Form C-101

August 1, 2011 Permit 297377

Manufacturer

<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

Type

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

	me and Address G RESOURCES IN	IC							2. OGR	ID Number 7377		
	. Box 2267 land, TX 79702								3. API N	lumber 30-025-49158	3	
4. Property Cod 331		5. Pro	perty Name GRACE 16 STA	ГЕ СОМ					6. Well	No. 501H		
				7. Surfa	ace Location							
JL - Lot P	Section 16	Township 18S	Range 33E	Lot Idn P	Feet From 870	N/S	Line S	Feet F	rom 325	E/W Line E	County	Lea
				8. Proposed B	ottom Hole Loca	tion						
JL - Lot A	Section 16	Township 18S	Range 33E	Lot Idn A	Feet From 100	N/S	Line N	Feet F	rom 330	E/W Line E	County	Lea
				9. Pool	Information							
MESCALERO	ESCARPE;BONE	SPRING								45793	3	
				Additional	Well Information	1						
1. Work Type Nev	v Well	12. Well Type OIL	13. C				14. Lease Type 15. State		15. Ground Le	evel Elevation		
6. Multiple N		17. Proposed Depth 14453	18. F	18. Formation 19. Contractor 20 Bone Spring				20. Spud Date 7/15/2021				
Depth to Groun	id water		Dista	nce from nearest fres	sh water well				Distance to ne	arest surface water		
We will be u	using a closed-loc	pp system in lieu of l	ined pits					1				
				I. Proposed Casi								
Туре	Hole Size	Casing Size	Casi	ng Weight/ft	Setting	•			of Cement		Estimated	TOC
Surf	13.5	10.75		40.5	17				590		0	
Int1 Prod	9.875 7.875	8.75 5.5		38.5 17		0719 1453			830 2120		0 8695	
					ram: Additional (ı			•		

22. Proposed Blowout Prevention Program

Test Pressure

Working Pressure

Double Ram	3000	3000	
23. I hereby certify that the information given ab	ove is true and complete to the best of my	OIL CONSERVATION	ON DIVISION
knowledge and belief.			
I further certify I have complied with 19.15.14.	9 (A) NMAC 🗵 and/or 19.15.14.9 (B) NMAC		

I further certify I iii applicable. Signature:		NMAC ⊠ and/or 19.15.14.9 (B) NMAC			
Printed Name:	Electronically filed by Kay Maddo	(Approved By:	Paul F Kautz	
Title:	Regulatory Agent		Title:	Geologist	
Email Address:	kay_maddox@eogresources.co	m	Approved Date:	7/8/2021	Expiration Date: 7/8/2023
Date:	6/16/2021	Conditions of App	roval Attached		

DISTRICT I
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DISTRICT II
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Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 343-6178 Fax: (305) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3406 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

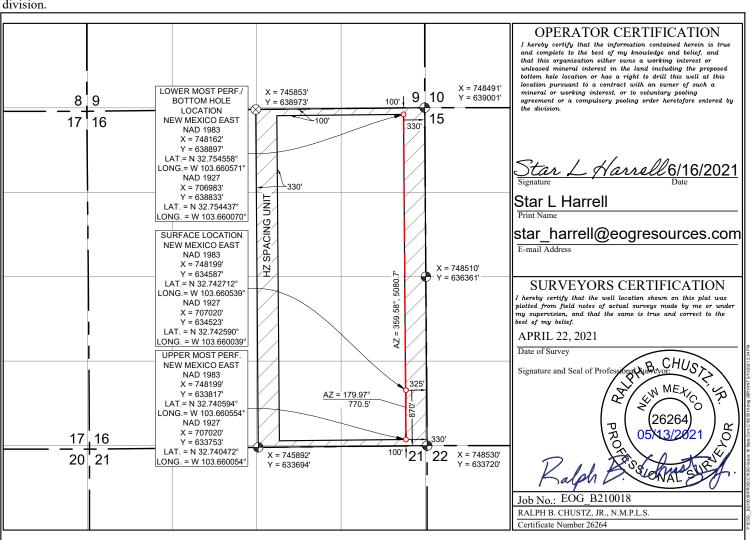
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-	PI Number -49158		13160 CORBIN; BONE SPRING, SOU						
Property C	Code Property Name Well Number							nber	
331180)			GF	RACE 16 STAT	E COM		501H	l
OGRID N					Operator Name			Elevation	on
7377				EO	G RESOURCE	S, INC.		3868	3'
					Surface Locat	ion		•	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	16	18 S	33 E		870	SOUTH	325	EAST	LEA
			Bott	om Hole l	Location If Diff	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
A	16	18 S	33 E		100	NORTH	330	EAST	LEA
Dedicated Acres	Joint or	Infill	Consolidated Co	de Orde	r No.				
320.00									

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.



