Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUR	EAU OF LAND MANAGEMENT	5. Lease Serial No.	IMNM12559			
Do not use this t	IOTICES AND REPORTS ON W form for proposals to drill or to Use Form 3160-3 (APD) for suc	6. If Indian, Allottee of	or Tribe Name			
SUBMIT IN	TRIPLICATE - Other instructions on pag	7. If Unit of CA/Agre	ement, Name and/or No.			
1. Type of Well ✓ Oil Well Gas W	Vell Other		8. Well Name and No	OLDEN GRAHAM 1 FED COM/706H		
2. Name of Operator EOG RESOURG	CES INCORPORATED		9. API Well No. 30-0	15-48318		
	BY 2, HOUSTON, TX 77(3b. Phone No.	(include area code)	10. Field and Pool or			
	(713) 651-70		PURPLE SAGE/W			
4. Location of Well <i>(Footage, Sec., T., K</i> SEC 1/T26S/R28E/NMP	R.,M., or Survey Description)		11. Country or Parish	, State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF NOTI	CE, REPORT OR OTI	HER DATA		
TYPE OF SUBMISSION		TYPE OF ACT	ΓΙΟΝ			
✓ Notice of Intent	Acidize Deep Alter Casing Hydr	_	uction (Start/Resume)	Water Shut-Off Well Integrity		
Subsequent Report			mplete	Other		
Final Abandonment Notice			oorarily Abandon r Disposal			
completed. Final Abandonment No is ready for final inspection.) EOG respectfully requests an the following changes: Golden Graham 1 Fed Com 70 Change name from Golden Grahame From T-26-S, R-28-E, Sec 1, 589 Change BHL from T-25-S, R-28-E, Sec 1, 589	ons. If the operation results in a multiple contices must be filed only after all requirement amendment to our approved APD for this observation of the continuous provided and the continuous provided and the continuous provided and the continuous provided and continuous	s, including reclamation, have s well to reflect am 1 Fed Com 708H. Co., NM,				
	true and correct. Name (Printed/Typed)	Regulatory Specialis	ot.			
STAR HARRELL / Ph: (432) 848-9161 Title						
Signature (Electronic Submission	on)	Date	11/02/2	023		
	THE SPACE FOR FED	ERAL OR STATE OF	ICE USE			
Approved by						
CHRISTOPHER WALLS / Ph: (575	5) 234-2234 / Approved	Petroleum Eng Title		11/20/2023 Date		
	hed. Approval of this notice does not warran equitable title to those rights in the subject le duct operations thereon.					

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Additional Remarks

Change target formation to Wolfcamp Clastics Y.

Update casing and cement program to current design.

Location of Well

0. SHL: SESE / 605 FSL / 1286 FEL / TWSP: 26S / RANGE: 28E / SECTION: 1 / LAT: 32.0660339 / LONG: -104.036284 (TVD: 0 feet, MD: 0 feet) PPP: SESE / 330 FSL / 330 FEL / TWSP: 26S / RANGE: 28E / SECTION: 1 / LAT: 32.0651762 / LONG: -104.0327192 (TVD: 12402 feet, MD: 12648 feet) PPP: NESE / 1329 FSL / 330 FEL / TWSP: 26S / RANGE: 28E / SECTION: 1 / LAT: 32.0680169 / LONG: -104.0332016 (TVD: 12450 feet, MD: 13655 feet) BHL: NENE / 230 FNL / 330 FEL / TWSP: 25S / RANGE: 28E / SECTION: 36 / LAT: 32.092958 / LONG: -104.0331977 (TVD: 12450 feet, MD: 22728 feet)

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

Phone: (575) 393-0161 Fax: (575) 393-0720

DISTRICT II

811 S. First St., Artesia, NM 88210

Phone: (575) 748-1285 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

Phone: (505) 346-178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fc, NM 87505

Phone: (505) 3476-3460 Fax: (505) 476-3462

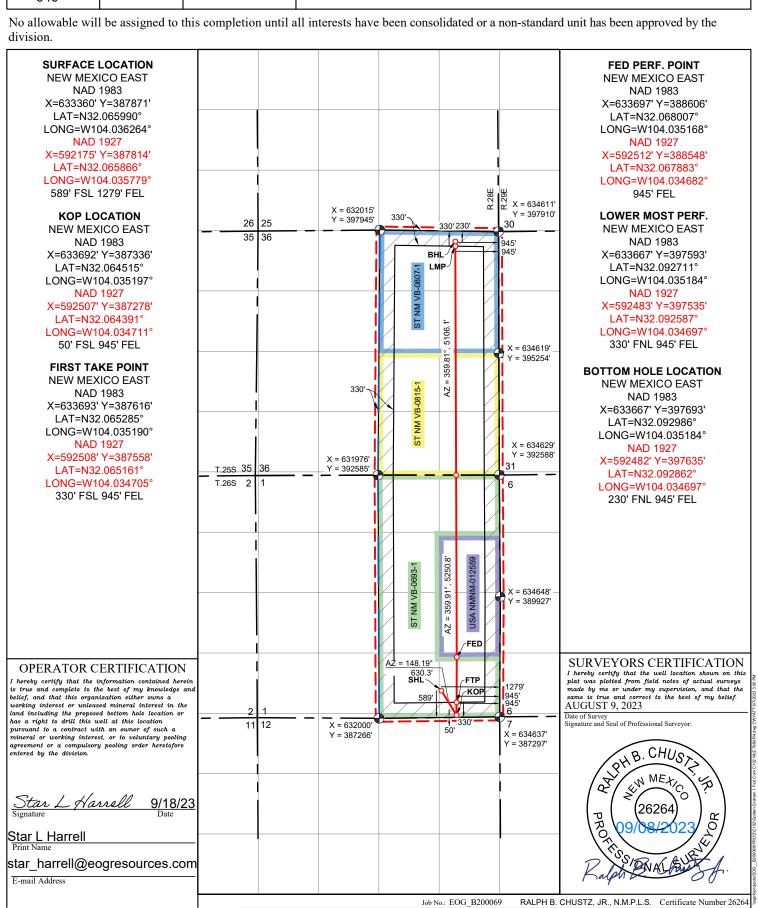
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-48	PI Number 3318		Pool Code 98220							
	Property Code Property Name									
33080	/			GOLD	EN GRAHAM	I FED COM		708F	1	
OGRID N	o.				Operator Nan	e		Elevati	on	
7377				EC	G RESOURC	ES, INC.		291	7'	
					Surface Loc	ation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Р	1	26 S	28 E	589 SOUTH 1279			EAST	EDDY		
			Bott	om Hole	Location If Di	fferent 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	36	25 S	28 E	E 230 NORTH 945 EAST EDDY						
Dedicated Acres	Joint or	Infill	Consolidated Co	nd Code Order No.						
640			PENDING COM AGREEMENT							





Revised Permit Information 07/12/2023:

Well Name: Golden Graham 1 Fed Com 708H

Location: SHL: 589' FSL & 1279' FEL, Section 1, T-26-S, R-28-E, Eddy Co., N.M.

BHL: 230' FNL & 945' FEL, Section 36, T-25-S, R-28-E, Eddy Co., N.M.

Casing Program:

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
11"	0	1,040	0	1,040	9-5/8"	36#	J-55	LTC
8-3/4"	0	8,506	0	8,440	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	8,006	0	7,940	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	8,006	8,506	7,940	8,440	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	8,506	19,796	8,440	9,581	5-1/2"	20#	P110-EC	DWC/C IS MS

Variance is requested to waive the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the production open hole section.

Cementing Program:

	<u> </u>	Wt.	Yld	Slurry Description	
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description	
1,040'	210	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-	
9-5/8''				Flake (TOC @ Surface)	
	50	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'	460	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%	
7-5/8''				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)	
19,796'	1940	13.2	1.41	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond	
5-1/2''				(TOC @ 7,940')	



Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" 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. Top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Mud Program:

Measured 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' – 9,164'	Oil Base	8.7-9.4	58-68	N/c - 6
9,164' – 19,796'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral	On base	10.0-14.0	30-08	4-0



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."

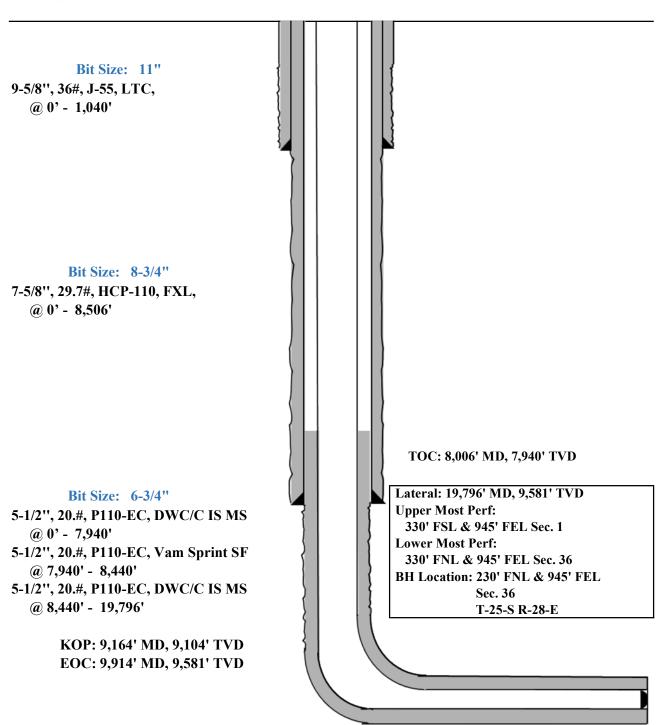
With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher 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.



