to Chase Oil Corporation.

In summary, approval of the application will provide Maverick the opportunity to recover additional oil and gas reserves from the Maljamar; Yeso, West Pool underlying the N/2 of Section 7 and NW/4 of Section 8, Township 17 South, Range 32 East, NMPM, that may otherwise not be recovered, thereby preventing waste, and will not violate correlative rights.

If you should have any questions, please call me at (505) 690-9453.

Maverick Permian, LLC
Application for Unorthodox Well Location
Peridot 8 Federal Well No. 4H
Page 3

Sincerely,



David Catanach, Agent
Maverick Permian, LLC
1111 Bagby Street, Suite 1600
Houston, Texas 77002

Xc: BLM Carlsbad

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) 748-0720

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) 476-3462State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 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	Pool Code	Pool Name
Property Code	Property Name PERIDOT 8 FEDERAL	Well Number #004H
OGRID No.	Operator Name MAVERICK NATURAL RESOURCES	Elevation 4057'

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	08	17 S	32 E		2362	NORTH	1692	EAST	LEA

Bottom Hole Location If Different From Surface

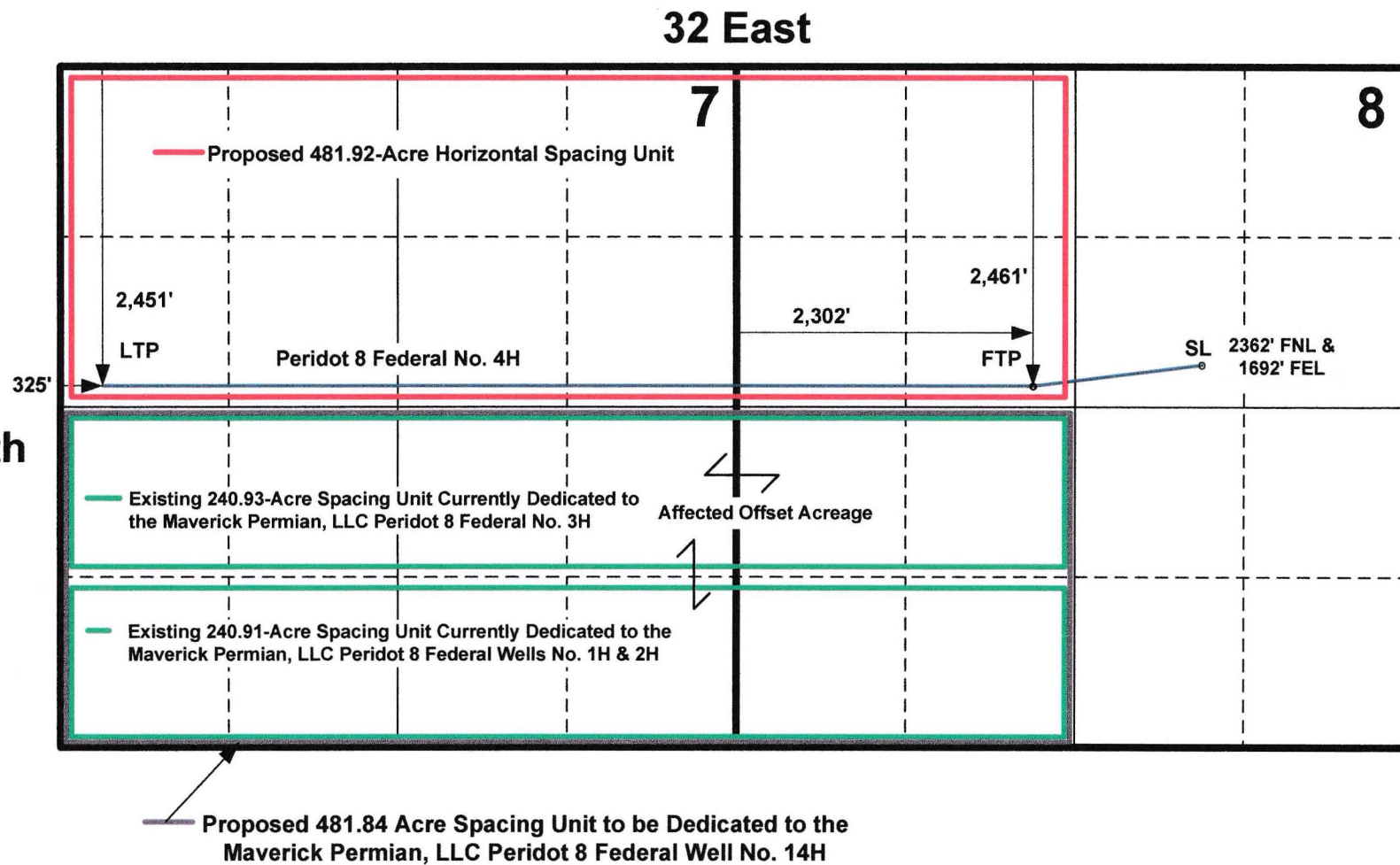
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 2	07	17 S	32 E		2451	NORTH	325	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
481.92			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

						OPERATOR CERTIFICATION I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
Signature _____ Date _____						Printed Name _____	
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.	
November 07, 2022 Date of Survey						Signature and Seal of Professional Surveyor:	
						Job No.: 22-10-2575 MATTHEW B. TOMERLIN, N.M.P.L.S. Certificate Number 23203	

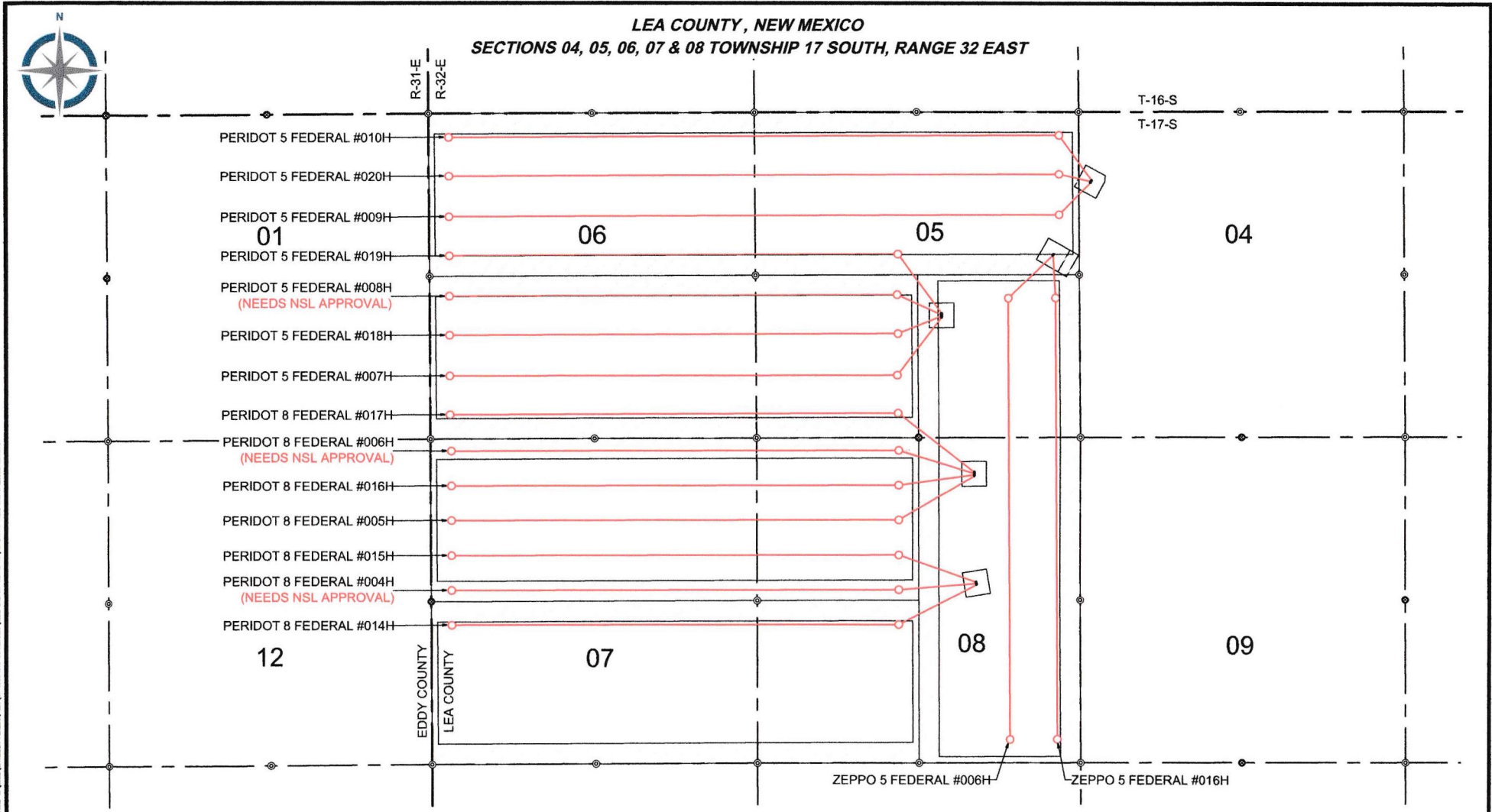
Maverick Permian, LLC
Application for Unorthodox Well Location
Peridot 8 Federal No. 4H
Proposed Spacing Unit &
Affected Offset Spacing Unit(s)



Maverick Permian, LLC
Application for Unorthodox Well Location-Peridot 8 Federal No. 4H
Existing & Proposed Wells