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

GAS CA	PTURE PI	LAN

Date: 7/8/2021		
☑ Original ☐ Amended - Reason for	Operator & OGRID No.:	[7377] EOG RESOURCES INC
Amendment:		

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity. Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility - Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	MCF/D	Flared or Vented	Comments
GRACE 16 STATE COM	30-025-	P-16-18S-	0870S			CTB already connected to EOG low pressure gathering system. MMCF/D is +/- Gather: EOG Resources
#501H	49158	33E	0325E			to Valor Compressor Station

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility	after flowback operations are c	omplete, if gas transpo	rter system is in place. The	ne gas produced from product	ion facility is dedicated to
EOG RESOURCES INC and will be connected	ed to EOG RESOURCES INC	Low Pressure	gathering system located	d in Lea County, l	New Mexico. It will require
0' of pipeline to connect the facility to	ow Pressure gathering	system. EOG RESOU	RCES INC provides (pe	eriodically) to EOG RESOUR	CES INC a drilling,
completion and estimated first production date	or wells that are scheduled to b	e drilled in the foresee	able future. In addition, [OG RESOURCES INC and	EOG RESOURCES INC
have periodic conference calls to discuss chan	ges to drilling and completion s	chedules. Gas from the	ese wells will be process	ed at EOG RESOURCES INC	Processing Plant located
in Sec. 13, Twn. 24S, Rng. 33E, Lea	County, New Mexico.	The actual flow of the g	as will be based on com	pression operating parameter	s and gathering system
pressures.					

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on EOG RESOURCES INC system at that time. Based on current information, it is EOG RESOURCES INC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- · Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - · Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Form APD Conditions

Permit 297377

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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 **Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

State of New Mexico

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377]	30-025-49158
P.O. Box 2267	Well:
Midland, TX 79702	GRACE 16 STATE COM #501H

OCD	Condition
Reviewer	
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh
ľ	water zone or zones and shall immediately set in cement the water protection string
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

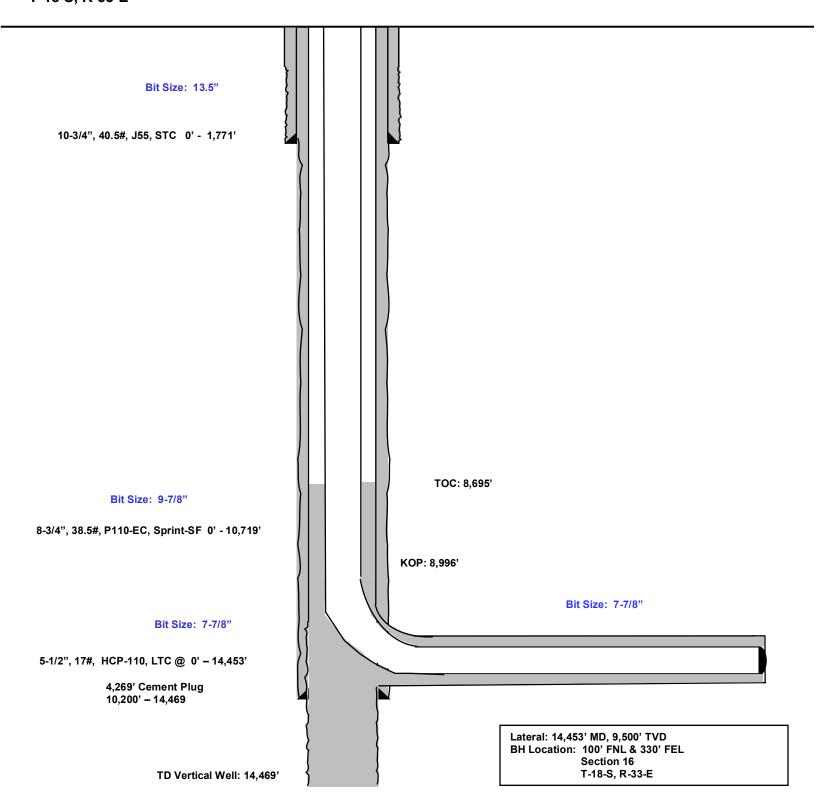
Grace 16 State Com #501H Lea County, New Mexico

Proposed Wellbore

870' FSL 325' FEL Section 16 T-18-S, R-33-E

API: 30-025-****

KB: 3,893' GL: 3,868'



EOG RESOURCES, INC. Grace 16 State Com #501H

Permit Information:

Well Name: Grace 16 State Com #501H

Location:

SHL: 870' FSL & 325' FEL, Section 16, T-18-S, R-33-E, Lea Co., N.M. BHL: 100' FNL & 330' FEL, Section 16, T-18-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
13.5"	0'-1,771'	10.75"	40.5#	J-55	STC	1.125	1.25	1.60
9.875"	0'-10,719'	8.75"	38.5#	P-110EC	TLW	1.125	1.25	1.60
7.875"	0' – 14,453'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft ³ /ft	Slurry Description
1,771'	500	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl2 + 0.25
				lb/sk Cello-Flake (TOC @ Surface)
	90	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate
10,719'	580	12.7	2.22	1st Stage (Tail): Class C + 5% Salt
	250	14.4	1.20	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1%
				PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
10,719' –	1120	14.5	1.20	4250' Pilot Plug – Class H + 0.1% C-20 + 0.05% CSA-1000 +
14,469'				0.20% C-49 + 0.40%
Pilot				
14,453'	1000	14.4	1.20	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 +
				0.40% C-17 (TOC @ 8,695')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0'-1,771'	Fresh - Gel	8.6-8.8	28-34	N/c
1,771' – 10,719'	Brine	8.6-8.8	28-34	N/c
10,719' – 14,469'	Oil Base	10.0-13	58-68	3 - 6
Pilot Hole				
9,896 – 14,453'	Oil Base	8.8-10.0	40-42	8-10
Lateral				

EOG RESOURCES, INC. Grace 16 State Com #501H 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.
- Mud program:

EOG RESOURCES, INC. Grace 16 State Com #501H

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.

