Page 1 of 45	Page	10	f 45
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BUR	UNITED STATES PARTMENT OF THE INTERIOR EAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No. NMNM078968A 6. If Indian, Allottee or Tribe Name				
	form for proposals to drill or to Use Form 3160-3 (APD) for su					
	TRIPLICATE - Other instructions on pag	-	-	7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well	Vell Other	8. Well Name and No	). DDE1	TTY GOOD 20 FED COM/705H		
2. Name of Operator EOG RESOUR				9. API Well No. 3002	255179	12
3a. Address 1111 BAGBY SKY LOE		(includ		10. Field and Pool or		
	(713) 651-70	00				K; UPPER WOLFCAMP
<ol> <li>Location of Well (Footage, Sec., T., I SEC 20/T22S/R32E/NMP</li> </ol>	R.,M., or Survey Description)			11. Country or Parish LEA/NM	n, State	
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICAT	E NATURE OF NOTI	CE, REPORT OR OT	HER D	ATA
TYPE OF SUBMISSION			TYPE OF ACT			
✓ Notice of Intent						Water Shut-Off Well Integrity
Subsequent Report		Constr and Ab		omplete Other		
Final Abandonment Notice	Convert to Injection Plug	Back	Wate	r Disposal		
the proposal is to deepen directiona the Bond under which the work will completion of the involved operation completed. Final Abandonment No is ready for final inspection.)	Deperation: Clearly state all pertinent details, i illy or recomplete horizontally, give subsurfa Il be perfonned or provide the Bond No. on f ons. If the operation results in a multiple con tices must be filed only after all requirement	ace loca file with npletion s, inclu	tions and measured an BLM/BIA. Required or recompletion in a ding reclamation, have	d true vertical depths subsequent reports m new interval, a Form 2 been completed and	of all p ust be fi 3160-4	ertinent markers and zones. Attach led within 30 days following must be filed once testing has been
EOG respectfully requests an	amendment to our approved APD for the	is well	to reflect the followin	g changes:		
Pretty Good 20 Fed Com 705	H API #: 30-025-51793					
	32-E, Sec 32, 100' FSL, 2330' FEL, LEA 0' FSL, 1716' FWL, LEA Co., N.M.	Co., N	M,			
Update HSU to 1920 acres.						
Allow for full string of either 5.	5" 20# P110-EC DWC/C IS MS or 6" 22.	.3# DV	/C/C IS depending o	n availability of casi	ing.	
14. I hereby certify that the foregoing is STAR HARRELL / Ph: (432) 848-9	true and correct. Name ( <i>Printed/Typed</i> ) 161	Title	Regulatory Specialist Title			
(Electronic Submissio	on)	Date		04/30/2	2024	
	THE SPACE FOR FED	ERAI	OR STATE OF			
Approved by						
KEITH P IMMATTY / Ph: (575) 98	8-4722 / Approved		ENGINEER Title		Date	05/05/2024
Conditions of approval, if any, are attac certify that the applicant holds legal or o	hed. Approval of this notice does not warran equitable title to those rights in the subject le	Office CARLSBAD				

which would entitle the applicant to conduct 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)

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. Frast St., Artesin, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Aztee, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 DISTRICT IV 1220 S. 8.F 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

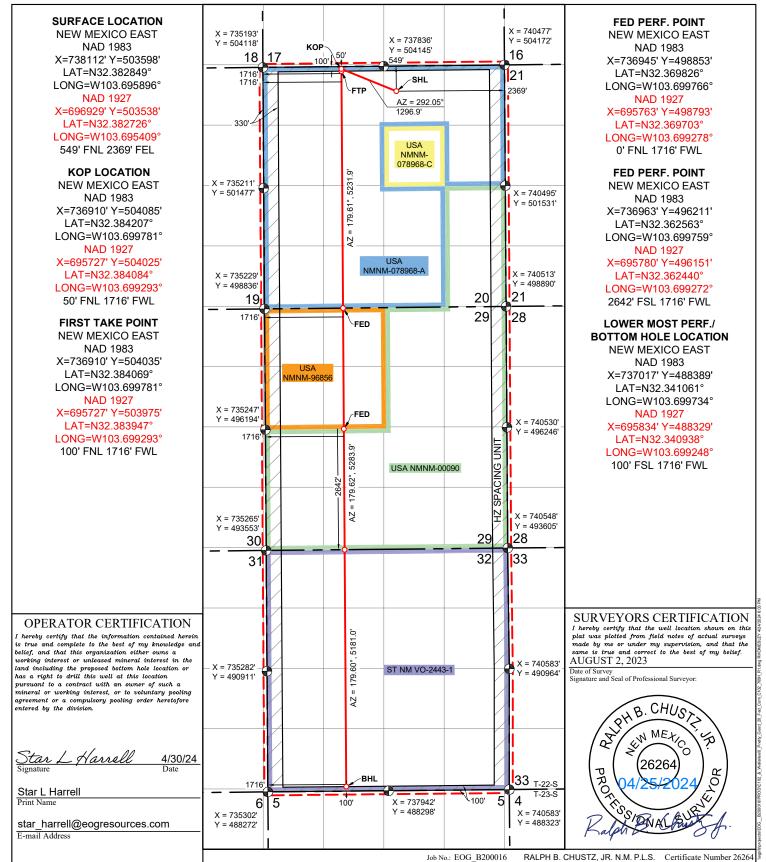
Page 2 of 45 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Number 30-025-51792			Pool Code 98166		Pool Name WC-025 G-09 S233216K; Upper Wolfcamp				
Property C	ode		Property Name					Well Nun	Well Number	
33455	6			PRE1	TY GOOD 20	ED COM		705H	705H	
OGRID N	lo.				Operator Name			Elevatio	on	
7377				EC	G RESOURCE	S, INC.		3652	1'	
	Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
В	20	22 S	32 E	549 NORTH 2369			EAST	LEA		
			Bott	om Hole I	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	
N	32	22 S	32 E	E 100 SOUTH 1716 WEST L				LEA		
Dedicated Acres	Joint or	Infill	Consolidated Co	le Orde	r No.	•				
1920				PENDING COM AGREEMENT AND NSP						

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



Released to Imaging: 9/3/2024 11:31:59 AM

# **S**eog resources

#### Pretty Good 20 Fed Com 705H

#### **Revised Permit Information 04/17/2024:**

Well Name: Pretty Good 20 Fed Com 705H

Location: SHL: 549' FNL & 2369' FEL, Section 20, T-22-S, R-32-E, LEA Co., N.M. BHL: 100' FSL & 1716' FWL, Section 32, T-22-S, R-32-E, LEA Co., N.M.

#### **CASING PROGRAM:**

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	1,290	0	1,290	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,481	0	11,400	7-5/8"	29.7#	ICYP-110	MO FXL
6-3/4"	0	10,976	0	10,900	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,976	11,481	10,900	11,400	5-1/2"	20#	P110-EC	VAM Sprint SF
6-3/4"	11,481	27,928	11,400	12,356	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.

		Wt.	Yld	Shumu Description
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description
1,290'	350	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)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 1,090')
11,400'	450	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
7-5/8''				Microbond (TOC @ 7,630')
	1300	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M +
				6% Bentonite Gel (TOC @ surface)
27,928'	1870	13.2	1.41	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
5-1/2''				(TOC @ 10,899')

#### **CEMENTING PROGRAM:**

6	eogresources
0	eogresources

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				

#### Pretty Good 20 Fed Com 705H

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 (7,825') 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 300 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.

