<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

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**

Form C-101 August 1, 2011

Permit 350463

AT LICATION ON LINUIT TO DIVLE, NE	-LITTLIC, DELI LIC, I LOODACK, OKADD A ZONE
1. Operator Name and Address	2. OGRID Number
EOC BESOLIBOES INC	7977

EOG RESOURCES INC 7377 P.O. Box 2267 3. API Number 30-015-54229 Midland, TX 79702 4. Property Code 5. Property Name 6. Well No. 330807 GOLDEN GRAHAM 1 FEDERAL COM 707H

ADDITION FOR DEDMIT TO DOLL DE ENTED DEEDEN DILICRACK OR ADDIT ZONE

7 Surface Location

ſ	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	K	1	26S	28E		1655	S	2647	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
В	36	25S	28E	В	230	N	2175	E	Eddv

9. Pool Information

98220 PURPLE SAGE; WOLFCAMP (GAS)

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	2920
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	20092	Wolfcamp		10/2/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1040	370	0
Int1	8.75	7.625	29.7	8836	1460	0
Prod	6.75	5.5	17	20092	1030	7940

Casing/Cement Program: Additional Comments

EOG respectfully requests the option to use the casing and cement program described in Design B of the drill plan. The NMOCD will be notified of EOG's election at spud.

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	3000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☑ and/or 19.15.14.9 (B) NMAC ☑, if applicable. Signature:				OIL CONSERVATIO	ON DIVISION
Printed Name:	Electronically filed by Kay Maddox	x	Approved By:	Ward Rikala	
Title:	Regulatory Agent		Title:		
Email Address: kay_maddox@eogresources.com			Approved Date:	9/20/2023	Expiration Date: 9/20/2025
Date: 9/18/2023 Phone: 432-686-3658			Conditions of Appr	oval Attached	

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-0161 Fax: (575) 393-0720

DISTRICT II

81 I S. First St., Artesin, NM 88210
Phone: (575) 748-1238 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) 476-3460 Fax: (505) 476-3462

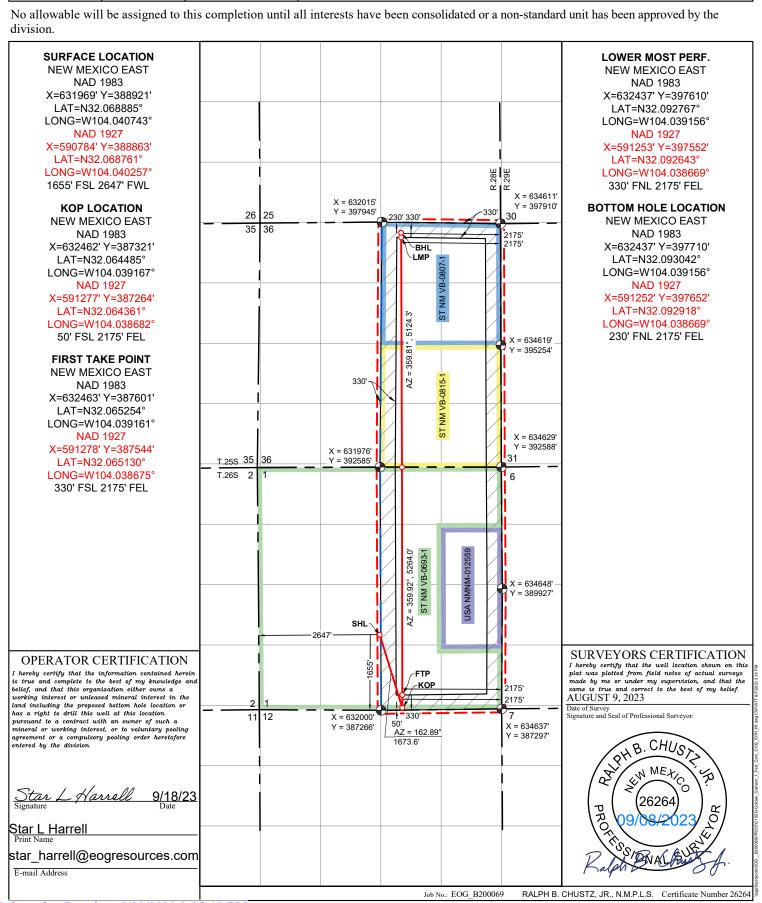
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 54229				Pool Code 98220				p (Gas)		
Property C 33080			<u>'</u>	GOLD!	Property Name	LEED COM		Well Number 707H		
OGRID N 7377				Operator Name			Elevati	Elevation 2920'		
	Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
K	1	26 S	28 E		1655	SOUTH	2647	WEST	EDDY	
			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	
В	36	25 S	28 E		EAST	EDDY				
Dedicated Acres	Joint or	Infill	Consolidated Code Order No.							
640			PENDING COM AGREEMENT							



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

Form APD Conditions

Permit 350463

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377]	30-015-54229
P.O. Box 2267	Well:
Midland, TX 79702	GOLDEN GRAHAM 1 FEDERAL COM #707H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
ward.rikala	If a bradenhead squeeze is used during the cementing of the intermediate casing, then a CBL is required to verify the integrity of the cement behind the intermediate casing.
ward.rikala	The Rustler formation is present in this area. As such, a surface casing string is required to be sat and cemented after 70' penetration into the Rustler formation.

10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

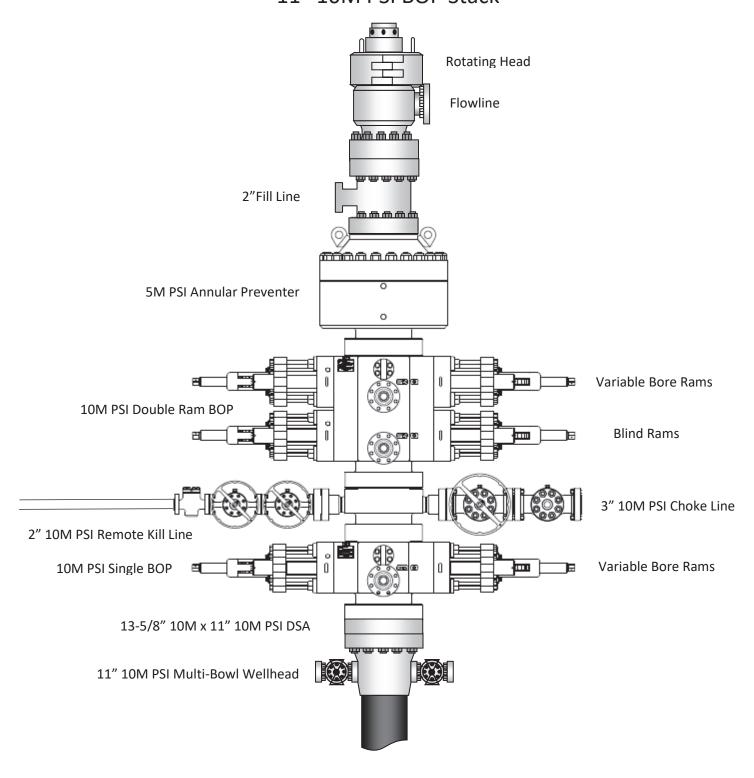
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

	9-7/8" & 8-3/4" Intermediate Hole Section										
	10M psi requirement										
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP						
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M						
				Lower 3.5 - 5.5" VBR	10M						
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M						
				Lower 3.5 - 5.5" VBR	10M						
Jars	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M						
				Lower 3.5 - 5.5" VBR	10M						
DCs and MWD tools	6.500 - 8.000"	Annular	5M	-	-						
Mud Motor	6.750 - 8.000"	Annular	5M	-	-						
Intermediate casing	7.625"	Annular	5M	-	-						
Open-hole	-	Blind Rams	10M	-	-						