589' FSL Revised Wellbore KB: 2942' 1279' FEL GL: 2917'

Section 1

T-26-S, R-28-E API: 30-015-48318





Design B

4. CASING PROGRAM

Hole	Interval MD		Interval 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	8,506	0	8,440	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	19,796	0	9,581	6"	22.3#	P110-EC	DWC/C IS

Variance is requested to waive the centralizer requirements for the 8-3/4" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 6" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 6" casing by 8-3/4" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500" overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the production open hole section.

Cementing Program:

		Wt.	Yld	Slurry Description	
Depth	No. Sacks	ppg	Ft3/sk	Sturry Description	
1,040'	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk	
10-3/4"				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'	520	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%	
8-3/4"				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)	
19,796'	1540	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond	
6"				(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 -101 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. Top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

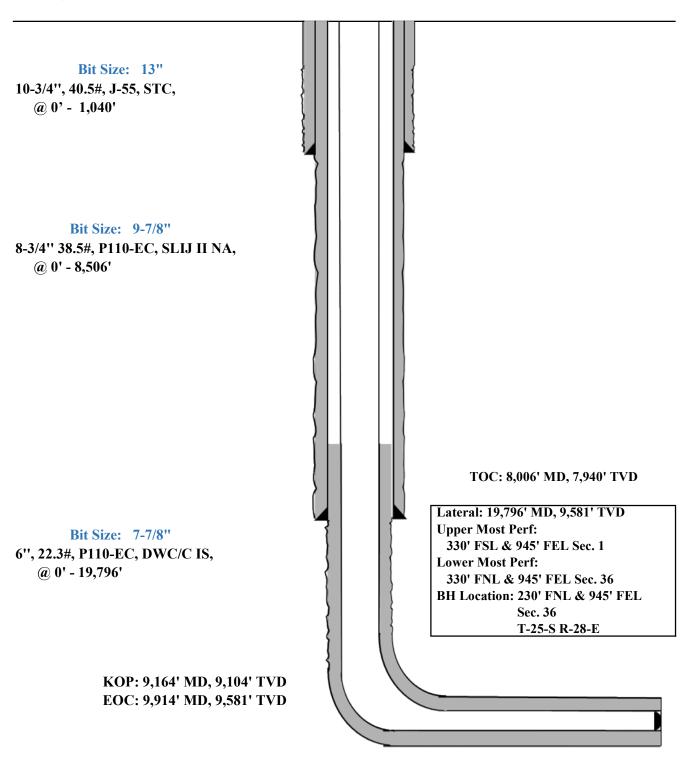
EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.



589' FSL Proposed Wellbore KB: 2942' 1279' FEL GL: 2917'

Section 1

T-26-S, R-28-E API: 30-015-48318





GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	934'
Tamarisk Anhydrite	1,013'
Top of Salt	1,175'
Base of Salt	2,421'
Lamar	2,634'
Bell Canyon	2,674'
Cherry Canyon	3,502'
Brushy Canyon	4,790'
Bone Spring Lime	6,327'
Leonard (Avalon) Shale	6,384'
1st Bone Spring Sand	7,270'
2nd Bone Spring Shale	7,497'
2nd Bone Spring Sand	7,980'
3rd Bone Spring Carb	8,337'
3rd Bone Spring Sand	9,124'
Wolfcamp	9,486'
TD	9,581'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	2,674'	Oil
Cherry Canyon	3,502'	Oil
Brushy Canyon	4,790'	Oil
Leonard (Avalon) Shale	6,384'	Oil
1st Bone Spring Sand	7,270'	Oil
2nd Bone Spring Shale	7,497'	Oil
2nd Bone Spring Sand	7,980'	Oil

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | EOG RESOURCES INCORPORATED WELL NAME & NO.: | GOLDEN GRAHAM 1 FED COM 708H

SURFACE HOLE FOOTAGE: 589'/S & 1276'/E BOTTOM HOLE FOOTAGE 230'/N & 430'/E

LOCATION: Section 1, T.26 S., R.28 E. COUNTY: Lea County, New Mexico

ALL PREVIOUS COAS STILL APPLY

COA

H2S	• Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	O Low	• Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Wellhead Variance	O Diverter		
Other	□4 String	☐ Capitan Reef	\square WIPP
Other	Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency		Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	□ СОМ	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	Break Testing	✓ Offline	Casing
Variance		Cementing	Clearance

A. CASING

Primary Casing Design:

- 1. The **9-5/8** inch surface casing shall be set at approximately **1,040** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

- completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **7-5/8** inch intermediate casing shall be set at approximately **8,506** feet. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The **5-1/2** inch surface casing shall be set at approximately **19,796** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Alternate Casing Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **1,040** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **8-3/4** inch intermediate casing shall be set at approximately **8,506** feet. **Keep casing full to stay within collapse SF requirement.** The minimum required fill of cement behind the **8-3/4** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- d. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Operator has proposed to pump down 10-3/4" X 8-3/4" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 8-3/4" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The 6 inch surface casing shall be set at approximately 19,796 feet. Keep casing full to stay within collapse SF requirement. The minimum required fill of cement behind the 6 inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

OK for surface and intermediate cementing. Notify the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance:

- 500' tie back OK in production interval.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM

88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV** (575) 361-2822

☑ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the

requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

- initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI 11/14/2023



Midland

Eddy County, NM (NAD 83 NME) Golden Graham 1 Fed Com #708H

OH

Plan: Plan #0.1

Standard Planning Report

14 September, 2023



PEDM Database: Company:

Midland

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

Well: #708H Wellbore: OH Plan #0.1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #708H

KB=25' @ 2942.0usft KB=25' @ 2942.0usft

Grid

Minimum Curvature

Project Eddy County, NM (NAD 83 NME)

US State Plane 1983 Map System: North American Datum 1983

Geo Datum: New Mexico Eastern Zone Map Zone:

System Datum:

Mean Sea Level

Using geodetic scale factor

Golden Graham 1 Fed Com

Northing: 387,824.00 usft Latitude: Site Position: 32° 3' 57.095 N From: Мар Easting: 633,373.00 usft Longitude: 104° 2' 10.396 W

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

Well #708H

Site

0.0 usft **Well Position** +N/-S Northing: 387,871.00 usft Latitude: 32° 3' 57.560 N +E/-W 0.0 usft Easting: 633,360.00 usft Longitude: 104° 2' 10.546 W

Position Uncertainty 0.0 usft Wellhead Elevation: usft **Ground Level:** 2,917.0 usft

0.16 ° **Grid Convergence:**

ОН Wellbore

Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,161.38671568 IGRF2015 9/14/2023 6.48 59.77

Design Plan #0.1

Audit Notes:

Phase: PLAN Tie On Depth: 0.0 Version:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 1.79

Plan Survey Tool Program Date 9/14/2023

Depth From Depth To

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

19,796.0 0.0 Plan #0.1 (OH) MWD

OWSG MWD - Standard



Database: PEDM Company: Midland

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

 Well:
 #708H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #708H

KB=25' @ 2942.0usft KB=25' @ 2942.0usft

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	
1,763.1	11.76	148.18	1,759.0	-51.1	31.7	2.00	2.00	0.00	148.18	
4,262.6	11.76	148.18	4,206.0	-484.1	300.4	0.00	0.00	0.00	0.00	
4,850.7	0.00	0.00	4,790.0	-535.2	332.1	2.00	-2.00	0.00	180.00	
9,164.2	0.00	0.00	9,103.5	-535.2	332.1	0.00	0.00	0.00	0.00	KOP(GG 1 FC #708F
9,710.7	65.59	0.20	9,538.2	-255.1	333.1	12.00	12.00	0.04	0.20	FTP(GG 1 FC #708H
9,914.1	89.99	0.23	9,580.9	-57.8	333.9	12.00	12.00	0.01	0.07	
10,707.1	89.99	0.23	9,581.0	735.2	337.1	0.00	0.00	0.00	0.00	Fed PP(GG 1 FC #70
19,695.9	90.01	359.38	9,581.0	9,723.9	307.1	0.01	0.00	-0.01	-88.84	LTP(GG 1 FC #708H
19,796.0	89.99	0.62	9,581.0	9,823.9	307.1	1.23	-0.02	1.23	90.80	PBHL(GG 1 FC #708