<b>Measured Depth</b>	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,290'	Fresh - Gel	8.6-8.8	28-34	N/c
1,290' - 11,400'	Brine	9.0-10.5	28-34	N/c
11,400' - 11,959'	Oil Base	8.7-9.4	58-68	N/c - 6
11,959' – 27,928' Lateral	Oil Base	10.0-14.0	58-68	4 - 6

#### **MUD PROGRAM:**



# Pretty Good 20 Fed Com 705H

## **TUBING REQUIREMENTS**

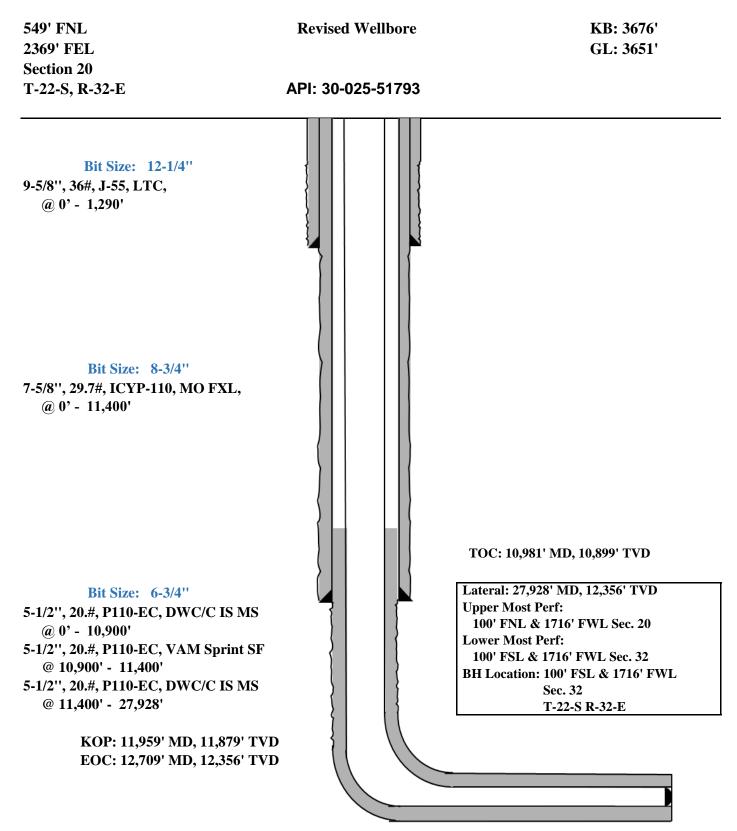
EOG respectively requests an exception to the following NMOCD rule:

• 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.

# **S**eog resources

# Pretty Good 20 Fed Com 705H





# Design B CASING PROGRAM:

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	1,290	0	1,290	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,481	0	11,399	8-3/4"	38.5#	P110-EC	VAM Sprint-SF
7-7/8"	0	11,959	0	12,356	6"	22.3#	P110-EC	DWC/C IS
6.75"	11,959	27,928	11,879	12,356	5-1/2"	20#	P110-EC	DWC/C IS MS

\*\*For highlighted rows above, variance is requested to run entire string of either 6" or 5-1/2" casing string above due to availablility.

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" and 5-1/2" casings 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" and 5-1/2" casings 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.

		Wt.	Yld	Shume Decoviation
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description
1,290'	330	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
10-3/4"				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 @ 1,090')
11,399'	510	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
8-3/4"				Microbond (TOC @ 7,630')
	1480	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M +
				6% Bentonite Gel (TOC @ surface)
27,928'	2350	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
6"				(TOC @ 10,899')

#### **CEMENTING PROGRAM:**

# **S**eog resources

# Pretty Good 20 Fed Com 705H

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 (7,825') 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 479 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.

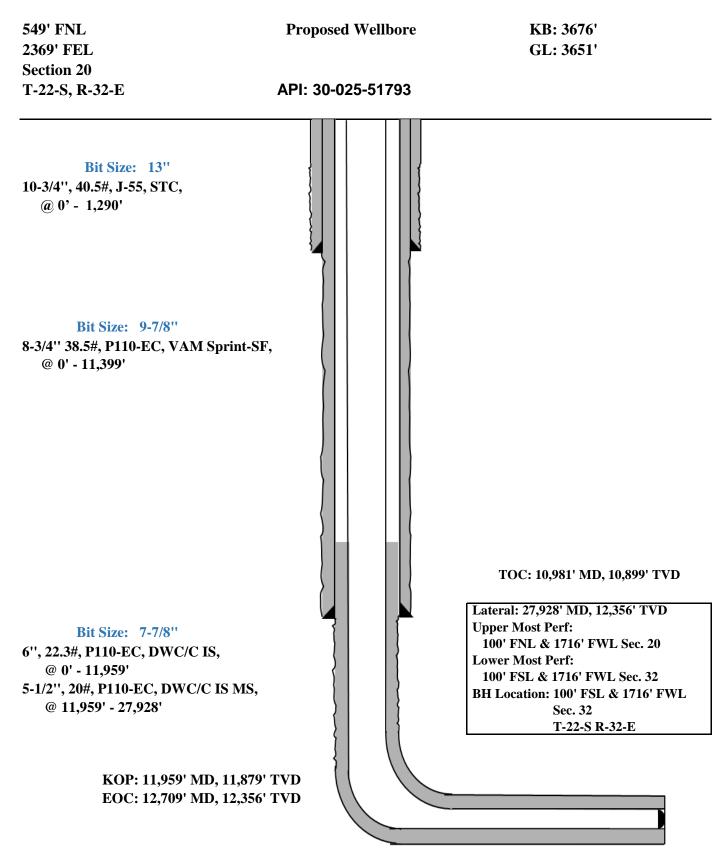
## VARIANCE REQUESTS:

EOG requests the additional variance(s) in the attached document(s):

Variances requested include (supporting documents attached):

- BOP Break Testing for 5M Intermediate Intervals (EOG BLM Variance 3a\_b)
- Offline Cementing for Surface and Intermediate Intervals (EOG BLM Variance 3a\_b)
- Intermediate Bradenhead Cement (EOG BLM Variance 2a)

#### Pretty Good 20 Fed Com 705H



# **S**eog resources

## Pretty Good 20 Fed Com 705H

## **GEOLOGIC NAME OF SURFACE FORMATION:**

Permian

#### ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,153'
Tamarisk Anhydrite	1,264'
Top of Salt	1,700'
Base of Salt	4,700'
Lamar	4,750'
Bell Canyon	5,432'
Cherry Canyon	6,276'
Brushy Canyon	7,825'
Bone Spring Lime	9,171'
Leonard (Avalon) Shale	9,242'
1st Bone Spring Sand	10,278'
2nd Bone Spring Shale	10,497'
2nd Bone Spring Sand	10,818'
3rd Bone Spring Carb	11,299'
3rd Bone Spring Sand	11,856'
Wolfcamp	12,175'
TD	12,356'

# ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	5,432'	Oil
Cherry Canyon	6,276'	Oil
Brushy Canyon	7,825'	Oil
Leonard (Avalon) Shale	9,242'	Oil
1st Bone Spring Sand	10,278'	Oil
2nd Bone Spring Shale	10,497'	Oil
2nd Bone Spring Sand	10,818'	Oil

# Midland

Lea County, NM (NAD 83 NME) Pretty Good 20 Fed Com #705H

OH

Plan: Plan #0.2

# **Standard Planning Report**

25 April, 2024

#### Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	PEDMB Midland Lea County, NN Pretty Good 20 #705H OH Plan #0.2	•	ME)	Local Co-ordin TVD Reference MD Reference North Referen Survey Calcul	: ce:	Well #705H kb = 25' @ 367( kb = 25' @ 367( Grid Minimum Curva	6.0usft
Project	Lea County, NM	(NAD 83 NM	1E)				
Oco Datain.	US State Plane 19 North American D New Mexico Easte	atum 1983		System Datum:		Mean Sea Level	
Site	Pretty Good 20 F	ed Com					
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	503,120. 738,938. 13-3/	00 usft Longit		32° 22' 53.475 N 103° 41' 35.624 W
Well	#705H						
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:		03,598.00 usft 38,112.00 usft	Latitude: Longitude:	32° 22' 58.254 N 103° 41' 45.223 V
Position Uncertainty Grid Convergence:		0.0 usft 0.34 °	Wellhead Ele	vation:	usft	Ground Level:	3,651.0 ust
Wellbore	ОН						
Magnetics	Model Name	9	Sample Date	Declination (°)		Dip Angle (°)	Field Strength (nT)
	IGRF	2020	8/20/2020		6.71	60.05	47,658.83727516
Design	Plan #0.2						
Audit Notes: Version:			Phase:	PLAN	Tie On Dep	oth:	0.0
Vertical Section:		(u	rom (TVD) ısft)	+N/-S (usft)	+E/-W (usft)		ection (°)
		(	0.0	0.0	0.0	18	84.12
Plan Survey Tool Pro Depth From (usft)	Depth To	Date 4/25/2 urvey (Wellb		Tool Name	Rema	arks	
1 0.0	27,927.6 PI	an #0.2 (OH)	)	EOG MWD+IFR1 MWD + IFR1			

.

## Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb = 25' @ 3676.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3676.0usft
Site:	Pretty Good 20 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

#### Plan Sections

Target	TFO (°)	Turn Rate (°/100usft)	Build Rate (°/100usft)	Dogleg Rate (°/100usft)	+E/-W (usft)	+N/-S (usft)	Vertical Depth (usft)	Azimuth (°)	Inclination (°)	Measured Depth (usft)
	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
	0.00	0.00	0.00	0.00	0.0	0.0	1,200.0	0.00	0.00	1,200.0
	292.06	0.00	2.00	2.00	-20.7	8.4	1,557.2	292.06	7.16	1,558.1
	0.00	0.00	0.00	0.00	-1,181.3	478.6	11,521.3	292.06	7.16	11,600.6
KOP(Pretty Good 20	180.00	0.00	-2.00	2.00	-1,202.0	487.0	11,878.5	0.00	0.00	11,958.7
FTP(Pretty Good 20	180.00	81.65	12.00	12.00	-1,202.0	437.0	12,091.2	180.00	26.46	12,179.2
	-0.44	-0.07	12.00	12.00	-1,200.0	9.5	12,355.9	179.60	90.00	12,708.7
Fed Perf 1(Pretty G	0.00	0.00	0.00	0.00	-1,167.0	-4,745.0	12,356.0	179.60	90.00	17,463.4
Fed Perf 2(Pretty G	84.39	0.00	0.00	0.00	-1,149.0	-7,387.0	12,356.0	179.62	90.00	20,105.4
PBHL(Pretty Good 2	-93.17	0.00	0.00	0.00	-1,095.0	-15,209.0	12,356.0	179.59	90.00	27,927.6

#### Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb = 25' @ 3676.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3676.0usft
Site:	Pretty Good 20 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

#### 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
500.0 600.0	0.00 0.00	0.00 0.00	500.0 600.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 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
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	292.06	1,300.0	0.7	-1.6	-0.5	2.00	2.00	0.00
1,400.0	4.00	292.06	1,399.8	2.6	-6.5	-0.5	2.00	2.00	0.00
	6.00	292.06		5.9		-4.8	2.00	2.00	0.00
1,500.0	7.16	292.06	1,499.5	5.9 8.4	-14.5 -20.7	-4.0 -6.9		2.00	0.00
1,558.1		292.06	1,557.2		-20.7 -25.6		2.00 0.00	0.00	
1,600.0	7.16 7.16	292.06	1,598.7	10.4 15.0	-25.0 -37.1	-8.5		0.00	0.00 0.00
1,700.0 1,800.0	7.16	292.06	1,698.0 1,797.2	19.7	-37.1	-12.3 -16.2	0.00 0.00	0.00	0.00
	7.16	292.06	1,896.4	24.4	-60.2	-20.0	0.00	0.00	0.00
1,900.0 2,000.0	7.16	292.06	1,995.6	24.4 29.1	-60.2 -71.8	-20.0	0.00	0.00	0.00
		292.00					0.00		
2,100.0	7.16 7.16	292.06	2,094.8	33.8	-83.3	-27.7	0.00	0.00	0.00
2,200.0 2,300.0	7.16	292.06	2,194.1 2,293.3	38.4 43.1	-94.9 -106.5	-31.5 -35.4	0.00	0.00 0.00	0.00 0.00
2,400.0	7.16	292.06	2,392.5	47.8	-118.0	-39.2	0.00	0.00	0.00
2,500.0	7.16	292.06	2,491.7	52.5	-129.6	-43.1	0.00	0.00	0.00
2,600.0	7.16	292.06	2,590.9	57.2	-141.1	-46.9	0.00	0.00	0.00
2,700.0	7.16	292.06	2,690.2	61.9	-152.7	-50.7	0.00	0.00	0.00
2,800.0	7.16	292.06	2,789.4	66.5	-164.2	-54.6	0.00	0.00	0.00
2,900.0	7.16	292.06	2,888.6	71.2	-175.8	-58.4	0.00	0.00	0.00
3,000.0	7.16	292.06	2,987.8	75.9	-187.3	-62.3	0.00	0.00	0.00
3,100.0	7.16	292.06	3,087.0	80.6	-198.9	-66.1	0.00	0.00	0.00
3,200.0	7.16	292.06	3,186.3	85.3	-210.5	-69.9	0.00	0.00	0.00
3,300.0	7.16	292.06	3,285.5	90.0	-222.0	-73.8	0.00	0.00	0.00
3,400.0	7.16	292.06	3,384.7	94.6	-233.6	-77.6	0.00	0.00	0.00
3,500.0	7.16	292.06	3,483.9	99.3	-245.1	-81.5	0.00	0.00	0.00
3,600.0	7.16	292.06	3,583.1	104.0	-256.7	-85.3	0.00	0.00	0.00
3,700.0	7.16	292.06	3,682.4	108.7	-268.2	-89.1	0.00	0.00	0.00
3,800.0	7.16	292.06	3,781.6	113.4	-279.8	-93.0	0.00	0.00	0.00
3,900.0	7.16	292.06	3,880.8	118.0	-291.4	-96.8	0.00	0.00	0.00
4,000.0	7.16	292.06	3,980.0	122.7	-302.9	-100.7	0.00	0.00	0.00
4,100.0	7.16	292.06	4,079.2	127.4	-314.5	-104.5	0.00	0.00	0.00
4,200.0	7.16	292.06	4,178.5	132.1	-326.0	-108.3	0.00	0.00	0.00
4,300.0	7.16	292.06	4,277.7	136.8	-337.6	-112.2	0.00	0.00	0.00
4,400.0	7.16	292.06	4,376.9	141.5	-349.1	-116.0	0.00	0.00	0.00
4,500.0	7.16	292.06	4,476.1	146.1	-360.7	-119.9	0.00	0.00	0.00
4,600.0	7.16	292.06	4,575.3	150.8	-372.3	-123.7	0.00	0.00	0.00
4,700.0	7.16	292.06	4,674.5	155.5	-383.8	-127.5	0.00	0.00	0.00
4,800.0	7.16	292.06	4,773.8	160.2	-395.4	-131.4	0.00	0.00	0.00
4,900.0	7.16	292.06	4,873.0	164.9	-406.9	-135.2	0.00	0.00	0.00
5,000.0	7.16	292.06	4,972.2	169.6	-418.5	-139.1	0.00	0.00	0.00
5,100.0	7.16	292.06	5,071.4	174.2	-430.0	-142.9	0.00	0.00	0.00
5,200.0	7.16	292.06	5,170.6	178.9	-441.6	-146.7	0.00	0.00	0.00

#### Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb = 25' @ 3676.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3676.0usft
Site:	Pretty Good 20 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	7.16	292.06	5,269.9	183.6	-453.1	-150.6	0.00	0.00	0.00
5,400.0	7.16	292.06	5,369.1	188.3	-464.7	-154.4	0.00	0.00	0.00
5,500.0	7.16	292.06	5,468.3	193.0	-404.7	-154.4	0.00	0.00	0.00
5,600.0	7.16	292.06	5,567.5	197.6	-487.8	-162.1	0.00	0.00	0.00
5,700.0	7.16	292.06	5,666.7	202.3	-499.4	-165.9	0.00	0.00	0.00
5,800.0	7.16	292.06	5,766.0	207.0	-510.9	-169.8	0.00	0.00	0.00
5,900.0	7.16	292.06	5,865.2	211.7	-522.5	-173.6	0.00	0.00	0.00
6,000.0	7.16	292.06	5,964.4	216.4	-534.0	-177.5	0.00	0.00	0.00
6,100.0	7.16	292.06	6,063.6	221.1	-545.6	-181.3	0.00	0.00	0.00
6,200.0	7.16	292.06	6,162.8	225.7	-557.2	-185.1	0.00	0.00	0.00
6,300.0	7.16	292.06	6,262.1	230.4	-568.7	-189.0	0.00	0.00	0.00
0,300.0	7.10					-109.0			
6,400.0	7.16	292.06	6,361.3	235.1	-580.3	-192.8	0.00	0.00	0.00
6,500.0	7.16	292.06	6,460.5	239.8	-591.8	-196.7	0.00	0.00	0.00
6,600.0	7.16	292.06	6,559.7	244.5	-603.4	-200.5	0.00	0.00	0.00
6,700.0	7.16	292.06	6,658.9	249.1	-614.9	-204.3	0.00	0.00	0.00
6,800.0	7.16	292.06	6,758.2	253.8	-626.5	-208.2	0.00	0.00	0.00
6,900.0	7.16	292.06	6,857.4	258.5	-638.1	-212.0	0.00	0.00	0.00
7,000.0	7.16	292.06	6,956.6	263.2	-649.6	-215.9	0.00	0.00	0.00
7,100.0	7.16	292.06	7,055.8	267.9	-661.2	-219.7	0.00	0.00	0.00
7,200.0	7.16	292.06	7,155.0	272.6	-672.7	-223.5	0.00	0.00	0.00
7,300.0	7.16	292.06	7,254.3	277.2	-684.3	-227.4	0.00	0.00	0.00
7,400.0	7.16	292.06	7,353.5	281.9	-695.8	-231.2	0.00	0.00	0.00
7,400.0	7.16	292.00	7,452.7	286.6	-707.4	-235.1	0.00	0.00	0.00
7,500.0	7.16	292.06	7,551.9	291.3	-718.9	-238.9	0.00	0.00	0.00
7,800.0	7.16	292.06	7,551.9	291.3	-710.9	-236.9 -242.7	0.00	0.00	0.00
7,700.0	7.16	292.06	7,051.1	296.0 300.7	-730.5	-242.7 -246.6	0.00	0.00	0.00
0.000,1						-240.0			
7,900.0	7.16	292.06	7,849.6	305.3	-753.6	-250.4	0.00	0.00	0.00
8,000.0	7.16	292.06	7,948.8	310.0	-765.2	-254.3	0.00	0.00	0.00
8,100.0	7.16	292.06	8,048.0	314.7	-776.7	-258.1	0.00	0.00	0.00
8,200.0	7.16	292.06	8,147.2	319.4	-788.3	-261.9	0.00	0.00	0.00
8,300.0	7.16	292.06	8,246.5	324.1	-799.8	-265.8	0.00	0.00	0.00
8,400.0	7.16	292.06	8,345.7	328.7	-811.4	-269.6	0.00	0.00	0.00
8,500.0	7.16	292.06	8,444.9	333.4	-823.0	-273.5	0.00	0.00	0.00
8,600.0	7.16	292.06	8,544.1	338.1	-834.5	-277.3	0.00	0.00	0.00
8,700.0	7.16	292.06	8,643.3	342.8	-846.1	-281.2	0.00	0.00	0.00
8,800.0	7.16	292.06	8,742.6	347.5	-857.6	-285.0	0.00	0.00	0.00
8,900.0	7.16	292.06	8,841.8	352.2	-869.2	-288.8	0.00	0.00	0.00
9,000.0	7.16	292.06	8,941.0	356.8	-880.7	-292.7	0.00	0.00	0.00
9,100.0	7.16	292.06	9,040.2	361.5	-892.3	-296.5	0.00	0.00	0.00
9,200.0	7.16	292.06	9,139.4	366.2	-903.9	-300.4	0.00	0.00	0.00
9,300.0	7.16	292.06	9,238.6	370.9	-915.4	-304.2	0.00	0.00	0.00
9,400.0	7.16	292.06	9,337.9	375.6	-927.0	-308.0	0.00	0.00	0.00
9,500.0	7.16	292.06	9,437.1	380.3	-938.5	-311.9	0.00	0.00	0.00
9,600.0	7.16	292.06	9,536.3	384.9	-950.1	-315.7	0.00	0.00	0.00
9,700.0	7.16	292.06	9,635.5	389.6	-961.6	-319.6	0.00	0.00	0.00
9,800.0	7.16	292.06	9,734.7	394.3	-973.2	-323.4	0.00	0.00	0.00
9,900.0	7.16	292.06	9,834.0	399.0	-984.7	-327.2	0.00	0.00	0.00
9,900.0	7.16	292.06	9,834.0 9,933.2	399.0 403.7	-964.7 -996.3	-327.2	0.00	0.00	0.00
10,100.0	7.16	292.06	10,032.4	408.3	-1,007.9	-334.9	0.00	0.00	0.00
10,200.0	7.16	292.06	10,131.6	413.0	-1,019.4	-338.8	0.00	0.00	0.00
10,300.0	7.16	292.06	10,230.8	417.7	-1,031.0	-342.6	0.00	0.00	0.00
10,400.0	7.16	292.06	10,330.1	422.4	-1,042.5	-346.4	0.00	0.00	0.00
10,500.0	7.16	292.06	10,429.3	427.1	-1,054.1	-350.3	0.00	0.00	0.00
10,600.0	7.16	292.06	10,528.5	431.8	-1,065.6	-354.1	0.00	0.00	0.00

#### 4/25/2024 3:11:18PM

#### COMPASS 5000.16 Build 100

#### Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb = 25' @ 3676.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3676.0usft
Site:	Pretty Good 20 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

#### 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)
10,700.0	7.16	292.06	10,627.7	436.4	-1,077.2	-358.0	0.00	0.00	0.00
10,800.0	7.16	292.06	10,726.9	441.1	-1,088.8	-361.8	0.00	0.00	0.00
,									
10,900.0	7.16	292.06	10,826.2	445.8	-1,100.3	-365.6	0.00	0.00	0.00
11,000.0	7.16	292.06	10,925.4	450.5	-1,111.9	-369.5	0.00	0.00	0.00
11,100.0	7.16	292.06	11,024.6	455.2	-1,123.4	-373.3	0.00	0.00	0.00
11,200.0	7.16	292.06	11,123.8	459.8	-1,135.0	-377.2	0.00	0.00	0.00
11,300.0	7.16	292.06	11,223.0	464.5	-1,146.5	-381.0	0.00	0.00	0.00
11,400.0	7.16	292.06	11,322.3	469.2	-1,158.1	-384.8	0.00	0.00	0.00
11,500.0	7.16	292.06	11,421.5	473.9	-1,169.7	-388.7	0.00	0.00	0.00
11,600.6	7.16	292.06	11,521.3	478.6	-1,181.3	-392.5	0.00	0.00	0.00
11,700.0	5.17	292.06	11,620.1	482.6	-1,191.2	-395.8	2.00	-2.00	0.00
11,800.0	3.17	292.00	11,719.8	485.3	-1,197.9	-398.1	2.00	-2.00	0.00
11,900.0	1.17	292.06	11,819.8	486.8	-1,201.4	-399.2	2.00	-2.00	0.00
11,958.7	0.00	0.00	11,878.5	487.0	-1,202.0	-399.4	2.00	-2.00	0.00
11,975.0	1.95	180.00	11,894.8	486.7	-1,202.0	-399.1	12.00	12.00	0.00
12,000.0	4.95	180.00	11,919.7	485.2	-1,202.0	-397.6	12.00	12.00	0.00
12,025.0	7.95	180.00	11,944.5	482.4	-1,202.0	-394.8	12.00	12.00	0.00
12,050.0	10.95	180.00	11,969.2	478.3	-1,202.0	-390.8	12.00	12.00	0.00
12,075.0	13.95	180.00	11,993.6	472.9	-1,202.0	-385.4	12.00	12.00	0.00
12,100.0	16.95	180.00	12,017.7	466.3	-1,202.0	-378.7	12.00	12.00	0.00
12,125.0	19.95	180.00	12,041.4	458.3	-1,202.0	-370.8	12.00	12.00	0.00
12,150.0	22.95	180.00	12,064.7	449.2	-1,202.0	-361.7	12.00	12.00	0.00
12,175.0	25.95	180.00	12,087.4	438.8	-1,202.0	-351.4	12.00	12.00	0.00
12,175.0	26.46	180.00	12,091.2	437.0	-1,202.0	-349.6	12.00	12.00	0.00
12,200.0	28.95	179.96	12,109.6	427.3	-1,202.0	-339.9	12.00	12.00	-0.19
12,225.0 12,250.0	31.95 34.95	179.92 179.89	12,131.2 12,152.0	414.7 400.9	-1,202.0 -1,202.0	-327.3 -313.5	12.00 12.00	12.00 12.00	-0.16 -0.14
12,275.0	37.95	179.86	12,172.1	386.0	-1,201.9	-298.7	12.00	12.00	-0.12
12,300.0	40.95	179.83	12,191.4	370.1	-1,201.9	-282.9	12.00	12.00	-0.10
12,325.0	43.95	179.81	12,209.9	353.3	-1,201.8	-266.0	12.00	12.00	-0.09
12,350.0	46.95	179.79	12,227.4	335.5	-1,201.8	-248.3	12.00	12.00	-0.08
12,375.0	49.95	179.77	12,244.0	316.7	-1,201.7	-229.6	12.00	12.00	-0.07
12,400.0	52.95	179.75	12,259.6	297.2	-1,201.6	-210.1	12.00	12.00	-0.07
12,425.0	55.95	179.74	12,274.1	276.9	-1,201.5	-189.9	12.00	12.00	-0.06
12,450.0	58.95	179.72	12,287.5	255.8	-1,201.4	-168.8	12.00	12.00	-0.06
12,475.0	61.95	179.71	12,299.9	234.0	-1,201.3	-147.2	12.00	12.00	-0.05
12,500.0	64.95	179.70	12,311.0	211.7	-1,201.2	-124.9	12.00	12.00	-0.05
12,525.0	67.95	179.68	12,321.0	188.8	-1,201.1	-102.0	12.00	12.00	-0.05
12,525.0	70.95	179.67	12,329.8	165.4	-1,200.9	-78.7	12.00	12.00	-0.05
12,550.0	70.95	179.66	12,329.6	165.4	-1,200.9	-78.7 -54.9	12.00	12.00	-0.05
12,600.0 12,625.0	76.95 79.95	179.65 179.64	12,343.6 12 348 6	117.3 92.8	-1,200.7 -1 200 5	-30.8 -6.4	12.00 12.00	12.00 12.00	-0.04
	79.95		12,348.6	92.8	-1,200.5	-6.4	12.00	12.00	-0.04
12,650.0	82.95	179.63	12,352.3	68.1	-1,200.3	18.3	12.00	12.00	-0.04
12,675.0	85.95	179.62	12,354.8	43.2	-1,200.2	43.1	12.00	12.00	-0.04
12,700.0	88.95	179.61	12,355.9	18.3	-1,200.0	68.0	12.00	12.00	-0.04
12,708.7	90.00	179.60	12,355.9	9.5	-1,200.0	76.6	12.00	12.00	-0.04
12,800.0	90.00	179.60	12,355.9	-81.7	-1,199.3	167.6	0.00	0.00	0.00
12,900.0	90.00	179.60	12,355.9	-181.7	-1,198.6	267.3	0.00	0.00	0.00
13,000.0	90.00	179.60	12,355.9	-281.7	-1,197.9	367.0	0.00	0.00	0.00
13,100.0	90.00	179.60	12,355.9	-381.7	-1,197.2	466.7	0.00	0.00	0.00
13,200.0	90.00	179.60	12,356.0	-481.7	-1,196.5	566.4	0.00	0.00	0.00
13,300.0	90.00	179.60	12,356.0	-581.7	-1,195.9	666.1	0.00	0.00	0.00
13,400.0	90.00	179.60	12,356.0	-681.7	-1,195.2	765.8	0.00	0.00	0.00
13,500.0	90.00	179.60	12,356.0	-781.7	-1,194.5	865.5	0.00	0.00	0.00

#### Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb = 25' @ 3676.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3676.0usft
Site:	Pretty Good 20 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

#### 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)
13,600.0	90.00	179.60	12,356.0	-881.7	-1,193.8	965.2	0.00	0.00	0.00
13,700.0	90.00	179.60	12,356.0	-981.7	-1,193.1	1,064.9	0.00	0.00	0.00
13,800.0	90.00	179.60	12,356.0	-1,081.7	-1,192.4	1,164.5	0.00	0.00	0.00
13,900.0	90.00	179.60	12,356.0	-1,181.7	-1,191.7	1,264.2	0.00	0.00	0.00
14,000.0	90.00	179.60	12,356.0	-1,281.7	-1,191.0	1,363.9	0.00	0.00	0.00
14,100.0	90.00	179.60	12,356.0	-1,381.7	-1,190.3	1,463.6	0.00	0.00	0.00
14,200.0	90.00	179.60	12,356.0	-1,481.7	-1,189.6	1,563.3	0.00	0.00	0.00
14,300.0	90.00	179.60	12,356.0	-1,581.7	-1,188.9	1,663.0	0.00	0.00	0.00
14,400.0	90.00	179.60	12,356.0	-1,681.7	-1,188.2	1,762.7	0.00	0.00	0.00
14,500.0	90.00	179.60	12,356.0	-1,781.7	-1,187.5	1,862.4	0.00	0.00	0.00
14,600.0	90.00	179.60	12,356.0	-1,881.7	-1,186.8	1,962.1	0.00	0.00	0.00
14,700.0	90.00	179.60	12,356.0	-1,981.7	-1,186.2	2,061.8	0.00	0.00	0.00
14,800.0	90.00	179.60	12,356.0	-2,081.7	-1,185.5	2,161.4	0.00	0.00	0.00
14,900.0	90.00	179.60	12,356.0	-2,181.7	-1,184.8	2,261.1	0.00	0.00	0.00
15,000.0	90.00	179.60	12,356.0	-2,281.7	-1,184.1	2,360.8	0.00	0.00	0.00
15,100.0	90.00	179.60	12,356.0	-2,381.7	-1,183.4	2,460.5	0.00	0.00	0.00
15,200.0	90.00	179.60	12,356.0	-2,481.7	-1,182.7	2,560.2	0.00	0.00	0.00
15,300.0	90.00	179.60	12,356.0	-2,581.7	-1,182.0	2,659.9	0.00	0.00	0.00
15,400.0	90.00	179.60	12,356.0	-2,681.7	-1,181.3	2,759.6	0.00	0.00	0.00
15,500.0	90.00	179.60	12,356.0	-2,781.7	-1,180.6	2,859.3	0.00	0.00	0.00
15,600.0	90.00	179.60	12,356.0	-2,881.7	-1,179.9	2,959.0	0.00	0.00	0.00
15,700.0	90.00	179.60	12,356.0	-2,981.7	-1,179.2	3,058.6	0.00	0.00	0.00
15,800.0	90.00	179.60	12,356.0	-3,081.7	-1,178.5	3,158.3	0.00	0.00	0.00
15,900.0	90.00	179.60	12,356.0	-3,181.7	-1,177.8	3,258.0	0.00	0.00	0.00
16,000.0	90.00	179.60	12,356.0	-3,281.7	-1,177.1	3,357.7	0.00	0.00	0.00
16,100.0	90.00	179.60	12,356.0	-3,381.7	-1,176.4	3,457.4	0.00	0.00	0.00
16,200.0	90.00	179.60	12,356.0	-3,481.7	-1,175.8	3,557.1	0.00	0.00	0.00
16,300.0	90.00	179.60	12,356.0	-3,581.7	-1,175.1	3,656.8	0.00	0.00	0.00
16,400.0	90.00	179.60	12,356.0	-3,681.6	-1,174.4	3,756.5	0.00	0.00	0.00
16,500.0	90.00	179.60	12,356.0	-3,781.6	-1,173.7	3,856.2	0.00	0.00	0.00
16,600.0	90.00	179.60	12,356.0	-3,881.6	-1,173.0	3,955.9	0.00	0.00	0.00
16,700.0	90.00	179.60	12,356.0	-3,981.6	-1,172.3	4,055.5	0.00	0.00	0.00
16,800.0	90.00	179.60	12,356.0	-4,081.6	-1,171.6	4,155.2	0.00	0.00	0.00
16,900.0	90.00	179.60	12,356.0	-4,181.6	-1,170.9	4,254.9	0.00	0.00	0.00
17,000.0	90.00	179.60	12,356.0	-4,281.6	-1,170.2	4,354.6	0.00	0.00	0.00
17,100.0	90.00	179.60	12,356.0	-4,381.6	-1,169.5	4,454.3	0.00	0.00	0.00
17,200.0	90.00	179.60	12,356.0	-4,481.6	-1,168.8	4,554.0	0.00	0.00	0.00
17,300.0	90.00	179.60	12,356.0	-4,581.6	-1,168.1	4,653.7	0.00	0.00	0.00
17,400.0	90.00	179.60	12,356.0	-4,681.6	-1,167.4	4,753.4	0.00	0.00	0.00
17,463.4	90.00	179.60	12,356.0	-4,745.0	-1,167.0	4,816.6	0.00	0.00	0.00
17,500.0	90.00	179.60	12,356.0	-4,781.6	-1,166.7	4,853.1	0.00	0.00	0.00
17,600.0	90.00	179.60	12,356.0	-4,881.6	-1,166.1	4,952.8	0.00	0.00	0.00
17,700.0	90.00	179.60	12,356.0	-4,981.6	-1,165.4	5,052.4	0.00	0.00	0.00
17,800.0	90.00	179.60	12,356.0	-5,081.6	-1,164.7	5,152.1	0.00	0.00	0.00
17,900.0	90.00	179.61	12,356.0	-5,181.6	-1,164.0	5,251.8	0.00	0.00	0.00
18,000.0	90.00	179.61	12,356.0	-5,281.6	-1,163.3	5,351.5	0.00	0.00	0.00
18,100.0	90.00	179.61	12,356.0	-5,381.6	-1,162.6	5,451.2	0.00	0.00	0.00
18,200.0	90.00	179.61	12,356.0	-5,481.6	-1,161.9	5,550.9	0.00	0.00	0.00
18,300.0	90.00	179.61	12,356.0	-5,581.6	-1,161.2	5,650.6	0.00	0.00	0.00
18,400.0	90.00	179.61	12,356.0	-5,681.6	-1,160.5	5,750.3	0.00	0.00	0.00
18,500.0	90.00	179.61	12,356.0	-5,781.6	-1,159.9	5,850.0	0.00	0.00	0.00
18,600.0	90.00	179.61	12,356.0	-5,881.6	-1,159.2	5,949.7	0.00	0.00	0.00
18,700.0	90.00	179.61	12,356.0	-5,981.6	-1,158.5	6,049.3	0.00	0.00	0.00
		179.61	12,356.0	-6,081.6	-1,157.8	6,149.0	0.00	0.00	0.00

#### Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb = 25' @ 3676.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3676.0usft
Site:	Pretty Good 20 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

#### 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)
18,900.0	90.00	179.61	12,356.0	-6,181.6	-1,157.1	6,248.7	0.00	0.00	0.00
19,000.0	90.00	179.61	12,356.0	-6,281.6	-1,156.5	6,348.4	0.00	0.00	0.00
19,100.0	90.00	179.61	12,356.0	-6,381.6	-1,155.8	6,448.1	0.00	0.00	0.00
19,200.0	90.00	179.61	12,356.0	-6,481.6	-1,155.1	6,547.8	0.00	0.00	0.00
19,200.0	90.00	179.01	12,330.0	-0,401.0	-1,155.1	0,547.0	0.00	0.00	
19,300.0	90.00	179.61	12,356.0	-6,581.6	-1,154.4	6,647.5	0.00	0.00	0.00
19,400.0	90.00	179.61	12,356.0	-6,681.6	-1,153.7	6,747.2	0.00	0.00	0.00
19,500.0	90.00	179.61	12,356.0	-6,781.6	-1,153.1	6,846.9	0.00	0.00	0.00
19,600.0	90.00	179.61	12,356.0	-6,881.6	-1,152.4	6,946.6	0.00	0.00	0.00
19,700.0	90.00	179.61	12,356.0	-6,981.6	-1,151.7	7,046.3	0.00	0.00	0.00
19,800.0	90.00	179.61	12,356.0	-7,081.6	-1,151.0	7,145.9	0.00	0.00	0.00
19,900.0	90.00	179.62	12,356.0	-7,181.6	-1,150.4	7,245.6	0.00	0.00	0.00
20,000.0	90.00	179.62	12,356.0	-7,281.6	-1,149.7	7,345.3	0.00	0.00	0.00
20,105.4	90.00	179.62	12,356.0	-7,387.0	-1,149.0	7,450.4	0.00	0.00	0.00
20,200.0	90.00	179.62	12,356.0	-7,481.6	-1,148.4	7,544.7	0.00	0.00	0.00
20,300.0	90.00	179.62	12,356.0	-7,581.6	-1,147.7	7,644.4	0.00	0.00	0.00
20,300.0	90.00	179.62	12,356.0	-7,681.6	-1,147.7	7,044.4	0.00	0.00	0.00
		179.62				7,744.1	0.00	0.00	0.00
20,500.0	90.00		12,356.0	-7,781.6	-1,146.4				
20,600.0	90.00	179.61	12,356.0	-7,881.6	-1,145.7	7,943.5	0.00	0.00	0.00
20,700.0	90.00	179.61	12,356.0	-7,981.5	-1,145.0	8,043.2	0.00	0.00	0.00
20,800.0	90.00	179.61	12,356.0	-8,081.5	-1,144.3	8,142.9	0.00	0.00	0.00
20,900.0	90.00	179.61	12,356.0	-8,181.5	-1,143.7	8,242.5	0.00	0.00	0.00
21,000.0	90.00	179.61	12,356.0	-8,281.5	-1,143.0	8,342.2	0.00	0.00	0.00
21,100.0	90.00	179.61	12,356.0	-8,381.5	-1,142.3	8,441.9	0.00	0.00	0.00
21,200.0	90.00	179.61	12,356.0	-8,481.5	-1,142.5	8,541.6	0.00	0.00	0.00
21,200.0	90.00	179.01	12,330.0	-0,401.5	-1,141.0	0,541.0	0.00	0.00	0.00
21,300.0	90.00	179.61	12,356.0	-8,581.5	-1,141.0	8,641.3	0.00	0.00	0.00
21,400.0	90.00	179.61	12,356.0	-8,681.5	-1,140.3	8,741.0	0.00	0.00	0.00
21,500.0	90.00	179.61	12,356.0	-8,781.5	-1,139.6	8,840.7	0.00	0.00	0.00
21,600.0	90.00	179.61	12,356.0	-8,881.5	-1,138.9	8,940.4	0.00	0.00	0.00
21,700.0	90.00	179.61	12,356.0	-8,981.5	-1,138.3	9,040.1	0.00	0.00	0.00
01 000 0	00.00	170.04	40.050.0	0.004 5	4 407 0	0,400,0	0.00	0.00	0.00
21,800.0	90.00	179.61	12,356.0	-9,081.5	-1,137.6	9,139.8	0.00	0.00	0.00
21,900.0	90.00	179.61	12,356.0	-9,181.5	-1,136.9	9,239.5	0.00	0.00	0.00
22,000.0	90.00	179.61	12,356.0	-9,281.5	-1,136.2	9,339.1	0.00	0.00	0.00
22,100.0	90.00	179.61	12,356.0	-9,381.5	-1,135.5	9,438.8	0.00	0.00	0.00
22,200.0	90.00	179.61	12,356.0	-9,481.5	-1,134.9	9,538.5	0.00	0.00	0.00
22,300.0	90.00	179.61	12,356.0	-9,581.5	-1,134.2	9,638.2	0.00	0.00	0.00
22,400.0	90.00	179.61	12,356.0	-9,681.5	-1,133.5	9,737.9	0.00	0.00	0.00
22,500.0	90.00	179.61	12,356.0	-9,781.5	-1,132.8	9,837.6	0.00	0.00	0.00
22,600.0	90.00	179.61	12,356.0	-9,881.5	-1,132.1	9,937.3	0.00	0.00	0.00
22,000.0	90.00	179.61	12,356.0	-9,981.5	-1,132.1	10,037.0	0.00	0.00	0.00
,									
22,800.0	90.00	179.61	12,356.0	-10,081.5	-1,130.8	10,136.7	0.00	0.00	0.00
22,900.0	90.00	179.61	12,356.0	-10,181.5	-1,130.1	10,236.4	0.00	0.00	0.00
23,000.0	90.00	179.61	12,356.0	-10,281.5	-1,129.4	10,336.1	0.00	0.00	0.00
23,100.0	90.00	179.61	12,356.0	-10,381.5	-1,128.7	10,435.7	0.00	0.00	0.00
23,200.0	90.00	179.61	12,356.0	-10,481.5	-1,128.0	10,535.4	0.00	0.00	0.00
00,000,0	00.00	170.04	40.050.0			40.005.4	0.00	0.00	0.00
23,300.0	90.00	179.61	12,356.0	-10,581.5	-1,127.3	10,635.1	0.00	0.00	0.00
23,400.0	90.00	179.61	12,356.0	-10,681.5	-1,126.7	10,734.8	0.00	0.00	0.00
23,500.0	90.00	179.61	12,356.0	-10,781.5	-1,126.0	10,834.5	0.00	0.00	0.00
23,600.0	90.00	179.61	12,356.0	-10,881.5	-1,125.3	10,934.2	0.00	0.00	0.00
23,700.0	90.00	179.61	12,356.0	-10,981.5	-1,124.6	11,033.9	0.00	0.00	0.00
23,800.0	90.00	179.61	12,356.0	-11,081.5	-1,123.9	11,133.6	0.00	0.00	0.00
23,900.0	90.00	179.60	12,356.0	-11,181.5	-1,123.2	11,233.3	0.00	0.00	0.00
24,000.0	90.00	179.60	12,356.0	-11,281.5	-1,122.5	11,333.0	0.00	0.00	0.00
24,000.0	90.00	179.60	12,356.0	-11,381.5	-1,122.3	11,432.6	0.00	0.00	0.00
24,100.0	90.00	179.60	12,356.0	-11,381.5	-1,121.0	11,432.6	0.00	0.00	0.00
24,200.0	50.00	179.00	12,000.0	-11,-01.5	-1,121.1	11,352.5	0.00	0.00	0.00

#### Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb = 25' @ 3676.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3676.0usft
Site:	Pretty Good 20 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