	6-3/4" Production Hole Section										
10M psi requirement											
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP						
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M						
				Lower 3.5 - 5.5" VBR	10M						
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M						
				Lower 3.5 - 5.5" VBR	10M						
DCs and MWD tools	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M						
				Lower 3.5 - 5.5" VBR	10M						
Mud Motor	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M						
				Lower 3.5 - 5.5" VBR	10M						
Mud Motor	5.500 – 5.750"	Annular	5M	-	-						
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M						
				Lower 3.5 - 5.5" VBR	10M						
Open-hole	-	Blind Rams	10M	-	-						

VBR = Variable Bore Ram

EOG Resources 11" 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string

- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram.
 - f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



Break-test BOP & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular à during each full BOPE test
 - Upper Pipe Rams à On trip ins where FIT required
 - Blind Rams à Every trip
 - Lower Pipe Rams à during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the
 casing will be monitored via the valve on the TA cap as per standard batch drilling
 ops.

Blind Rams

Roadside Kill

Test plug

Break Test Diagram (HCR valve)

Steps

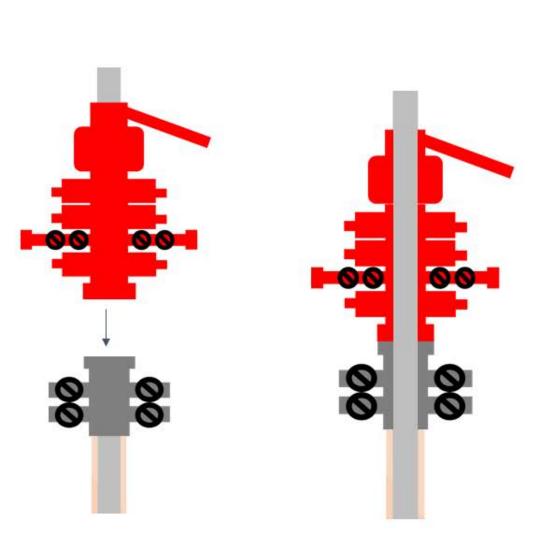
Pressure

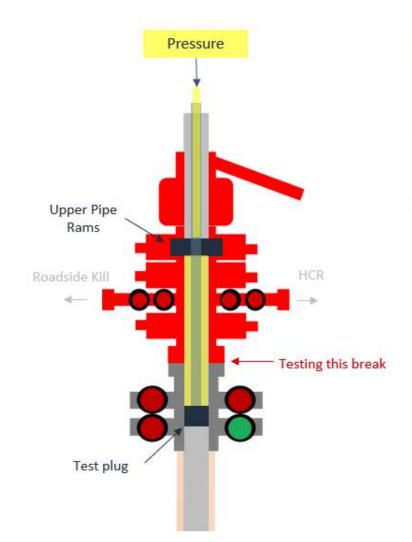
HCR

Testing this break

- 1. Set plug in wellhead (lower barrier)
- 2. Close Blind Rams (upper barrier)
- 3. Close roadside kill
- 4. Open HCR (pressure application)
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- Tie BOP testers high pressure line to main choke manifold crown valve
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit

Break Test Diagram (Test Joint)





Steps

- Set plug in with test joint wellhead (lower barrier)
- 2. Close Upper Pipe Rams (upper barrier)
- 3. Close roadside kill
- Close HCR
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- Tie BOP testers high pressure line to top of test joint
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit



2/24/2022

Cement Program

1. No changes to the cement program will take place for offline cementing.

Summarized Operational Procedure for Intermediate Casing

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
- 2. Land production casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the casing will be cemented online.
- 3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
- 4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
- 5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
 - a. Minimum 4 hrs notice.
- 6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
 - a. Note, if any of the barriers fail to test, the BOP stack will not be nippled down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.
- 7. Skid/Walk rig off current well.
- 8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nippled back up for any further remediation.



2/24/2022

- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
- 9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 3.
- 10. Remove TA Plug from the casing.
- 11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
- 12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
- 13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
- 14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
- 15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
- 16. Remove offline cement tool.
- 17. Install night cap with pressure gauge for monitoring.
- 18. Test night cap to 5,000 psi for 10 min.



2/24/2022

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the <u>5M MASP (Maximum Allowable Surface Pressure) portion of the well</u>, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.

Page | 3



2/24/2022

- 6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

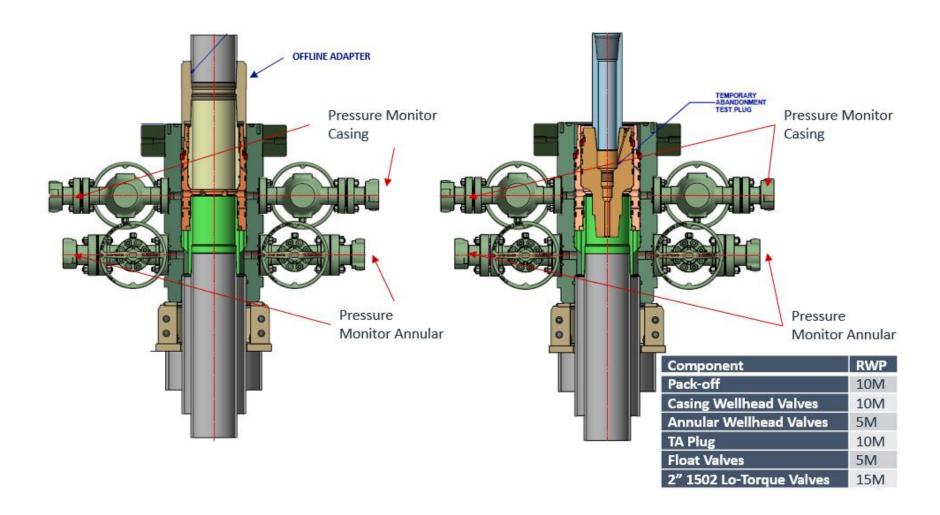
- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.
- 7. Continue to place cement until plug bumps.
- 8. At plug bump close rig choke and cement head.
- 9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

General Procedure After Cementing

- 1. Sound alarm (alert crew).
- 2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 3. Confirm shut-in.
- 4. Notify tool pusher/company representative.
- 5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

2/24/2022

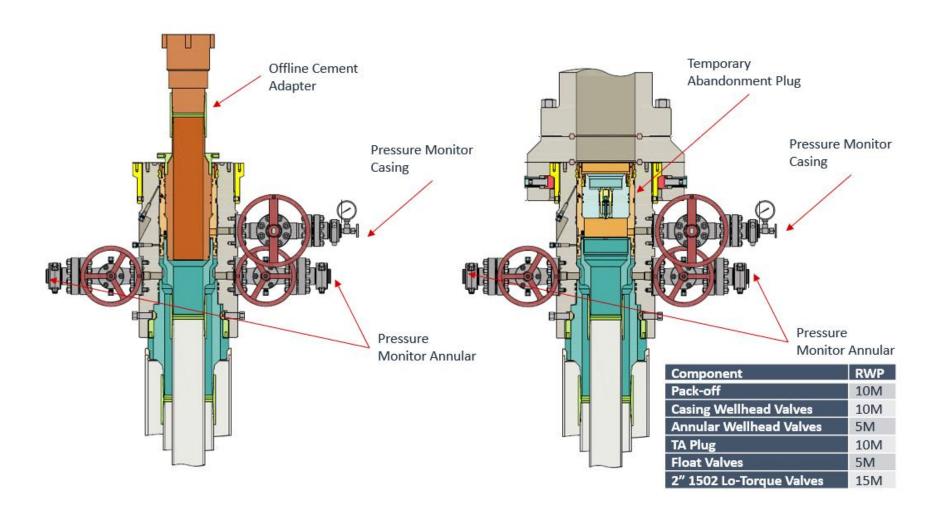
Figure 1: Cameron TA Plug and Offline Adapter Schematic