Database: PEDM Company: Midland

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

 Well:
 #708H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #708H

KB=25' @ 2942.0usft KB=25' @ 2942.0usft

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)
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				0.0				0.00	
	0.00	0.00	800.0		0.0	0.0	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	148.18	1,200.0	-0.1	0.1	-0.1	2.00	2.00	0.00
1,300.0	2.50	148.18	1,300.0	-2.3	1.4	-2.3	2.00	2.00	0.00
1 400 0	4 50	1/0 10	1,399.8	-7.5	4.7	-7.4	2.00	2.00	0.00
1,400.0	4.50	148.18	,					2.00	0.00
1,500.0	6.50	148.18	1,499.3	-15.6	9.7	-15.3	2.00	2.00	0.00
1,600.0	8.50	148.18	1,598.4	-26.7	16.6	-26.2	2.00	2.00	0.00
1,700.0	10.50	148.18	1,697.1	-40.8	25.3	-40.0	2.00	2.00	0.00
1,763.1	11.76	148.18	1,759.0	-51.1	31.7	-50.1	2.00	2.00	0.00
1,800.0	11.76	148.18	1,795.1	-57.5	35.7	-56.4	0.00	0.00	0.00
1,900.0	11.76	148.18	1,893.0	-74.8	46.4	-73.3	0.00	0.00	0.00
2,000.0	11.76	148.18	1,990.9	-92.1	57.2	-90.3	0.00	0.00	0.00
2,100.0	11.76	148.18	2,088.8	-109.5	67.9	-107.3	0.00	0.00	0.00
2,200.0	11.76	148.18	2,186.7	-126.8	78.7	-124.3	0.00	0.00	0.00
2,300.0	11.76	148.18	2,284.6	-144.1	89.4	-141.2	0.00	0.00	0.00
2,400.0	11.76	148.18	2,382.5	-161.4	100.2	-158.2	0.00	0.00	0.00
2,500.0	11.76	148.18	2,480.4	-178.7	110.9	-175.2	0.00	0.00	0.00
2,600.0	11.76	148.18	2,578.3	-196.1	121.7	-192.2	0.00	0.00	0.00
2,700.0	11.76	148.18	2,676.2	-213.4	132.4	-209.2	0.00	0.00	0.00
2,700.0	11.70	140.10	2,070.2	-213.4	132.4	-209.2	0.00	0.00	0.00
2,800.0	11.76	148.18	2,774.1	-230.7	143.2	-226.1	0.00	0.00	0.00
2,900.0	11.76	148.18	2,872.0	-248.0	153.9	-243.1	0.00	0.00	0.00
3,000.0	11.76	148.18	2,969.9	-265.4	164.7	-260.1	0.00	0.00	0.00
3,100.0	11.76	148.18	3,067.8	-282.7	175.4	-277.1	0.00	0.00	0.00
3,200.0	11.76	148.18	3,165.7	-300.0	186.2	-294.0	0.00	0.00	0.00
3,300.0	11.76	148.18	3,263.6	-317.3	196.9	-311.0	0.00	0.00	0.00
3,400.0	11.76	148.18	3,361.5	-334.6	207.7	-328.0	0.00	0.00	0.00
3,500.0	11.76	148.18	3,459.4	-352.0	218.4	-345.0	0.00	0.00	0.00
,									
3,600.0	11.76	148.18	3,557.3	-369.3	229.2	-361.9	0.00	0.00	0.00
3,700.0	11.76	148.18	3,655.2	-386.6	239.9	-378.9	0.00	0.00	0.00
3,800.0	11.76	148.18	3,753.1	-403.9	250.7	-395.9	0.00	0.00	0.00
3,900.0	11.76	148.18	3,851.0	-421.2	261.4	-412.9	0.00	0.00	0.00
4,000.0	11.76	148.18	3,948.9	-438.6	272.2	-412.9	0.00	0.00	0.00
4,100.0	11.76	148.18	4,046.8	-455.9	282.9	-446.8	0.00	0.00	0.00
4,200.0	11.76	148.18	4,144.7	-473.2	293.7	-463.8	0.00	0.00	0.00
4,262.6	11.76	148.18	4,206.0	-484.1	300.4	-474.4	0.00	0.00	0.00
4,300.0	11.01	148.18	4,242.7	-490.3	304.3	-480.6	2.00	-2.00	0.00
4,400.0	9.01	148.18	4,341.1	-505.1	313.4	-495.1	2.00	-2.00	0.00
4,500.0	7.01	148.18	4,440.1	-516.9	320.8	-506.7	2.00	-2.00	0.00
4,600.0	5.01	148.18	4,539.6	-525.8	326.3	-515.4	2.00	-2.00	0.00
4,700.0	3.01	148.18	4,639.3	-531.8	330.0	-521.2	2.00	-2.00	0.00
4,800.0	1.01	148.18	4,739.3	-534.8	331.9	-524.2	2.00	-2.00	0.00
4,850.7	0.00	0.00	4,790.0	-535.2	332.1	-524.5	2.00	-2.00	0.00
4,900.0	0.00	0.00	4,839.3	-535.2	332.1	-524.5	0.00	0.00	0.00

beog resources

Planning Report

Database: PEDM Company: Midland

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

 Well:
 #708H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #708H

KB=25' @ 2942.0usft KB=25' @ 2942.0usft

Grid

Doorgin.										
Planned	Survey									
	Measured			Vertical			Vertical	Dogleg	Build	Turn
	Depth		A!4l-	Depth	. N// O	. = / \A/	Section	Rate	Rate	Rate
	-	Inclination	Azimuth	•	+N/-S	+E/-W				
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	5,000.0	0.00	0.00	4,939.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	5,100.0	0.00	0.00	5,039.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	5,200.0	0.00	0.00	5,139.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	5,300.0	0.00	0.00	5,239.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	5,400.0	0.00	0.00	5,339.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	5,500.0	0.00	0.00	5,439.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	E 600 0	0.00	0.00	5,539.3	-535.2	222.4	-524.5	0.00	0.00	0.00
	5,600.0	0.00				332.1		0.00	0.00	
	5,700.0	0.00	0.00	5,639.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	5,800.0	0.00	0.00	5,739.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	5,900.0	0.00	0.00	5,839.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,000.0	0.00	0.00	5,939.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,100.0	0.00	0.00	6,039.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,200.0	0.00	0.00	6,139.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,300.0	0.00	0.00	6,239.3	-535.2 -535.2	332.1	-524.5 -524.5	0.00	0.00	0.00
	6,400.0	0.00	0.00	6,339.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,500.0	0.00	0.00	6,439.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,600.0	0.00	0.00	6,539.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,700.0	0.00	0.00	6,639.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,800.0	0.00	0.00	6,739.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	6,900.0	0.00	0.00	6,839.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,000.0	0.00	0.00	6,939.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,100.0	0.00	0.00	7,039.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,200.0	0.00	0.00	7,139.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,300.0	0.00	0.00	7,239.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,400.0	0.00	0.00	7,339.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,500.0	0.00	0.00	7,439.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,000,0	0.00	0.00				504.5	0.00		
	7,600.0	0.00	0.00	7,539.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,700.0	0.00	0.00	7,639.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,800.0	0.00	0.00	7,739.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	7,900.0	0.00	0.00	7,839.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,000.0	0.00	0.00	7,939.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,100.0	0.00	0.00	8,039.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,200.0	0.00	0.00	8,139.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,300.0	0.00	0.00	8,239.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,400.0		0.00	6,239.3 8,339.3	-535.2 -535.2	332.1	-524.5 -524.5		0.00	0.00
		0.00						0.00		
	8,500.0	0.00	0.00	8,439.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,600.0	0.00	0.00	8,539.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,700.0	0.00	0.00	8,639.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,800.0	0.00	0.00	8,739.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	8,900.0	0.00	0.00	8,839.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	9,000.0	0.00	0.00	8,939.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	9,100.0	0.00	0.00	9,039.3	-535.2	332.1	-524.5	0.00	0.00	0.00
	9,164.2	0.00	0.00	9,103.5	-535.2	332.1	-524.5	0.00	0.00	0.00
	KOP(GG 1 F	C #708H)								
	9,175.0	1.29	0.20	9,114.3	-535.0	332.1	-524.4	12.00	12.00	0.00
	9,200.0	4.29	0.20	9,139.2	-533.8	332.1	-523.2	12.00	12.00	0.00
	9,225.0	7.29	0.20	9,164.1	-531.3	332.1	-520.7	12.00	12.00	0.00
	,			•						
	9,250.0	10.29	0.20	9,188.8	-527.5	332.1	-516.8	12.00	12.00	0.00
	9,275.0	13.30	0.20	9,213.3	-522.4	332.1	-511.7	12.00	12.00	0.00
		16.30	0.20	9,237.4	-516.0	332.2	-505.4	12.00	12.00	0.00
	9,300.0									
	9,300.0 9,325.0	19.30	0.20	9,261.2	-508.3	332.2	-497.7	12.00	12.00	0.00
	9,325.0	19.30	0.20							
				9,261.2 9,284.6 9,307.5	-508.3 -499.5 -489.4	332.2 332.2 332.3	-497.7 -488.9 -478.8	12.00 12.00 12.00	12.00 12.00 12.00	0.00 0.00 0.00

