<u>District I</u> 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

knowledge and belief.

⋈, if applicable. Signature:

Printed Name:

Email Address:

Title:

Date:

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

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

Electronically filed by Kay Maddox

kay_maddox@eogresources.com

Regulatory Agent

8/24/2022

I further certify I have complied with 19.15.14.9 (A) NMAC ⊠ and/or 19.15.14.9 (B) NMAC

Phone: 432-686-3658

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

Form C-101 August 1, 2011

Permit 324013

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

	ime and Address G RESOURCES I					ENTER, DEE	,			GRID Number 7377	
P.C). Box 2267 Iland, TX 79702								3. AF	PI Number 30-015-499	03
4. Property Co			5. Property Name						6. W	ell No.	
33	1158		SHER	PA 12 STATI	E COM					707H	
					7. Surf	ace Location					
UL - Lot	Section	Township	Range		Lot Idn	Feet From	N/S Line	Feet Fr		E/W Line	County
В	12	255	3	27E		631	N		1328	E	Edd
					8. Proposed B	ottom Hole Loc	ation				
JL - Lot	Section	Township	Range		Lot Idn	Feet From	N/S Line	Feet F		E/W Line	County
0	13	258	25S 27E O				8	3	2310	Е	Edo
					9. Poo	I Information					
PURPLE SA	GE;WOLFCAMP (GAS)								98220	
	,				A 1 11/1 - 1					I	
1. Work Type		12. Well Typ		112 0		Well Informatio	14. Lease Type		15 Cround	Level Elevation	
	w Well	,,	AS	13. Cable/Rotary			State			076	
16. Multiple		17. Proposed		18. Formation 19. Contractor					20. Spud Da		
N			9561	Wolfcamp						0/1/2022	
Depth to Grou	nd water			Distance from nearest fresh water well Dista					Distance to r	nearest surface water	r
_											
We will be	using a closed-lo	p system in lie	u of lined pits								
						ing and Cement					
Туре	Hole Size	Casing			Weight/ft		g Depth	Sa	cks of Cemen	t	Estimated TOC
Surf Int1	12.25	9.62			36		030 227		370 1460		0
Prod	8.75 6.75	7.62 5.5			9.7 17		9561		1020		7560
1100	0.73		<u>'</u>		1 /	18	,001		1020	I	7 300
				Casing	g/Cement Prog	ram: Additional	Comments				
				22.	Proposed Blov	vout Prevention	Program				
	Туре			22. Working		vout Prevention		Pressure		Mai	nufacturer

Approved By:

Approved Date:

Title:

OIL CONSERVATION DIVISION

Expiration Date: 8/26/2024

Katherine Pickford

Geoscientist

8/26/2022

Conditions of Approval Attached

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
81 I 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) 476-3466 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

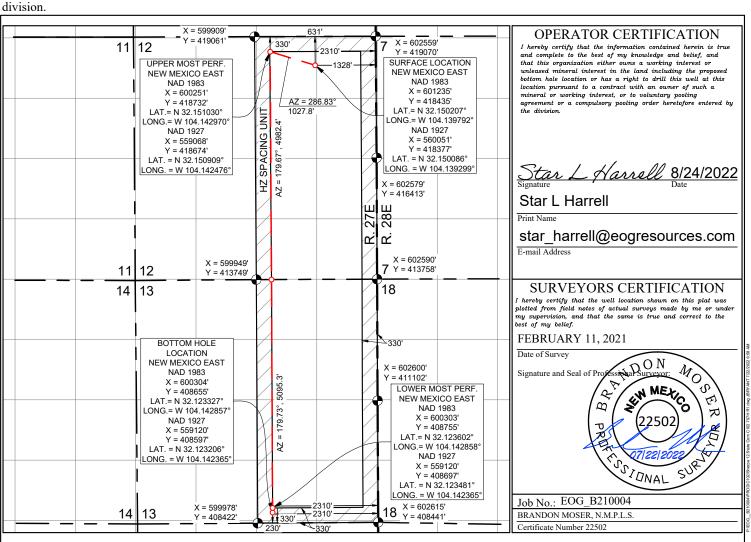
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

00.045	API Number 30-015- 49903			Pool Code 98220		Purple Sage; Wolfcamp (Gas)					
Property C					Property Name			Well Nur	nber		
3311	58			SHE	ERPA 12 STAT	E COM		707⊦	l		
OGRID N					Operator Name			Elevation			
7377				EO	G RESOURCE	RESOURCES, INC. 3076'					
	Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
В	12	25 S	27 E		631	NORTH	1328	EAST	EDDY		
			Botte	om Hole I	Location If Diffe	erent From Surfac	e				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
0	13	25 S	27 E		230	230 SOUTH 2310			EDDY		
Dedicated Acres	Joint or	Infill	Consolidated Cod	le Order	r No.	•	•		•		
640.00											

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



Permit 324013

Form APD Conditions

<u>District I</u> 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

drilling fluids and solids must be contained in a steel closed loop system

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

PERMIT CONDITIONS OF APPROVAL

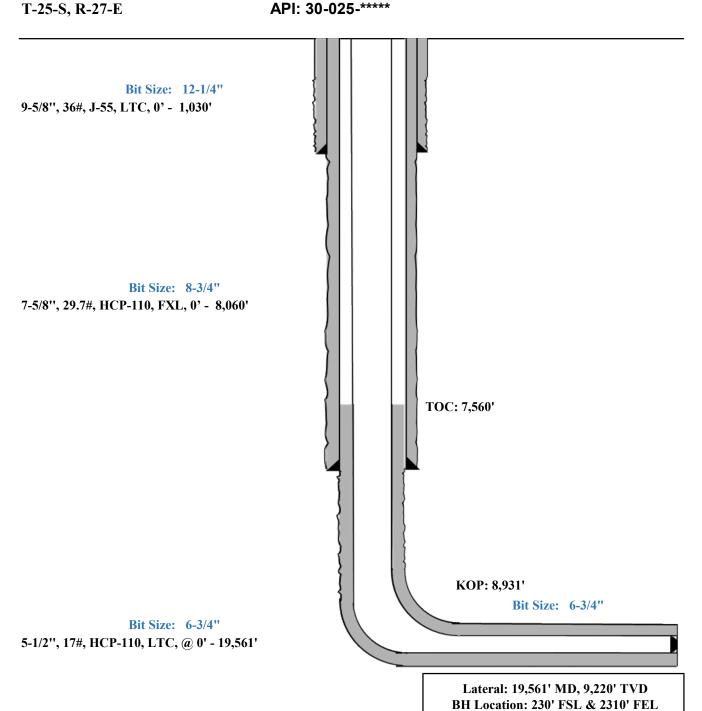
Operator N	lame and Address:	API Number:
	EOG RESOURCES INC [7377]	30-015-49903
	P.O. Box 2267	Well:
	Midland, TX 79702	SHERPA 12 STATE COM #707H
OCD	Condition	
Reviewer		
kpickford	Notify OCD 24 hours prior to casing & cement	
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud	
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface water zone or zones and shall immediately set in cement the water protection string	e, the operator shall drill without interruption through the fresh
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the	oil or diesel. This includes synthetic oils. Oil based mud,