2/24/2022

Figure 2: Cactus TA Plug and Offline Adapter Schematic

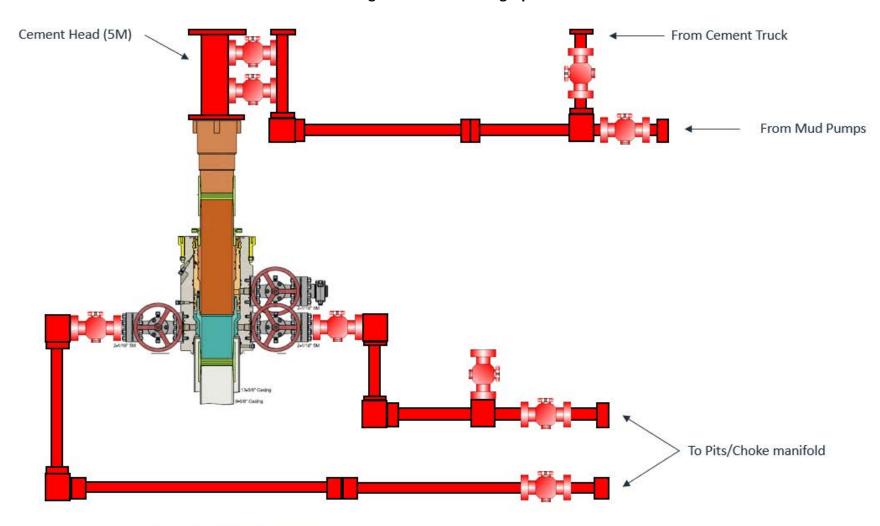


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2/24/2022

Figure 3: Back Yard Rig Up



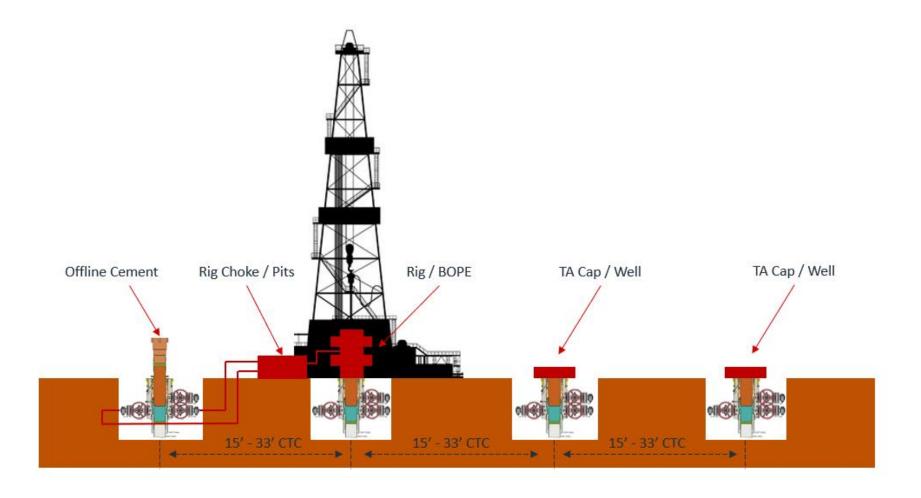
*** All Lines 10M rated working pressure

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2/24/2022

Figure 4: Rig Placement Diagram



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Golden Graham 1 Fed Com #707H Eddy County, New Mexico

Proposed Wellbore

Design A

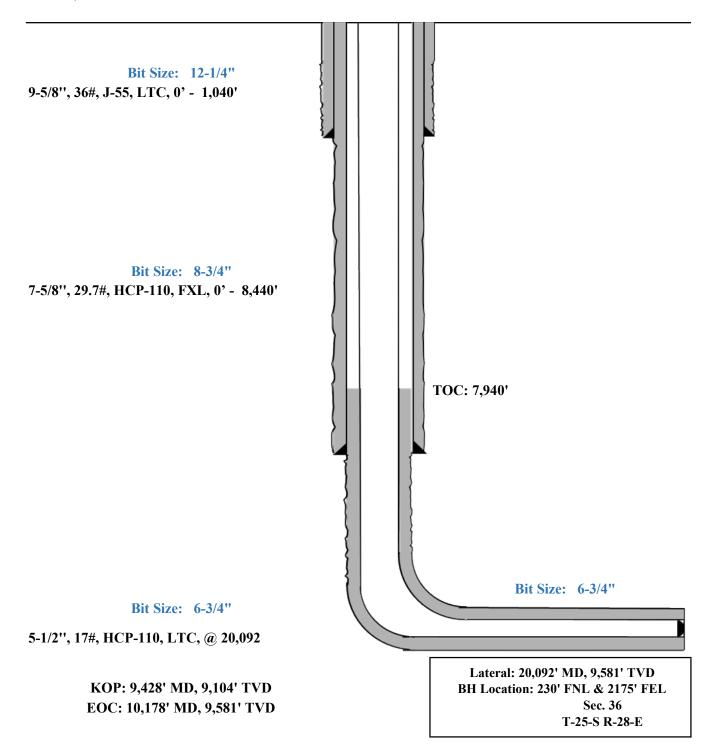
KB: 2945' GL: 2920'

2647' FWL Section 1

1655' FSL

T-26-S, R-28-E

API: 30-015-****





Eddy County, New Mexico Proposed Wellbore

KB: 2945'

2647' FWL

1655' FSL

Design B

GL: 2920'

Lateral: 20,092' MD, 9,581' TVD

BH Location: 230' FNL & 2175' FEL

Sec. 36

T-25-S R-28-E

Section 1 T-26-S, R-28-E

API: 30-015-****

Bit Size: 13" 10-3/4", 40.5#, J-55, STC, 0' - 1,040' Bit Size: 9-7/8" 7-5/8", 29.7#, HCP-110, FXL @ 0' - 8,440' TOC: 7,940' Bit Size: 7-7/8" 6", 22.3#, P110-EC, DWC/C IS, @ 0' - 20,092' Bit Size: 7-7/8"

KOP: 9,428' MD, 9,104' TVD

EOC: 10,178' MD, 9,581' TVD



Permit Information:

Well Name: Golden Graham 1 Fed Com #707H

Location:

SHL: 1655' FSL & 2647' FWL, Section 1, T-26-S, R-28-E, Eddy Co., N.M. BHL: 230' FNL & 2175' FEL, Section 36, T-25-S, R-28-E, Eddy Co., N.M.