beog resources

Planning Report

Database: PEDM Company: Midland

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

 Well:
 #708H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #708H

KB=25' @ 2942.0usft KB=25' @ 2942.0usft

Grid

Measured Inclination Azimuth Cyrtical Depth (usft) (Design:	Plan #0.1								
Depth (usft)	Planned Survey									
9,425,0 31,30 0.20 9,351,5 465,2 332,4 445,5 12,00 12,00 0.00 9,475,0 37,30 0.20 9,351,5 465,2 332,5 426,9 12,00 12,00 0.00 9,475,0 37,30 0.20 9,392,8 437,5 332,5 426,9 12,00 12,00 0.00 9,505,0 43,30 0.20 9,430,9 405,2 332,6 -344,6 12,00 12,00 0.00 9,555,0 43,30 0.20 9,448,6 -367,6 382,6 -377,0 12,00 12,00 0.00 9,555,0 48,30 0.20 9,448,6 -367,6 382,6 -377,0 12,00 12,00 0.00 9,555,0 48,30 0.20 9,448,6 -367,6 382,6 -377,0 12,00 12,00 0.00 9,555,0 48,30 0.20 9,448,6 -368,1 332,7 -358,5 12,00 12,00 0.00 9,600,0 52,30 0.20 9,466,4 -369,1 332,7 -358,5 12,00 12,00 0.00 9,600,0 52,30 0.20 9,468,0 -322,5 332,8 -339,1 12,00 12,00 0.00 9,650,0 58,30 0.20 9,509,7 -308,6 332,9 -298,1 12,00 12,00 0.00 9,675,0 61,30 0.20 9,509,7 -308,6 332,9 -298,1 12,00 12,00 0.00 9,675,0 61,30 0.20 9,532,2 -287,0 333,0 -278,5 12,00 12,00 0.00 9,707,7 65,59 0.20 9,538,2 -255,1 332,8 333,1 -254,2 12,00 12,00 0.00 9,700,0 64,30 0.20 9,538,2 -255,1 333,1 -244,5 12,00 12,00 0.00 9,700,7 65,59 0.20 9,538,2 -255,1 333,1 -244,5 12,00 12,00 0.00 9,750,7 70,1 0.00 9,538,2 -255,1 333,1 -244,5 12,00 12,00 0.00 9,750,7 70,1 0.00 9,750,7 70,1 0.00 9,538,2 -255,1 333,1 -244,5 12,00 12,00 0.00 9,750,0 70,1 0.00 9,538,2 -255,1 333,1 -244,5 12,00 12,00 0.00 9,750,0 70,1 0.00 9,750,0 70,1 0.00 9,552,9 -248,7 333,2 -244,5 12,00 12,00 0.00 9,750,0 70,1 0.00 9,750,0 70,1 0.21 9,560,8 19,49,9 333,1 12,0 12,0 12,0 0.00 9,850,0 70,31 0.22 9,572,6 146,4 333,5 135,9 12,00 12,00 12,00 0.01 9,850,0 70,31 0.22 9,572,6 146,4 333,5 135,9 12,00 12,00 0.01 9,875,0 73,1 0.22 9,572,6 146,4 333,5 135,9 12,00 12,00 12,00 0.01 9,875,0 73,1 0.23 9,580,9 12,1 334,2 38,5 0.00 0.00 0.00 0.00 9,875,0 8,99 0.23 9,580,9 12,1 334,2 38,5 0.00 0.00 0.00 0.00 10,00 0.00 89,99 0.23 9,580,9 12,1 334,2 38,5 0.00 0.00 0.00 0.00 10,00 0.00 89,99 0.23 9,580,9 12,81 334,2 38,5 0.00 0.00 0.00 0.00 10,00 0.00 89,99 0.23 9,581,0 735,2 337,1 745,4 0.00 0.00 0.00 0.00 10,00 0.00 89,99 0.23 9,581,0 735,2 337,1 745,4 0.00 0.00 0.00 0.00 11,000 89,99 0.23 9,581,0 735,2 337,1 338,2 0.01 0.00 0.00 0.00 11,	Depth			Depth			Section	Rate	Rate	Rate
9.450.0 34.30 0.20 9.372.5 452.2 332.4 441.5 12.00 12.00 0.00 9.475.0 373.0 0.20 9.392.8 437.5 332.5 426.9 12.00 12.00 12.00 0.00 9.500.0 40.30 0.20 9.412.3 421.9 332.5 426.9 12.00 12.00 12.00 0.00 9.505.0 43.30 0.20 9.430.9 405.2 332.6 -394.6 12.00 12.00 0.00 9.505.0 48.30 0.20 9.448.6 -387.6 332.6 -394.6 12.00 12.00 0.00 9.505.0 48.30 0.20 9.456.4 -389.1 332.7 -356.5 12.00 12.00 0.00 9.600.0 52.30 0.20 9.456.4 -389.1 332.7 -356.5 12.00 12.00 0.00 9.600.0 52.30 0.20 9.456.4 -389.1 332.7 -356.5 12.00 12.00 0.00 9.655.0 55.30 0.20 9.456.4 -389.1 332.7 -356.5 12.00 12.00 0.00 9.655.0 55.30 0.20 9.456.0 -328.5 332.8 -319.0 12.00 12.00 0.00 9.655.0 55.30 0.20 9.509.7 -306.6 332.9 -298.1 12.00 12.00 0.00 9.655.0 55.30 0.20 9.509.7 -306.6 332.9 -298.1 12.00 12.00 0.00 9.710.7 65.59 0.20 9.533.7 -264.8 333.1 -254.2 12.00 12.00 0.00 9.710.7 65.59 0.20 9.533.7 -264.8 333.1 -254.2 12.00 12.00 0.00 9.710.7 65.59 0.20 9.533.7 -264.8 333.1 -254.2 12.00 12.00 0.00 9.755.0 73.31 0.21 9.543.9 -242.0 333.1 -231.4 12.00 12.00 0.00 9.755.0 70.31 0.21 9.552.9 -218.7 333.2 -208.2 12.00 12.00 0.00 9.800.0 76.31 0.22 9.557.3 170.8 333.4 160.3 12.00 12.00 0.00 9.800.0 76.31 0.22 9.557.3 170.8 333.4 160.3 12.00 12.00 0.00 9.800.0 76.31 0.22 9.557.3 170.8 333.4 160.3 12.00 12.00 0.00 9.800.0 76.31 0.22 9.557.6 146.4 333.5 1-155.9 12.00 12.00 0.01 9.850.0 82.11 0.22 9.557.6 146.4 333.5 1-155.9 12.00 12.00 0.01 9.875.0 83.1 0.23 9.580.6 12.1 334.2 18.6 14.1 12.00 12.00 0.01 9.800.0 89.99 0.23 9.580.9 -77.8 333.9 -47.4 12.00 12.00 0.01 19.800.0 89.99 0.23 9.580.9 -77.8 333.9 47.4 12.00 12.00 0.00 10.00 0.00 0.00 0.00 0	9,400.0	28.30	0.20	9,329.8	-478.1	332.3	-467.5	12.00	12.00	0.00
9,475,0 37,30 0,20 9,392,8 437,5 332,5 426,9 12,00 12,00 0,00 9,500,0 40,30 0,20 9,412,3 421,9 332,5 411,3 12,00 12,00 0,00 9,500,0 40,30 0,20 9,430,9 405,2 332,6 -394,6 12,00 12,00 0,00 9,550,0 46,30 0,20 9,448,6 -387,6 332,6 -377,0 12,00 12,00 0,00 9,575,0 49,30 0,20 9,465,4 -368,1 332,7 -356,5 12,00 12,00 0,00 9,576,0 49,30 0,20 9,461,2 -349,7 332,8 -339,1 12,00 12,00 0,00 9,600,0 52,30 0,20 9,481,2 -349,7 332,8 -339,1 12,00 12,00 0,00 9,600,0 58,30 0,20 9,481,2 -349,7 332,8 -339,1 12,00 12,00 0,00 9,650,0 58,30 0,20 9,509,7 -306,6 332,9 -298,1 12,00 12,00 0,00 9,676,0 61,30 0,20 9,502,2 -287,0 330,0 -276,5 12,00 12,00 0,00 9,676,0 61,30 0,20 9,532,7 -264,8 331,1 -254,2 12,00 12,00 0,00 9,710,7 65,99 0,20 9,532,7 -264,8 331,1 -254,2 12,00 12,00 0,00 9,710,7 65,99 0,20 9,532,7 -264,8 331,1 -244,5 12,00 12,00 0,00 9,776,0 73,1 0,21 9,563,8 -242,0 333,1 -244,5 12,00 12,00 0,00 9,776,0 70,31 0,21 9,562,9 -216,7 33,2 -208,2 12,00 12,00 0,00 9,776,0 70,31 0,21 9,562,9 -216,7 33,2 -208,2 12,00 12,00 0,00 9,776,0 73,31 0,21 9,560,8 -194,9 333,3 -184,4 12,00 12,00 0,00 9,776,0 73,31 0,21 9,560,8 -194,9 333,3 -184,4 12,00 12,00 0,00 9,776,0 73,31 0,21 9,560,8 -194,9 333,3 -184,4 12,00 12,00 0,00 9,776,0 76,31 0,22 9,572,6 146,4 333,5 -135,9 12,00 12,00 0,01 9,941,1 89,99 0,23 9,580,9 -578,8 33,9 -474,1 12,00 12,00 0,01 9,941,1 89,99 0,23 9,580,9 -578,8 33,9 -474,1 12,00 12,00 0,01 9,941,1 89,99 0,23 9,580,9 -28,1 334,2 335,5 0,00 0,00 0,00 10,00 0,99,99 0,23 9,580,9 28,1 334,2 335,5 338,4 0,00 0,00 0,00 10,00 0,99,99 0,23 9,580,9 28,1 334,2 335,5 338,4 0,00 0,00 0,00 0,00 10,00 0,99,99 0,23 9,580,9 28,1 334,2 335,5 338,4 0,00 0,00 0,00 0,00 10,00 0,99,99 0,23 9,580,9 28,1 334,2 335,5 338,4 0,00 0,00 0,00 0,00 10,00 0,99,99 0,23 9,580,9 28,1 335,0 338,8 -61,4 12,00 12,00 0,00 0,00 10,00 0,99,99 0,23 9,580,9 28,1 335,0 338,8 0,00 0,00 0,00 0,00 10,00 0,99,99 0,23 9,580,9 28,1 335,0 338,8 0,00 0,00 0,00 0,00 0,00 10,00 0,99,99 0,23 9,580,9 28,1 335,0 338,8 0,00 0,00 0,00 0,00 0,00 10,00 0,99,99 0,23 9,581,0 328,1 335,0 3	9,425.0	31.30	0.20	9,351.5	-465.7	332.4	-455.1	12.00	12.00	0.00
9,500.0	9,450.0	34.30	0.20	9,372.5	-452.2	332.4	-441.5	12.00	12.00	0.00