Sherpa 12 State #707H **Eddy County, New Mexico Proposed Wellbore**

631' FNL 1328' FEL **Section 12**

KB: 3101' GL: 3076'

API: 30-025-****



Sec. 13 T-25-S R-27-E



Sherpa 12 State #707H

Permit Informatic

Well Name: Sherpa 12 State #707H

Location:

SHL: 631' FNL & 1328' FEL, Section 12, T-25-S, R-27-E, Eddy Co., N.M. BHL: 230' FSL & 2310' FEL, Section 13, T-25-S, R-27-E, Eddy Co., N.M.

Casing Program:

Hole	Interv	al MD	Interva	al TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	1,030	0	1,030	9-5/8"	36#	J-55	LTC
8-3/4"	0	8,227	0	8,060	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	19,561	0	9,220	5-1/2"	17#	HCP-110	LTC

Cement Program:

Cemen	i i i ugi aiii.			·
Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1.020	290	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
1,030'	80	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
9.0601	460	14.2	1.11	1st Stage (Tail): Class C + 5% Salt (TOC @ 4,144')
8,060'	1000	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
19,561'	1020	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C- 17 (TOC @ 7,560')

Mud Program:

Titua Trogrami.				
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,030'	Fresh - Gel	8.6-8.8	28-34	N/c
1,030' – 8,060'	Brine	10.0-10.2	28-34	N/c
8,060' - 8,931'	Oil Base	8.7-9.4	58-68	N/c - 6
8,931' – 19,561'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral				



Sherpa 12 State #707H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

■ H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.



Sherpa 12 State #707H

■ Mud program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

■ Communication:

Communication will be via cell phones and land lines where available.



Sherpa 12 State #707H Emergency Assistance Telephone List

PUBLIC SAFE	CTY:	1	911 or
Lea County She	riff's Department		(575) 396-3611
	Rod Coffman		
Fire Department	t:		
	Carlsbad		(575) 885-3125
	Artesia		(575) 746-5050
Hospitals:			
	Carlsbad		(575) 887-4121
	Artesia		(575) 748-3333
	Hobbs		(575) 392-1979
Dept. of Public	Safety/Carlsbad		(575) 748-9718
Highway Depar	tment		(575) 885-3281
New Mexico Oi	1 Conservation		(575) 476-3440
NMOCD Inspec	ction Group - South		(575) 626-0830
U.S. Dept. of La	abor		(575) 887-1174
EOG Resource	s, Inc.		
EOG / Midland		Office	(432) 686-3600
Company Drill	ing Consultants:		
David Dominqu	e	Cell	(985) 518-5839
Mike Vann		Cell	(817) 980-5507
Drilling Engine	er -		
Esteban Del Val		Cell	(432) 269-7063
Daniel Moose		Cell	(432) 312-2803
Drilling Manag	ger		
Aj Dach		Office	(432) 686-3751
·		Cell	(817) 480-1167
Drilling Superi	ntendent		
Jason Townsend		Office	(432) 848-9209
		Cell	(210) 776-5131
H&P Drilling			
H&P Drilling		Office	(432) 563-5757
H&P 651 Drillin	ng Rig	Rig	(903) 509-7131
Tool Pusher:			
Johnathan Craig	<u> </u>	Cell	(817) 760-6374
Brad Garrett			
Safety:			
Brian Chandler	(HSE Manager)	Office	(432) 686-3695
	()	Cell	(817) 239-0251
		Cen	(017) 237-0231



Midland

Eddy County, NM (NAD 83 NME) Sherpa 12 State Com #707H

OH

Plan: Plan #0.1

Standard Planning Report

17 August, 2022



Planning Report

Database: Company: PEDM

Midland

Project:

Eddy County, NM (NAD 83 NME)

Site: Sherpa 12 State Com

Well: Wellbore: Design:

#707H

OH Plan #0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #707H

kb @ 3101.0usft kb @ 3101.0usft

Grid

Minimum Curvature

Project

Eddy County, NM (NAD 83 NME)

Map System: Geo Datum:

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

System Datum:

Mean Sea Level

Map Zone:

Site

Sherpa 12 State Com

Site Position: From:

Well Position

Position Uncertainty

Мар

Northing: Easting:

418,435.00 usft 601,280.00 usft 13-3/16 "

Latitude: Longitude:

32° 9' 0.749 N 104° 8' 22.728 W

0.0 usft Slot Radius: **Position Uncertainty:**

Well #707H

> +N/-S +E/-W

0.0 usft 0.0 usft 0.0 usft

Northing: Easting: Wellhead Elevation: 418,435.00 usft 601,235.00 usft usft Latitude: Longitude: **Ground Level:**

32° 9' 0.750 N 104° 8' 23.252 W 3,076.0 usft

Grid Convergence:

ОН

Sample Date

0.10°

Declination (°)

Dip Angle

Magnetics **Model Name** Field Strength (°) (nT) IGRF2020 8/17/2022 6.66 59.71 47,272.42885430

Design

Wellbore

Plan #0.1

Audit Notes:

Version:

Vertical Section:

Phase:

PLAN

Tie On Depth:

0.0

Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 185.44

Plan Survey Tool Program

Date 8/17/2022

Depth From Depth To (usft)

(usft)

Survey (Wellbore)