Proposed 481.92-Acre Spacing Unit Comprising the N/2 of Section 7 & NW/4 of Section 8, T-17S, R-32E, NMPM				
Well Name	First Take Point	Last Take Point	Proposed Well	Existing Well
Peridot 8 Federal No. 4H	2461' FNL & 2302' FWL (F) Section 8	2,451' FNL & 325' FWL (Lot 2/E) Section 7	X	
Peridot 8 Federal No. 16H	766' FNL & 2307' FWL (C) Section 8	756' FNL & 331' FWL (Lot 1/D) Section 7	X	
Peridot 8 Federal No. 6H	201' FNL & 2309' FWL (C) Section 8	191' FNL & 333' FWL (Lot 1/D) Section 7	X	
Peridot 8 Federal No. 5H	1331' FNL & 2305' FWL (F) Section 8	1321' FNL & 329' FWL (Lot 2/E) Section 7	X	
Peridot 8 Federal No. 15H	1899' FNL & 2303' FWL (F) Section 8	1889' FNL & 327' FWL (Lot 2/E) Section 7	X	
Affected Offset Spacing Units				
Existing 240.93-Acre Spacing Unit Comprising the N/2 S/2 of Section 7 & N/2 SW/4 of Section 8, T-17S, R-32E, NMPM				
Peridot 8 Federal No. 3H	2081' FSL & 2312' FWL (K) Section 8	1662' FSL & 27' FWL (Lot 3/L) Section 7		X
Existing 240.91-Acre Spacing Unit Comprising the S/2 S/2 of Section 7 & S/2 SW/4 of Section 8, T-17S, R-32E, NMPM				
Peridot 8 Federal No. 1H	391' FSL & 2538' FWL (N) Section 8	333' FSL & 298' FWL (Lot 4/M) Section 7		X
Peridot 8 Federal No. 2H	977' FSL & 2497' FWL (M) Section 8	991' FSL & 298' FWL (Lot 4/M) Section 7		X
Proposed 481.84-Acre Spacing Unit Comprising the S/2 of Section 7 & SW/4 of Section 8, T-17S, R-32E, NMPM				
Peridot 8 Federal No. 14H	2249' FSL & 2300' FWL (K) Section 8	2262' FSL & 323' FWL (Lot 3/L) Section 7	X	

 Unorthodox Well Location



Situated in
SECTIONS 04, 05, 06, 07 & 08 TOWNSHIP 17 SOUTH,
RANGE 32 EAST
LEA COUNTY, NEW MEXICO

GEMSTONE DEVELOPMENT
MAVERICK PERMIAN, LLC
WELL SKETCH

MAVERICK
NATURAL RESOURCES

PRELIMINARY
(NOT TO BE RECORDED)

DATAPoint
SURVEYING & MAPPING

12450 Network Blvd. - Suite 300
San Antonio, TX 78249
Phone: 726-777-4240
Firm No. 10194585

DRAWN BY: JW	DATE: 11/28/2022	REV. 0
CHECKED BY: JH	DATE: 11/28/2022	
AFE #	SHEET 1 OF 1	

PLAT DATE: 11/28/2022 3:18:08 PM. REVISION: 1. 12/06/2022 3:18:08 PM. PERMITS: 1. 12/06/2022 3:18:08 PM. STANDARD WELL SKETCH. 12/06/2022 3:18:08 PM.

Maverick Natural Resources

Gemstone Project

Peridot Pad #1A

Peridot 8 Federal #004H

OH

Plan: Prelim D

Standard Planning Report

22 November, 2022

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

Project	Gemstone Project		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Peridot Pad #1A			
Site Position:		Northing:	678,712.00 usft	Latitude:	32.86458387
From:	Map	Easting:	710,797.00 usft	Longitude:	-103.78143066
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.30 °

Well	Peridot 8 Federal #004H					
Well Position	+N/-S	-5,338.00 usft	Northing:	673,374.00 usft	Latitude:	32.84993014
	+E/-W	-1,242.00 usft	Easting:	709,555.00 usft	Longitude:	-103.78556567
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,057.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	9/4/2022	6.65	60.63	47,851.20000000

Design	Prelim D			
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	269.84

Plan Survey Tool Program	Date	11/22/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,549.50 Prelim D (OH)	LEAM_MWD+HDGM	
			LEAM MWD + HDGM	

Plan Sections										
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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,089.01	11.78	263.13	2,084.86	-7.21	-59.90	2.00	2.00	0.00	263.13	
5,364.48	11.78	263.13	5,291.35	-87.16	-723.82	0.00	0.00	0.00	0.00	
6,147.49	90.00	269.84	5,748.00	-99.83	-1,284.84	10.00	9.99	0.86	6.85	LP (004H)
13,549.50	90.00	269.84	5,748.00	-120.15	-8,686.82	0.00	0.00	0.00	0.00	TD (004H)

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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
SHL (004H)									
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
867.00	0.00	0.00	867.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,045.00	0.00	0.00	1,045.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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	2.00	263.13	1,599.98	-0.21	-1.73	1.73	2.00	2.00	0.00
1,700.00	4.00	263.13	1,699.84	-0.83	-6.93	6.93	2.00	2.00	0.00
1,800.00	6.00	263.13	1,799.45	-1.88	-15.58	15.59	2.00	2.00	0.00
1,900.00	8.00	263.13	1,898.70	-3.33	-27.68	27.69	2.00	2.00	0.00
2,000.00	10.00	263.13	1,997.47	-5.20	-43.21	43.22	2.00	2.00	0.00
2,089.01	11.78	263.13	2,084.86	-7.21	-59.90	59.92	2.00	2.00	0.00
2,095.27	11.78	263.13	2,091.00	-7.37	-61.17	61.20	0.00	0.00	0.00
Tansill									
2,100.00	11.78	263.13	2,095.63	-7.48	-62.13	62.15	0.00	0.00	0.00
2,200.00	11.78	263.13	2,193.52	-9.92	-82.40	82.43	0.00	0.00	0.00
2,237.26	11.78	263.13	2,230.00	-10.83	-89.96	89.99	0.00	0.00	0.00
Yates									
2,300.00	11.78	263.13	2,291.42	-12.36	-102.67	102.71	0.00	0.00	0.00
2,400.00	11.78	263.13	2,389.31	-14.80	-122.94	122.98	0.00	0.00	0.00
2,500.00	11.78	263.13	2,487.20	-17.25	-143.21	143.26	0.00	0.00	0.00
2,548.83	11.78	263.13	2,535.00	-18.44	-153.11	153.16	0.00	0.00	0.00
Seven Rivers									
2,600.00	11.78	263.13	2,585.10	-19.69	-163.48	163.53	0.00	0.00	0.00
2,700.00	11.78	263.13	2,682.99	-22.13	-183.75	183.81	0.00	0.00	0.00
2,800.00	11.78	263.13	2,780.88	-24.57	-204.02	204.09	0.00	0.00	0.00
2,900.00	11.78	263.13	2,878.78	-27.01	-224.29	224.36	0.00	0.00	0.00
3,000.00	11.78	263.13	2,976.67	-29.45	-244.56	244.64	0.00	0.00	0.00
3,100.00	11.78	263.13	3,074.57	-31.89	-264.82	264.91	0.00	0.00	0.00
3,178.08	11.78	263.13	3,151.00	-33.80	-280.65	280.74	0.00	0.00	0.00
Queen									
3,200.00	11.78	263.13	3,172.46	-34.33	-285.09	285.19	0.00	0.00	0.00
3,300.00	11.78	263.13	3,270.35	-36.77	-305.36	305.46	0.00	0.00	0.00
3,400.00	11.78	263.13	3,368.25	-39.21	-325.63	325.74	0.00	0.00	0.00
3,500.00	11.78	263.13	3,466.14	-41.65	-345.90	346.02	0.00	0.00	0.00
3,600.00	11.78	263.13	3,564.04	-44.10	-366.17	366.29	0.00	0.00	0.00
3,639.80	11.78	263.13	3,603.00	-45.07	-374.24	374.36	0.00	0.00	0.00
Grayburg									

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)	
3,700.00	11.78	263.13	3,661.93	-46.54	-386.44	386.57	0.00	0.00	0.00	
3,800.00	11.78	263.13	3,759.82	-48.98	-406.71	406.84	0.00	0.00	0.00	
3,900.00	11.78	263.13	3,857.72	-51.42	-426.98	427.12	0.00	0.00	0.00	
3,928.89	11.78	263.13	3,886.00	-52.12	-432.83	432.98	0.00	0.00	0.00	
San Andres										
4,000.00	11.78	263.13	3,955.61	-53.86	-447.25	447.40	0.00	0.00	0.00	
4,100.00	11.78	263.13	4,053.50	-56.30	-467.52	467.67	0.00	0.00	0.00	
4,200.00	11.78	263.13	4,151.40	-58.74	-487.79	487.95	0.00	0.00	0.00	
4,300.00	11.78	263.13	4,249.29	-61.18	-508.05	508.22	0.00	0.00	0.00	
4,400.00	11.78	263.13	4,347.19	-63.62	-528.32	528.50	0.00	0.00	0.00	
4,500.00	11.78	263.13	4,445.08	-66.06	-548.59	548.78	0.00	0.00	0.00	
4,600.00	11.78	263.13	4,542.97	-68.50	-568.86	569.05	0.00	0.00	0.00	
4,700.00	11.78	263.13	4,640.87	-70.94	-589.13	589.33	0.00	0.00	0.00	
4,800.00	11.78	263.13	4,738.76	-73.39	-609.40	609.60	0.00	0.00	0.00	
4,900.00	11.78	263.13	4,836.65	-75.83	-629.67	629.88	0.00	0.00	0.00	
5,000.00	11.78	263.13	4,934.55	-78.27	-649.94	650.16	0.00	0.00	0.00	
5,100.00	11.78	263.13	5,032.44	-80.71	-670.21	670.43	0.00	0.00	0.00	
5,200.00	11.78	263.13	5,130.34	-83.15	-690.48	690.71	0.00	0.00	0.00	
5,300.00	11.78	263.13	5,228.23	-85.59	-710.75	710.98	0.00	0.00	0.00	
5,364.48	11.78	263.13	5,291.35	-87.16	-723.82	724.06	0.00	0.00	0.00	
5,400.00	15.31	264.74	5,325.88	-88.03	-732.09	732.33	10.00	9.94	4.52	
5,450.00	20.30	266.07	5,373.47	-89.23	-747.32	747.57	10.00	9.97	2.66	
5,463.42	21.64	266.32	5,386.00	-89.55	-752.12	752.36	10.00	9.98	1.90	
Glorieta										
5,500.00	25.29	266.89	5,419.55	-90.40	-766.65	766.90	10.00	9.98	1.55	
5,550.00	30.28	267.45	5,463.77	-91.55	-789.92	790.17	10.00	9.99	1.13	
5,551.42	30.42	267.46	5,465.00	-91.58	-790.64	790.89	10.00	9.99	0.95	
Paddock										
5,600.00	35.27	267.87	5,505.80	-92.64	-816.96	817.22	10.00	9.99	0.83	
5,650.00	40.27	268.19	5,545.31	-93.69	-847.56	847.82	10.00	9.99	0.65	
5,700.00	45.27	268.46	5,582.00	-94.68	-881.49	881.75	10.00	9.99	0.53	
5,750.00	50.26	268.68	5,615.60	-95.60	-918.48	918.75	10.00	9.99	0.45	
5,800.00	55.26	268.87	5,645.84	-96.44	-958.27	958.53	10.00	10.00	0.38	
5,850.00	60.26	269.05	5,672.51	-97.21	-1,000.54	1,000.81	10.00	10.00	0.34	
5,900.00	65.26	269.20	5,695.39	-97.89	-1,044.98	1,045.24	10.00	10.00	0.31	
5,950.00	70.26	269.34	5,714.31	-98.48	-1,091.24	1,091.51	10.00	10.00	0.28	
6,000.00	75.26	269.48	5,729.13	-98.97	-1,138.97	1,139.24	10.00	10.00	0.27	
6,050.00	80.25	269.60	5,739.73	-99.36	-1,187.82	1,188.09	10.00	10.00	0.26	
6,100.00	85.25	269.73	5,746.03	-99.65	-1,237.40	1,237.67	10.00	10.00	0.25	
6,147.49	90.00	269.84	5,748.00	-99.83	-1,284.84	1,285.11	10.00	10.00	0.24	
Target Line - LP (004H)										
6,200.00	90.00	269.84	5,748.00	-99.97	-1,337.35	1,337.62	0.00	0.00	0.00	
6,300.00	90.00	269.84	5,748.00	-100.25	-1,437.34	1,437.62	0.00	0.00	0.00	
6,400.00	90.00	269.84	5,748.00	-100.52	-1,537.34	1,537.62	0.00	0.00	0.00	
6,500.00	90.00	269.84	5,748.00	-100.80	-1,637.34	1,637.62	0.00	0.00	0.00	
6,600.00	90.00	269.84	5,748.00	-101.07	-1,737.34	1,737.62	0.00	0.00	0.00	
6,700.00	90.00	269.84	5,748.00	-101.35	-1,837.34	1,837.62	0.00	0.00	0.00	
6,800.00	90.00	269.84	5,748.00	-101.62	-1,937.34	1,937.62	0.00	0.00	0.00	
6,900.00	90.00	269.84	5,748.00	-101.90	-2,037.34	2,037.62	0.00	0.00	0.00	
7,000.00	90.00	269.84	5,748.00	-102.17	-2,137.34	2,137.62	0.00	0.00	0.00	
7,100.00	90.00	269.84	5,748.00	-102.44	-2,237.34	2,237.62	0.00	0.00	0.00	
7,200.00	90.00	269.84	5,748.00	-102.72	-2,337.34	2,337.62	0.00	0.00	0.00	
7,300.00	90.00	269.84	5,748.00	-102.99	-2,437.34	2,437.62	0.00	0.00	0.00	
7,400.00	90.00	269.84	5,748.00	-103.27	-2,537.34	2,537.62	0.00	0.00	0.00	