EOG RESOURCES, INC. Grace 16 State Com #501H Emergency Assistance Telephone List

PUBLIC SAFETY:	911 or
Lea County Sheriff's Department	(575) 396-3611
Rod Coffman	` ,
Fire Department:	
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 Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174
EOG Resources, Inc.	
EOG / Midland	Office (432) 686-3600
2007 Malana	(152) 666 5666
Company Drilling Consultants:	
David Dominque	Cell (985) 518-5839
Mike Vann	Cell (817) 980-5507
Drilling Engineer	
Daniel Moose	Office (432) 686-3609
Daniel Woose	Cell (432) 894-1256
Drilling Manager	(132) 071 1230
Aj Dach	Office (432) 686-3751
Ty Duch	Cell (817) 480-1167
Drilling Superintendent	(617) 400 1107
Jason Townsend	Office (432) 848-9209
Justin Townsend	Cell (210) 776-5131
H&P Drilling	(210) // 0 3131
H&P Drilling	Office (432) 563-5757
H&P 651 Drilling Rig	Rig (903) 509-7131
Ther 031 Diffilling Rig	rdg (703) 307 /131
Tool Pusher:	
Johnathan Craig	Cell (817) 760-6374
Brad Garrett	,
Safety	
Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251



Midland

Lea County, NM (NAD 83 NME) Grace 16 State Com #501H

OH

Plan: Plan #0.1

Standard Planning Report

03 June, 2021

Planning Report

Database: Company: PEDM

Midland

Project:

Site:

Lea County, NM (NAD 83 NME) Grace 16 State Com

Well: #501H

Wellbore: OH Plan #0.1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #501H

KB = 25' @ 3893.0usft KB = 25' @ 3893.0usft

Grid

Minimum Curvature

Project

Lea County, NM (NAD 83 NME)

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 System Datum:

Mean Sea Level

Map Zone:

New Mexico Fastern Zone

Site Site Position:

Well Position

Wellbore

Well

Grace 16 State Com

From:

Мар

Northing: Easting:

634,587.00 usft 748,199.00 usft Latitude: Longitude:

32.7427113°N 103.6605391°W

13-3/16 "

Position Uncertainty:

0.0 usft

Slot Radius:

Northing:

Latitude:

32.7427113°N

Position Uncertainty

+E/-W 0.0 usft 0.0 usft

Easting: Wellhead Elevation: 634,587.00 usft 748,199.00 usft usft

Longitude: **Ground Level:** 103.6605391°W 3,868.0 usft

Grid Convergence:

0.36

0.0 usft

ОН

Plan #0.1

#501H

+N/-S

Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength (nT)	
			()	()	(111)	
	IGRF2020	6/3/2021	6.63	60.36	47,791.99115004	

Design

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD) (usft) 0.0

+N/-S (usft) 0.0

+E/-W (usft) 0.0

Direction (°) 359.51

Plan Survey Tool Program

Date 6/3/2021

Depth From (usft)

Depth To (usft)

Survey (Wellbore)

Tool Name

Remarks

0.0

14,473.7 Plan #0.1 (OH) EOG MWD+IFR1 MWD + IFR1

Plan Sections Dogleg Measured Vertical 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 1,900.0 0.00 0.00 1,900.0 0.0 0.0 0.00 0.00 0.00 0.00 2,244.9 6.90 180.00 2,244.1 -20.7 0.0 2.00 2.00 0.00 180.00 8,726.1 6.90 180.00 8,678.4 -799.3 0.0 0.00 0.00 0.00 0.00 9,022.5 -820.0 180.00 KOP(Grace 16 State 9,071.1 0.00 0.00 0.0 2.00 -2.00 0.00 9,235.2 0.00 FTP(Grace 16 State (9,291.5 26.46 0.00 -770.0 0.0 12.00 12.00 0.00 9,821.1 90.00 359.57 9,499.9 -342.5 -2.2 12.00 12.00 -0.08 14,473.7 9,500.0 4,310.0 -37.0 0.00 0.00 0.00 PBHL(Grace 16 State 90.00 359.57 0.00

Planning Report

Database: Company: PEDM

Midland

Project:

Lea County, NM (NAD 83 NME)