Tool Name

Remarks

0.0

19,560.8 Plan #0.1 (OH) EOG MWD+IFR1 MWD + IFR1

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) Target 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 500.0 0.00 0.00 500.0 0.0 0.0 0.00 0.00 0.00 0.00 20.37 1,518.6 300.39 1,497.2 90.6 -154.6 2.00 2.00 0.00 300.39 4,023.4 20.37 300.39 3,845.4 531.7 -906.7 0.00 0.00 0.00 0.00 -984.0 4,532.6 0.00 0.00 4,344.0 577.0 4.00 -4.00 0.00 180.00 8,931.1 8,742.5 -984.0 0.00 KOP(sherpa 12 SC # 0.00 0.00 577.0 0.00 0.00 0.00 9,681.1 90.00 179.71 9,220.0 99.5 -981.6 12.00 12.00 23.96 179.71 19,560.8 9,220.0 -9,780.0 -931.0 0.00 90.00 179.71 0.00 0.00 0.00 PBHL(sherpa 12 SC #

Planning Report

Database: Company: PEDM

Company: Midland
Project: Eddy County, NM (NAD 83 NME)

Site: Sherpa 12 State Com Well: #707H

Wellbore: OH
Design: Plan #0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

kb @ 3101.0usft kb @ 3101.0usft

Grid Minimum Curvature

OH
Plan #0.1

Planned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
` '			, ,	, ,	, ,	, ,	,	•	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	2.00	300.39	600.0	0.9	-1.5	-0.7	2.00	2.00	0.00
700.0	4.00	300.39	699.8	3.5	-6.0	-2.9	2.00	2.00	0.00
800.0	6.00	300.39	799.5	7.9	-13.5	-6.6	2.00	2.00	0.00
900.0	8.00	300.39	898.7	14.1	-24.1	-11.8	2.00	2.00	0.00
1,000.0	10.00	300.39	997.5	22.0	-37.5	-18.4	2.00	2.00	0.00
1,100.0	12.00	300.39	1,095.6	31.7	-54.0	-26.4	2.00	2.00	0.00
1,200.0	14.00	300.39	1,193.1	43.0	-73.4	-35.9	2.00	2.00	0.00
1,300.0	16.00	300.39	1,289.6	56.1	-95.7	-46.8	2.00	2.00	0.00
1,400.0	18.00	300.39	1,385.3	70.9	-121.0	-59.1	2.00	2.00	0.00
1,500.0	20.00	300.39	1,479.8	87.4	-149.0	-72.9	2.00	2.00	0.00
1,518.6	20.37	300.39	1,497.2	90.6	-154.6	-75.6	2.00	2.00	0.00
1,600.0	20.37	300.39	1,573.6	105.0	-179.0	-87.5	0.00	0.00	0.00
1,700.0	20.37	300.39	1,667.3	122.6	-209.0	-102.2	0.00	0.00	0.00
1,800.0	20.37	300.39	1,761.1	140.2	-239.1	-116.9	0.00	0.00	0.00
1,900.0	20.37	300.39	1,854.8		-269.1	-131.6	0.00	0.00	0.00
2,000.0		300.39	1,948.6	157.8 175.4	-209.1	-131.6	0.00	0.00	
2,100.0	20.37		2,042.3		-329.1		0.00		0.00
2,100.0	20.37	300.39	2,042.3 2,136.1	193.0	-329.2 -359.2	-161.0 -175.6	0.00	0.00 0.00	0.00
2,300.0	20.37 20.37	300.39 300.39	2,130.1	210.6 228.2	-389.2	-175.6	0.00	0.00	0.00 0.00
2,300.0	20.37	300.39	2,229.0	220.2	-309.2	-190.3	0.00	0.00	0.00
2,400.0	20.37	300.39	2,323.5	245.8	-419.2	-205.0	0.00	0.00	0.00
2,500.0	20.37	300.39	2,417.3	263.4	-449.3	-219.7	0.00	0.00	0.00
2,600.0	20.37	300.39	2,511.0	281.1	-479.3	-234.4	0.00	0.00	0.00
2,700.0	20.37	300.39	2,604.8	298.7	-509.3	-249.1	0.00	0.00	0.00
2,800.0	20.37	300.39	2,698.5	316.3	-539.4	-263.7	0.00	0.00	0.00
2,900.0	20.37	300.39	2,792.3	333.9	-569.4	-278.4	0.00	0.00	0.00
3,000.0	20.37	300.39	2,886.0	351.5	-599.4	-293.1	0.00	0.00	0.00
3,100.0	20.37	300.39	2,979.8	369.1	-629.4	-307.8	0.00	0.00	0.00
3,200.0	20.37	300.39	3,073.5	386.7	-659.5	-322.5	0.00	0.00	0.00
3,300.0	20.37	300.39	3,167.3	404.3	-689.5	-337.2	0.00	0.00	0.00
3,400.0	20.37	300.39	3,261.0	421.9	-719.5	-351.8	0.00	0.00	0.00
3,500.0	20.37	300.39	3,354.7	439.5	-749.6	-366.5	0.00	0.00	0.00
3,600.0	20.37	300.39	3,448.5	457.1	-779.6	-381.2	0.00	0.00	0.00
3,700.0	20.37	300.39	3,542.2	474.7	-809.6	-395.9	0.00	0.00	0.00
3,800.0	20.37	300.39	3,636.0	492.4	-839.6	-410.6	0.00	0.00	0.00
3,900.0	20.37	300.39	3,729.7	510.0	-869.7	-425.3	0.00	0.00	0.00
4,000.0	20.37	300.39	3,823.5	527.6	-899.7	-439.9	0.00	0.00	0.00
4,023.4	20.37	300.39	3,845.4	531.7	-906.7	-443.4	0.00	0.00	0.00
4,100.0	17.31	300.39	3,917.9	544.2	-928.1	-453.8	4.00	-4.00	0.00
4,200.0	13.31	300.39	4,014.3	557.5	-950.8	-464.9	4.00	-4.00	0.00
4,300.0	9.31	300.39	4,112.4 4,211.5	567.5	-967.7	-473.2	4.00	-4.00 4.00	0.00
4,400.0	5.31	300.39		573.9	-978.7	-478.6	4.00	-4.00 4.00	0.00
4,500.0	1.31	300.39	4,311.4	576.8 577.0	-983.7	-481.0	4.00	-4.00 4.00	0.00
4,532.6	0.00	0.00 0.00	4,344.0	577.0	-984.0	-481.2	4.00	-4.00	0.00
4,600.0	0.00		4,411.4	577.0	-984.0	-481.2	0.00	0.00	0.00
4,700.0	0.00	0.00	4,511.4	577.0	-984.0	-481.2	0.00	0.00	0.00
4,800.0	0.00	0.00	4,611.4	577.0	-984.0	-481.2	0.00	0.00	0.00
4,900.0	0.00	0.00	4,711.4	577.0	-984.0	-481.2	0.00	0.00	0.00
5,000.0	0.00	0.00	4,811.4	577.0	-984.0	-481.2	0.00	0.00	0.00
-									