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)
7,500.00	90.00	269.84	5,748.00	-103.54	-2,637.34	2,637.62	0.00	0.00	0.00
7,600.00	90.00	269.84	5,748.00	-103.82	-2,737.34	2,737.62	0.00	0.00	0.00
7,700.00	90.00	269.84	5,748.00	-104.09	-2,837.34	2,837.62	0.00	0.00	0.00
7,800.00	90.00	269.84	5,748.00	-104.37	-2,937.34	2,937.62	0.00	0.00	0.00
7,900.00	90.00	269.84	5,748.00	-104.64	-3,037.34	3,037.62	0.00	0.00	0.00
8,000.00	90.00	269.84	5,748.00	-104.92	-3,137.34	3,137.62	0.00	0.00	0.00
8,100.00	90.00	269.84	5,748.00	-105.19	-3,237.34	3,237.62	0.00	0.00	0.00
8,200.00	90.00	269.84	5,748.00	-105.46	-3,337.34	3,337.62	0.00	0.00	0.00
8,300.00	90.00	269.84	5,748.00	-105.74	-3,437.34	3,437.62	0.00	0.00	0.00
8,400.00	90.00	269.84	5,748.00	-106.01	-3,537.34	3,537.62	0.00	0.00	0.00
8,500.00	90.00	269.84	5,748.00	-106.29	-3,637.34	3,637.62	0.00	0.00	0.00
8,600.00	90.00	269.84	5,748.00	-106.56	-3,737.34	3,737.62	0.00	0.00	0.00
8,700.00	90.00	269.84	5,748.00	-106.84	-3,837.34	3,837.62	0.00	0.00	0.00
8,800.00	90.00	269.84	5,748.00	-107.11	-3,937.34	3,937.62	0.00	0.00	0.00
8,900.00	90.00	269.84	5,748.00	-107.39	-4,037.34	4,037.62	0.00	0.00	0.00
9,000.00	90.00	269.84	5,748.00	-107.66	-4,137.33	4,137.62	0.00	0.00	0.00
9,100.00	90.00	269.84	5,748.00	-107.93	-4,237.33	4,237.62	0.00	0.00	0.00
9,200.00	90.00	269.84	5,748.00	-108.21	-4,337.33	4,337.62	0.00	0.00	0.00
9,300.00	90.00	269.84	5,748.00	-108.48	-4,437.33	4,437.62	0.00	0.00	0.00
9,400.00	90.00	269.84	5,748.00	-108.76	-4,537.33	4,537.62	0.00	0.00	0.00
9,500.00	90.00	269.84	5,748.00	-109.03	-4,637.33	4,637.62	0.00	0.00	0.00
9,600.00	90.00	269.84	5,748.00	-109.31	-4,737.33	4,737.62	0.00	0.00	0.00
9,700.00	90.00	269.84	5,748.00	-109.58	-4,837.33	4,837.62	0.00	0.00	0.00
9,800.00	90.00	269.84	5,748.00	-109.86	-4,937.33	4,937.62	0.00	0.00	0.00
9,900.00	90.00	269.84	5,748.00	-110.13	-5,037.33	5,037.62	0.00	0.00	0.00
10,000.00	90.00	269.84	5,748.00	-110.41	-5,137.33	5,137.62	0.00	0.00	0.00
10,100.00	90.00	269.84	5,748.00	-110.68	-5,237.33	5,237.62	0.00	0.00	0.00
10,200.00	90.00	269.84	5,748.00	-110.95	-5,337.33	5,337.62	0.00	0.00	0.00
10,300.00	90.00	269.84	5,748.00	-111.23	-5,437.33	5,437.62	0.00	0.00	0.00
10,400.00	90.00	269.84	5,748.00	-111.50	-5,537.33	5,537.62	0.00	0.00	0.00
10,500.00	90.00	269.84	5,748.00	-111.78	-5,637.33	5,637.62	0.00	0.00	0.00
10,600.00	90.00	269.84	5,748.00	-112.05	-5,737.33	5,737.62	0.00	0.00	0.00
10,700.00	90.00	269.84	5,748.00	-112.33	-5,837.33	5,837.62	0.00	0.00	0.00
10,800.00	90.00	269.84	5,748.00	-112.60	-5,937.33	5,937.62	0.00	0.00	0.00
10,900.00	90.00	269.84	5,748.00	-112.88	-6,037.33	6,037.62	0.00	0.00	0.00
11,000.00	90.00	269.84	5,748.00	-113.15	-6,137.33	6,137.62	0.00	0.00	0.00
11,100.00	90.00	269.84	5,748.00	-113.42	-6,237.33	6,237.62	0.00	0.00	0.00
11,200.00	90.00	269.84	5,748.00	-113.70	-6,337.33	6,337.62	0.00	0.00	0.00
11,300.00	90.00	269.84	5,748.00	-113.97	-6,437.33	6,437.62	0.00	0.00	0.00
11,400.00	90.00	269.84	5,748.00	-114.25	-6,537.33	6,537.62	0.00	0.00	0.00
11,500.00	90.00	269.84	5,748.00	-114.52	-6,637.33	6,637.62	0.00	0.00	0.00
11,600.00	90.00	269.84	5,748.00	-114.80	-6,737.33	6,737.62	0.00	0.00	0.00
11,700.00	90.00	269.84	5,748.00	-115.07	-6,837.32	6,837.62	0.00	0.00	0.00
11,800.00	90.00	269.84	5,748.00	-115.35	-6,937.32	6,937.62	0.00	0.00	0.00
11,900.00	90.00	269.84	5,748.00	-115.62	-7,037.32	7,037.62	0.00	0.00	0.00
12,000.00	90.00	269.84	5,748.00	-115.90	-7,137.32	7,137.62	0.00	0.00	0.00
12,100.00	90.00	269.84	5,748.00	-116.17	-7,237.32	7,237.62	0.00	0.00	0.00
12,200.00	90.00	269.84	5,748.00	-116.44	-7,337.32	7,337.62	0.00	0.00	0.00
12,300.00	90.00	269.84	5,748.00	-116.72	-7,437.32	7,437.62	0.00	0.00	0.00
12,400.00	90.00	269.84	5,748.00	-116.99	-7,537.32	7,537.62	0.00	0.00	0.00
12,500.00	90.00	269.84	5,748.00	-117.27	-7,637.32	7,637.62	0.00	0.00	0.00
12,600.00	90.00	269.84	5,748.00	-117.54	-7,737.32	7,737.62	0.00	0.00	0.00
12,700.00	90.00	269.84	5,748.00	-117.82	-7,837.32	7,837.62	0.00	0.00	0.00
12,800.00	90.00	269.84	5,748.00	-118.09	-7,937.32	7,937.62	0.00	0.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057 ' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057 ' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)
12,900.00	90.00	269.84	5,748.00	-118.37	-8,037.32	8,037.62	0.00	0.00	0.00
13,000.00	90.00	269.84	5,748.00	-118.64	-8,137.32	8,137.62	0.00	0.00	0.00
13,100.00	90.00	269.84	5,748.00	-118.91	-8,237.32	8,237.62	0.00	0.00	0.00
13,200.00	90.00	269.84	5,748.00	-119.19	-8,337.32	8,337.62	0.00	0.00	0.00
13,300.00	90.00	269.84	5,748.00	-119.46	-8,437.32	8,437.62	0.00	0.00	0.00
13,400.00	90.00	269.84	5,748.00	-119.74	-8,537.32	8,537.62	0.00	0.00	0.00
13,424.50	90.00	269.84	5,748.00	-119.81	-8,561.82	8,562.12	0.00	0.00	0.00
LTP (004H)									
13,500.00	90.00	269.84	5,748.00	-120.01	-8,637.32	8,637.62	0.00	0.00	0.00
13,549.50	90.00	269.84	5,748.00	-120.15	-8,686.82	8,687.12	0.00	0.00	0.00
TD (004H)									