Site: Grace 16 State Com

 Well:
 #501H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well #501H

KB = 25' @ 3893.0usft

KB = 25' @ 3893.0usft

Grid

nned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/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	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
0.000.0	2.22	400.00	0.000.0	4 -		4 =	0.00	0.00	0.00
2,000.0	2.00	180.00	2,000.0	-1.7	0.0	-1.7	2.00	2.00	0.00
2,100.0	4.00	180.00	2,099.8	-7.0	0.0	-7.0	2.00	2.00	0.00
2,200.0	6.00	180.00	2,199.5	-15.7	0.0	-15.7	2.00	2.00	0.00
2,244.9	6.90	180.00	2,244.1	-20.7	0.0	-20.7	2.00	2.00	0.00
2,300.0	6.90	180.00	2,298.8	-27.4	0.0	-27.4	0.00	0.00	0.00
2,400.0	6.90	180.00	2,398.0	-39.4	0.0	-39.4	0.00	0.00	0.00
2,500.0	6.90	180.00	2,497.3	-51.4	0.0	-51.4	0.00	0.00	0.00
2,600.0	6.90	180.00	2,596.6	-63.4	0.0	-63.4	0.00	0.00	0.00
2,700.0	6.90	180.00	2,695.9	-75.4	0.0	-75.4	0.00	0.00	0.00
2,800.0	6.90	180.00	2,795.1	-87.4	0.0	-87.4	0.00	0.00	0.00
2,900.0	6.90	180.00	2,894.4	-99.4	0.0	-99.4	0.00	0.00	0.00
3,000.0	6.90	180.00	2,993.7	-111.4	0.0	-111.4	0.00	0.00	0.00
3,100.0	6.90	180.00	3,093.0	-123.5	0.0	-123.4	0.00	0.00	0.00
3,200.0	6.90	180.00	3,192.3	-135.5	0.0	-135.5	0.00	0.00	0.00
3,300.0	6.90	180.00	3,291.5	-147.5	0.0	-147.5	0.00	0.00	0.00
3,400.0	6.90	180.00	3,390.8	-159.5	0.0	-159.5	0.00	0.00	0.00
3,500.0	6.90	180.00	3,490.1	-171.5	0.0	-171.5	0.00	0.00	0.00
3,600.0	6.90	180.00	3,589.4	-183.5	0.0	-183.5	0.00	0.00	0.00
3,700.0	6.90	180.00	3,688.6	-195.5	0.0	-195.5	0.00	0.00	0.00
3,800.0	6.90	180.00	3,787.9	-207.5	0.0	-207.5	0.00	0.00	0.00
3,900.0	6.90	180.00	3,887.2	-219.5	0.0	-219.5	0.00	0.00	0.00
4,000.0	6.90	180.00	3,986.5	-231.6	0.0	-231.5	0.00	0.00	0.00
4,100.0	6.90	180.00	4,085.7	-243.6	0.0	-243.6	0.00	0.00	0.00
4,200.0	6.90	180.00	4,185.0	-255.6	0.0	-255.6	0.00	0.00	0.00
4,300.0	6.90	180.00	4,284.3	-267.6	0.0	-267.6	0.00	0.00	0.00
4,400.0	6.90	180.00	4,383.6	-279.6	0.0	-279.6	0.00	0.00	0.00
4,500.0		180.00	4,363.6 4,482.8			-279.6 -291.6	0.00		
	6.90			-291.6	0.0			0.00	0.00
4,600.0	6.90	180.00	4,582.1	-303.6	0.0	-303.6	0.00	0.00	0.00
4,700.0	6.90	180.00	4,681.4	-315.6	0.0	-315.6	0.00	0.00	0.00
4,800.0	6.90	180.00	4,780.7	-327.7	0.0	-327.6	0.00	0.00	0.00
4,900.0	6.90	180.00	4,879.9	-339.7	0.0	-339.7	0.00	0.00	0.00
5,000.0	6.90	180.00	4,979.2	-351.7	0.0	-351.7	0.00	0.00	0.00
5,100.0	6.90	180.00	5,078.5	-363.7	0.0	-363.7	0.00	0.00	0.00
5,200.0	6.90	180.00	5,177.8	-375.7	0.0	-375.7	0.00	0.00	0.00

Planning Report

Database: Company:

Project:

PEDM

Midland

Lea County, NM (NAD 83 NME)