Planning Report

Database: Company:

Project:

PEDM Midland

Eddy County, NM (NAD 83 NME)

Site: Sherpa 12 State Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.1

9,225.0

9,250.0

9,275.0

35.26

38.26

41.26

179.71

179.71

179.71

9,018.1

9.038.2

9,057.4

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

kb @ 3101.0usft kb @ 3101.0usft

Grid Minimum Curvature

Planned Survey Measured Vertical Vertical Build Turn Doalea Depth Depth Section Inclination **Azimuth** +N/-S +E/-W Rate Rate Rate (°/100usft) (°/100usft) (°/100usft) (usft) (usft) (usft) (°) (°) (usft) (usft) 5,100.0 0.00 0.00 4,911.4 577.0 -984 N -481 2 0.00 0.00 0.00 5.200.0 0.00 0.00 5,011.4 577.0 -984.0 -481.2 0.00 0.00 0.00 5,111.4 -984.0 -481.2 0.00 0.00 5.300.0 0.00 0.00 577.0 0.00 5.400.0 0.00 0.00 5.211.4 577.0 -984.0 -481.2 0.00 0.00 0.00 5,500.0 0.00 0.00 5,311.4 577.0 -984.0 -481.2 0.00 0.00 0.00 5,600.0 0.00 0.00 5,411.4 577.0 -984.0 -481.2 0.00 0.00 0.00 5,700.0 0.00 0.00 5,511.4 577.0 -984.0 -481.2 0.00 0.00 0.00 5,800.0 0.00 0.00 5,611.4 577.0 -984.0 -481.2 0.00 0.00 0.00 5,900.0 0.00 0.00 5,711.4 577.0 -984.0 -481.2 0.00 0.00 0.00 6,000.0 0.00 0.00 5,811.4 577.0 -984.0-481.20.00 0.00 0.00 6,100.0 0.00 0.00 5.911.4 577.0 -984.0 -481.2 0.00 0.00 0.00 6,200.0 0.00 6,011.4 577.0 -481.2 0.00 0.00 0.00 -984.0 0.00 -984.0 6.300.0 0.00 0.00 6.111.4 577.0 -481.2 0.00 0.00 0.006,400.0 0.00 0.00 6,211.4 577.0 -984.0 -481.2 0.00 0.00 0.00 0.00 -984.0 -481.2 0.00 0.00 6.500.0 0.00 6.311.4 577.0 0.00 6,600.0 0.00 0.00 6,411.4 577.0 -984.0 -481.2 0.00 0.00 0.00 0.00 6,700.0 0.00 0.00 6,511.4 577.0 -984.0 -481.2 0.00 0.00 6,800.0 0.00 0.00 6,611.4 577.0 -984.0 -481.2 0.00 0.00 0.00 6,900.0 0.00 0.00 6,711.4 577.0 -984.0 -481.2 0.00 0.00 0.00 7,000.0 0.00 0.00 6,811.4 577.0 -984.0 -481.2 0.00 0.00 0.00 0.00 0.00 6,911.4 -984.0 -481.2 0.00 0.00 7,100.0 577.0 0.00 0.00 0.00 0.00 7,200.0 0.00 7.011.4 577.0 -984.0 -481.2 0.00 0.00 7,111.4 -984.0 -481.2 0.00 0.00 7,300.0 0.00 577.0 0.00 7.400.0 0.00 0.00 7.211.4 577.0 -984.0 -481.2 0.00 0.00 0.00 7,500.0 0.00 0.00 7,311.4 577.0 -984.0 -481.2 0.00 0.00 0.00 7,600.0 0.00 0.00 7.411.4 577.0 -984.0 -481.2 0.00 0.00 0.00 7,700.0 0.00 0.00 7,511.4 577.0 -984.0 -481.2 0.00 0.00 0.00 7,800.0 0.00 0.00 7,611.4 577.0 -984.0 -481.2 0.00 0.00 0.00 7,900.0 0.00 0.00 7,711.4 577.0 -984.0 -481.2 0.00 0.00 0.00 0.00 -481.2 0.00 0.000,8 0.00 7.811.4 577.0 -984.00.00 0.00 8,100.0 0.00 0.00 7,911.4 577.0 -984.0 -481.2 0.00 0.00 0.00 0.00 0.00 0.00 8,200.0 0.00 8,011.4 577.0 -984.0 -481.2 0.00 0.00 0.00 0.00 8.300.0 0.00 8.111.4 577.0 -984.0 -481.2 0.00 8,400.0 0.00 0.00 8,211.4 577.0 -984.0 -481.2 0.00 0.00 0.00 0.00 -984.0 0.00 8.500.0 0.00 8.311.4 -481.2 0.00 0.00 577.0 8,600.0 0.00 0.00 8,411.4 577.0 -984.0 -481.2 0.00 0.00 0.00 8,700.0 0.00 0.00 8,511.4 577.0 -984.0 -481.2 0.00 0.00 0.00 0.008,8 0.00 0.00 8,611.4 577.0 -984.0 -481.2 0.00 0.00 0.00 8,900.0 0.00 0.00 8,711.4 577.0 -984.0 -481.2 0.00 0.00 0.00 8,931.1 0.00 0.00 8,742.5 577.0 -984.0 -481.2 0.00 0.00 0.00 8,950.0 179.71 -984.0 -480.8 12.00 12.00 2.26 8,761.3 576.6 0.00 8,975.0 5.26 179.71 8,786.3 575.0 -984.0 -479.2 12.00 12.00 0.00 9,000.0 8.26 179.71 8.811.1 572.0 -984.0 -476.2 12.00 12.00 0.00 -984.0 12.00 9.025.0 11.26 179.71 8.835.7 567.8 -472.012.00 0.00 9,050.0 14.26 179.71 8,860.1 562.3 -983.9 -466.5 12.00 12.00 0.00 9,075.0 17.26 179.71 8,884.2 555.5 -983.9 -459.8 12.00 12.00 0.00 9,100.0 20.26 179.71 8,907.9 547.5 -983.8 12.00 12.00 0.00 -451.8 9,125.0 23.26 179.71 8,931.1 538.2 -983.8 -442.5 12.00 12.00 0.00 9,150.0 26.26 179.71 8,953.8 527.7 -983.7 -432.1 12.00 12.00 0.00 9,175.0 29.26 179.71 8,975.9 516.1 -983.7 -420.512.00 12.00 0.00 9,200.0 32.26 179.71 8,997.4 503.3 -983.6 -407.8 12.00 12.00 0.00