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
SHL (004H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	673,374.00	709,555.00	32.84993014	-103.78556567
LP (004H) - plan hits target center - Point	0.00	0.00	5,748.00	-99.83	-1,284.84	673,274.17	708,270.16	32.84967400	-103.78975102
LTP (004H) - plan misses target center by 0.34usft at 13424.50usft MD (5748.00 TVD, -119.81 N, -8561.82 E) - Point	0.00	0.00	5,748.00	-120.15	-8,561.82	673,253.85	700,993.18	32.84971884	-103.81344649
TD (004H) - plan hits target center - Point	0.00	0.00	5,748.00	-120.15	-8,686.82	673,253.85	700,868.18	32.84972053	-103.81385351

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
867.00	867.00	Rustler			
1,045.00	1,045.00	Salado			
2,095.27	2,091.00	Tansill			
2,237.26	2,230.00	Yates			
2,548.83	2,535.00	Seven Rivers			
3,178.08	3,151.00	Queen			
3,639.80	3,603.00	Grayburg			
3,928.89	3,886.00	San Andres			
5,463.42	5,386.00	Glorieta			
5,551.42	5,465.00	Paddock			
6,147.49	5,748.00	Target Line			

December 6, 2022

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: Chase Oil Corporation
P.O. Box 1767
Artesia, New Mexico 88211

Re: Maverick Permian, LLC
Application for Unorthodox Well Location
Peridot 8 Federal No. 4H (API No. N/A)
Surface Location: 2362' FNL & 1692' FEL (Unit G) Section 8
First Take Point: 2461' FNL & 2302' FWL (Unit F) Section 8
Bottomhole Location: 2451' FNL & 325' FWL (Unit E/Lot 2) Section 7
All in Township 17 South, Range 32 East, NMPM, Lea County, New Mexico
Maljamar; Yeso, West Pool

Ladies and Gentlemen:

Enclosed please find a copy of the application filed by Maverick Permian, LLC for approval of an unorthodox oil well location for its Peridot 8 Federal No. 4H in the Maljamar; Yeso, West Pool as described above. The well will be dedicated to a standard 481.92-acre horizontal spacing unit comprising the N/2 of Section 7 and the NW/4 of Section 8, Township 17 South, Range 32 East, NMPM.

As the owner of an interest that may be affected by the proposed unorthodox well location, you are being provided notice as per Oil Conservation Division rules and regulations. Objections must be filed in writing at the Division's Santa Fe office within 20 days from the date this notice was sent to you. If no objection is received within twenty days after the filing of this application and proof of notice with the Division, the application may be approved.

If you should have any questions, please call me at (505) 690-9453.

Sincerely,



David Catanach
Agent-Maverick Permian, LLC
1111 Bagby Street, Suite 1600
Houston, Texas 77002

Enclosure

7020 2450 0002 1361 1886

USPS Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®	
Artesia, NM 88211	
Certified Mail Fee	\$4.00
\$	\$7.25
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$1.68
\$	\$8.93
Total Po	\$8.93
\$	
Sent To	Chase Oil Corporation
	P.O. Box 1767
Street ad	Artesia, New Mexico 88211
City, Sta	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

0501 85
Postmark Here
DEC 13 2022
SANTA FE NE

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) 748-0720

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, NM 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	Pool Code	Pool Name
Property Code	Property Name PERIDOT 8 FEDERAL	Well Number #004H
OGRID No.	Operator Name MAVERICK NATURAL RESOURCES	Elevation 4057'

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	08	17 S	32 E		2362	NORTH	1692	EAST	LEA

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
LOT 2	07	17 S	32 E		2451	NORTH	325	WEST	LEA

Dedicated Acres 481.92	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

						OPERATOR CERTIFICATION I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____	
LAST TAKE POINT / BOTTOM HOLE NEW MEXICO EAST NAD 1983 X = 700990' Y = 673256' LAT. = N 32.849724° LONG. = W 103.813456° NAD 1927 X = 659812' Y = 673192' LAT. = N 32.849606° LONG. = W 103.812950°						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. November 07, 2022 Date of Survey Signature and Seal of Professional Surveyor: 	
FIRST TAKE POINT NEW MEXICO EAST NAD 1983 X = 708280' Y = 673271' LAT. = N 32.849665° LONG. = W 103.789720° NAD 1927 X = 667101' Y = 673207' LAT. = N 32.849546° LONG. = W 103.789214°						Job No.: 22-10-2575 MATTHEW B. TOMERLIN, N.M.P.L.S. Certificate Number 23203	
SURFACE LOCATION NEW MEXICO EAST NAD 1983 X = 709554' Y = 673374' LAT. = N 32.849931° LONG. = W 103.785567° NAD 1927 X = 668376' Y = 673310' LAT. = N 32.849812° LONG. = W 103.785061°							

December 6, 2022

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: Chase Oil Corporation
P.O. Box 1767
Artesia, New Mexico 88211

Re: Maverick Permian, LLC
Application for Unorthodox Well Location
Peridot 8 Federal No. 4H (API No. N/A)
Surface Location: 2362' FNL & 1692' FEL (Unit G) Section 8
First Take Point: 2461' FNL & 2302' FWL (Unit F) Section 8
Bottomhole Location: 2451' FNL & 325' FWL (Unit E/Lot 2) Section 7
All in Township 17 South, Range 32 East, NMPM, Lea County, New Mexico
Maljamar; Yeso, West Pool

Ladies and Gentlemen:

Enclosed please find a copy of the application filed by Maverick Permian, LLC for approval of an unorthodox oil well location for its Peridot 8 Federal No. 4H in the Maljamar; Yeso, West Pool as described above. The well will be dedicated to a standard 481.92-acre horizontal spacing unit comprising the N/2 of Section 7 and the NW/4 of Section 8, Township 17 South, Range 32 East, NMPM.

As the owner of an interest that may be affected by the proposed unorthodox well location, you are being provided notice as per Oil Conservation Division rules and regulations. Objections must be filed in writing at the Division's Santa Fe office within 20 days from the date this notice was sent to you. If no objection is received within twenty days after the filing of this application and proof of notice with the Division, the application may be approved.

If you should have any questions, please call me at (505) 690-9453.

Sincerely,



David Catanach
Agent-Maverick Permian, LLC
1111 Bagby Street, Suite 1600
Houston, Texas 77002

Enclosure

7020 2450 0002 1361 1886

USPS Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®	
Artesia, NM 88211	
Certified Mail Fee	\$4.00
\$	\$7.25
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$1.68
\$	\$8.93
Total Po	\$8.93
\$	
Sent To	Chase Oil Corporation
Street ad	P.O. Box 1767
City, Sta	Artesia, New Mexico 88211
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

DEC 06 2022
SANTA FE, NM
0501 85
Postmark Here

7020 2450 0002 1361 1886

USPS Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®	
Artesia, NM 88211	
Certified Mail Fee	\$4.00
\$	\$7.25
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
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	P.O. Box 1767
Street ad	Artesia, New Mexico 88211
City, Sta	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

0501 85
Postmark Here
DEC 13 2022
SANTA FE NE

Maverick Natural Resources

Gemstone Project

Peridot Pad #1A

Peridot 8 Federal #004H

OH

Plan: Prelim D

Standard Planning Report

22 November, 2022

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

Project	Gemstone Project		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Peridot Pad #1A				
Site Position:		Northing:	678,712.00 usft	Latitude:	32.86458387
From:	Map	Easting:	710,797.00 usft	Longitude:	-103.78143066
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.30 °

Well	Peridot 8 Federal #004H					
Well Position	+N/-S	-5,338.00 usft	Northing:	673,374.00 usft	Latitude:	32.84993014
	+E/-W	-1,242.00 usft	Easting:	709,555.00 usft	Longitude:	-103.78556567
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	4,057.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	9/4/2022	6.65	60.63	47,851.20000000

Design	Prelim D			
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	269.84

Plan Survey Tool Program	Date	11/22/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,549.50 Prelim D (OH)	LEAM_MWD+HDGM	
			LEAM MWD + HDGM	

Plan Sections										
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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,089.01	11.78	263.13	2,084.86	-7.21	-59.90	2.00	2.00	0.00	263.13	
5,364.48	11.78	263.13	5,291.35	-87.16	-723.82	0.00	0.00	0.00	0.00	
6,147.49	90.00	269.84	5,748.00	-99.83	-1,284.84	10.00	9.99	0.86	6.85	LP (004H)
13,549.50	90.00	269.84	5,748.00	-120.15	-8,686.82	0.00	0.00	0.00	0.00	TD (004H)