Site: Grace 16 State Com

 Well:
 #501H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #501H

KB = 25' @ 3893.0usft KB = 25' @ 3893.0usft

Crid

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)
5,300.0	6.90	180.00	5,277.0	-387.7	0.0	-387.7	0.00	0.00	0.00
5,400.0	6.90	180.00	5,376.3	-399.7	0.0	-399.7	0.00	0.00	0.00
5,500.0	6.90	180.00	5,475.6	-411.7	0.0	-411.7	0.00	0.00	0.00
5,600.0	6.90	180.00	5,574.9	-423.7	0.0	-423.7	0.00	0.00	0.00
5,700.0	6.90	180.00	5,674.2	-435.8	0.0	-435.7	0.00	0.00	0.00
5,800.0	6.90	180.00	5,773.4	-447.8	0.0	-447.8	0.00	0.00	0.00
5,900.0	6.90	180.00	5,872.7	-459.8	0.0	-459.8	0.00	0.00	0.00
6,000.0	6.90	180.00	5,972.0	-471.8	0.0	-471.8	0.00	0.00	0.00
6,100.0	6.90	180.00	6,071.3	-483.8	0.0	-483.8	0.00	0.00	0.00
6,200.0	6.90	180.00	6,170.5	-495.8	0.0	-495.8	0.00	0.00	0.00
6,300.0	6.90	180.00	6,269.8	-507.8	0.0	-507.8	0.00	0.00	0.00
6,400.0	6.90	180.00	6,369.1	-519.8	0.0	-519.8	0.00	0.00	0.00
6,500.0	6.90	180.00	6,468.4	-531.9	0.0	-531.8	0.00	0.00	0.00
6,600.0	6.90	180.00	6,567.6	-543.9	0.0	-543.8	0.00	0.00	0.00
6,700.0	6.90	180.00	6,666.9	-555.9	0.0	-555.9	0.00	0.00	0.00
6,800.0	6.90	180.00	6,766.2	-567.9	0.0	-567.9	0.00	0.00	0.00
6,900.0	6.90	180.00	6,865.5	-579.9	0.0	-579.9	0.00	0.00	0.00
7,000.0	6.90	180.00	6,964.7	-591.9	0.0	-591.9	0.00	0.00	0.00
7,100.0	6.90	180.00	7,064.0	-603.9	0.0	-603.9	0.00	0.00	0.00
7,200.0	6.90	180.00	7,163.3	-615.9	0.0	-615.9	0.00	0.00	0.00
7,300.0	6.90	180.00	7,262.6	-628.0	0.0	-627.9	0.00	0.00	0.00
7,400.0	6.90	180.00	7,361.8	-640.0	0.0	-639.9	0.00	0.00	0.00
7,500.0	6.90	180.00	7,461.1	-652.0	0.0	-652.0	0.00	0.00	0.00
7,600.0	6.90	180.00	7,560.4	-664.0	0.0	-664.0	0.00	0.00	0.00
7,700.0	6.90	180.00	7,659.7	-676.0	0.0	-676.0	0.00	0.00	0.00
7,800.0	6.90	180.00	7,758.9	-688.0	0.0	-688.0	0.00	0.00	0.00
7,900.0	6.90	180.00	7,858.2	-700.0	0.0	-700.0	0.00	0.00	0.00
8,000.0	6.90	180.00	7,957.5	-712.0	0.0	-712.0	0.00	0.00	0.00
8,100.0	6.90	180.00	8,056.8	-724.0	0.0	-724.0	0.00	0.00	0.00
8,200.0	6.90	180.00	8,156.0	-736.1	0.0	-736.0	0.00	0.00	0.00
8,300.0	6.90	180.00	8,255.3	-748.1	0.0	-748.0	0.00	0.00	0.00
8,400.0	6.90	180.00	8,354.6	-760.1	0.0	-760.1	0.00	0.00	0.00
8,500.0	6.90	180.00	8,453.9	-772.1	0.0	-772.1	0.00	0.00	0.00
8,600.0	6.90	180.00	8,553.2	-784.1	0.0	-784.1	0.00	0.00	0.00
8,700.0	6.90	180.00	8,652.4	-796.1	0.0	-796.1	0.00	0.00	0.00
8,726.1	6.90	180.00	8,678.4	-799.3	0.0	-799.2	0.00	0.00	0.00
8,800.0	5.42	180.00	8,751.8	-807.2	0.0	-807.2	2.00	-2.00	0.00
8,900.0	3.42	180.00	8,851.5	-814.9	0.0	-814.9	2.00	-2.00	0.00
9,000.0	1.42	180.00	8,951.4	-819.1	0.0	-819.1	2.00	-2.00	0.00
9,071.1	0.00	0.00	9,022.5	-820.0	0.0	-820.0	2.00	-2.00	0.00
9,075.0	0.47	0.00	9,026.4	-820.0	0.0	-820.0	12.00	12.00	0.00
9,100.0	3.47	0.00	9,051.4	-819.1	0.0	-819.1	12.00	12.00	0.00
9,125.0	6.47	0.00	9,076.3	-817.0	0.0	-816.9	12.00	12.00	0.00
9,150.0	9.47	0.00	9,101.0	-813.5	0.0	-813.5	12.00	12.00	0.00
9,175.0	12.47	0.00	9,125.6	-808.7	0.0	-808.7	12.00	12.00	0.00
9,200.0	15.47	0.00	9,149.8	-802.7	0.0	-802.7	12.00	12.00	0.00
9,225.0	18.47	0.00	9,173.8	-795.4	0.0	-795.4	12.00	12.00	0.00
9,250.0	21.47	0.00	9,197.2	-786.9	0.0	-786.8	12.00	12.00	0.00
9,275.0	24.47	0.00	9,220.3	-777.1	0.0	-777.1	12.00	12.00	0.00
9,291.5	26.46	0.00	9,235.2	-770.0	0.0	-770.0	12.00	12.00	0.00
9,300.0	27.47	359.98	9,242.7	-766.2	0.0	-766.1	12.00	12.00	-0.22
9,325.0	30.47	359.93	9,264.6	-754.1	0.0	-754.0	12.00	12.00	-0.19
9,350.0	33.47	359.89	9,285.8	-740.8	0.0	-740.8	12.00	12.00	-0.16
9,375.0	36.47	359.86	9,306.3	-726.5	-0.1	-726.5	12.00	12.00	-0.14

Planning Report

Database: Company: PEDM

Midland

Project:

Lea County, NM (NAD 83 NME)