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9,525.0 43.30 0.20 9,430.9 -405.2 332.6 -394.6 12.00 12.00 0.00 9,550.0 46.30 0.20 9,486.6 -387.6 332.6 -377.0 12.00 12.00 0.00 9,575.0 49.30 0.20 9,485.4 -369.1 332.7 -385.5 12.00 12.00 0.00 9,600.0 52.30 0.20 9,485.4 -369.1 332.7 -385.5 12.00 12.00 0.00 9,600.0 52.30 0.20 9,486.4 -369.1 332.8 -339.1 12.00 12.00 0.00 9,650.0 55.30 0.20 9,509.7 -308.6 332.9 -298.1 12.00 12.00 0.00 9,650.0 56.30 0.20 9,509.7 -308.6 332.9 -298.1 12.00 12.00 0.00 9,765.0 61.30 0.20 9,509.7 -308.6 332.9 -298.1 12.00 12.00 0.00 9,700.0 64.30 0.20 9,533.7 -264.8 333.1 -264.2 12.00 12.00 0.00 9,710.7 65.59 0.20 9,538.2 -255.1 333.1 -244.5 12.00 12.00 0.00 9,710.7 65.59 0.20 9,538.2 -255.1 333.1 -244.5 12.00 12.00 0.00 9,710.7 65.59 0.20 9,538.2 -255.1 333.1 -244.5 12.00 12.00 0.00 0.00 9,750.0 70.31 0.21 9,563.9 -242.0 333.1 1.20 12.00 12.00 0.00 9,775.0 73.31 0.21 9,563.8 -194.9 333.3 -184.4 12.00 12.00 0.02 9,775.0 73.31 0.21 9,560.8 -194.9 333.3 -184.4 12.00 12.00 0.02 9,800.0 76.31 0.22 9,567.3 -170.8 333.4 -160.3 12.00 12.00 0.01 9,825.0 73.31 0.22 9,567.3 -170.8 333.4 -160.3 312.0 12.00 0.01 9,825.0 73.31 0.22 9,567.3 -170.8 333.7 -86.4 12.00 12.00 0.01 9,875.0 85.31 0.23 9,576.6 -121.7 333.6 -111.2 12.00 12.00 0.01 9,875.0 85.31 0.23 9,576.6 -121.7 333.6 -111.2 12.00 12.00 0.01 9,976.0 85.31 0.23 9,576.6 -121.7 333.6 -111.2 12.00 12.00 0.01 9,976.0 85.31 0.23 9,580.9 -57.8 333.9 -47.4 12.00 12.00 0.01 10,000 89.99 0.23 9,580.9 -57.8 333.9 -47.4 12.00 12.00 0.00 0.00 0.00 0.00 0.00 0.	9 500 0	40 30	0.20	9 412 3	-421 Q	332.5	-411 3	12.00	12 00	0.00
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9,800.0 76.31 0.22 9,567.3 -170.8 333.4 -160.3 12.00 12.00 0.01 9,825.0 79.31 0.22 9,572.6 -146.4 333.5 -135.9 12.00 12.00 0.01 9,825.0 79.31 0.22 9,572.6 -146.4 333.5 -135.9 12.00 12.00 0.01 9,805.0 82.31 0.23 9,576.6 -121.7 333.6 -111.2 12.00 12.00 0.01 9,875.0 85.31 0.23 9,580.7 -71.9 333.8 -61.4 12.00 12.00 0.01 9,900.0 88.31 0.23 9,580.7 -71.9 333.8 -61.4 12.00 12.00 0.01 9,914.1 89.99 0.23 9,580.9 -57.8 333.9 -47.4 12.00 12.00 0.01 10,000.0 89.99 0.23 9,580.9 28.1 334.2 38.5 0.00 0.00 0.00 0.00 10,200.0 89.99 0.23 9,580.9 128.1 334.2 38.5 0.00 0.00 0.00 0.00 10,200.0 89.99 0.23 9,580.9 228.1 335.0 238.5 0.00 0.00 0.00 10,300.0 89.99 0.23 9,580.9 228.1 335.0 238.5 0.00 0.00 0.00 0.00 10,400.0 89.99 0.23 9,580.9 328.1 335.4 338.4 0.00 0.00 0.00 0.00 10,400.0 89.99 0.23 9,581.0 428.1 335.4 338.4 0.00 0.00 0.00 0.00 10,500.0 89.99 0.23 9,581.0 428.1 335.8 438.4 0.00 0.00 0.00 0.00 10,500.0 89.99 0.23 9,581.0 528.1 335.3 538.4 0.00 0.00 0.00 0.00 10,500.0 89.99 0.23 9,581.0 528.1 335.3 538.4 0.00 0.00 0.00 0.00 10,500.0 89.99 0.23 9,581.0 528.1 336.3 538.4 0.00 0.00 0.00 0.00 10,600.0 89.99 0.23 9,581.0 528.1 336.3 538.4 0.00 0.00 0.00 0.00 10,600.0 89.99 0.23 9,581.0 735.2 337.1 745.4 0.00 0.00 0.00 0.00 10,000 0.00 89.99 0.23 9,581.0 735.2 337.1 745.4 0.00 0.00 0.00 0.00 11,000 0.00 0.00 0.	9,750.0	70.31	0.21	9,552.9	-218.7	333.2	-208.2	12.00	12.00	0.02
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9,850.0 82.31 0.23 9,576.6 -121.7 333.6 -111.2 12.00 12.00 0.01 9,875.0 85.31 0.23 9,579.3 -96.8 333.7 -86.4 12.00 12.00 0.01 9,900.0 88.31 0.23 9,580.7 -71.9 333.8 -61.4 12.00 12.00 0.01 19,914.1 89.99 0.23 9,580.9 -57.8 333.9 -47.4 12.00 12.00 0.01 10,000.0 89.99 0.23 9,580.9 28.1 334.2 38.5 0.00 0.00 0.00 0.00 10,100.0 89.99 0.23 9,580.9 128.1 334.2 38.5 0.00 0.00 0.00 0.00 10,200.0 89.99 0.23 9,580.9 228.1 335.0 238.5 0.00 0.00 0.00 0.00 10,200.0 89.99 0.23 9,580.9 228.1 335.0 238.5 0.00 0.00 0.00 0.00 10,200.0 89.99 0.23 9,580.9 328.1 335.4 338.4 0.00 0.00 0.00 0.00 10,400.0 89.99 0.23 9,580.9 328.1 335.4 338.4 0.00 0.00 0.00 0.00 10,400.0 89.99 0.23 9,581.0 428.1 335.8 438.4 0.00 0.00 0.00 0.00 10,500.0 89.99 0.23 9,581.0 528.1 336.3 538.4 0.00 0.00 0.00 0.00 10,707.1 89.99 0.23 9,581.0 528.1 336.3 538.4 0.00 0.00 0.00 0.00 10,707.1 89.99 0.23 9,581.0 528.1 336.3 538.4 0.00 0.00 0.00 0.00 10,707.1 89.99 0.23 9,581.0 528.1 336.3 538.4 0.00 0.00 0.00 0.00 11,707.1 89.99 0.23 9,581.0 528.1 336.3 538.4 0.00 0.00 0.00 0.00 11,700.0 89.99 0.23 9,581.0 828.1 337.5 838.2 0.01 0.00 0.00 0.00 11,700.0 89.99 0.23 9,581.0 928.1 337.9 938.2 0.01 0.00 0.00 0.00 11,000.0 89.99 0.21 9,581.0 928.1 337.9 938.2 0.01 0.00 0.00 0.01 11,000.0 89.99 0.21 9,581.0 1,028.1 338.9 1,338.1 0.01 0.00 -0.01 11,000.0 89.99 0.21 9,581.0 1,028.1 338.9 1,338.1 0.01 0.00 -0.01 11,000.0 89.99 0.19 9,581.1 1,228.1 338.9 1,338.1 0.01 0.00 -0.01 11,200.0 89.99 0.19 9,581.1 1,228.1 339.5 1,438.0 0.01 0.00 -0.01 11,200.0 89.99 0.19 9,581.1 1,328.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0	9,800.0	76.31	0.22	9,567.3	-170.8	333.4	-160.3	12.00	12.00	0.01
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10,200.0 89.99 0.23 9,580.9 228.1 335.0 238.5 0.00 0.00 0.00 10,300.0 89.99 0.23 9,580.9 328.1 335.4 338.4 0.00 0.00 0.00 10,400.0 89.99 0.23 9,581.0 428.1 335.8 438.4 0.00 0.00 0.00 0.00 10,500.0 89.99 0.23 9,581.0 528.1 336.3 538.4 0.00 0.00 0.00 0.00 10,500.0 89.99 0.23 9,581.0 628.1 336.3 538.4 0.00 0.00 0.00 0.00 10,707.1 89.99 0.23 9,581.0 628.1 336.7 638.3 0.00 0.00 0.00 0.00 10,707.1 89.99 0.23 9,581.0 735.2 337.1 745.4 0.00 0.00 0.00 0.00 10,707.1 89.99 0.23 9,581.0 828.1 337.5 838.2 0.01 0.00 0.00 0.00 10,900.0 89.99 0.22 9,581.0 928.1 337.9 938.2 0.01 0.00 -0.01 10,900.0 89.99 0.22 9,581.0 928.1 337.9 938.2 0.01 0.00 -0.01 11,000.0 89.99 0.21 9,581.0 1,028.1 338.2 1,038.2 0.01 0.00 -0.01 11,100.0 89.99 0.21 9,581.0 1,028.1 338.6 1,138.1 0.01 0.00 -0.01 11,200.0 89.99 0.19 9,581.1 1,128.1 338.6 1,138.1 0.01 0.00 -0.01 11,300.0 89.99 0.18 9,581.1 1,228.1 338.9 1,238.1 0.01 0.00 -0.01 11,400.0 89.99 0.18 9,581.1 1,228.1 339.2 1,338.1 0.01 0.00 -0.01 11,400.0 89.99 0.16 9,581.1 1,428.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.8 1,538.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.8 1,538.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.8 1,538.0 0.01 0.00 -0.01 11,500.0 89.99 0.14 9,581.1 1,528.1 339.8 1,538.0 0.01 0.00 -0.01 11,500.0 89.99 0.14 9,581.1 1,528.1 339.8 1,538.0 0.01 0.00 -0.01 11,500.0 89.99 0.14 9,581.1 1,528.1 339.8 1,538.0 0.01 0.00 -0.01	10 100 0	80.00	0.33	0.580.0	129 1	3346	129 5	0.00	0.00	0.00
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10,900.0 89.99 0.22 9,581.0 928.1 337.9 938.2 0.01 0.00 -0.01 11,000.0 89.99 0.21 9,581.0 1,028.1 338.2 1,038.2 0.01 0.00 -0.01 11,100.0 89.99 0.20 9,581.1 1,128.1 338.6 1,138.1 0.01 0.00 -0.01 11,200.0 89.99 0.19 9,581.1 1,228.1 338.9 1,238.1 0.01 0.00 -0.01 11,300.0 89.99 0.18 9,581.1 1,328.1 339.2 1,338.1 0.01 0.00 -0.01 11,400.0 89.99 0.17 9,581.1 1,428.1 339.5 1,438.0 0.01 0.00 -0.01 11,500.0 89.99 0.16 9,581.1 1,528.1 339.8 1,538.0 0.01 0.00 -0.01 11,600.0 89.99 0.15 9,581.1 1,628.1 340.1 1,637.9 0.01 0.00 -0.01 11,700.0 89.99 0.14 9,581.1 1,728.1 340.3 1,737.9	· ·	•	0.00	0.504.0	000.4	227.5	000.0	0.04	0.00	0.04
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11 000 0 00 00 0.42 0.501 1 1 000 4 040 6 4 007 0 0.04 0.00 0.04						340.3	1,737.9	0.01	0.00	
	11,800.0	89.99	0.13	9,581.1	1,828.1	340.6	1,837.9	0.01	0.00	-0.01
11,900.0 89.99 0.12 9,581.2 1,928.1 340.8 1,937.8 0.01 0.00 -0.01										
12,000.0 89.99 0.11 9,581.2 2,028.1 341.0 2,037.8 0.01 0.00 -0.01	12,000.0	89.99	0.11	9,581.2	2,028.1	341.0	2,037.8	0.01	0.00	-0.01
12,100.0 89.99 0.10 9,581.2 2,128.1 341.2 2,137.7 0.01 0.00 -0.01	12.100.0	89.99	0.10	9,581.2	2,128.1	341.2	2,137.7	0.01	0.00	-0.01
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12,700.0 90.00 0.05 9,581.2 2,728.1 342.0 2,737.5 0.01 0.00 -0.01										
12,800.0 90.00 0.04 9,581.2 2,828.1 342.0 2,837.4 0.01 0.00 -0.01										