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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
SHL (004H)									
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
867.00	0.00	0.00	867.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,045.00	0.00	0.00	1,045.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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	2.00	263.13	1,599.98	-0.21	-1.73	1.73	2.00	2.00	0.00
1,700.00	4.00	263.13	1,699.84	-0.83	-6.93	6.93	2.00	2.00	0.00
1,800.00	6.00	263.13	1,799.45	-1.88	-15.58	15.59	2.00	2.00	0.00
1,900.00	8.00	263.13	1,898.70	-3.33	-27.68	27.69	2.00	2.00	0.00
2,000.00	10.00	263.13	1,997.47	-5.20	-43.21	43.22	2.00	2.00	0.00
2,089.01	11.78	263.13	2,084.86	-7.21	-59.90	59.92	2.00	2.00	0.00
2,095.27	11.78	263.13	2,091.00	-7.37	-61.17	61.20	0.00	0.00	0.00
Tansill									
2,100.00	11.78	263.13	2,095.63	-7.48	-62.13	62.15	0.00	0.00	0.00
2,200.00	11.78	263.13	2,193.52	-9.92	-82.40	82.43	0.00	0.00	0.00
2,237.26	11.78	263.13	2,230.00	-10.83	-89.96	89.99	0.00	0.00	0.00
Yates									
2,300.00	11.78	263.13	2,291.42	-12.36	-102.67	102.71	0.00	0.00	0.00
2,400.00	11.78	263.13	2,389.31	-14.80	-122.94	122.98	0.00	0.00	0.00
2,500.00	11.78	263.13	2,487.20	-17.25	-143.21	143.26	0.00	0.00	0.00
2,548.83	11.78	263.13	2,535.00	-18.44	-153.11	153.16	0.00	0.00	0.00
Seven Rivers									
2,600.00	11.78	263.13	2,585.10	-19.69	-163.48	163.53	0.00	0.00	0.00
2,700.00	11.78	263.13	2,682.99	-22.13	-183.75	183.81	0.00	0.00	0.00
2,800.00	11.78	263.13	2,780.88	-24.57	-204.02	204.09	0.00	0.00	0.00
2,900.00	11.78	263.13	2,878.78	-27.01	-224.29	224.36	0.00	0.00	0.00
3,000.00	11.78	263.13	2,976.67	-29.45	-244.56	244.64	0.00	0.00	0.00
3,100.00	11.78	263.13	3,074.57	-31.89	-264.82	264.91	0.00	0.00	0.00
3,178.08	11.78	263.13	3,151.00	-33.80	-280.65	280.74	0.00	0.00	0.00
Queen									
3,200.00	11.78	263.13	3,172.46	-34.33	-285.09	285.19	0.00	0.00	0.00
3,300.00	11.78	263.13	3,270.35	-36.77	-305.36	305.46	0.00	0.00	0.00
3,400.00	11.78	263.13	3,368.25	-39.21	-325.63	325.74	0.00	0.00	0.00
3,500.00	11.78	263.13	3,466.14	-41.65	-345.90	346.02	0.00	0.00	0.00
3,600.00	11.78	263.13	3,564.04	-44.10	-366.17	366.29	0.00	0.00	0.00
3,639.80	11.78	263.13	3,603.00	-45.07	-374.24	374.36	0.00	0.00	0.00
Grayburg									

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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
SHL (004H)									
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
867.00	0.00	0.00	867.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,045.00	0.00	0.00	1,045.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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	2.00	263.13	1,599.98	-0.21	-1.73	1.73	2.00	2.00	0.00
1,700.00	4.00	263.13	1,699.84	-0.83	-6.93	6.93	2.00	2.00	0.00
1,800.00	6.00	263.13	1,799.45	-1.88	-15.58	15.59	2.00	2.00	0.00
1,900.00	8.00	263.13	1,898.70	-3.33	-27.68	27.69	2.00	2.00	0.00
2,000.00	10.00	263.13	1,997.47	-5.20	-43.21	43.22	2.00	2.00	0.00
2,089.01	11.78	263.13	2,084.86	-7.21	-59.90	59.92	2.00	2.00	0.00
2,095.27	11.78	263.13	2,091.00	-7.37	-61.17	61.20	0.00	0.00	0.00
Tansill									
2,100.00	11.78	263.13	2,095.63	-7.48	-62.13	62.15	0.00	0.00	0.00
2,200.00	11.78	263.13	2,193.52	-9.92	-82.40	82.43	0.00	0.00	0.00
2,237.26	11.78	263.13	2,230.00	-10.83	-89.96	89.99	0.00	0.00	0.00
Yates									
2,300.00	11.78	263.13	2,291.42	-12.36	-102.67	102.71	0.00	0.00	0.00
2,400.00	11.78	263.13	2,389.31	-14.80	-122.94	122.98	0.00	0.00	0.00
2,500.00	11.78	263.13	2,487.20	-17.25	-143.21	143.26	0.00	0.00	0.00
2,548.83	11.78	263.13	2,535.00	-18.44	-153.11	153.16	0.00	0.00	0.00
Seven Rivers									
2,600.00	11.78	263.13	2,585.10	-19.69	-163.48	163.53	0.00	0.00	0.00
2,700.00	11.78	263.13	2,682.99	-22.13	-183.75	183.81	0.00	0.00	0.00
2,800.00	11.78	263.13	2,780.88	-24.57	-204.02	204.09	0.00	0.00	0.00
2,900.00	11.78	263.13	2,878.78	-27.01	-224.29	224.36	0.00	0.00	0.00
3,000.00	11.78	263.13	2,976.67	-29.45	-244.56	244.64	0.00	0.00	0.00
3,100.00	11.78	263.13	3,074.57	-31.89	-264.82	264.91	0.00	0.00	0.00
3,178.08	11.78	263.13	3,151.00	-33.80	-280.65	280.74	0.00	0.00	0.00
Queen									
3,200.00	11.78	263.13	3,172.46	-34.33	-285.09	285.19	0.00	0.00	0.00
3,300.00	11.78	263.13	3,270.35	-36.77	-305.36	305.46	0.00	0.00	0.00
3,400.00	11.78	263.13	3,368.25	-39.21	-325.63	325.74	0.00	0.00	0.00
3,500.00	11.78	263.13	3,466.14	-41.65	-345.90	346.02	0.00	0.00	0.00
3,600.00	11.78	263.13	3,564.04	-44.10	-366.17	366.29	0.00	0.00	0.00
3,639.80	11.78	263.13	3,603.00	-45.07	-374.24	374.36	0.00	0.00	0.00
Grayburg									

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)	
3,700.00	11.78	263.13	3,661.93	-46.54	-386.44	386.57	0.00	0.00	0.00	
3,800.00	11.78	263.13	3,759.82	-48.98	-406.71	406.84	0.00	0.00	0.00	
3,900.00	11.78	263.13	3,857.72	-51.42	-426.98	427.12	0.00	0.00	0.00	
3,928.89	11.78	263.13	3,886.00	-52.12	-432.83	432.98	0.00	0.00	0.00	
San Andres										
4,000.00	11.78	263.13	3,955.61	-53.86	-447.25	447.40	0.00	0.00	0.00	
4,100.00	11.78	263.13	4,053.50	-56.30	-467.52	467.67	0.00	0.00	0.00	
4,200.00	11.78	263.13	4,151.40	-58.74	-487.79	487.95	0.00	0.00	0.00	
4,300.00	11.78	263.13	4,249.29	-61.18	-508.05	508.22	0.00	0.00	0.00	
4,400.00	11.78	263.13	4,347.19	-63.62	-528.32	528.50	0.00	0.00	0.00	
4,500.00	11.78	263.13	4,445.08	-66.06	-548.59	548.78	0.00	0.00	0.00	
4,600.00	11.78	263.13	4,542.97	-68.50	-568.86	569.05	0.00	0.00	0.00	
4,700.00	11.78	263.13	4,640.87	-70.94	-589.13	589.33	0.00	0.00	0.00	
4,800.00	11.78	263.13	4,738.76	-73.39	-609.40	609.60	0.00	0.00	0.00	
4,900.00	11.78	263.13	4,836.65	-75.83	-629.67	629.88	0.00	0.00	0.00	
5,000.00	11.78	263.13	4,934.55	-78.27	-649.94	650.16	0.00	0.00	0.00	
5,100.00	11.78	263.13	5,032.44	-80.71	-670.21	670.43	0.00	0.00	0.00	
5,200.00	11.78	263.13	5,130.34	-83.15	-690.48	690.71	0.00	0.00	0.00	
5,300.00	11.78	263.13	5,228.23	-85.59	-710.75	710.98	0.00	0.00	0.00	
5,364.48	11.78	263.13	5,291.35	-87.16	-723.82	724.06	0.00	0.00	0.00	
5,400.00	15.31	264.74	5,325.88	-88.03	-732.09	732.33	10.00	9.94	4.52	
5,450.00	20.30	266.07	5,373.47	-89.23	-747.32	747.57	10.00	9.97	2.66	
5,463.42	21.64	266.32	5,386.00	-89.55	-752.12	752.36	10.00	9.98	1.90	
Glorieta										
5,500.00	25.29	266.89	5,419.55	-90.40	-766.65	766.90	10.00	9.98	1.55	
5,550.00	30.28	267.45	5,463.77	-91.55	-789.92	790.17	10.00	9.99	1.13	
5,551.42	30.42	267.46	5,465.00	-91.58	-790.64	790.89	10.00	9.99	0.95	
Paddock										
5,600.00	35.27	267.87	5,505.80	-92.64	-816.96	817.22	10.00	9.99	0.83	
5,650.00	40.27	268.19	5,545.31	-93.69	-847.56	847.82	10.00	9.99	0.65	
5,700.00	45.27	268.46	5,582.00	-94.68	-881.49	881.75	10.00	9.99	0.53	
5,750.00	50.26	268.68	5,615.60	-95.60	-918.48	918.75	10.00	9.99	0.45	
5,800.00	55.26	268.87	5,645.84	-96.44	-958.27	958.53	10.00	10.00	0.38	
5,850.00	60.26	269.05	5,672.51	-97.21	-1,000.54	1,000.81	10.00	10.00	0.34	
5,900.00	65.26	269.20	5,695.39	-97.89	-1,044.98	1,045.24	10.00	10.00	0.31	
5,950.00	70.26	269.34	5,714.31	-98.48	-1,091.24	1,091.51	10.00	10.00	0.28	
6,000.00	75.26	269.48	5,729.13	-98.97	-1,138.97	1,139.24	10.00	10.00	0.27	
6,050.00	80.25	269.60	5,739.73	-99.36	-1,187.82	1,188.09	10.00	10.00	0.26	
6,100.00	85.25	269.73	5,746.03	-99.65	-1,237.40	1,237.67	10.00	10.00	0.25	
6,147.49	90.00	269.84	5,748.00	-99.83	-1,284.84	1,285.11	10.00	10.00	0.24	
Target Line - LP (004H)										
6,200.00	90.00	269.84	5,748.00	-99.97	-1,337.35	1,337.62	0.00	0.00	0.00	
6,300.00	90.00	269.84	5,748.00	-100.25	-1,437.34	1,437.62	0.00	0.00	0.00	
6,400.00	90.00	269.84	5,748.00	-100.52	-1,537.34	1,537.62	0.00	0.00	0.00	
6,500.00	90.00	269.84	5,748.00	-100.80	-1,637.34	1,637.62	0.00	0.00	0.00	
6,600.00	90.00	269.84	5,748.00	-101.07	-1,737.34	1,737.62	0.00	0.00	0.00	
6,700.00	90.00	269.84	5,748.00	-101.35	-1,837.34	1,837.62	0.00	0.00	0.00	
6,800.00	90.00	269.84	5,748.00	-101.62	-1,937.34	1,937.62	0.00	0.00	0.00	
6,900.00	90.00	269.84	5,748.00	-101.90	-2,037.34	2,037.62	0.00	0.00	0.00	
7,000.00	90.00	269.84	5,748.00	-102.17	-2,137.34	2,137.62	0.00	0.00	0.00	
7,100.00	90.00	269.84	5,748.00	-102.44	-2,237.34	2,237.62	0.00	0.00	0.00	
7,200.00	90.00	269.84	5,748.00	-102.72	-2,337.34	2,337.62	0.00	0.00	0.00	
7,300.00	90.00	269.84	5,748.00	-102.99	-2,437.34	2,437.62	0.00	0.00	0.00	
7,400.00	90.00	269.84	5,748.00	-103.27	-2,537.34	2,537.62	0.00	0.00	0.00	