-983.6

-983.5

-983.4

-394.0

-379.1

-363.2

12.00

12.00

12.00

12.00

12.00

0.00

0.00

0.00

489.4

474.4

458.4

Planning Report

Database: PEDM Company: Midland

Project: Eddy County, NM (NAD 83 NME)

Site: Sherpa 12 State Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #707H kb @ 3101.0usft

kb @ 3101.0usft Grid

Minimum Curvature

Doorgin.									
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)
9,300.0 9,325.0	44.26 47.26	179.71 179.71	9,075.7 9,093.2	441.5 423.6	-983.3 -983.2	-346.3 -328.5	12.00 12.00	12.00 12.00	0.00 0.00
9,350.0	50.26	179.71	9,109.7	404.8	-983.1	-309.8	12.00	12.00	0.00
9,375.0	53.26	179.71	9,125.1	385.1	-983.0	-290.2	12.00	12.00	0.00
9,400.0	56.26	179.71	9,139.6	364.7	-982.9	-269.9	12.00	12.00	0.00
9,425.0	59.26	179.71	9,152.9	343.6	-982.8	-248.9	12.00	12.00	0.00
9,450.0	62.26	179.71	9,165.1	321.8	-982.7	-227.2	12.00	12.00	0.00
9,475.0	65.26	179.71	9,176.1	299.3	-982.6	-204.9	12.00	12.00	0.00
9,500.0 9,525.0	68.26 71.26	179.71 179.71	9,186.0 9,194.7	276.4 252.9	-982.5 -982.3	-182.0 -158.7	12.00 12.00	12.00 12.00	0.00 0.00
9,550.0	74.26	179.71	9,202.1	229.0	-962.3 -982.2	-134.9	12.00	12.00	0.00
9,575.0	77.26	179.71	9,208.2	204.8	-982.1	-110.8	12.00	12.00	0.00
9,600.0	80.26	179.71	9,213.1	180.3	-982.0	-86.4	12.00	12.00	0.00
9,625.0	83.26	179.71	9,216.7	155.6	-981.8	-61.8	12.00	12.00	0.00
9,650.0	86.26	179.71	9,218.9	130.7	-981.7	-37.0	12.00	12.00	0.00
9,675.0	89.26	179.71	9,219.9	105.7	-981.6	-12.2	12.00	12.00	0.00
9,681.1	90.00	179.71	9,220.0	99.5	-981.6	-6.1	12.00	12.00	0.00
9,700.0	90.00	179.71	9,220.0	80.7	-981.5	12.7	0.00	0.00	0.00
9,800.0	90.00	179.71	9,220.0	-19.3	-980.9	112.2	0.00	0.00	0.00
9,900.0	90.00	179.71	9,220.0	-119.3	-980.4	211.7	0.00	0.00	0.00
10,000.0	90.00	179.71	9,220.0	-219.3	-979.9	311.2	0.00	0.00	0.00
10,100.0	90.00	179.71	9,220.0	-319.3	-979.4	410.7	0.00	0.00	0.00
10,200.0	90.00	179.71	9,220.0	-419.3	-978.9	510.2	0.00	0.00	0.00
10,300.0	90.00	179.71	9,220.0	-519.3	-978.4	609.7	0.00	0.00	0.00
10,400.0	90.00	179.71	9,220.0	-619.3	-977.9	709.2	0.00	0.00	0.00
10,500.0 10,600.0	90.00 90.00	179.71 179.71	9,220.0 9,220.0	-719.3 -819.3	-977.4 -976.9	808.7 908.2	0.00 0.00	0.00 0.00	0.00 0.00
10,700.0	90.00	179.71	9,220.0	-919.3	-976.3	1,007.7	0.00	0.00	0.00
10,800.0	90.00	179.71	9,220.0	-1,019.3	-975.8	1,107.2	0.00	0.00	0.00
10,900.0	90.00	179.71	9,220.0	-1,119.3	-975.3	1,206.7	0.00	0.00	0.00
11,000.0	90.00	179.71	9,220.0	-1,219.3	-974.8	1,306.2	0.00	0.00	0.00
11,100.0	90.00	179.71	9,220.0	-1,319.3	-974.3	1,405.7	0.00	0.00	0.00
11,200.0	90.00	179.71	9,220.0	-1,419.3	-973.8	1,505.2	0.00	0.00	0.00
11,300.0	90.00	179.71	9,220.0	-1,519.3	-973.3	1,604.7	0.00	0.00	0.00
11,400.0 11,500.0	90.00 90.00	179.71 179.71	9,220.0 9,220.0	-1,619.3 -1,719.3	-972.8 -972.2	1,704.2 1,803.7	0.00 0.00	0.00 0.00	0.00 0.00
11,600.0	90.00	179.71	9,220.0	-1,819.3	-972.2 -971.7	1,903.7	0.00	0.00	0.00
11,700.0	90.00	179.71			-971.2	2,002.7	0.00	0.00	0.00
11,700.0	90.00	179.71 179.71	9,220.0 9,220.0	-1,919.3 -2,019.3	-971.2 -970.7	2,002.7 2,102.2	0.00	0.00	0.00
11,900.0	90.00	179.71	9,220.0	-2,119.3	-970.2	2,102.2	0.00	0.00	0.00
12,000.0	90.00	179.71	9,220.0	-2,219.3	-969.7	2,301.2	0.00	0.00	0.00
12,100.0	90.00	179.71	9,220.0	-2,319.3	-969.2	2,400.7	0.00	0.00	0.00
12,200.0	90.00	179.71	9,220.0	-2,419.3	-968.7	2,500.2	0.00	0.00	0.00
12,300.0	90.00	179.71	9,220.0	-2,519.3	-968.2	2,599.7	0.00	0.00	0.00
12,400.0	90.00	179.71	9,220.0	-2,619.3	-967.6	2,699.2	0.00	0.00	0.00
12,500.0	90.00	179.71	9,220.0	-2,719.3	-967.1	2,798.7	0.00	0.00	0.00
12,600.0	90.00	179.71	9,220.0	-2,819.3	-966.6	2,898.2	0.00	0.00	0.00
12,700.0	90.00	179.71	9,220.0	-2,919.3	-966.1	2,997.7	0.00	0.00	0.00
12,800.0	90.00	179.71	9,220.0	-3,019.3	-965.6	3,097.2	0.00	0.00	0.00
12,900.0	90.00	179.71	9,220.0	-3,119.3	-965.1	3,196.7	0.00	0.00	0.00
13,000.0	90.00	179.71 170.71	9,220.0	-3,219.3	-964.6	3,296.2	0.00	0.00	0.00
13,100.0	90.00	179.71	9,220.0	-3,319.3	-964.1	3,395.7	0.00	0.00	0.00
13,200.0	90.00	179.71	9,220.0	-3,419.3	-963.5	3,495.2	0.00	0.00	0.00
13,300.0	90.00	179.71	9,220.0	-3,519.3	-963.0	3,594.7	0.00	0.00	0.00