Site: Grace 16 State Com

 Well:
 #501H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #501H

KB = 25' @ 3893.0usft

KB = 25' @ 3893.0usft Grid

Design:	Plan #0.1								
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)
9,400.0	39.47	359.83	9,326.0	-711.1	-0.1	-711.1	12.00	12.00	-0.12
9,425.0	42.47	359.80	9,344.9	-694.7	-0.2	-694.7	12.00	12.00	-0.10
9,450.0	45.47	359.78	9,362.9	-677.4	-0.2	-677.3	12.00	12.00	-0.09
9,475.0	48.47	359.76	9,379.9	-659.1	-0.2	-659.1	12.00	12.00	-0.08
9,500.0	51.47	359.74	9,396.0	-640.0	-0.4	-639.9	12.00	12.00	-0.08
9,525.0	54.47	359.72	9,411.1	-620.0	-0.5	-620.0	12.00	12.00	-0.07
9,550.0	57.47	359.71	9,425.0	-599.3	-0.6	-599.3	12.00	12.00	-0.07
•									
9,575.0	60.47	359.69	9,437.9	-577.9	-0.7	-577.8	12.00	12.00	-0.06
9,600.0	63.47	359.68	9,449.7	-555.8	-0.8	-555.8	12.00	12.00	-0.06
9,625.0	66.47	359.66	9,460.2	-533.1	-0.9	-533.1	12.00	12.00	-0.05
9,650.0	69.47	359.65	9,469.6	-510.0	-1.1	-509.9	12.00	12.00	-0.05
9,675.0	72.47	359.64	9,477.8	-486.3	-1.2	-486.3	12.00	12.00	-0.05
9,700.0	75.47	359.63	9,484.7	-462.3	-1.4	-462.3	12.00	12.00	-0.05
9,725.0	78.47	359.62	9,490.3	-438.0	-1.5	-437.9	12.00	12.00	-0.05
9,750.0	81.47	359.60	9,494.7	-413.4	-1.7	-413.3	12.00	12.00	-0.05
9,775.0	84.47	359.59	9,497.7	-388.5	-1.9	-388.5	12.00	12.00	-0.05
9,800.0	87.47	359.58	9,499.5	-363.6	-2.1	-363.6	12.00	12.00	-0.04
9,821.1	90.00	359.57	9,499.9	-342.5	-2.2	-342.5	12.00	12.00	-0.04
9,900.0	90.00	359.57	9,499.9	-263.6	-2.8	-263.6	0.00	0.00	0.00
10,000.0	90.00	359.57	9,499.9	-163.6	-3.5	-163.6	0.00	0.00	0.00
10,100.0	90.00	359.57	9,499.9	-63.6	-4.3	-63.6	0.00	0.00	0.00
10,200.0	90.00	359.57	9,500.0	36.4	-5.0	36.4	0.00	0.00	0.00
10 200 0	90.00	359.57	0.500.0	136.4	-5.8	136.4	0.00	0.00	0.00
10,300.0 10,400.0	90.00	359.57 359.57	9,500.0 9,500.0	236.4	-5.6 -6.5	236.4	0.00	0.00	0.00 0.00
10,500.0	90.00	359.57	9,500.0	336.4	-0.5 -7.3	336.4	0.00	0.00	0.00
10,600.0	90.00	359.57	9,500.0	436.4	-8.0	436.4	0.00	0.00	0.00
10,700.0	90.00	359.57	9,500.0	536.4	-8.8	536.4	0.00	0.00	0.00
10,800.0	90.00	359.57	9,500.0	636.4	-9.5	636.4	0.00	0.00	0.00
10,900.0	90.00	359.57	9,500.0	736.4	-10.3	736.4	0.00	0.00	0.00
11,000.0	90.00	359.57	9,500.0	836.3	-11.0	836.4	0.00	0.00	0.00
11,100.0	90.00	359.57	9,500.0	936.3	-11.8	936.4	0.00	0.00	0.00
11,200.0	90.00	359.57	9,500.0	1,036.3	-12.5	1,036.4	0.00	0.00	0.00
11,300.0	90.00	359.57	9,500.0	1,136.3	-13.3	1,136.4	0.00	0.00	0.00
11,400.0	90.00	359.57	9,500.0	1,236.3	-14.0	1,236.4	0.00	0.00	0.00
11,500.0	90.00	359.57	9,500.0	1,336.3	-14.8	1,336.4	0.00	0.00	0.00
11,600.0	90.00	359.57	9,500.0	1,436.3	-15.5	1,436.4	0.00	0.00	0.00
11,700.0	90.00	359.57	9,500.0	1,536.3	-16.3	1,536.4	0.00	0.00	0.00
11,800.0	90.00	359.57	9,500.0	1,636.3	-17.0	1,636.4	0.00	0.00	0.00
11,900.0	90.00	359.57	9,500.0	1,736.3	-17.8	1,736.4	0.00	0.00	0.00
12,000.0	90.00	359.57	9,500.0	1,836.3	-18.5	1,836.4	0.00	0.00	0.00
12,100.0	90.00	359.57	9,500.0	1,936.3	-19.3	1,936.4	0.00	0.00	0.00
12,200.0	90.00	359.57	9,500.0	2,036.3	-20.0	2,036.4	0.00	0.00	0.00
12,300.0	90.00	359.57	9,500.0	2,136.3	-20.7	2,136.4	0.00	0.00	0.00
12,400.0	90.00	359.57	9,500.0	2,236.3	-21.5	2,136.4	0.00	0.00	0.00
12,500.0	90.00	359.57	9,500.0	2,336.3	-22.2	2,336.4	0.00	0.00	0.00
12,600.0	90.00	359.57	9,500.0	2,436.3	-23.0	2,436.4	0.00	0.00	0.00
12,700.0	90.00	359.57	9,500.0	2,536.3	-23.7	2,536.4	0.00	0.00	0.00
12,800.0 12,900.0	90.00 90.00	359.57 359.57	9,500.0 9,500.0	2,636.3 2,736.3	-24.5 -25.2	2,636.4 2,736.4	0.00 0.00	0.00 0.00	0.00 0.00
13,000.0	90.00	359.57 359.57	9,500.0	2,736.3	-25.2 -26.0	2,736.4	0.00	0.00	0.00
13,100.0	90.00	359.57	9,500.0	2,936.3	-26.7	2,936.4	0.00	0.00	0.00
13,200.0	90.00	359.57	9,500.0	3,036.3	-20.7 -27.5	3,036.4	0.00	0.00	0.00
13,300.0	90.00	359.57	9,500.0	3,136.3	-28.2	3,136.4	0.00	0.00	0.00
13,400.0	90.00	359.57	9,500.0	3,236.3	-29.0	3,236.4	0.00	0.00	0.00