Design A

Casing Program:

Hole	Interval M	Interval MD		al TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	1,040	0	1,040	9-5/8"	36#	J-55	LTC
8-3/4"	0	8,836	0	8,440	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	20,092	0	9,581	5-1/2"	17#	HCP-110	LTC

Cement Program:

Cemen	t i i ugi aiii.			
Depth	No. Sacks	Wt.	Yld Ft3/sk	Slurry Description
1.040	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)
1,040'	80	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
0.4401	460	14.2	1.11	1st Stage (Tail): Class C + 5% Salt (TOC @ 4,590')
8,440'	1000	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
20,092'	1030	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 7,940')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,040'	Fresh - Gel	8.6-8.8	28-34	N/c
1,040' – 8,440'	Brine	10.0-10.2	28-34	N/c
8,440' - 9,428'	Oil Base	8.7-9.4	58-68	N/c - 6
9,428' – 20,092'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral				



Design B

CASING PROGRAM

Hole	Interval MD		Interva	al TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	1,040	0	1,040	10-3/4"	40.5#	J-55	STC
9-7/8"	0	8,836	0	8,440	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	20,092	0	9,581	6"	22.3#	P110-EC	DWC/C IS

Cementing Program:

Cementi	ng i rugi	am.							
Depth	No. Sacks	Wt.	Slurry Description						
1,040'	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)					
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 840')					
8,440' 8-3/4"	520	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 4,590')					
	1000	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)					
20,092'	1580	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 7,940')					

EOG requests variance from minimum standards to pump a two stage cement job on the 8-3/4" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (4,790') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 100 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,040'	Fresh - Gel	8.6-8.8	28-34	N/c
1,040' – 2,520'	Brine	10.0-10.2	28-34	N/c
2,520' – 8,440'	Oil Base	8.7-9.4	58-68	N/c - 6
8,440' – 20,092'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral				



TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

19.15.16.10 Casing AND TUBING RQUIREMENTS:
 J (3): "The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone."

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.



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:

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.



Golden Graham 1 Fed Com #707H 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
NMOCD Inspection Group - South		(575) 626-0830
U.S. Dept. of Labor		(575) 887-1174
EOG Resources, Inc.		,
EOG / Midland	Office	(432) 686-3600
		(-)
Company Drilling Consultants:		
David Dominque	Cell	(985) 518-5839
Mike Vann	Cell	(817) 980-5507
Drilling Engineer		
Stephen Davis	Cell	(432) 235-9789
Matt Day	Cell	(432) 296-4456
Drilling Manager		, ,
Branden Keener	Office	(432) 686-3752
	Cell	(210) 294-3729
Drilling Superintendent		,
Ryan Reynolds	Cell	(432) 215-5978
Steve Kelly	Cell	(210) 416-7894
H&P Drilling		
H&P Drilling	Office	(432) 563-5757
H&P 651 Drilling Rig	Rig	(903) 509-7131
11001 00 1 2 111111g 111g	1115	(500)005 /101
Tool Pusher:		
Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		` /
Safety:		
Brian Chandler (HSE Manager)	Office	(432) 686-3695
6 /	Cell	(817) 239-0251
	2011	(==:)====



Midland

Eddy County, NM (NAD 83 NME) Golden Graham 1 Fed Com #707H

OH

Plan: Plan #0.2

Standard Planning Report

14 September, 2023



Database: PEDM
Company: Midlan

Company: Midland
Project: Eddy Cou

Project: Eddy County, NM (NAD 83 NME)
Site: Eddy County, NM (NAD 83 NME)
Golden Graham 1 Fed Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

kb=25' @ 2945.0usft kb=25' @ 2945.0usft

Grid

Minimum Curvature

Project Eddy County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

Mean Sea Level

Using geodetic scale factor

Site Golden Graham 1 Fed Com

 Site Position:
 Northing:
 387,824.00 usft
 Latitude:
 32° 3′ 57.095 N

 From:
 Map
 Easting:
 633,373.00 usft
 Longitude:
 104° 2′ 10.396 W

System Datum:

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well #707H

0.0 usft 32° 4' 7.989 N **Well Position** +N/-S Northing: 388,921.00 usft Latitude: +E/-W 0.0 usft Easting: 631,969.00 usft Longitude: 104° 2' 26.678 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 2,920.0 usft

Grid Convergence: 0.16 °

Wellbore OH

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

 IGRF2020
 9/1/2023
 6.49
 59.62
 47,127.74168104

Design Plan #0.2

Audit Notes:

Version:Phase:PLANTie On Depth:0.0

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

 0.0
 0.0
 0.0
 3.05

Plan Survey Tool Program Date 9/14/2023

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 20,092.0 Plan #0.2 (OH) EOG MWD+IFR1

MWD + IFR1



Database: Company:

Design:

PEDM

Plan #0.2

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

 Site:
 Golden Graham 1 Fed Com

 Well:
 #707H

 Wellbore:
 OH

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #707H

kb=25' @ 2945.0usft kb=25' @ 2945.0usft

Grid

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,175.0	0.00	0.00	1,175.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,395.9	24.42	162.87	2,359.3	-244.9	75.5	2.00	2.00	0.00	162.87	
5,207.3	24.42	162.87	4,919.2	-1,355.6	417.7	0.00	0.00	0.00	0.00	
6,428.2	0.00	0.00	6,103.5	-1,600.5	493.1	2.00	-2.00	0.00	180.00	
9,428.2	0.00	0.00	9,103.5	-1,600.5	493.1	0.00	0.00	0.00	0.00	KOP(GG 1 Fed Com
9,974.7	65.59	0.20	9,538.2	-1,320.4	494.1	12.00	12.00	0.04	0.20	FTP(GG 1 Fed Com #
10,178.1	90.00	359.85	9,580.9	-1,123.0	494.2	12.00	12.00	-0.18	-0.86	
19,992.0	90.00	359.85	9,581.0	8,690.8	468.1	0.00	0.00	0.00	0.00	LTP(GG 1 Fed Com #
20,092.0	90.00	0.15	9,581.0	8,790.8	468.1	0.30	0.00	0.30	89.75	PBHL(GG 1 Fed Com

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 Fed Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