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)
12,900.00	90.00	269.84	5,748.00	-118.37	-8,037.32	8,037.62	0.00	0.00	0.00
13,000.00	90.00	269.84	5,748.00	-118.64	-8,137.32	8,137.62	0.00	0.00	0.00
13,100.00	90.00	269.84	5,748.00	-118.91	-8,237.32	8,237.62	0.00	0.00	0.00
13,200.00	90.00	269.84	5,748.00	-119.19	-8,337.32	8,337.62	0.00	0.00	0.00
13,300.00	90.00	269.84	5,748.00	-119.46	-8,437.32	8,437.62	0.00	0.00	0.00
13,400.00	90.00	269.84	5,748.00	-119.74	-8,537.32	8,537.62	0.00	0.00	0.00
13,424.50	90.00	269.84	5,748.00	-119.81	-8,561.82	8,562.12	0.00	0.00	0.00
LTP (004H)									
13,500.00	90.00	269.84	5,748.00	-120.01	-8,637.32	8,637.62	0.00	0.00	0.00
13,549.50	90.00	269.84	5,748.00	-120.15	-8,686.82	8,687.12	0.00	0.00	0.00
TD (004H)									

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
SHL (004H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	673,374.00	709,555.00	32.84993014	-103.78556567
LP (004H) - plan hits target center - Point	0.00	0.00	5,748.00	-99.83	-1,284.84	673,274.17	708,270.16	32.84967400	-103.78975102
LTP (004H) - plan misses target center by 0.34usft at 13424.50usft MD (5748.00 TVD, -119.81 N, -8561.82 E) - Point	0.00	0.00	5,748.00	-120.15	-8,561.82	673,253.85	700,993.18	32.84971884	-103.81344649
TD (004H) - plan hits target center - Point	0.00	0.00	5,748.00	-120.15	-8,686.82	673,253.85	700,868.18	32.84972053	-103.81385351

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
867.00	867.00	Rustler			
1,045.00	1,045.00	Salado			
2,095.27	2,091.00	Tansill			
2,237.26	2,230.00	Yates			
2,548.83	2,535.00	Seven Rivers			
3,178.08	3,151.00	Queen			
3,639.80	3,603.00	Grayburg			
3,928.89	3,886.00	San Andres			
5,463.42	5,386.00	Glorieta			
5,551.42	5,465.00	Paddock			
6,147.49	5,748.00	Target Line			

32 East

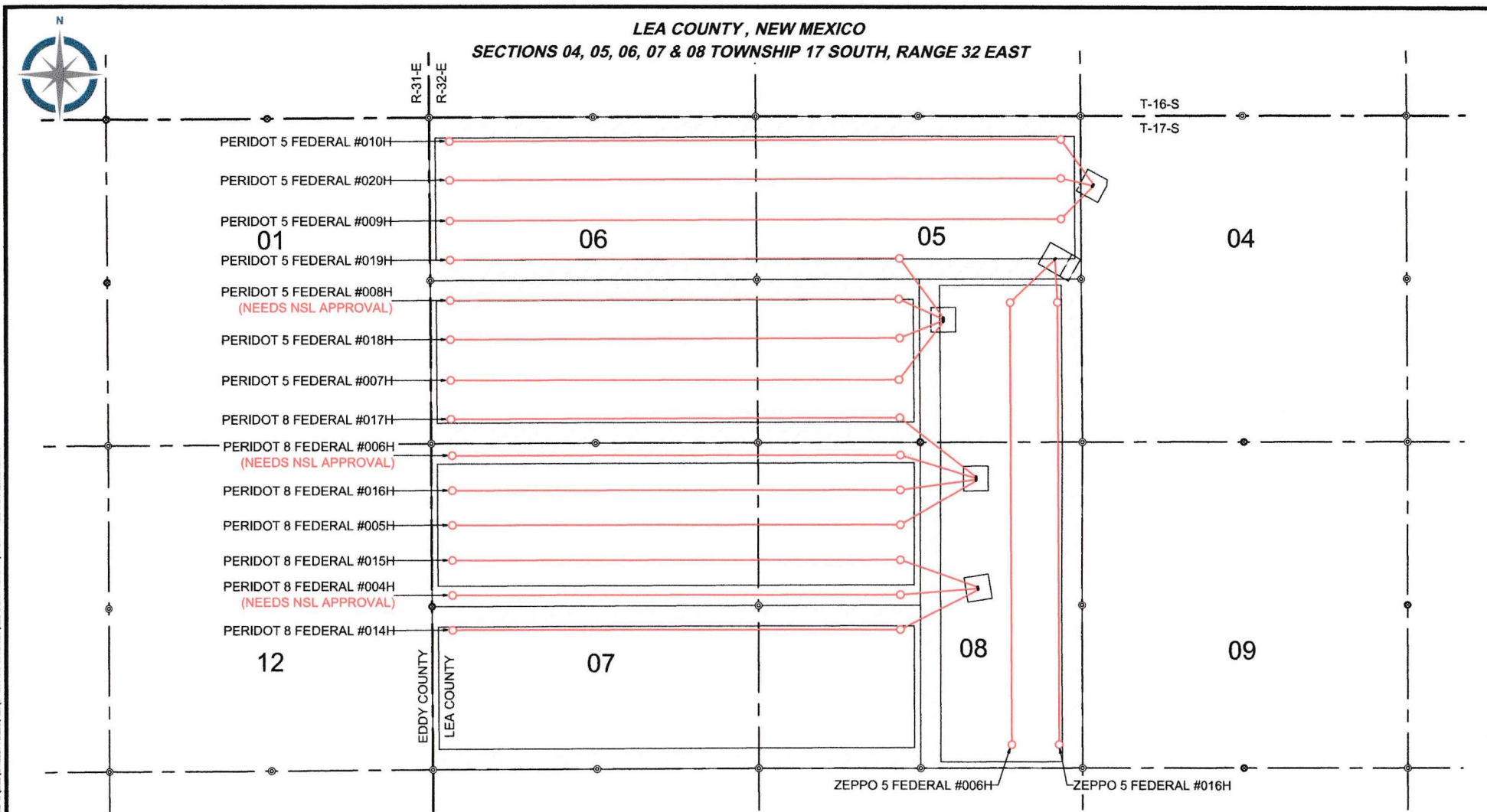


Maverick Permian, LLC
Application for Unorthodox Well Location-Peridot 8 Federal No. 4H
Existing & Proposed Wells

Proposed 481.92-Acre Spacing Unit Comprising the N/2 of Section 7 & NW/4 of Section 8, T-17S, R-32E, NMPM				
Well Name	First Take Point	Last Take Point	Proposed Well	Existing Well
Peridot 8 Federal No. 4H	2461' FNL & 2302' FWL (F) Section 8	2,451' FNL & 325' FWL (Lot 2/E) Section 7	X	
Peridot 8 Federal No. 16H	766' FNL & 2307' FWL (C) Section 8	756' FNL & 331' FWL (Lot 1/D) Section 7	X	
Peridot 8 Federal No. 6H	201' FNL & 2309' FWL (C) Section 8	191' FNL & 333' FWL (Lot 1/D) Section 7	X	
Peridot 8 Federal No. 5H	1331' FNL & 2305' FWL (F) Section 8	1321' FNL & 329' FWL (Lot 2/E) Section 7	X	
Peridot 8 Federal No. 15H	1899' FNL & 2303' FWL (F) Section 8	1889' FNL & 327' FWL (Lot 2/E) Section 7	X	
Affected Offset Spacing Units				
Existing 240.93-Acre Spacing Unit Comprising the N/2 S/2 of Section 7 & N/2 SW/4 of Section 8, T-17S, R-32E, NMPM				
Peridot 8 Federal No. 3H	2081' FSL & 2312' FWL (K) Section 8	1662' FSL & 27' FWL (Lot 3/L) Section 7		X
Existing 240.91-Acre Spacing Unit Comprising the S/2 S/2 of Section 7 & S/2 SW/4 of Section 8, T-17S, R-32E, NMPM				
Peridot 8 Federal No. 1H	391' FSL & 2538' FWL (N) Section 8	333' FSL & 298' FWL (Lot 4/M) Section 7		X
Peridot 8 Federal No. 2H	977' FSL & 2497' FWL (M) Section 8	991' FSL & 298' FWL (Lot 4/M) Section 7		X
Proposed 481.84-Acre Spacing Unit Comprising the S/2 of Section 7 & SW/4 of Section 8, T-17S, R-32E, NMPM				
Peridot 8 Federal No. 14H	2249' FSL & 2300' FWL (K) Section 8	2262' FSL & 323' FWL (Lot 3/L) Section 7	X	

 Unorthodox Well Location

PLAT DATE: 11/28/2022 3:18:08 PM. REVISION: 1. 2022 MAVERICK PERMAN, LLC - GEMSTONE WELL SKETCH. STANDARD WELL SKETCH. 20221128.001



Situated in
SECTIONS 04, 05, 06, 07 & 08 TOWNSHIP 17 SOUTH,
RANGE 32 EAST
LEA COUNTY, NEW MEXICO

GEMSTONE DEVELOPMENT
MAVERICK PERMAN, LLC
WELL SKETCH

MAVERICK
NATURAL RESOURCES

PRELIMINARY
(NOT TO BE RECORDED)