Planning Report

Database: Company: PEDM

Midland

Project:

Lea County, NM (NAD 83 NME)

Site: Grace 16 State Com

 Well:
 #501H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

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Survey Calculation Method:

Well #501H

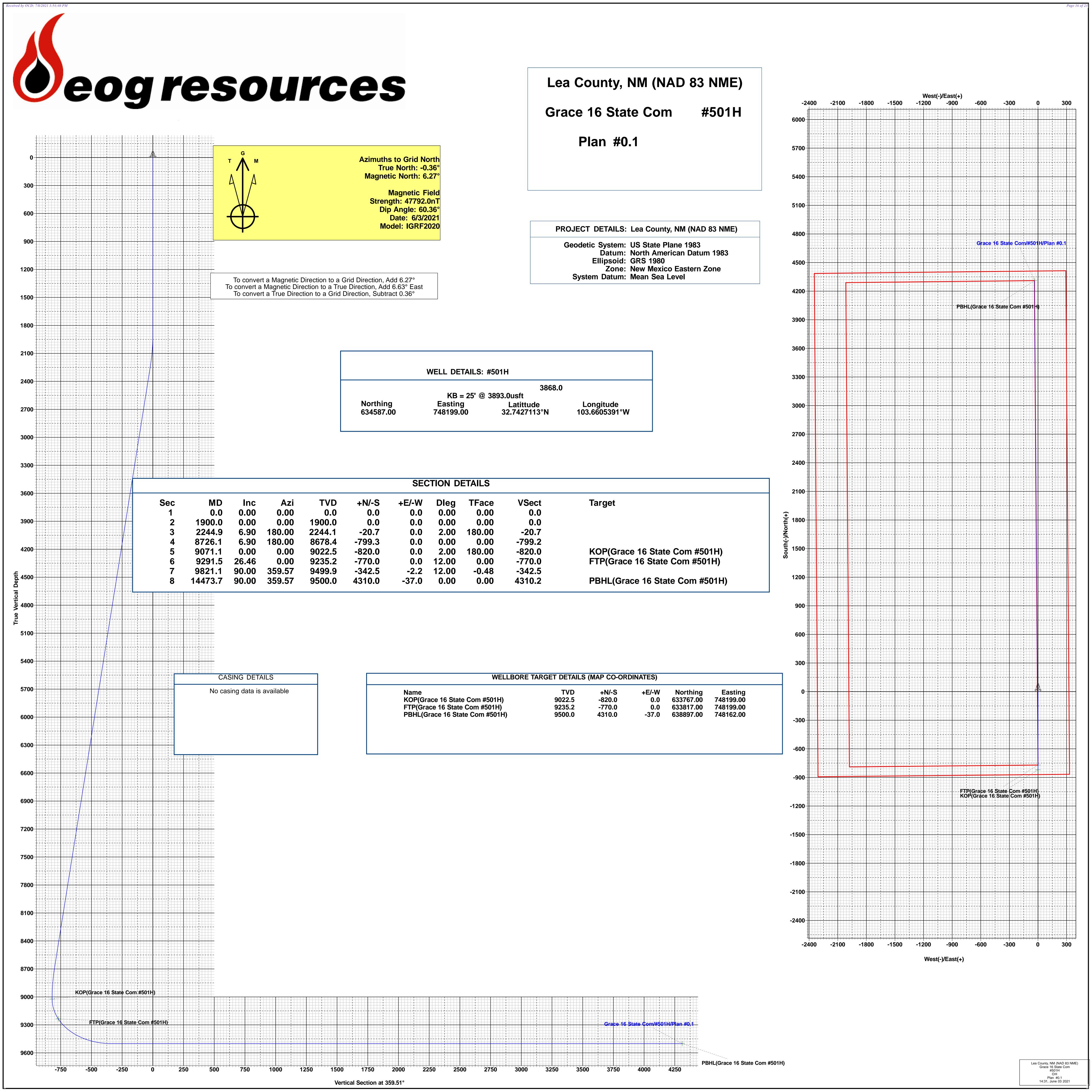
KB = 25' @ 3893.0usft

KB = 25' @ 3893.0usft

Grid

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)
13,500.0	90.00	359.57	9,500.0	3,336.3	-29.7	3,336.4	0.00	0.00	0.00
13,600.0	90.00	359.57	9,500.0	3,436.3	-30.5	3,436.4	0.00	0.00	0.00
13,700.0	90.00	359.57	9,500.0	3,536.3	-31.2	3,536.4	0.00	0.00	0.00
13,800.0	90.00	359.57	9,500.0	3,636.3	-32.0	3,636.4	0.00	0.00	0.00
13,900.0	90.00	359.57	9,500.0	3,736.3	-32.7	3,736.4	0.00	0.00	0.00
14,000.0	90.00	359.57	9,500.0	3,836.3	-33.5	3,836.4	0.00	0.00	0.00
14,100.0	90.00	359.57	9,500.0	3,936.3	-34.2	3,936.4	0.00	0.00	0.00
14,200.0	90.00	359.57	9,500.0	4,036.3	-35.0	4,036.4	0.00	0.00	0.00
14,300.0	90.00	359.57	9,500.0	4,136.3	-35.7	4,136.4	0.00	0.00	0.00
14,400.0	90.00	359.57	9,500.0	4,236.3	-36.4	4,236.4	0.00	0.00	0.00
14,473.7	90.00	359.57	9,500.0	4,310.0	-37.0	4,310.2	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(Grace 16 State Co - plan hits target cent - Point	0.00 er	0.00	9,022.5	-820.0	0.0	633,767.00	748,199.00	32.7404575°N	103.6605560°W
FTP(Grace 16 State Cor - plan hits target cent - Point	0.00 er	0.00	9,235.2	-770.0	0.0	633,817.00	748,199.00	32.7405950°N	103.6605550°W
PBHL(Grace 16 State C - plan hits target cent - Point	0.00 er	0.00	9,500.0	4,310.0	-37.0	638,897.00	748,162.00	32.7545579°N	103.6605704°W



Inten	t	As Dril	led											
API#	ł													
Оре	rator Nai	me:				Prop	erty N	ame:	•					Well Number
Kick (Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	n E/W	County	
Latit	ude				Longitu	Longitude NAD						NAD		
First ⁻	Take Poir	it (FTP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	n E/W	County	
Latit	ude				Longitu	ıde							NAD	
Last 1	Section	t (LTP) Township	Pango	Lot	Feet	Eron	n N/C	Foot		From F	-/\\	Count		
Latit		Township	Range	Lot	Longitu		n N/S	Feet		From E	-/ vv	Count	У	
Latiti	ude				Longitu	iue						NAD		
Is this	s well the	defining w	vell for th	e Hori:	zontal Sp	pacing	g Unit?			7				
										_				
Is this	s well an	infill well?												
											· -			
	ll is yes p ng Unit.	iease provi	de API if	avaılak	oie, Opei	rator N	vame	and v	vell ni	umber	tor E	Jetinir	ng well to	or Horizontal
API#	!													
Ope	rator Nai	me:	1			Prop	erty N	ame:	:					Well Number
						1								V7.0C/20/2016

KZ 06/29/2018

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

		<u>En</u>	iecuve May 25.	<u>, 2021</u>				
I. Operator:E	OG Resources, Inc	OGRID	:7377		Da	ate: 06/ 1	16 /202	21
II. Type: ⊠ Orig	ginal 🗆 Amendmo	ent due to □ 19.15.2	27.9.D(6)(a) NN	ИАС □ 19.15.27.9	9.D(6)(b	o) NMAC	□ Oth	er.
If Other, please desc	ribe:							
III. Well(s): Provi					f wells p	proposed t	to be di	rilled or proposed