#### 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)
24,300.0	90.00	179.60	12,356.0	-11,581.5	-1,120.4	11,632.0	0.00	0.00	0.00
24,400.0	90.00	179.60	12,356.0	-11,681.5	-1,119.8	11,731.7	0.00	0.00	0.00
24,500.0	90.00	179.60	12,356.0	-11,781.5	-1,119.1	11,831.4	0.00	0.00	0.00
24,600.0	90.00	179.60	12,356.0	-11,881.5	-1,118.4	11,931.1	0.00	0.00	0.00
24,700.0	90.00	179.60	12,356.0	-11,981.5	-1,117.7	12,030.8	0.00	0.00	0.00
24,800.0	90.00	179.60	12,356.0	-12,081.5	-1,117.0	12,130.5	0.00	0.00	0.00
24,900.0	90.00	179.60	12,356.0	-12,181.5	-1,116.3	12,230.2	0.00	0.00	0.00
25,000.0	90.00	179.60	12,356.0	-12,281.4	-1,115.6	12,329.9	0.00	0.00	0.00
25,100.0	90.00	179.60	12,356.0	-12,381.4	-1,114.9	12,429.5	0.00	0.00	0.00
25,200.0	90.00	179.60	12,356.0	-12,481.4	-1,114.2	12,529.2	0.00	0.00	0.00
25,300.0	90.00	179.60	12,356.0	-12,581.4	-1,113.5	12,628.9	0.00	0.00	0.00
25,400.0	90.00	179.60	12,356.0	-12,681.4	-1,112.8	12,728.6	0.00	0.00	0.00
25,500.0	90.00	179.60	12,356.0	-12,781.4	-1,112.1	12,828.3	0.00	0.00	0.00
25,600.0	90.00	179.60	12,356.0	-12,881.4	-1,111.4	12,928.0	0.00	0.00	0.00
25,700.0	90.00	179.60	12,356.0	-12,981.4	-1,110.7	13,027.7	0.00	0.00	0.00
25,800.0	90.00	179.60	12,356.0	-13,081.4	-1,110.0	13,127.4	0.00	0.00	0.00
25,900.0	90.00	179.60	12,356.0	-13,181.4	-1,109.3	13,227.1	0.00	0.00	0.00
26,000.0	90.00	179.60	12,356.0	-13,281.4	-1,108.6	13,326.7	0.00	0.00	0.00
26,100.0	90.00	179.60	12,356.0	-13,381.4	-1,107.9	13,426.4	0.00	0.00	0.00
26,200.0	90.00	179.60	12,356.0	-13,481.4	-1,107.2	13,526.1	0.00	0.00	0.00
26,300.0	90.00	179.60	12,356.0	-13,581.4	-1,106.5	13,625.8	0.00	0.00	0.00
26,400.0	90.00	179.60	12,356.0	-13,681.4	-1,105.8	13,725.5	0.00	0.00	0.00
26,500.0	90.00	179.60	12,356.0	-13,781.4	-1,105.1	13,825.2	0.00	0.00	0.00
26,600.0	90.00	179.60	12,356.0	-13,881.4	-1,104.4	13,924.9	0.00	0.00	0.00
26,700.0	90.00	179.60	12,356.0	-13,981.4	-1,103.7	14,024.6	0.00	0.00	0.00
26,800.0	90.00	179.60	12,356.0	-14,081.4	-1,103.0	14,124.3	0.00	0.00	0.00
26,900.0	90.00	179.60	12,356.0	-14,181.4	-1,102.3	14,223.9	0.00	0.00	0.00
27,000.0	90.00	179.60	12,356.0	-14,281.4	-1,101.6	14,323.6	0.00	0.00	0.00
27,100.0	90.00	179.60	12,356.0	-14,381.4	-1,100.9	14,423.3	0.00	0.00	0.00
27,200.0	90.00	179.59	12,356.0	-14,481.4	-1,100.2	14,523.0	0.00	0.00	0.00
27,300.0	90.00	179.59	12,356.0	-14,581.4	-1,099.5	14,622.7	0.00	0.00	0.00
27,400.0	90.00	179.59	12,356.0	-14,681.4	-1,098.7	14,722.4	0.00	0.00	0.00
27,500.0	90.00	179.59	12,356.0	-14,781.4	-1,098.0	14,822.1	0.00	0.00	0.00
27,600.0	90.00	179.59	12,356.0	-14,881.4	-1,097.3	14,921.8	0.00	0.00	0.00
27,700.0	90.00	179.59	12,356.0	-14,981.4	-1,096.6	15,021.5	0.00	0.00	0.00
27,800.0	90.00	179.59	12,356.0	-15,081.4	-1,095.9	15,121.1	0.00	0.00	0.00
27,900.0	90.00	179.59	12,356.0	-15,181.4	-1,095.2	15,220.8	0.00	0.00	0.00
27,927.6	90.00	179.59	12,356.0	-15,209.0	-1,095.0	15,248.4	0.00	0.00	0.00

## Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	PEDMB Midland Lea County, Pretty Good #705H OH Plan #0.2	•	NME)		TVD Refere MD Referen North Refer	ice:	kb = 25' kb = 25' Grid	Well #705H kb = 25' @ 3676.0usft kb = 25' @ 3676.0usft Grid Minimum Curvature			
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(Pretty Good 20 Fe - plan hits target ce - Point		0.00	11,878.5	487.0	-1,202.0	504,085.00	736,910.00	32° 23' 3.144 N	103° 41' 59.206 W		
FTP(Pretty Good 20 Fe - plan hits target ce - Point		0.00	12,091.2	437.0	-1,202.0	504,035.00	736,910.00	32° 23' 2.649 N	103° 41' 59.209 W		
PBHL(Pretty Good 20 F - plan hits target ce - Point		0.00	12,356.0	-15,209.0	-1,095.0	488,389.00	737,017.00	32° 20' 27.822 N	103° 41' 59.042 W		
Fed Perf 2(Pretty Good - plan hits target ce - Point		0.00	12,356.0	-7,387.0	-1,149.0	496,211.00	736,963.00	32° 21' 45.226 N	103° 41' 59.132 W		
Fed Perf 1(Pretty Good - plan hits target ce - Point		0.00	12,356.0	-4,745.0	-1,167.0	498,853.00	736,945.00	32° 22' 11.370 N	103° 41' 59.159 W		

# **leogresources**

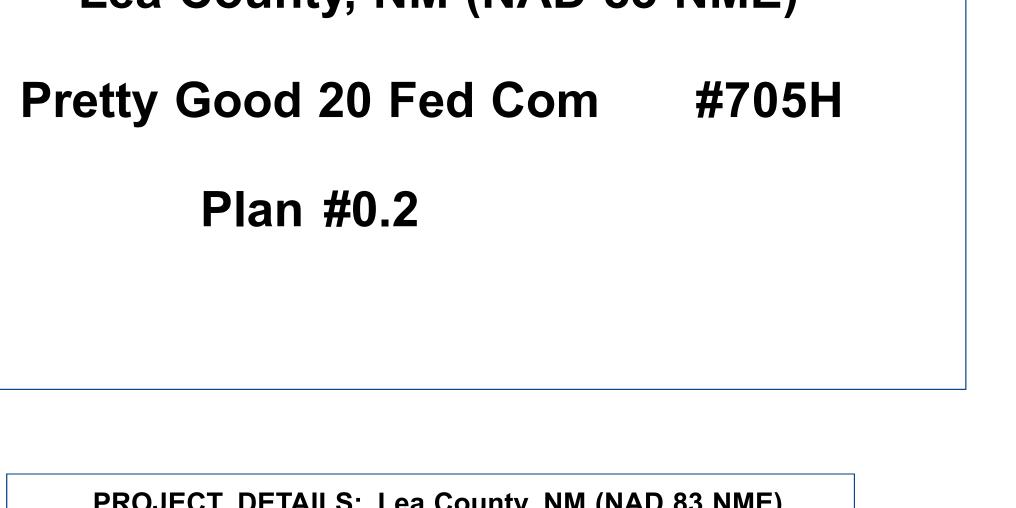
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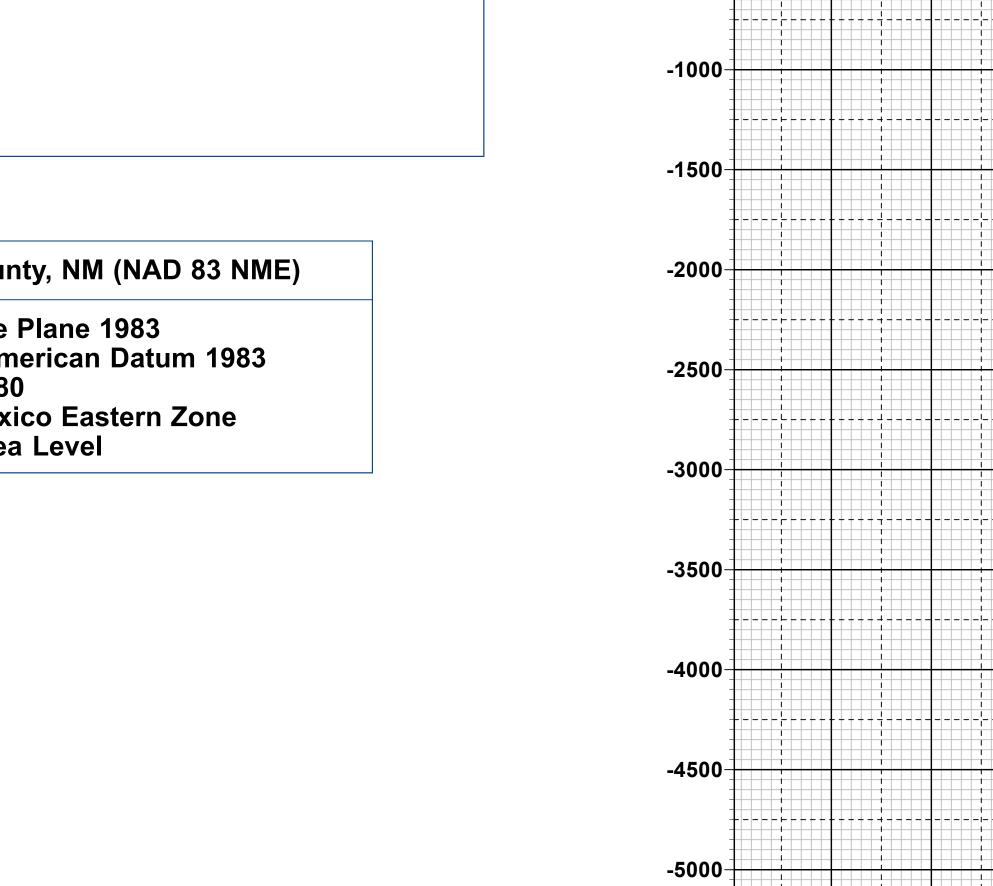
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Lea County, NM (NAD 83 NME)