DATAPoint
SURVEYING & MAPPING

12450 Network Blvd. - Suite 300
San Antonio, TX 78249
Phone: 726-777-4240
Firm No. 10194585

DRAWN BY: JW	DATE: 11/28/2022	REV. 0
CHECKED BY: JH	DATE: 11/28/2022	
AFE #	SHEET 1 OF 1	

Maverick Natural Resources

Gemstone Project

Peridot Pad #1A

Peridot 8 Federal #004H

OH

Plan: Prelim D

Standard Planning Report

22 November, 2022

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

Project	Gemstone Project		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Peridot Pad #1A				
Site Position:		Northing:	678,712.00 usft	Latitude:	32.86458387
From:	Map	Easting:	710,797.00 usft	Longitude:	-103.78143066
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.30 °

Well	Peridot 8 Federal #004H					
Well Position	+N/-S	-5,338.00 usft	Northing:	673,374.00 usft	Latitude:	32.84993014
	+E/-W	-1,242.00 usft	Easting:	709,555.00 usft	Longitude:	-103.78556567
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,057.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	9/4/2022	6.65	60.63	47,851.20000000

Design	Prelim D			
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	269.84

Plan Survey Tool Program	Date	11/22/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,549.50 Prelim D (OH)	LEAM_MWD+HDGM	
			LEAM MWD + HDGM	

Plan Sections										
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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,089.01	11.78	263.13	2,084.86	-7.21	-59.90	2.00	2.00	0.00	263.13	
5,364.48	11.78	263.13	5,291.35	-87.16	-723.82	0.00	0.00	0.00	0.00	
6,147.49	90.00	269.84	5,748.00	-99.83	-1,284.84	10.00	9.99	0.86	6.85	LP (004H)
13,549.50	90.00	269.84	5,748.00	-120.15	-8,686.82	0.00	0.00	0.00	0.00	TD (004H)

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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
SHL (004H)									
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
867.00	0.00	0.00	867.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
1,045.00	0.00	0.00	1,045.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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	2.00	263.13	1,599.98	-0.21	-1.73	1.73	2.00	2.00	0.00
1,700.00	4.00	263.13	1,699.84	-0.83	-6.93	6.93	2.00	2.00	0.00
1,800.00	6.00	263.13	1,799.45	-1.88	-15.58	15.59	2.00	2.00	0.00
1,900.00	8.00	263.13	1,898.70	-3.33	-27.68	27.69	2.00	2.00	0.00
2,000.00	10.00	263.13	1,997.47	-5.20	-43.21	43.22	2.00	2.00	0.00
2,089.01	11.78	263.13	2,084.86	-7.21	-59.90	59.92	2.00	2.00	0.00
2,095.27	11.78	263.13	2,091.00	-7.37	-61.17	61.20	0.00	0.00	0.00
Tansill									
2,100.00	11.78	263.13	2,095.63	-7.48	-62.13	62.15	0.00	0.00	0.00
2,200.00	11.78	263.13	2,193.52	-9.92	-82.40	82.43	0.00	0.00	0.00
2,237.26	11.78	263.13	2,230.00	-10.83	-89.96	89.99	0.00	0.00	0.00
Yates									
2,300.00	11.78	263.13	2,291.42	-12.36	-102.67	102.71	0.00	0.00	0.00
2,400.00	11.78	263.13	2,389.31	-14.80	-122.94	122.98	0.00	0.00	0.00
2,500.00	11.78	263.13	2,487.20	-17.25	-143.21	143.26	0.00	0.00	0.00
2,548.83	11.78	263.13	2,535.00	-18.44	-153.11	153.16	0.00	0.00	0.00
Seven Rivers									
2,600.00	11.78	263.13	2,585.10	-19.69	-163.48	163.53	0.00	0.00	0.00
2,700.00	11.78	263.13	2,682.99	-22.13	-183.75	183.81	0.00	0.00	0.00
2,800.00	11.78	263.13	2,780.88	-24.57	-204.02	204.09	0.00	0.00	0.00
2,900.00	11.78	263.13	2,878.78	-27.01	-224.29	224.36	0.00	0.00	0.00
3,000.00	11.78	263.13	2,976.67	-29.45	-244.56	244.64	0.00	0.00	0.00
3,100.00	11.78	263.13	3,074.57	-31.89	-264.82	264.91	0.00	0.00	0.00
3,178.08	11.78	263.13	3,151.00	-33.80	-280.65	280.74	0.00	0.00	0.00
Queen									
3,200.00	11.78	263.13	3,172.46	-34.33	-285.09	285.19	0.00	0.00	0.00
3,300.00	11.78	263.13	3,270.35	-36.77	-305.36	305.46	0.00	0.00	0.00
3,400.00	11.78	263.13	3,368.25	-39.21	-325.63	325.74	0.00	0.00	0.00
3,500.00	11.78	263.13	3,466.14	-41.65	-345.90	346.02	0.00	0.00	0.00
3,600.00	11.78	263.13	3,564.04	-44.10	-366.17	366.29	0.00	0.00	0.00
3,639.80	11.78	263.13	3,603.00	-45.07	-374.24	374.36	0.00	0.00	0.00
Grayburg									

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)	
3,700.00	11.78	263.13	3,661.93	-46.54	-386.44	386.57	0.00	0.00	0.00	
3,800.00	11.78	263.13	3,759.82	-48.98	-406.71	406.84	0.00	0.00	0.00	
3,900.00	11.78	263.13	3,857.72	-51.42	-426.98	427.12	0.00	0.00	0.00	
3,928.89	11.78	263.13	3,886.00	-52.12	-432.83	432.98	0.00	0.00	0.00	
San Andres										
4,000.00	11.78	263.13	3,955.61	-53.86	-447.25	447.40	0.00	0.00	0.00	
4,100.00	11.78	263.13	4,053.50	-56.30	-467.52	467.67	0.00	0.00	0.00	
4,200.00	11.78	263.13	4,151.40	-58.74	-487.79	487.95	0.00	0.00	0.00	
4,300.00	11.78	263.13	4,249.29	-61.18	-508.05	508.22	0.00	0.00	0.00	
4,400.00	11.78	263.13	4,347.19	-63.62	-528.32	528.50	0.00	0.00	0.00	
4,500.00	11.78	263.13	4,445.08	-66.06	-548.59	548.78	0.00	0.00	0.00	
4,600.00	11.78	263.13	4,542.97	-68.50	-568.86	569.05	0.00	0.00	0.00	
4,700.00	11.78	263.13	4,640.87	-70.94	-589.13	589.33	0.00	0.00	0.00	
4,800.00	11.78	263.13	4,738.76	-73.39	-609.40	609.60	0.00	0.00	0.00	
4,900.00	11.78	263.13	4,836.65	-75.83	-629.67	629.88	0.00	0.00	0.00	
5,000.00	11.78	263.13	4,934.55	-78.27	-649.94	650.16	0.00	0.00	0.00	
5,100.00	11.78	263.13	5,032.44	-80.71	-670.21	670.43	0.00	0.00	0.00	
5,200.00	11.78	263.13	5,130.34	-83.15	-690.48	690.71	0.00	0.00	0.00	
5,300.00	11.78	263.13	5,228.23	-85.59	-710.75	710.98	0.00	0.00	0.00	
5,364.48	11.78	263.13	5,291.35	-87.16	-723.82	724.06	0.00	0.00	0.00	
5,400.00	15.31	264.74	5,325.88	-88.03	-732.09	732.33	10.00	9.94	4.52	
5,450.00	20.30	266.07	5,373.47	-89.23	-747.32	747.57	10.00	9.97	2.66	
5,463.42	21.64	266.32	5,386.00	-89.55	-752.12	752.36	10.00	9.98	1.90	
Glorieta										
5,500.00	25.29	266.89	5,419.55	-90.40	-766.65	766.90	10.00	9.98	1.55	
5,550.00	30.28	267.45	5,463.77	-91.55	-789.92	790.17	10.00	9.99	1.13	
5,551.42	30.42	267.46	5,465.00	-91.58	-790.64	790.89	10.00	9.99	0.95	
Paddock										
5,600.00	35.27	267.87	5,505.80	-92.64	-816.96	817.22	10.00	9.99	0.83	
5,650.00	40.27	268.19	5,545.31	-93.69	-847.56	847.82	10.00	9.99	0.65	
5,700.00	45.27	268.46	5,582.00	-94.68	-881.49	881.75	10.00	9.99	0.53	
5,750.00	50.26	268.68	5,615.60	-95.60	-918.48	918.75	10.00	9.99	0.45	
5,800.00	55.26	268.87	5,645.84	-96.44	-958.27	958.53	10.00	10.00	0.38	
5,850.00	60.26	269.05	5,672.51	-97.21	-1,000.54	1,000.81	10.00	10.00	0.34	
5,900.00	65.26	269.20	5,695.39	-97.89	-1,044.98	1,045.24	10.00	10.00	0.31	
5,950.00	70.26	269.34	5,714.31	-98.48	-1,091.24	1,091.51	10.00	10.00	0.28	
6,000.00	75.26	269.48	5,729.13	-98.97	-1,138.97	1,139.24	10.00	10.00	0.27	
6,050.00	80.25	269.60	5,739.73	-99.36	-1,187.82	1,188.09	10.00	10.00	0.26	
6,100.00	85.25	269.73	5,746.03	-99.65	-1,237.40	1,237.67	10.00	10.00	0.25	
6,147.49	90.00	269.84	5,748.00	-99.83	-1,284.84	1,285.11	10.00	10.00	0.24	
Target Line - LP (004H)										
6,200.00	90.00	269.84	5,748.00	-99.97	-1,337.35	1,337.62	0.00	0.00	0.00	
6,300.00	90.00	269.84	5,748.00	-100.25	-1,437.34	1,437.62	0.00	0.00	0.00	
6,400.00	90.00	269.84	5,748.00	-100.52	-1,537.34	1,537.62	0.00	0.00	0.00	
6,500.00	90.00	269.84	5,748.00	-100.80	-1,637.34	1,637.62	0.00	0.00	0.00	
6,600.00	90.00	269.84	5,748.00	-101.07	-1,737.34	1,737.62	0.00	0.00	0.00	
6,700.00	90.00	269.84	5,748.00	-101.35	-1,837.34	1,837.62	0.00	0.00	0.00	
6,800.00	90.00	269.84	5,748.00	-101.62	-1,937.34	1,937.62	0.00	0.00	0.00	
6,900.00	90.00	269.84	5,748.00	-101.90	-2,037.34	2,037.62	0.00	0.00	0.00	
7,000.00	90.00	269.84	5,748.00	-102.17	-2,137.34	2,137.62	0.00	0.00	0.00	
7,100.00	90.00	269.84	5,748.00	-102.44	-2,237.34	2,237.62	0.00	0.00	0.00	
7,200.00	90.00	269.84	5,748.00	-102.72	-2,337.34	2,337.62	0.00	0.00	0.00	
7,300.00	90.00	269.84	5,748.00	-102.99	-2,437.34	2,437.62	0.00	0.00	0.00	
7,400.00	90.00	269.84	5,748.00	-103.27	-2,537.34	2,537.62	0.00	0.00	0.00	