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D	P	Anticipated roduced Water BBL/D
Grace 16 State Com 501H		P-16-18S-33E	870' FSL & 325' FEL	+/- 1000	+/- 35	500	+/- 3	
IV. Central DeliverV. Anticipated Schor proposed to be re	nedule: Provide th	e following informa	ation for each ne	ew or recompleted	well or		•	•
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial I Back I		First Production Date
Grace 16 State Com 501H		7/15/21	8/3/21	9/1/21		10/1/21		11/1/21
VII. Operational P Subsection A throug VIII. Best Manage during active and pla	ractices: ⊠ Attach F of 19.15.27.8 ment Practices: [ch a complete descr NMAC. ⊠ Attach a complet	iption of the ac	tions Operator wi	ll take t	o comply	with t	he requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

		hat is not in compliance	E APRIL 1, 2022 with its statewide natural g	as captı	ure requirement for the applicable
☐ Operator certifies capture requirement	that it is not requi	ired to complete this seco	tion because Operator is in	complia	ance with its statewide natural gas
IX. Anticipated Nat	tural Gas Producti	ion:			
We	:11	API	Anticipated Average Natural Gas Rate MCF/D)	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Gat	hering System (NO	GGS):			
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date		ilable Maximum Daily Capacity of System Segment Tie-in
production operation the segment or portion XII. Line Capacity. production volume fixIII. Line Pressure.	s to the existing or jon of the natural gas. The natural gas garom the well prior t Operator does	planned interconnect of the signature graphs of the signature graphs athering system will to the date of first product does not anticipate that	he natural gas gathering systewhich the well(s) will be conwill will not have capacity to go tion. at its existing well(s) connected.	tem(s), a nected. gather 10	ed pipeline route(s) connecting the and the maximum daily capacity of 00% of the anticipated natural gas the same segment, or portion, of the ressure caused by the new well(s).
			•	1 line pi	ressure caused by the new wents).
☐ Attach Operator's	plan to manage pro	oduction in response to the	he increased line pressure.		
Section 2 as provided	d in Paragraph (2) o		27.9 NMAC, and attaches a f		78 for the information provided in cription of the specific information

Section 3 - Certifications Effective May 25, 2021

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

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease: (c) (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
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

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

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

Signature: Star L Harrell
Printed Name: Star L Harrell
Title: Sr Regulatory Specialist
E-mail Address: Star_Harrell@eogresources.com
Date: 6/16/2021
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 or 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.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.