Database: PEDM Company: Midland

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

 Well:
 #708H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #708H

KB=25' @ 2942.0usft KB=25' @ 2942.0usft

Grid

sign:	FIAII #0.1								
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)
12,900.0	90.00	0.03	9,581.2	2,928.1	342.1	2,937.4	0.01	0.00	-0.01
13,000.0	90.00	0.02	9,581.3	3,028.1	342.1	3,037.3	0.01	0.00	-0.01
13,100.0	90.00	0.01	9,581.3	3,128.1	342.1	3,137.3	0.01	0.00	-0.01
13,200.0	90.00	360.00	9,581.3	3,228.1	342.2	3,237.2	0.01	0.00	-0.01
13,300.0	90.00	359.99	9,581.3	3,328.1	342.1	3,337.2	0.01	0.00	-0.01
13,400.0	90.00	359.98	9,581.3	3,428.1	342.1	3,437.1	0.01	0.00	-0.01
13,500.0	90.00	359.97	9,581.3	3,528.1	342.1	3,537.1	0.01	0.00	-0.01
13,600.0	90.00	359.96	9,581.3	3,628.1	342.0	3,637.0	0.01	0.00	-0.01
13,700.0	90.00	359.95	9,581.3	3,728.1	341.9	3,737.0	0.01	0.00	-0.01
13,800.0	90.00	359.94	9,581.3	3,828.1	341.8	3,836.9	0.01	0.00	-0.01
13,900.0	90.00	359.93	9,581.3	3,928.1	341.7	3,936.9	0.01	0.00	-0.01
14,000.0	90.00	359.92	9,581.3	4,028.1	341.6	4,036.8	0.01	0.00	-0.01
14,100.0	90.00	359.91	9,581.3	4,128.1	341.5	4,136.8	0.01	0.00	-0.01
14,200.0	90.00	359.90	9,581.3	4,228.1	341.3	4,236.7	0.01	0.00	-0.01
14,300.0	90.00	359.89	9,581.3	4,328.1	341.1	4,336.6	0.01	0.00	-0.01
14,400.0	90.00	359.88	9,581.3	4,428.1	340.9	4,436.6	0.01	0.00	-0.01
14,500.0	90.00	359.87	9,581.3	4,528.1	340.7	4,536.5	0.01	0.00	-0.01
14,600.0	90.00	359.87	9,581.3	4,628.1	340.5	4,636.5	0.01	0.00	-0.01
14,700.0	90.00	359.86	9,581.3	4,728.1	340.2	4,736.4	0.01	0.00	-0.01
14,800.0	90.00	359.85	9,581.3	4,828.1	340.0	4,836.4	0.01	0.00	-0.01
14,900.0	90.00	359.84	9,581.3	4,928.1	339.7	4,936.3	0.01	0.00	-0.01
15,000.0	90.00	359.83	9,581.3	5,028.1	339.4	5,036.3	0.01	0.00	-0.01
15,100.0	90.00	359.82	9,581.3	5,128.1	339.1	5,136.2	0.01	0.00	-0.01
15,200.0	90.00	359.81	9,581.3	5,228.1	338.8	5,236.1	0.01	0.00	-0.01
15,300.0	90.00	359.80	9,581.3	5,328.1	338.4	5,336.1	0.01	0.00	-0.01
15,400.0	90.00	359.79	9,581.3	5,428.1	338.1	5,436.0	0.01	0.00	-0.01
15,500.0	90.00	359.78	9,581.3	5,528.1	337.7	5,536.0	0.01	0.00	-0.01
15,600.0	90.00	359.77	9,581.3	5,628.1	337.3	5,635.9	0.01	0.00	-0.01
15,700.0	90.00	359.76	9,581.3	5,728.1	336.9	5,735.8	0.01	0.00	-0.01
15,800.0	90.00	359.75	9,581.3	5,828.1	336.5	5,835.8	0.01	0.00	-0.01
15,900.0	90.00	359.74	9,581.3	5,928.1	336.0	5,935.7	0.01	0.00	-0.01
16,000.0	90.00	359.73	9,581.3	6,028.1	335.6	6,035.6	0.01	0.00	-0.01
16,100.0	90.00	359.72	9,581.3	6,128.1	335.1	6,135.6	0.01	0.00	-0.01
16,200.0	90.00	359.71	9,581.3	6,228.1	334.6	6,235.5	0.01	0.00	-0.01
16,300.0	90.00	359.70	9,581.3	6,328.1	334.1	6,335.4	0.01	0.00	-0.01
16,400.0	90.00	359.70	9,581.3	6,428.1	333.6	6,435.4	0.01	0.00	-0.01
16,500.0	90.00	359.69	9,581.3	6,528.1	333.0	6,535.3	0.01	0.00	-0.01
16,600.0	90.00	359.68	9,581.3	6,628.1	332.5	6,635.2	0.01	0.00	-0.01
16,700.0	90.00	359.67	9,581.3	6,728.1	331.9	6,735.2	0.01	0.00	-0.01
16,800.0	90.00	359.66	9,581.3	6,828.1	331.3	6,835.1	0.01	0.00	-0.01
16,900.0	90.00	359.65	9,581.3	6,928.1	330.7	6,935.0	0.01	0.00	-0.01
17,000.0	90.00	359.64	9,581.3	7,028.1	330.1	7,035.0	0.01	0.00	-0.01
17,100.0	90.00	359.63	9,581.3	7,128.1	329.5	7,134.9	0.01	0.00	-0.01
17,200.0	90.00	359.62	9,581.3	7,228.1	328.8	7,234.8	0.01	0.00	-0.01
17,300.0	90.00	359.61	9,581.3	7,328.1	328.1	7,334.7	0.01	0.00	-0.01
17,400.0	90.00	359.60	9,581.3	7,428.1	327.4	7,434.7	0.01	0.00	-0.01
17,500.0	90.00	359.59	9,581.2	7,528.1	326.7	7,534.6	0.01	0.00	-0.01
17,600.0	90.00	359.58	9,581.2	7,628.1	326.0	7,634.5	0.01	0.00	-0.01
17,700.0	90.00	359.57	9,581.2	7,728.1	325.3	7,734.5	0.01	0.00	-0.01
17,800.0	90.00	359.56	9,581.2	7,828.1	324.5	7,834.4	0.01	0.00	-0.01
17,900.0	90.01	359.55	9,581.2	7,928.1	323.7	7,934.3	0.01	0.00	-0.01
18,000.0	90.01	359.54	9,581.2	8,028.1	322.9	8,034.2	0.01	0.00	-0.01
18,100.0	90.01	359.53	9,581.2	8,128.0	322.1	8,134.1	0.01	0.00	-0.01
18,200.0	90.01	359.52	9,581.2	8,228.0	321.3	8,234.1	0.01	0.00	-0.01