Planning Report

Database: Pi Company: M

PEDM Midland

Project: Eddy County, NM (NAD 83 NME)

Site: Sherpa 12 State Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

kb @ 3101.0usft kb @ 3101.0usft

Grid

Minimum Curvature

isign:									
anned 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)
13,400.0	90.00	179.71	9,220.0	-3,619.3	-962.5	3,694.2	0.00	0.00	0.00
13,500.0	90.00	179.71	9,220.0	-3,719.3	-962.0	3,793.7	0.00	0.00	0.00
13,600.0	90.00	179.71	9,220.0	-3,819.3	-961.5	3,893.2	0.00	0.00	0.00
40.700.0	00.00	470.74	0.000.0	2.040.2	004.0	2.000.7	0.00	0.00	0.00
13,700.0	90.00	179.71	9,220.0	-3,919.3	-961.0	3,992.7	0.00	0.00	0.00
13,800.0	90.00	179.71	9,220.0	-4,019.3	-960.5	4,092.2	0.00	0.00	0.00
13,900.0	90.00	179.71	9,220.0	-4,119.3	-960.0	4,191.7	0.00	0.00	0.00
14,000.0	90.00	179.71	9,220.0	-4,219.3	-959.5	4,291.2	0.00	0.00	0.00
14,100.0	90.00	179.71	9,220.0	-4,319.3	-958.9	4,390.7	0.00	0.00	0.00
14,200.0	90.00	179.71	9,220.0	-4,419.3	-958.4	4,490.2	0.00	0.00	0.00
14,300.0	90.00	179.71	9,220.0	-4,519.2	-957.9	4,589.7	0.00	0.00	0.00
14,400.0	90.00	179.71	9,220.0	-4,619.2	-957.4	4,689.2	0.00	0.00	0.00
14,500.0	90.00	179.71	9,220.0	-4,719.2	-956.9	4,788.7	0.00	0.00	0.00
14,600.0	90.00	179.71	9,220.0	-4,819.2	-956.4	4,888.2	0.00	0.00	0.00
14,700.0	90.00	179.71	9,220.0	-4,919.2	-955.9	4,987.7	0.00	0.00	0.00
14,800.0	90.00	179.71	9,220.0	-5,019.2	-955.4	5,087.2	0.00	0.00	0.00
14,900.0	90.00	179.71	9,220.0	-5,119.2	-954.9	5,186.7	0.00	0.00	0.00
15,000.0	90.00	179.71	9,220.0	-5,219.2	-954.3	5,286.2	0.00	0.00	0.00
15,100.0	90.00	179.71	9,220.0	-5,319.2	-953.8	5,385.7	0.00	0.00	0.00
15,200.0	90.00	179.71	9,220.0	-5,419.2	-953.3	5,485.2	0.00	0.00	0.00
15,300.0	90.00	179.71	9,220.0	-5,519.2	-952.8	5,584.7	0.00	0.00	0.00
15,400.0	90.00	179.71	9,220.0	-5,619.2	-952.3	5,684.2	0.00	0.00	0.00
15,500.0	90.00	179.71	9,220.0	-5,719.2	-951.8	5,783.7	0.00	0.00	0.00
15,600.0	90.00	179.71	9,220.0	-5,819.2	-951.3	5,883.2	0.00	0.00	0.00
15,700.0	90.00	179.71	9,220.0	-5,919.2	-950.8	5,982.7	0.00	0.00	0.00
15,800.0	90.00	179.71	9,220.0	-6,019.2	-950.2	6,082.2	0.00	0.00	0.00
15,900.0	90.00	179.71	9,220.0	-6,119.2	-949.7	6,181.7	0.00	0.00	0.00
16,000.0	90.00	179.71	9,220.0	-6,219.2	-949.2	6,281.2	0.00	0.00	0.00
16,100.0	90.00	179.71	9,220.0	-6,319.2	-948.7	6,380.7	0.00	0.00	0.00
16,200.0	90.00	179.71	9,220.0	-6,419.2	-948.2	6,480.2	0.00	0.00	0.00
16,300.0	90.00	179.71	9,220.0	-6,519.2	-947.7	6,579.7	0.00	0.00	0.00
	90.00	179.71	9,220.0		-947.7 -947.2				
16,400.0	90.00	179.71		-6,619.2	-947.2 -946.7	6,679.2 6,778.7	0.00	0.00 0.00	0.00
16,500.0			9,220.0	-6,719.2			0.00		0.00
16,600.0	90.00	179.71	9,220.0	-6,819.2	-946.2	6,878.2	0.00	0.00	0.00
16,700.0	90.00	179.71	9,220.0	-6,919.2	-945.6	6,977.7	0.00	0.00	0.00
16,800.0	90.00	179.71	9,220.0	-7,019.2	-945.1	7,077.2	0.00	0.00	0.00
16,900.0	90.00	179.71	9,220.0	-7,119.2	-944.6	7,176.7	0.00	0.00	0.00
17,000.0	90.00	179.71	9,220.0	-7,219.2	-944.1	7,276.2	0.00	0.00	0.00
17,100.0	90.00	179.71	9,220.0	-7,319.2	-943.6	7,375.7	0.00	0.00	0.00
	00.00			-7,419.2			0.00		0.00
17,200.0	90.00	179.71	9,220.0		-943.1	7,475.2	0.00	0.00	0.00
17,300.0	90.00	179.71	9,220.0	-7,519.2	-942.6	7,574.7	0.00	0.00	0.00
17,400.0	90.00	179.71	9,220.0	-7,619.2	-942.1	7,674.2	0.00	0.00	0.00
17,500.0	90.00	179.71	9,220.0	-7,719.2	-941.5	7,773.7	0.00	0.00	0.00
17,600.0	90.00	179.71	9,220.0	-7,819.2	-941.0	7,873.2	0.00	0.00	0.00
17,700.0	90.00	179.71	9,220.0	-7,919.2	-940.5	7,972.7	0.00	0.00	0.00
17,800.0	90.00	179.71	9,220.0	-8,019.2	-940.0	8,072.2	0.00	0.00	0.00
17,900.0	90.00	179.71	9,220.0	-8,119.2	-939.5	8,171.7	0.00	0.00	0.00
18,000.0	90.00	179.71	9,220.0	-8,219.2	-939.0	8,271.2	0.00	0.00	0.00
18,100.0	90.00	179.71	9,220.0	-8,319.2	-938.5	8,370.7	0.00	0.00	0.00
						,			
18,200.0	90.00	179.71	9,220.0	-8,419.2	-938.0	8,470.2	0.00	0.00	0.00
18,300.0	90.00	179.71	9,220.0	-8,519.2	-937.5	8,569.7	0.00	0.00	0.00
18,400.0	90.00	179.71	9,220.0	-8,619.2	-936.9	8,669.2	0.00	0.00	0.00
18,500.0	90.00	179.71	9,220.0	-8,719.2	-936.4	8,768.7	0.00	0.00	0.00
18,600.0	90.00	179.71	9,220.0	-8,819.2	-935.9	8,868.2	0.00	0.00	0.00
18,700.0	90.00	179.71	9,220.0	-8,919.2	-935.4	8,967.7	0.00	0.00	0.00