kb=25' @ 2945.0usft kb=25' @ 2945.0usft

Grid

sign:	FIAII #0.2								
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)
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
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
1,175.0	0.00	0.00	1,175.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.50	162.87	1,200.0	-0.1	0.0	-0.1	2.00	2.00	0.00
1,300.0	2.50	162.87	1,300.0	-2.6	0.8	-2.6	2.00	2.00	0.00
1,400.0	4.50	162.87	1,399.8	-8.4	2.6	-8.3	2.00	2.00	0.00
1,500.0	6.50	162.87	1,499.3	-17.6	5.4	-17.3	2.00	2.00	0.00
1,600.0	8.50	162.87	1,598.4	-30.1	9.3	-29.5	2.00	2.00	0.00
1,700.0	10.50	162.87	1,697.1	-45.8	14.1	-45.0	2.00	2.00	0.00
1,800.0	12.50	162.87	1,795.1	-64.9	20.0	-63.7	2.00	2.00	0.00
1,900.0	14.50	162.87	1,892.3	-87.2	26.9	-85.7	2.00	2.00	0.00
2,000.0	16.50	162.87	1,988.6	-112.7	34.7	-110.7	2.00	2.00	0.00
2,100.0	18.50	162.87	2,084.0	-141.5	43.6	-139.0	2.00	2.00	0.00
2,200.0	20.50	162.87	2,178.3	-173.4	53.4	-170.3	2.00	2.00	0.00
2,300.0	22.50	162.87	2,271.3	-208.4	64.2	-204.7	2.00	2.00	0.00
2,395.9	24.42	162.87	2,359.3	-244.9	75.5	-240.5	2.00	2.00	0.00
2,400.0	24.42	162.87	2,363.0	-246.5	76.0	-242.1	0.00	0.00	0.00
2,500.0	24.42	162.87	2,454.1	-286.0	88.1	-280.9	0.00	0.00	0.00
2,600.0	24.42	162.87	2,545.1	-325.5	100.3	-319.7	0.00	0.00	0.00
2,700.0	24.42	162.87	2,636.2	-365.0	112.5	-358.5	0.00	0.00	0.00
2,800.0	24.42	162.87	2,727.2	-404.5	124.6	-397.3	0.00	0.00	0.00
2,900.0	24.42	162.87	2,818.3	-444.0	136.8	-436.1	0.00	0.00	0.00
3,000.0	24.42	162.87	2,909.3	-483.5	149.0	-474.9	0.00	0.00	0.00
3,100.0	24.42	162.87	3,000.4	-523.0	161.2	-513.7	0.00	0.00	0.00
3,200.0	24.42	162.87	3,091.5	-562.6	173.3	-552.5	0.00	0.00	0.00
3,300.0	24.42	162.87	3,182.5	-602.1	185.5	-591.3	0.00	0.00	0.00
3,400.0	24.42	162.87	3,273.6	-641.6	197.7	-630.2	0.00	0.00	0.00
3,500.0	24.42	162.87	3,364.6	-681.1	209.9	-669.0	0.00	0.00	0.00
3,600.0	24.42	162.87	3,455.7	-720.6	222.0	-707.8	0.00	0.00	0.00
3,700.0	24.42	162.87	3,546.7	-760.1	234.2	-746.6	0.00	0.00	0.00
3,800.0	24.42	162.87	3,637.8	-799.6	246.4	-785.4	0.00	0.00	0.00
3,900.0	24.42	162.87	3,728.8	-839.1	258.5	-824.2	0.00	0.00	0.00
4,000.0	24.42	162.87	3,819.9	-878.6	270.7	-863.0	0.00	0.00	0.00
4,100.0	24.42	162.87	3,910.9	-918.1	282.9	-901.8	0.00	0.00	0.00
4,200.0	24.42	162.87	4,002.0	-957.6	295.1	-940.6	0.00	0.00	0.00
4,300.0	24.42	162.87	4,093.1	-997.1	307.2	-979.4	0.00	0.00	0.00
4,400.0	24.42	162.87	4,184.1	-1,036.6	319.4	-1,018.2	0.00	0.00	0.00
4,500.0	24.42	162.87	4,275.2	-1,076.1	331.6	-1,057.0	0.00	0.00	0.00
4,600.0	24.42	162.87	4,366.2	-1,115.7	343.8	-1,095.8	0.00	0.00	0.00
4,700.0	24.42	162.87	4,457.3	-1,155.2	355.9	-1,134.6	0.00	0.00	0.00
4,800.0	24.42	160 07	1 510 2	1 104 7	260 4	1 179 /	0.00	0.00	0.00
	24.42	162.87	4,548.3	-1,194.7	368.1	-1,173.4	0.00	0.00	0.00
4,900.0	24.42	162.87	4,639.4	-1,234.2	380.3	-1,212.2	0.00	0.00	0.00
5,000.0	24.42	162.87	4,730.4	-1,273.7	392.5	-1,251.0	0.00	0.00	0.00
5,100.0	24.42	162.87	4,821.5	-1,313.2	404.6	-1,289.8	0.00	0.00	0.00



Database: PEDM Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 Fed Com

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

kb=25' @ 2945.0usft kb=25' @ 2945.0usft

Grid

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)
5,207.3	24.42	162.87	4,919.2	-1,355.6	417.7	-1,331.5	0.00	0.00	0.00
5,300.0	22.56	162.87	5,004.2	-1,390.9	428.6	-1,366.1	2.00	-2.00	0.00
5,400.0	20.56	162.87	5,097.2	-1,426.0	439.4	-1,400.6	2.00	-2.00	0.00
5,500.0	18.56	162.87	5,191.4	-1,458.0	449.2	-1,432.1	2.00	-2.00	0.00
5,600.0	16.56	162.87	5,286.8	-1,486.8	458.1	-1,460.4	2.00	-2.00	0.00
5,700.0	14.56	162.87	5,383.1	-1,512.5	466.0	-1,485.6	2.00	-2.00	0.00
5,800.0	12.56	162.87	5,480.3	-1,534.9	472.9	-1,507.6	2.00	-2.00	0.00
5,900.0	10.56	162.87	5,578.3	-1,554.1	478.8	-1,526.4	2.00	-2.00	0.00
6,000.0	8.56	162.87	5,676.9	-1,569.9	483.7	-1,542.0	2.00	-2.00	0.00
6,100.0	6.56	162.87	5,776.0	-1,582.5	487.6	-1,554.4	2.00	-2.00	0.00
6,200.0	4.56	162.87	5,875.5	-1,591.8	490.5	-1,563.5	2.00	-2.00	0.00
6,300.0	2.56	162.87	5,975.3	-1,597.7	492.3	-1,569.3	2.00	-2.00	0.00
6,400.0	0.56	162.87	6,075.3	-1,600.3	493.1	-1,571.9	2.00	-2.00	0.00
6,428.2	0.00	0.00	6,103.5	-1,600.5	493.1	-1,572.0	2.00	-2.00	0.00
6,500.0	0.00	0.00	6,175.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,275.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,375.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,475.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,575.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,675.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,100.0	0.00	0.00	6,775.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,200.0	0.00	0.00	6,875.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,300.0	0.00	0.00	6,975.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,075.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,175.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,275.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,375.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,475.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,575.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,675.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,100.0	0.00	0.00	7,775.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,200.0	0.00	0.00	7,875.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,300.0	0.00	0.00	7,975.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,075.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,175.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,275.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,375.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,475.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,575.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
9,000.0		0.00	8,675.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
9,100.0	0.00	0.00	8,775.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
9,200.0	0.00	0.00	8,875.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
9,300.0		0.00	8,975.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
9,400.0		0.00	9,075.3	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
9,428.2	0.00	0.00	9,103.5	-1,600.5	493.1	-1,572.0	0.00	0.00	0.00
•	Fed Com #707H)								
9,450.0	2.61	0.20	9,125.3	-1,600.0	493.1	-1,571.5	12.00	12.00	0.00
9,475.0	5.61	0.20	9,150.2	-1,598.2	493.2	-1,569.7	12.00	12.00	0.00
9,500.0		0.20	9,175.0	-1,595.1	493.2	-1,566.6	12.00	12.00	0.00
9,525.0	11.62	0.20	9,199.6	-1,590.7	493.2	-1,562.2	12.00	12.00	0.00
9,550.0		0.20	9,224.0	-1,585.0	493.2	-1,556.6	12.00	12.00	0.00
9,575.0	17.62	0.20	9,248.0	-1,578.1	493.2	-1,549.6	12.00	12.00	0.00
9,600.0	20.62	0.20	9,271.6	-1,569.9	493.3	-1,541.4	12.00	12.00	0.00
0,000.0	20.02	0.20	3,271.0	.,500.0	100.0	.,011.1	12.00	12.00	3.00



Database: PEDM Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Eddy County, NM (NAD 83 NME)
Site: Eddy County, NM (NAD 83 NME)

 Well:
 #707H

 Wellbore:
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 Design:
 Plan #0.2

Local Co-ordinate Reference:

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North Reference:

Survey Calculation Method:

Well #707H

kb=25' @ 2945.0usft kb=25' @ 2945.0usft

Grid

lanned 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)
9,625.0	23.62	0.20	9,294.7	-1,560.5	493.3	-1,532.0	12.00	12.00	0.00
9,650.0	26.62	0.20	9,317.4	-1,549.9	493.3	-1,521.5	12.00	12.00	0.00
9,675.0	29.62	0.20	9,339.4	-1,538.1	493.4	-1,509.7	12.00	12.00	0.00
9,700.0	32.62	0.20	9,360.8	-1,525.2	493.4	-1,496.8	12.00	12.00	0.00
9,725.0	35.62	0.20	9,381.5	-1,511.2	493.5	-1,482.8	12.00	12.00	0.00
9,750.0	38.62	0.20	9,401.5	-1,496.1	493.5	-1,467.7	12.00	12.00	0.00
9,775.0	41.62	0.20	9,420.6	-1,480.0	493.6	-1,451.6	12.00	12.00	0.00
9,800.0	44.62	0.20	9,438.8	-1,462.9	493.6	-1,434.6	12.00	12.00	0.00
9,825.0	47.62	0.20	9,456.1	-1,444.9	493.7	-1,416.6	12.00	12.00	0.00
9,850.0	50.62	0.20	9,472.5	-1,426.0	493.8	-1,397.7	12.00	12.00	0.00
9,875.0	53.62	0.20	9,487.8	-1,406.2	493.8	-1,378.0	12.00	12.00	0.00
9,900.0	56.62	0.20	9,502.1	-1,385.7	493.9	-1,357.5	12.00	12.00	0.00
9,925.0	59.62	0.20	9,515.3	-1,364.5	494.0	-1,336.3	12.00	12.00	0.00
9,950.0	62.63	0.20	9,527.4	-1,342.6	494.1	-1,314.4	12.00	12.00	0.00
9,974.7	65.59	0.20	9,538.2	-1,320.4	494.1	-1,292.2	12.00	12.00	0.00
•	ed Com #707H)	0.45	0.540.0	4.007.1	40.1.0	4 000 0	40.00	40.00	0.40
10,000.0	68.63	0.15	9,548.0	-1,297.1	494.2	-1,269.0	12.00	12.00	-0.19
10,025.0	71.63	0.11	9,556.5	-1,273.6	494.3	-1,245.5	12.00	12.00	-0.19
10,050.0	74.62 77.62	0.06 0.02	9,563.8	-1,249.6	494.3	-1,221.6	12.00	12.00	-0.18
10,075.0			9,569.8	-1,225.4	494.3	-1,197.4	12.00	12.00	-0.17
10,100.0	80.62	359.98	9,574.5	-1,200.8	494.3	-1,172.8	12.00	12.00	-0.17
10,125.0	83.62	359.94	9,577.9	-1,176.1	494.3	-1,148.1	12.00	12.00	-0.17
10,150.0	86.62	359.89	9,580.1	-1,151.2	494.3	-1,123.3	12.00	12.00	-0.17
10,175.0	89.62	359.85	9,580.9	-1,126.2	494.2	-1,098.3	12.00	12.00	-0.16
10,178.1	90.00	359.85	9,580.9	-1,123.0	494.2	-1,095.2	12.00	12.00	-0.16
10,200.0	90.00	359.85	9,580.9	-1,101.2	494.1	-1,073.3	0.00	0.00	0.00
10,300.0	90.00	359.85	9,580.9	-1,001.2	493.9	-973.5	0.00	0.00	0.00
10,400.0	90.00	359.85	9,580.9	-901.2	493.6	-873.7	0.00	0.00	0.00
10,500.0	90.00	359.85	9,580.9	-801.2	493.3	-773.8	0.00	0.00	0.00
10,600.0	90.00	359.85	9,580.9	-701.2	493.1	-674.0	0.00	0.00	0.00
10,700.0	90.00	359.85	9,580.9	-601.2	492.8	-574.1	0.00	0.00	0.00
10,800.0	90.00	359.85	9,580.9	-501.2	492.5	-474.3	0.00	0.00	0.00
10,900.0	90.00	359.85	9,580.9	-401.2	492.3	-374.4	0.00	0.00	0.00
11,000.0	90.00	359.85	9,580.9	-301.2	492.0	-274.6	0.00	0.00	0.00
11,100.0	90.00	359.85	9,580.9	-201.2	491.7	-174.8	0.00	0.00	0.00
11,200.0	90.00	359.85	9,580.9	-101.2	491.5	-74.9	0.00	0.00	0.00
11,300.0	90.00 90.00	359.85 350.85	9,580.9	-1.2 98.8	491.2 491.0	24.9	0.00	0.00 0.00	0.00
11,400.0 11,500.0	90.00	359.85 359.85	9,580.9 9,580.9	98.8 198.8	491.0 490.7	124.8 224.6	0.00 0.00	0.00	0.00 0.00
11,600.0	90.00	359.85 359.85	9,580.9	298.8	490.7 490.4	324.5	0.00	0.00	0.00
11,700.0	90.00	359.85	9,580.9	398.8	490.2	424.3	0.00	0.00	0.00
11,800.0	90.00	359.85	9,580.9	498.8	489.9	524.2	0.00	0.00	0.00
11,900.0	90.00	359.85	9,580.9	598.8	489.6	624.0	0.00	0.00	0.00
12,000.0	90.00	359.85	9,580.9	698.8	489.4	723.8	0.00	0.00	0.00
12,100.0	90.00	359.85	9,580.9	798.8	489.1	823.7	0.00	0.00	0.00
12,200.0	90.00	359.85	9,580.9	898.8	488.8	923.5	0.00	0.00	0.00
12,300.0	90.00	359.85	9,580.9	998.8	488.6	1,023.4	0.00	0.00	0.00
12,400.0	90.00	359.85	9,580.9	1,098.8	488.3	1,123.2	0.00	0.00	0.00
12,500.0	90.00	359.85	9,580.9	1,198.8	488.0	1,223.1	0.00	0.00	0.00
12,600.0	90.00	359.85	9,580.9	1,298.8	487.8	1,322.9	0.00	0.00	0.00
12,700.0	90.00	359.85	9,580.9	1,398.8	487.5	1,422.8	0.00	0.00	0.00
12,800.0	90.00	359.85	9,580.9	1,498.8	487.2	1,522.6	0.00	0.00	0.00
12,900.0	90.00	359.85	9,580.9	1,598.8	487.0	1,622.4	0.00	0.00	0.00
13,000.0	90.00	359.85	9,580.9	1,698.8	486.7	1,722.3	0.00	0.00	0.00



Database: PEDM Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Eddy County, NM (NAD 83 NME)
Site: Eddy County, NM (NAD 83 NME)