eog resources

Planning Report

Database: PEDM Company: Midland

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

 Well:
 #708H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #708H

KB=25' @ 2942.0usft KB=25' @ 2942.0usft

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,300.0	90.01	359.52	9,581.2	8,328.0	320.5	8,334.0	0.01	0.00	-0.01
18,400.0	90.01	359.51	9,581.2	8,428.0	319.6	8,433.9	0.01	0.00	-0.01
18,500.0	90.01	359.50	9,581.2	8,528.0	318.8	8,533.8	0.01	0.00	-0.01
18,600.0	90.01	359.49	9,581.1	8,628.0	317.9	8,633.8	0.01	0.00	-0.01
18,700.0	90.01	359.48	9,581.1	8,728.0	317.0	8,733.7	0.01	0.00	-0.01
18,800.0	90.01	359.47	9,581.1	8,828.0	316.0	8,833.6	0.01	0.00	-0.01
18,900.0	90.01	359.46	9,581.1	8,928.0	315.1	8,933.5	0.01	0.00	-0.01
19,000.0	90.01	359.45	9,581.1	9,028.0	314.2	9,033.4	0.01	0.00	-0.01
19,100.0	90.01	359.44	9,581.1	9,128.0	313.2	9,133.3	0.01	0.00	-0.01
19,200.0	90.01	359.43	9,581.1	9,228.0	312.2	9,233.3	0.01	0.00	-0.01
19,300.0	90.01	359.42	9,581.1	9,328.0	311.2	9,333.2	0.01	0.00	-0.01
19,400.0	90.01	359.41	9,581.0	9,428.0	310.2	9,433.1	0.01	0.00	-0.01
19,500.0	90.01	359.40	9,581.0	9,528.0	309.1	9,533.0	0.01	0.00	-0.01
19,600.0	90.01	359.39	9,581.0	9,628.0	308.1	9,632.9	0.01	0.00	-0.01
19,695.9	90.01	359.38	9,581.0	9,723.9	307.1	9,728.8	0.01	0.00	-0.01
LTP(GG 1 F	C #708H)								
19,700.0	90.01	359.43	9,581.0	9,728.0	307.0	9,732.8	1.23	-0.02	1.23
19,796.0	89.99	0.62	9,581.0	9,823.9	307.1	9,828.7	1.23	-0.02	1.23
PBHL(GG 1	FC #708H)								

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 FC #708H) - plan hits target cer - Point	0.00 iter	0.00	9,103.5	-535.2	332.1	387,336.00	633,692.00	32° 3' 52.257 N	104° 2' 6.705 W
FTP(GG 1 FC #708H) - plan hits target cer - Point	0.00 iter	0.00	9,538.2	-255.1	333.1	387,616.00	633,693.00	32° 3' 55.028 N	104° 2' 6.684 W
LTP(GG 1 FC #708H) - plan hits target cer - Point	0.00 iter	0.00	9,581.0	9,723.9	307.1	397,593.00	633,667.00	32° 5' 33.762 N	104° 2' 6.666 W
Fed PP(GG 1 FC #708H - plan hits target cer - Point		0.00	9,581.0	735.2	337.1	388,606.00	633,697.00	32° 4' 4.825 N	104° 2' 6.606 W
PBHL(GG 1 FC #708H) - plan hits target cer - Point	0.00 iter	0.00	9,581.0	9,823.9	307.1	397,693.00	633,667.00	32° 5' 34.752 N	104° 2' 6.663 W



2400

3900-

4500 Qepth

5700

6000

6900-

7500

8100-

8400-

Released to Imaging: 2/4/2025 9:42:01 AM

Azimuths to Grid North True North: -0.16° Magnetic North: 6.32°

Magnetic Field Strength: 47161.4nT Dip Angle: 59.77° Date: 9/14/2023 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.32° To convert a Magnetic Direction to a True Direction, Add 6.48° East To convert a True Direction to a Grid Direction, Subtract 0.16°

Eddy County, NM (NAD 83 NME)

Golden Graham 1 Fed Com #708H

Plan #0.1

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

Geodetic System: US State Plane 1983 **Datum: North American Datum 1983** Ellipsoid: GRS 1980 **Zone: New Mexico Eastern Zone** System Datum: Mean Sea Level

WELL DETAILS: #708H

2917.0

KB=25' @ 2942.0usft Northing Latittude 32° 3' 57.560 N Longitude 104° 2' 10.546 W **Easting** 387871.00 633360.00

	SECTION DETAILS												
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target			
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0				
2	1175.0	0.00	0.00	1175.0	0.0	0.0	0.00	0.00	0.0				
3	1763.1	11.76	148.18	1759.0	-51.1	31.7	2.00	148.18	-50.1				
4	4262.6	11.76	148.18	4206.0	-484.1	300.4	0.00	0.00	-474.4				
5	4850.7	0.00	0.00	4790.0	-535.2	332.1	2.00	180.00	-524.5				
6	9164.2	0.00	0.00	9103.5	-535.2	332.1	0.00	0.00	-524.5	KOP(GG 1 FC #708H)			
7	9710.7	65.59	0.20	9538.2	-255.1	333.1	12.00	0.20	-244.5	FTP(GG 1 FC #708H)			
8	9914.1	89.99	0.23	9580.9	-57.8	333.9	12.00	0.07	-47.4				
9	10707.1	89.99	0.23	9581.0	735.2	337.1	0.00	0.00	745.4	Fed PP(GG 1 FC #708H)			
10	19695.9	90.01	359.38	9581.0	9723.9	307.1	0.01	-88.84	9728.8	LTP(GG 1 FC #708H)			
11	19796.0	89.99	0.62	9581.0	9823.9	307.1	1.23	90.80	9828.7	PBHL(GG 1 FC #708H)			

CASING DETAILS No casing data is available

3600

WELLBORE TARGET DETAILS (MAP CO-ORDINATES) +E/-W Northing TVD +N/-S **Easting** KOP(GG 1 FC #708H) 9103.5 -535.2 387336.00 633692.00 FTP(GG 1 FC #708H) -255.1 333.1 387616.00 633693.00 9538.2 Fed PP(GG 1 FC #708H) 9581.0 735.2 337.1 388606.00 633697.00 LTP(GG 1 FC #708H) 9581.0 9723.9 307.1 397593.00 633667.00 PBHL(GG 1 FC #708H) 9581.0 9823.9 397693.00 633667.00

8750 8400 7700-7350-6650-6300-5600-5250-တ် 4200 3150 2800 2450 2100 1750 1400-700 350--350--700 West(-)/East(+)

West(-)/East(+)

8100 Vertical Section at 1.79°

---i---

Eddy County, NM (NAD 83 NME) Golden Graham 1 Fed Com 9:23, September 14 2023



Golden Graham 1 Fed Com Package

Wells in package:	Tgt TVD
Golden Graham 1 Fed Com #707H	9,685
Golden Graham 1 Fed Com #708H	9,685
Golden Graham 1 Fed Com #728H	9,861
Golden Graham 1 Fed Com #729H	9,861
Golden Graham 1 Fed Com #764H	10,706

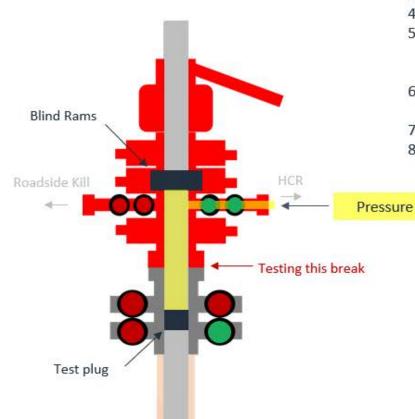


Break-test BOP & Offline Cementing:

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.