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)
7,500.00	90.00	269.84	5,748.00	-103.54	-2,637.34	2,637.62	0.00	0.00	0.00
7,600.00	90.00	269.84	5,748.00	-103.82	-2,737.34	2,737.62	0.00	0.00	0.00
7,700.00	90.00	269.84	5,748.00	-104.09	-2,837.34	2,837.62	0.00	0.00	0.00
7,800.00	90.00	269.84	5,748.00	-104.37	-2,937.34	2,937.62	0.00	0.00	0.00
7,900.00	90.00	269.84	5,748.00	-104.64	-3,037.34	3,037.62	0.00	0.00	0.00
8,000.00	90.00	269.84	5,748.00	-104.92	-3,137.34	3,137.62	0.00	0.00	0.00
8,100.00	90.00	269.84	5,748.00	-105.19	-3,237.34	3,237.62	0.00	0.00	0.00
8,200.00	90.00	269.84	5,748.00	-105.46	-3,337.34	3,337.62	0.00	0.00	0.00
8,300.00	90.00	269.84	5,748.00	-105.74	-3,437.34	3,437.62	0.00	0.00	0.00
8,400.00	90.00	269.84	5,748.00	-106.01	-3,537.34	3,537.62	0.00	0.00	0.00
8,500.00	90.00	269.84	5,748.00	-106.29	-3,637.34	3,637.62	0.00	0.00	0.00
8,600.00	90.00	269.84	5,748.00	-106.56	-3,737.34	3,737.62	0.00	0.00	0.00
8,700.00	90.00	269.84	5,748.00	-106.84	-3,837.34	3,837.62	0.00	0.00	0.00
8,800.00	90.00	269.84	5,748.00	-107.11	-3,937.34	3,937.62	0.00	0.00	0.00
8,900.00	90.00	269.84	5,748.00	-107.39	-4,037.34	4,037.62	0.00	0.00	0.00
9,000.00	90.00	269.84	5,748.00	-107.66	-4,137.33	4,137.62	0.00	0.00	0.00
9,100.00	90.00	269.84	5,748.00	-107.93	-4,237.33	4,237.62	0.00	0.00	0.00
9,200.00	90.00	269.84	5,748.00	-108.21	-4,337.33	4,337.62	0.00	0.00	0.00
9,300.00	90.00	269.84	5,748.00	-108.48	-4,437.33	4,437.62	0.00	0.00	0.00
9,400.00	90.00	269.84	5,748.00	-108.76	-4,537.33	4,537.62	0.00	0.00	0.00
9,500.00	90.00	269.84	5,748.00	-109.03	-4,637.33	4,637.62	0.00	0.00	0.00
9,600.00	90.00	269.84	5,748.00	-109.31	-4,737.33	4,737.62	0.00	0.00	0.00
9,700.00	90.00	269.84	5,748.00	-109.58	-4,837.33	4,837.62	0.00	0.00	0.00
9,800.00	90.00	269.84	5,748.00	-109.86	-4,937.33	4,937.62	0.00	0.00	0.00
9,900.00	90.00	269.84	5,748.00	-110.13	-5,037.33	5,037.62	0.00	0.00	0.00
10,000.00	90.00	269.84	5,748.00	-110.41	-5,137.33	5,137.62	0.00	0.00	0.00
10,100.00	90.00	269.84	5,748.00	-110.68	-5,237.33	5,237.62	0.00	0.00	0.00
10,200.00	90.00	269.84	5,748.00	-110.95	-5,337.33	5,337.62	0.00	0.00	0.00
10,300.00	90.00	269.84	5,748.00	-111.23	-5,437.33	5,437.62	0.00	0.00	0.00
10,400.00	90.00	269.84	5,748.00	-111.50	-5,537.33	5,537.62	0.00	0.00	0.00
10,500.00	90.00	269.84	5,748.00	-111.78	-5,637.33	5,637.62	0.00	0.00	0.00
10,600.00	90.00	269.84	5,748.00	-112.05	-5,737.33	5,737.62	0.00	0.00	0.00
10,700.00	90.00	269.84	5,748.00	-112.33	-5,837.33	5,837.62	0.00	0.00	0.00
10,800.00	90.00	269.84	5,748.00	-112.60	-5,937.33	5,937.62	0.00	0.00	0.00
10,900.00	90.00	269.84	5,748.00	-112.88	-6,037.33	6,037.62	0.00	0.00	0.00
11,000.00	90.00	269.84	5,748.00	-113.15	-6,137.33	6,137.62	0.00	0.00	0.00
11,100.00	90.00	269.84	5,748.00	-113.42	-6,237.33	6,237.62	0.00	0.00	0.00
11,200.00	90.00	269.84	5,748.00	-113.70	-6,337.33	6,337.62	0.00	0.00	0.00
11,300.00	90.00	269.84	5,748.00	-113.97	-6,437.33	6,437.62	0.00	0.00	0.00
11,400.00	90.00	269.84	5,748.00	-114.25	-6,537.33	6,537.62	0.00	0.00	0.00
11,500.00	90.00	269.84	5,748.00	-114.52	-6,637.33	6,637.62	0.00	0.00	0.00
11,600.00	90.00	269.84	5,748.00	-114.80	-6,737.33	6,737.62	0.00	0.00	0.00
11,700.00	90.00	269.84	5,748.00	-115.07	-6,837.32	6,837.62	0.00	0.00	0.00
11,800.00	90.00	269.84	5,748.00	-115.35	-6,937.32	6,937.62	0.00	0.00	0.00
11,900.00	90.00	269.84	5,748.00	-115.62	-7,037.32	7,037.62	0.00	0.00	0.00
12,000.00	90.00	269.84	5,748.00	-115.90	-7,137.32	7,137.62	0.00	0.00	0.00
12,100.00	90.00	269.84	5,748.00	-116.17	-7,237.32	7,237.62	0.00	0.00	0.00
12,200.00	90.00	269.84	5,748.00	-116.44	-7,337.32	7,337.62	0.00	0.00	0.00
12,300.00	90.00	269.84	5,748.00	-116.72	-7,437.32	7,437.62	0.00	0.00	0.00
12,400.00	90.00	269.84	5,748.00	-116.99	-7,537.32	7,537.62	0.00	0.00	0.00
12,500.00	90.00	269.84	5,748.00	-117.27	-7,637.32	7,637.62	0.00	0.00	0.00
12,600.00	90.00	269.84	5,748.00	-117.54	-7,737.32	7,737.62	0.00	0.00	0.00
12,700.00	90.00	269.84	5,748.00	-117.82	-7,837.32	7,837.62	0.00	0.00	0.00
12,800.00	90.00	269.84	5,748.00	-118.09	-7,937.32	7,937.62	0.00	0.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well Peridot 8 Federal #004H
Company:	Maverick Natural Resources	TVD Reference:	GE 4057' + KB 28 @ 4085.00usft
Project:	Gemstone Project	MD Reference:	GE 4057' + KB 28 @ 4085.00usft
Site:	Peridot Pad #1A	North Reference:	Grid
Well:	Peridot 8 Federal #004H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)
12,900.00	90.00	269.84	5,748.00	-118.37	-8,037.32	8,037.62	0.00	0.00	0.00
13,000.00	90.00	269.84	5,748.00	-118.64	-8,137.32	8,137.62	0.00	0.00	0.00
13,100.00	90.00	269.84	5,748.00	-118.91	-8,237.32	8,237.62	0.00	0.00	0.00
13,200.00	90.00	269.84	5,748.00	-119.19	-8,337.32	8,337.62	0.00	0.00	0.00
13,300.00	90.00	269.84	5,748.00	-119.46	-8,437.32	8,437.62	0.00	0.00	0.00
13,400.00	90.00	269.84	5,748.00	-119.74	-8,537.32	8,537.62	0.00	0.00	0.00
13,424.50	90.00	269.84	5,748.00	-119.81	-8,561.82	8,562.12	0.00	0.00	0.00
LTP (004H)									
13,500.00	90.00	269.84	5,748.00	-120.01	-8,637.32	8,637.62	0.00	0.00	0.00
13,549.50	90.00	269.84	5,748.00	-120.15	-8,686.82	8,687.12	0.00	0.00	0.00
TD (004H)									

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
SHL (004H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	673,374.00	709,555.00	32.84993014	-103.78556567
LP (004H) - plan hits target center - Point	0.00	0.00	5,748.00	-99.83	-1,284.84	673,274.17	708,270.16	32.84967400	-103.78975102
LTP (004H) - plan misses target center by 0.34usft at 13424.50usft MD (5748.00 TVD, -119.81 N, -8561.82 E) - Point	0.00	0.00	5,748.00	-120.15	-8,561.82	673,253.85	700,993.18	32.84971884	-103.81344649
TD (004H) - plan hits target center - Point	0.00	0.00	5,748.00	-120.15	-8,686.82	673,253.85	700,868.18	32.84972053	-103.81385351

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
867.00	867.00	Rustler			
1,045.00	1,045.00	Salado			
2,095.27	2,091.00	Tansill			
2,237.26	2,230.00	Yates			
2,548.83	2,535.00	Seven Rivers			
3,178.08	3,151.00	Queen			
3,639.80	3,603.00	Grayburg			
3,928.89	3,886.00	San Andres			
5,463.42	5,386.00	Glorieta			
5,551.42	5,465.00	Paddock			
6,147.49	5,748.00	Target Line			

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

CONDITIONS

Action 164465

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 164465
	Action Type: [UF-NSL] Non-Standard Location (NSL)

CONDITIONS

Created By	Condition	Condition Date
llowe	None	1/13/2023