 Well:
 #707H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #707H

kb=25' @ 2945.0usft kb=25' @ 2945.0usft

Grid

Joong									
Planned 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)
13,100.0	90.00	359.85	9,580.9	1,798.8	486.4	1,822.1	0.00	0.00	0.00
13,200.0	90.00	359.85	9,580.9	1,898.8	486.2	1,922.0	0.00	0.00	0.00
13,300.0	90.00	359.85	9,580.9	1,998.8	485.9	2,021.8	0.00	0.00	0.00
13,400.0	90.00	359.85	9,580.9	2,098.8	485.6	2,121.7	0.00	0.00	0.00
13,500.0	90.00	359.85	9,580.9	2,198.8	485.4	2,221.5	0.00	0.00	0.00
13,600.0	90.00	359.85	9,580.9	2,298.8	485.1	2,321.4	0.00	0.00	0.00
13,700.0	90.00	359.85	9,580.9	2,398.8	484.8	2,421.2	0.00	0.00	0.00
13,800.0	90.00	359.85	9,580.9	2,498.8	484.6	2,521.0	0.00	0.00	0.00
13,900.0	90.00	359.85	9,580.9	2,598.8	484.3	2,620.9	0.00	0.00	0.00
14,000.0	90.00	359.85	9,580.9	2,698.8	484.0	2,720.7	0.00	0.00	0.00
14,100.0	90.00	359.85	9,580.9	2,798.8	483.8	2,820.6	0.00	0.00	0.00
14,200.0	90.00	359.85	9,580.9	2,898.8	483.5	2,920.4	0.00	0.00	0.00
14,300.0	90.00	359.85	9,580.9	2,998.8	483.2	3,020.3	0.00	0.00	0.00
14,400.0	90.00	359.85	9,580.9	3,098.8	483.0	3,120.1	0.00	0.00	0.00
14,500.0	90.00	359.85	9,580.9	3,198.8	482.7	3,219.9	0.00	0.00	0.00
14,600.0	90.00	359.85	9,580.9	3,298.8	482.4	3,319.8	0.00	0.00	0.00
14,700.0	90.00	359.85	9,580.9	3,398.8	482.2	3,419.6	0.00	0.00	0.00
14,800.0	90.00	359.85	9,580.9	3,498.8	481.9	3,519.5	0.00	0.00	0.00
14,900.0	90.00	359.85	9,580.9	3,598.8	481.6	3,619.3	0.00	0.00	0.00
15,000.0	90.00	359.85	9,580.9	3,698.8	481.4	3,719.2	0.00	0.00	0.00
15,100.0	90.00	359.85	9,580.9	3,798.8	481.1	3,819.0	0.00	0.00	0.00
15,200.0	90.00	359.85	9,580.9	3,898.8	480.8	3,918.9	0.00	0.00	0.00
15,300.0	90.00	359.85	9,580.9	3,998.8	480.6	4,018.7	0.00	0.00	0.00
15,400.0	90.00	359.85	9,580.9	4,098.8	480.3	4,118.5	0.00	0.00	0.00
15,500.0	90.00	359.85	9,580.9	4,198.8	480.0	4,218.4	0.00	0.00	0.00
15,600.0	90.00	359.85	9,580.9	4,298.8	479.8	4,318.2	0.00	0.00	0.00
15,700.0	90.00	359.85	9,580.9	4,398.8	479.5	4,418.1	0.00	0.00	0.00
15,800.0	90.00	359.85	9,581.0	4,498.8	479.2	4,517.9	0.00	0.00	0.00
15,900.0	90.00	359.85	9,581.0	4,598.8	479.0	4,617.8	0.00	0.00	0.00
16,000.0	90.00	359.85	9,581.0	4,698.8	478.7	4,717.6	0.00	0.00	0.00
16,100.0	90.00	359.85	9,581.0	4,798.8	478.4	4,817.5	0.00	0.00	0.00
16,200.0	90.00	359.85	9,581.0	4,898.8	478.2	4,917.3	0.00	0.00	0.00
16,300.0	90.00	359.85	9,581.0	4,998.8	477.9	5,017.1	0.00	0.00	0.00
16,400.0	90.00	359.85	9,581.0	5,098.8	477.7	5,117.0	0.00	0.00	0.00
16,500.0	90.00	359.85	9,581.0	5,198.8	477.4	5,216.8	0.00	0.00	0.00
16,600.0	90.00	359.85	9,581.0	5,298.8	477.1	5,316.7	0.00	0.00	0.00
16,700.0	90.00	359.85	9,581.0	5,398.8	476.9	5,416.5	0.00	0.00	0.00
16,800.0	90.00	359.85	9,581.0	5,498.8	476.6	5,516.4	0.00	0.00	0.00
16,900.0	90.00	359.85	9,581.0	5,598.8	476.3	5,616.2	0.00	0.00	0.00
17,000.0	90.00	359.85	9,581.0	5,698.8	476.1	5,716.0	0.00	0.00	0.00
17,100.0	90.00	359.85	9,581.0	5,798.8	475.8	5,815.9	0.00	0.00	0.00
17,200.0	90.00	359.85	9,581.0	5,898.8	475.5	5,915.7	0.00	0.00	0.00
17,300.0	90.00	359.85	9,581.0	5,998.8	475.3	6,015.6	0.00	0.00	0.00
17,400.0	90.00	359.85	9,581.0	6,098.8	475.0	6,115.4	0.00	0.00	0.00
17,500.0	90.00	359.85	9,581.0	6,198.8	474.7	6,215.3	0.00	0.00	0.00
17,600.0	90.00	359.85	9,581.0	6,298.8	474.5	6,315.1	0.00	0.00	0.00
17,700.0	90.00	359.85	9,581.0	6,398.8	474.2	6,415.0	0.00	0.00	0.00
17,800.0	90.00	359.85	9,581.0	6,498.8	473.9	6,514.8	0.00	0.00	0.00
17,900.0	90.00	359.85	9,581.0	6,598.8	473.7	6,614.6	0.00	0.00	0.00
18,000.0	90.00	359.85	9,581.0	6,698.8	473.4	6,714.5	0.00	0.00	0.00
18,100.0	90.00	359.85	9,581.0	6,798.8	473.1	6,814.3	0.00	0.00	0.00
18,200.0	90.00	359.85	9,581.0	6,898.8	472.9	6,914.2	0.00	0.00	0.00
18,300.0	90.00	359.85	9,581.0	6,998.8	472.6	7,014.0	0.00	0.00	0.00
18,400.0	90.00	359.85	9,581.0	7,098.8	472.3	7,113.9	0.00	0.00	0.00



Database: Company:

Site:

PEDM

Company: Midland
Project: Eddy Co

Eddy County, NM (NAD 83 NME) Golden Graham 1 Fed Com

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 #707H

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 Design:
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Local Co-ordinate Reference:

TVD Reference:
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North Reference:

Survey Calculation Method:

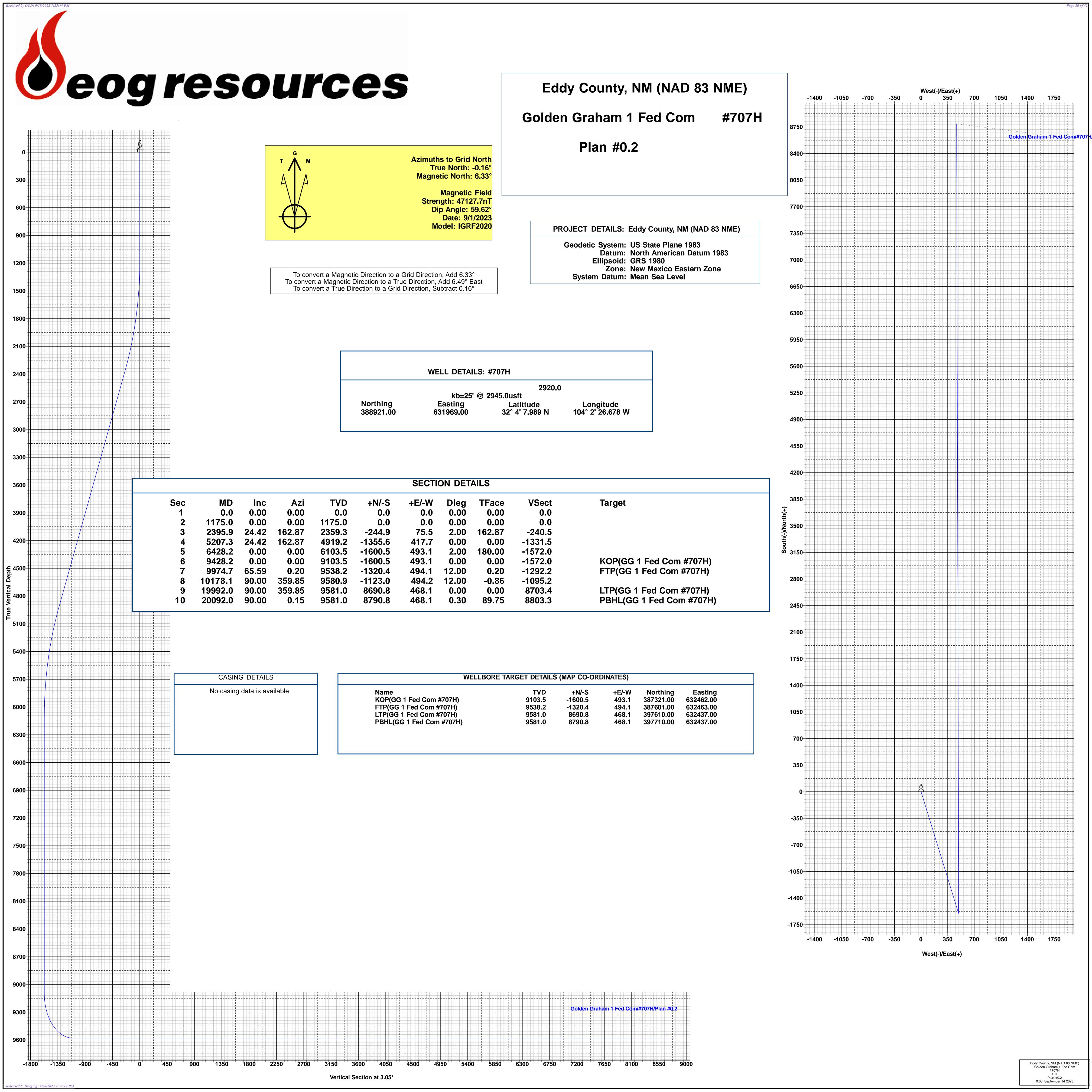
Well #707H

kb=25' @ 2945.0usft kb=25' @ 2945.0usft

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)
18,500.0	90.00	359.85	9,581.0	7,198.8	472.1	7,213.7	0.00	0.00	0.00
18,600.0	90.00	359.85	9,581.0	7,298.8	471.8	7,313.6	0.00	0.00	0.00
18,700.0	90.00	359.85	9,581.0	7,398.8	471.5	7,413.4	0.00	0.00	0.00
18,800.0	90.00	359.85	9,581.0	7,498.8	471.3	7,513.2	0.00	0.00	0.00
18,900.0	90.00	359.85	9,581.0	7,598.8	471.0	7,613.1	0.00	0.00	0.00
19,000.0	90.00	359.85	9,581.0	7,698.8	470.7	7,712.9	0.00	0.00	0.00
19,100.0	90.00	359.85	9,581.0	7,798.8	470.5	7,812.8	0.00	0.00	0.00
19,200.0	90.00	359.85	9,581.0	7,898.8	470.2	7,912.6	0.00	0.00	0.00
19,300.0	90.00	359.85	9,581.0	7,998.8	469.9	8,012.5	0.00	0.00	0.00
19,400.0	90.00	359.85	9,581.0	8,098.8	469.7	8,112.3	0.00	0.00	0.00
19,500.0	90.00	359.85	9,581.0	8,198.8	469.4	8,212.2	0.00	0.00	0.00
19,600.0	90.00	359.85	9,581.0	8,298.8	469.1	8,312.0	0.00	0.00	0.00
19,700.0	90.00	359.85	9,581.0	8,398.8	468.9	8,411.8	0.00	0.00	0.00
19,800.0	90.00	359.85	9,581.0	8,498.8	468.6	8,511.7	0.00	0.00	0.00
19,900.0	90.00	359.85	9,581.0	8,598.8	468.3	8,611.5	0.00	0.00	0.00
19,992.0	90.00	359.85	9,581.0	8,690.8	468.1	8,703.4	0.00	0.00	0.00
LTP(GG 1 Fe	ed Com #707H)								
20,000.0	90.00	359.87	9,581.0	8,698.8	468.1	8,711.4	0.30	0.00	0.30
20,092.0	90.00	0.15	9,581.0	8,790.8	468.1	8,803.3	0.30	0.00	0.30

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(GG 1 Fed Com #7\) - plan hits target cente - Point	0.00 er	0.00	9,103.5	-1,600.5	493.1	387,321.00	632,462.00	32° 3′ 52.142 N	104° 2' 20.999 W
FTP(GG 1 Fed Com #70 - plan hits target cente - Point	0.00 er	0.00	9,538.2	-1,320.4	494.1	387,601.00	632,463.00	32° 3' 54.913 N	104° 2' 20.979 W
PBHL(GG 1 Fed Com #: - plan hits target cente - Point	0.00 er	0.00	9,581.0	8,790.8	468.1	397,710.00	632,437.00	32° 5' 34.954 N	104° 2' 20.961 W
LTP(GG 1 Fed Com #70 - plan hits target cente - Point	0.00 er	0.00	9,581.0	8,690.8	468.1	397,610.00	632,437.00	32° 5′ 33.964 N	104° 2' 20.964 W



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:EO	G Resources, Inc	cOGRID	: 7377		Dat	e: 9/16/	2023	
II. Type: ⊠ Origi	nal □ Amendm	ent due to □ 19.15.2	27.9.D(6)(a) NN	IAC □ 19.15.27.	9.D(6)(b)) NMAC	□ Oth	ier.
If Other, please descri	be:							
III. Well(s): Provide to be recompleted from a					wells pro	posed to	be dril	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		ipated ICF/D		Anticipated roduced Water BBL/D
GOLDEN GRAHAM 1 FED COM 707H		K-1-26S-28E	1655' FSL & 2647' FWL	+/- 1000	+/- 350	00	+/- 30)00
V. Anticipated Sche or proposed to be reco	dule: Provide th	ne following informa	tion for each ne	w or recompleted	well or s		lls prop	,
			Date	Commencement	Date	Back D	Date	Date
GOLDEN GRAHAM 1 FED COM 707H		10/1/23	10/15/23	12/08/23		1/08/24		2/08/24
VI. Separation Equip VII. Operational Pra Subsection A through VIII. Best Managem during active and plan	nctices: ⊠ Attac F of 19.15.27.8 ent Practices: [ch a complete descri NMAC. ⊠ Attach a complete	ption of the act	ions Operator wi	ll take to	comply	with th	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:

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

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering	Available Maximum Daily Capacity
			Start Date	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	\square will \square will not have	capacity to gather 100%	of the anticipated natural gas
production volume from the well prior to the date of first	st production.		

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment, or po	rtion, of th	ıe
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the no	ew well(s)).

	Attach (Operator	'e nlan t	o manage	production	in recoonce	to the increas	ad lina praces	ıırα
1 1	Anach (Oberator	s bian i	о шапаре	DIOGHICHOH	in response	TO THE INCREAS	ea tine bressi	ше

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information prov	vided 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 of the	rmation
for which confidentiality is asserted and the basis for such assertion.	

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;
- (e) reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

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

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

Signature: Star L Harrell
Printed Name: Star L Harrell
Title: Sr Regulatory Specialist
E-mail Address: Star_Harrell@eogresources.com
Date: 9/16/2023
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.