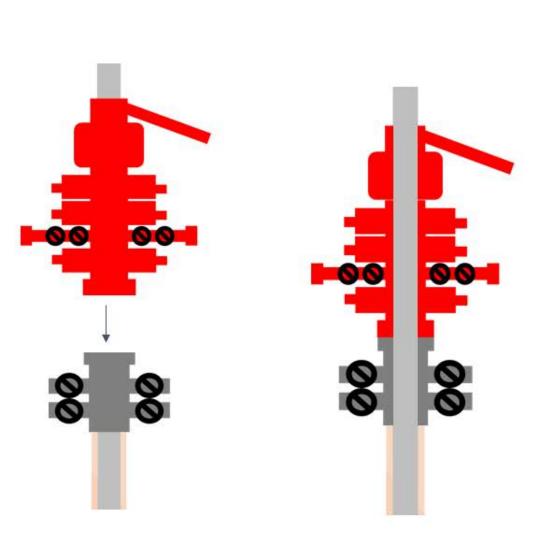
Break Test Diagram (HCR valve)

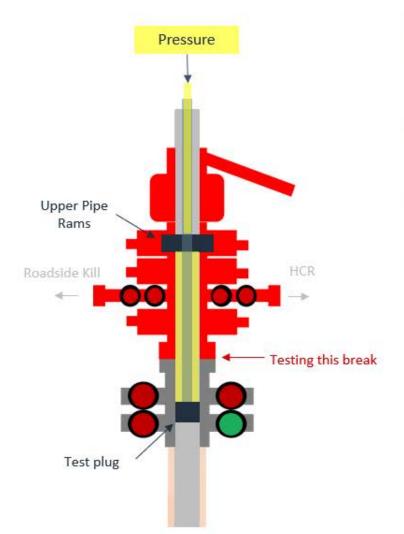


Steps

- 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
- 4. 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



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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.



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- 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.
 - 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.



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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.

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- 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



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Figure 1: Cameron TA Plug and Offline Adapter Schematic

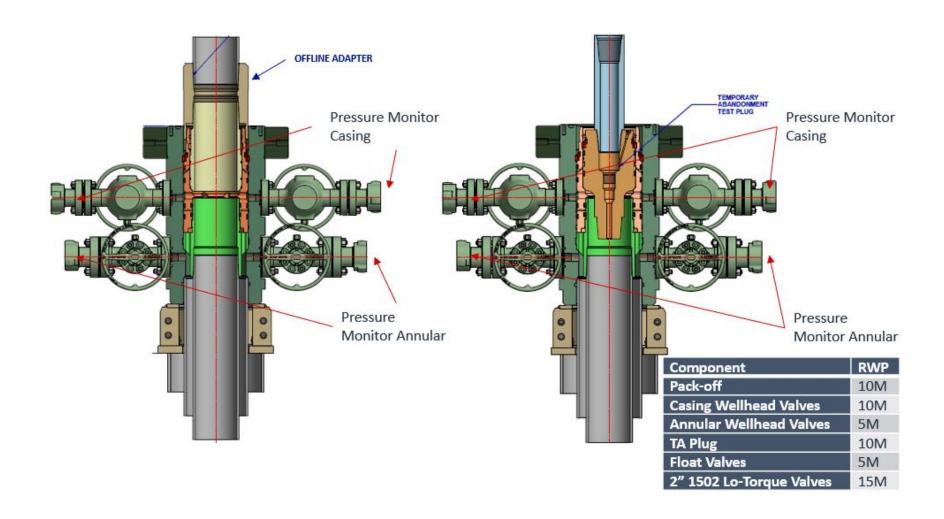
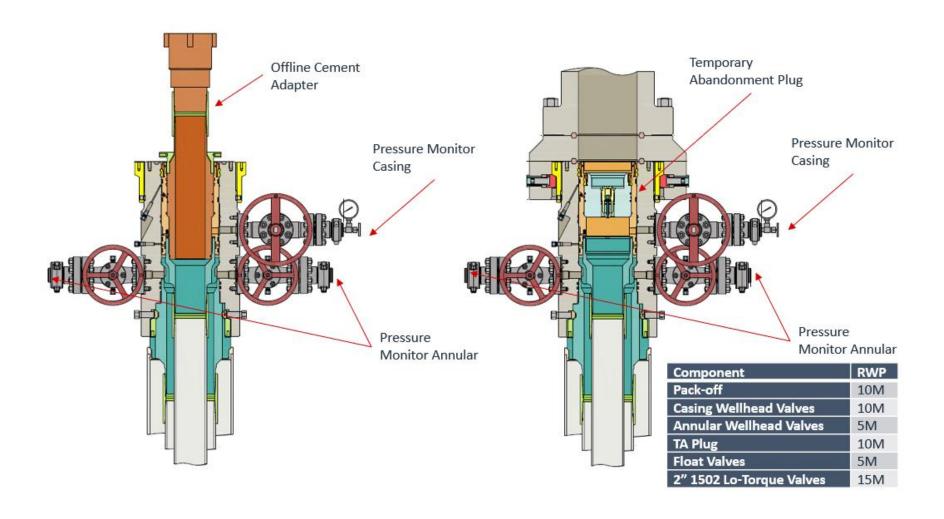


Figure 2: Cactus TA Plug and Offline Adapter Schematic

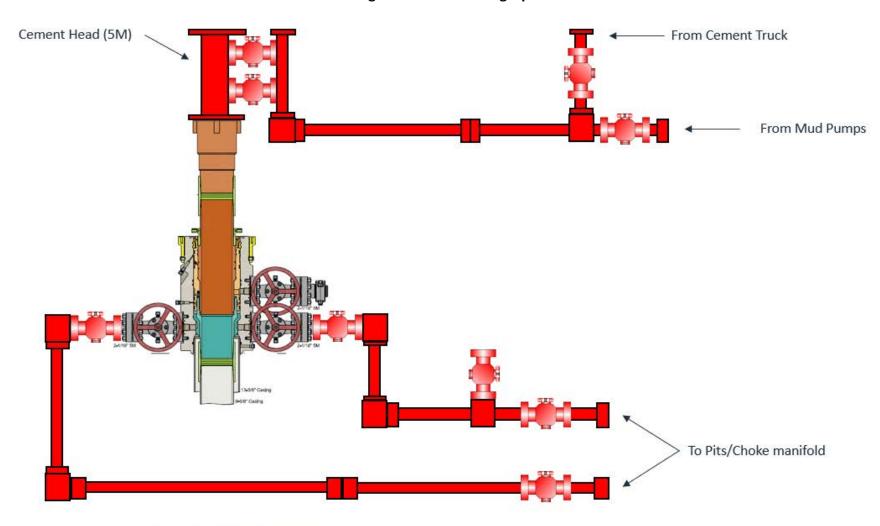


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Figure 3: Back Yard Rig Up



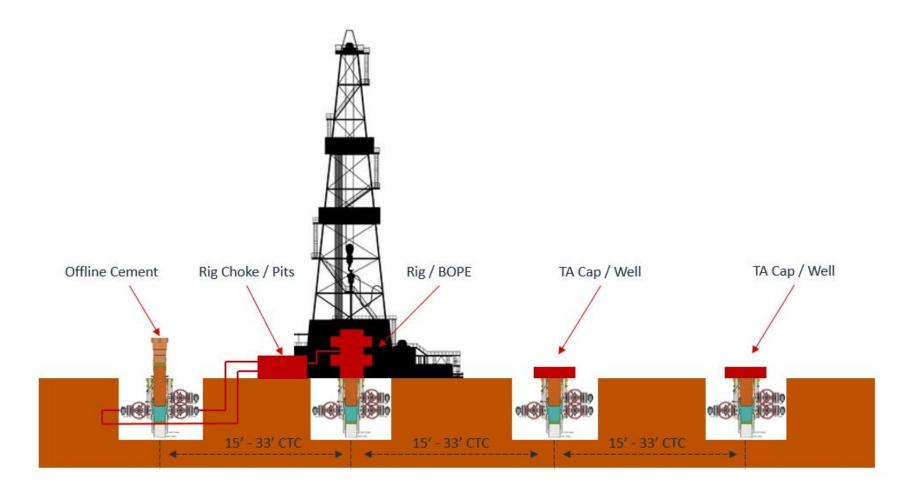
*** All Lines 10M rated working pressure

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Figure 4: Rig Placement Diagram



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Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 287543

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	287543
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/4/2025
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	2/4/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	2/4/2025
ward.rikala	Submit C-102 on new C-102 form as required after 8/1/24.	2/4/2025