Planning Report

Database: Company: PEDM

Midland

Project: Site:

Eddy County, NM (NAD 83 NME) Sherpa 12 State Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #707H

kb @ 3101.0usft kb @ 3101.0usft

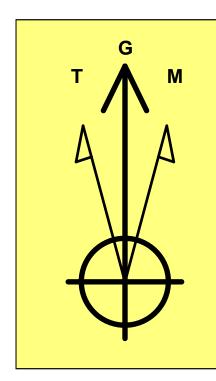
Grid

Minimum Curvature

nned 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)
18,800.0	90.00	179.71	9,220.0	-9,019.2	-934.9	9,067.2	0.00	0.00	0.00
18,900.0	90.00	179.71	9,220.0	-9,119.2	-934.4	9,166.7	0.00	0.00	0.00
19,000.0	90.00	179.71	9,220.0	-9,219.2	-933.9	9,266.2	0.00	0.00	0.00
19,100.0	90.00	179.71	9,220.0	-9,319.2	-933.4	9,365.7	0.00	0.00	0.00
19,200.0	90.00	179.71	9,220.0	-9,419.2	-932.8	9,465.2	0.00	0.00	0.00
19,300.0	90.00	179.71	9,220.0	-9,519.2	-932.3	9,564.7	0.00	0.00	0.00
19,400.0	90.00	179.71	9,220.0	-9,619.2	-931.8	9,664.2	0.00	0.00	0.00
19,500.0	90.00	179.71	9,220.0	-9,719.2	-931.3	9,763.7	0.00	0.00	0.00
19,560.8	90.00	179.71	9,220.0	-9,780.0	-931.0	9,824.2	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
KOP(sherpa 12 SC #707 - plan hits target cent - Point	0.00 er	0.00	8,742.5	577.0	-984.0	419,012.00	600,251.00	32° 9' 6.477 N	104° 8' 34.686 W
PBHL(sherpa 12 SC #70 - plan hits target cent - Point	0.00 er	0.00	9,220.0	-9,780.0	-931.0	408,655.00	600,304.00	32° 7' 23.982 N	104° 8' 34.282 W
FTP(sherpa 12 SC #707 - plan misses target c - Point	0.00 center by 114.	0.00 9usft at 9520	9,301.0 0.4usft MD (9	297.0 9193.2 TVD, 2	-984.0 257.3 N, -982.4	418,732.00 4 E)	600,251.00	32° 9' 3.706 N	104° 8' 34.692 W





Azimuths to Grid North
True North: -0.10°
Magnetic North: 6.56°

Magnetic Field
Strength: 47272.4nT
Dip Angle: 59.71°
Date: 8/17/2022
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.56° To convert a Magnetic Direction to a True Direction, Add 6.66° East To convert a True Direction to a Grid Direction, Subtract 0.10°

Eddy County, NM (NAD 83 NME)

Sherpa 12 State Com #707H

Plan #0.1

PROJECT DETAILS: Eddy County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

WELL DETAILS: #707H

3076.0

kb @ 3101.0usft

Northing Easting Latittude 418435.00 601235.00 32° 9' 0.750 N

Longitude 104° 8' 23.252 W

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1518.6	20.37	300.39	1497.2	90.6	-154.6	2.00	300.39	-75.6	
4	4023.4	20.37	300.39	3845.4	531.7	-906.7	0.00	0.00	-443.4	
5	4532.6	0.00	0.00	4344.0	577.0	-984.0	4.00	180.00	-481.2	
6	8931.1	0.00	0.00	8742.5	577.0	-984.0	0.00	0.00	-481.2	KOP(sherpa 12 SC #707H)
7	9681.1	90.00	179.71	9220.0	99.5	-981.6	12.00	179.71	-6.1	,
8	19560.8	90.00	179.71	9220.0	-9780.0	-931.0	0.00	0.00	9824.2	PBHL(sherpa 12 SC #707H)

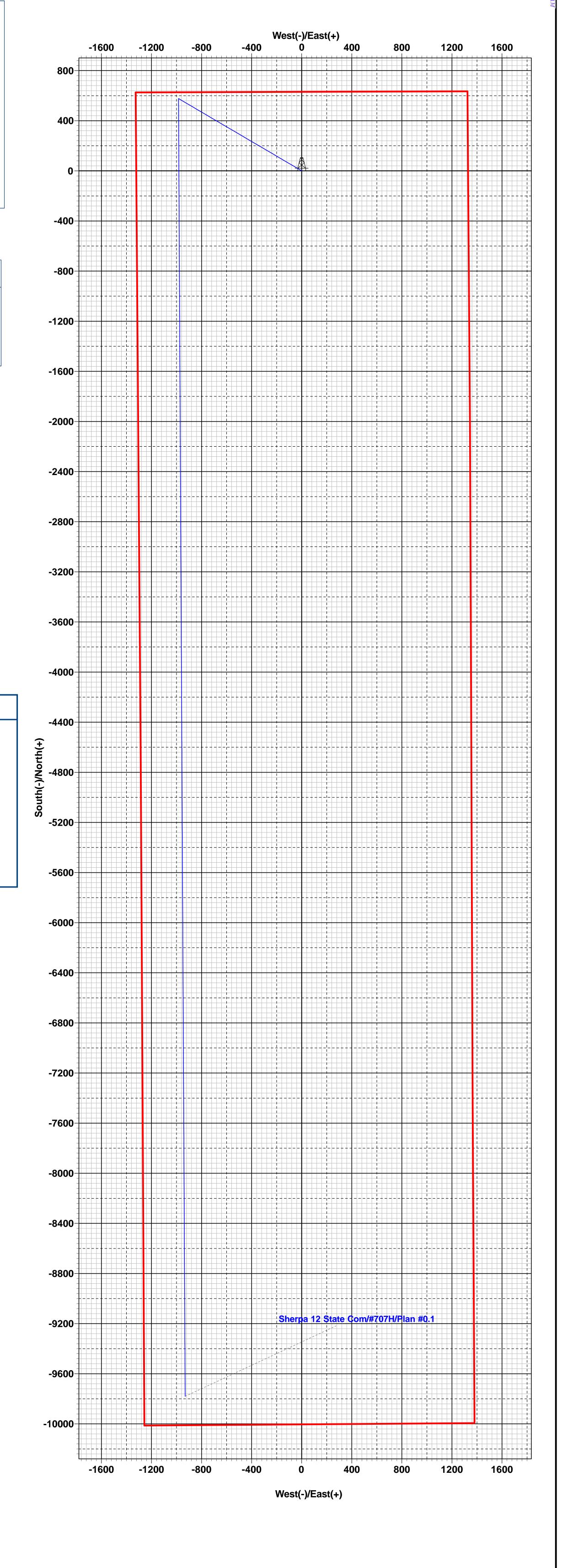
CASING DETAILS

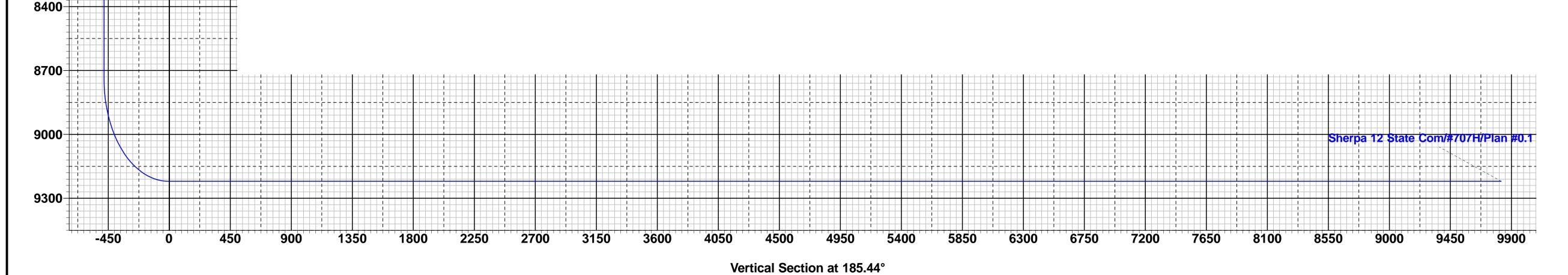
No casing data is available

<u>8</u> 4800

7500

WELLBORE TARGET DETAILS (MAP CO-ORDINATES) TVD Northing **Easting KOP(sherpa 12 SC #707H)** 600251.00 8742.5 577.0 419012.00 PBHL(sherpa 12 SC #707H) FTP(sherpa 12 SC #707H) -9780.0 297.0 408655.00 9220.0 600304.00 9301.0 -984.0 418732.00 600251.00





Eddy County, NM (NAD 83 NME) Sherpa 12 State Com #707H OH Plan #0.1 14:22, August 17 2022

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:EOG	Resources, Inc	OGRII): 7377		Da	te: 8/24	/2022	
II. Type: ⊠ Origina	l □ Amendm	ent due to □ 19.15.	.27.9.D(6)(a) NM	MAC □ 19.15.27.	9.D(6)(b) NMAC	□ Oth	ner.
If Other, please describe	:							
III. Well(s): Provide the be recompleted from a s					wells pro	oposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D		Anticipated roduced Water BBL/D
Sherpa 12State Com 707H		B-12-25S-27E	631' FNL & 1328' FEL	+/- 1000	+/- 3500		+/- 3000	
V. Anticipated Schedor proposed to be recom Well Name	ıle: Provide th	e following informa	ation for each ne	w or recompleted	l well or nt.		lls prop Flow	
Sherpa 12State Com 707H		10/1/22	10/15/22	12/01/22		01/01/23		02/01/23
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Management during active and planne	tices: Attacof 19.15.27.8	ch a complete descr NMAC. ⊠ Attach a comple	ription of the act	ions Operator wi	ll take to	comply	with tl	he requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

XII. Line Capacity. The natural	gas gathering system [□ will □ will	not have capacity t	o gather 1	100% of the	e anticipated	natural ga
production volume from the well	prior to the date of first	production.					

VIII I in a Description On contain Distance Distance and continued that its conjection could be a second of the containing of the conjection of the conjecti	
XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to	
natural gas gathering system(s) described above will continue to meet anticipated increases in line	e pressure caused by the new well(s)

	Attach (Operator'	a nlan t	o monoge	nroduction	in rocnone	e to the inci	oncod lina r	roccuro
- 1	Amach (Operator	s nian i	o manage	e production	in respons	e to the inci	eased line r	ressure

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

(i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; (c) compression on lease; (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; (h) fuel cell production; and

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Star L Harrell
Printed Name: Star L Harrell
Title: Sr Regulatory Specialist
E-mail Address: Star_Harrell@eogresources.com
Date: 8/24/2022
Phone: (432) 848-9161
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan Items VI-VIII

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

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

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

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All plunger lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 Mcfd.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses with be installed.

• When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

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

- During downhole well maintenance, EOG will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.