PROJECT DETAILS: Lea 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





West(-)/East(+)

-500

1000

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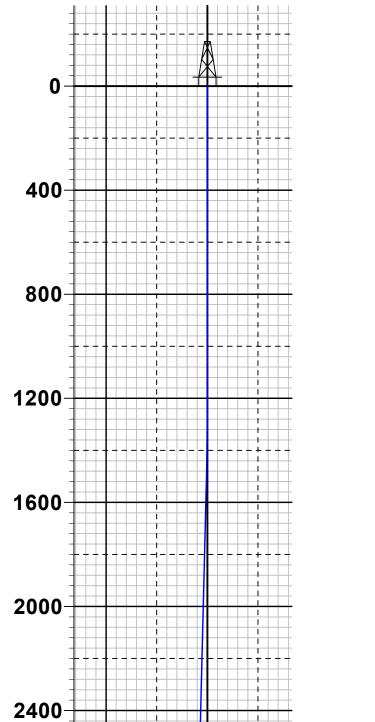
500

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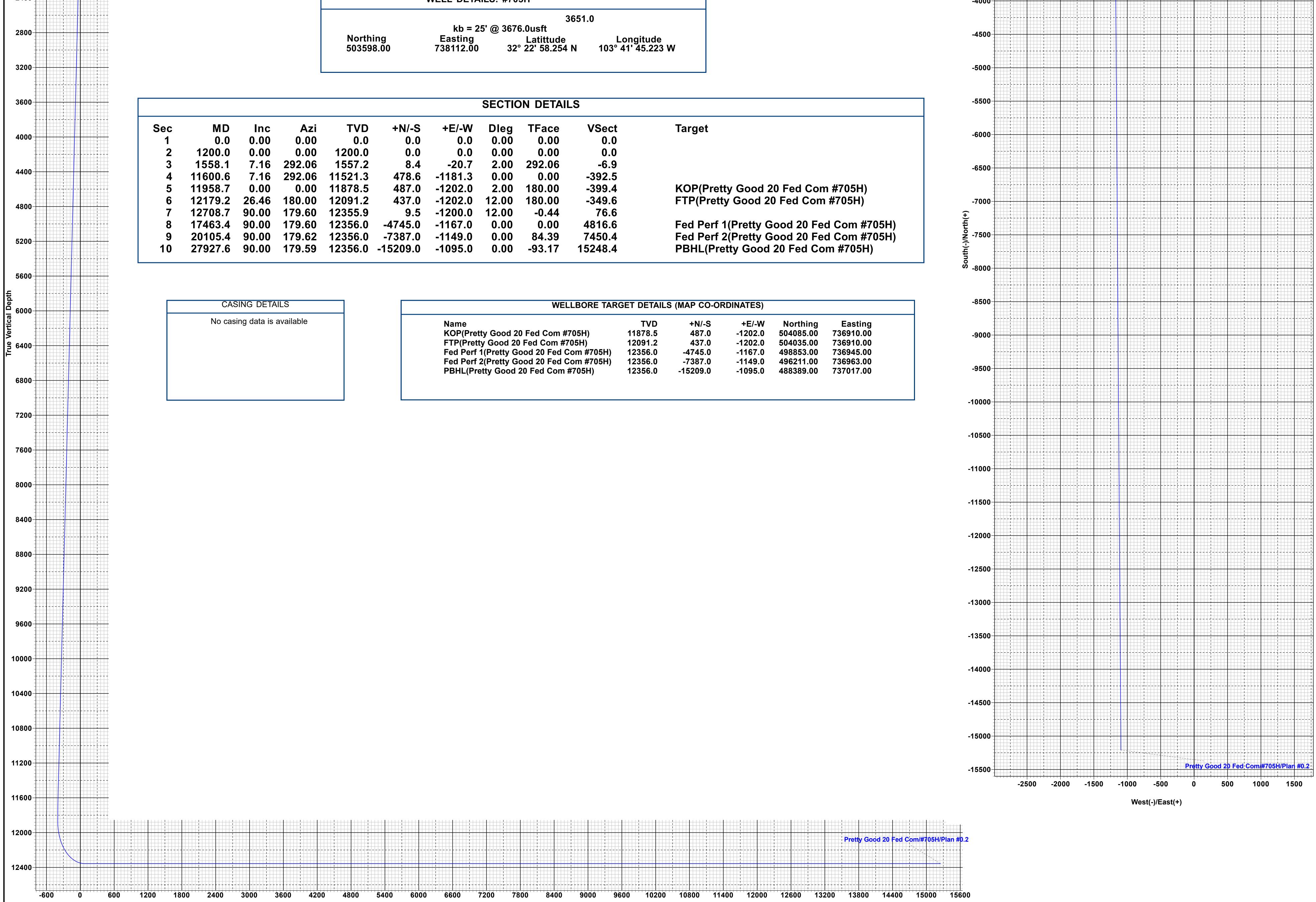


**Azimuths to Grid North** True North: -0.34° Magnetic North: 6.37° **Magnetic Field** Strength: 47658.8nT Dip Angle: 60.05° Date: 8/20/2020 Model: IGRF2020

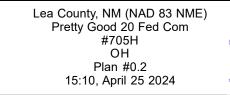
To convert a Magnetic Direction to a Grid Direction, Add 6.37° To convert a Magnetic Direction to a True Direction, Add 6.71° East To convert a True Direction to a Grid Direction, Subtract 0.34°

			5H	ILS: #705	VELL DETA	۱					
		51.0		5' @ 3676	kb = 2						
		Longitue 103° 41' 45.2	Latittude 22' 58.254 N	_	Easting 738112.00		Northi 503598				
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		-6.9	292.06	2.00	-20.7	8.4	1557.2	292.06	7.16	1558.1	3
		-392.5	0.00	0.00	-1181.3	478.6	11521.3	292.06	7.16	11600.6	4
Pretty Good	KOP(Pı	-399.4	180.00	2.00	-1202.0	487.0	11878.5	0.00	0.00	11958.7	5
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retty Good :			~ ~ ~ ~	40.00	4000 0	0 5	100550	170 60		10700 7	7
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CASING DETAILS	WELLBORE TAR	WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
No casing data is available	Name	TVD	+N/-S	+E/-W	Northing	Easting		
	KOP(Pretty Good 20 Fed Com #705H)	11878.5	487.0	-1202.0	504085.00	736910.00		
	FTP(Pretty Good 20 Fed Com #705H)	12091.2	437.0	-1202.0	504035.00	736910.00		
	Fed Perf 1(Pretty Good 20 Fed Com #705H)	12356.0	-4745.0	-1167.0	498853.00	736945.00		
	Fed Perf 2(Pretty Good 20 Fed Com #705H)	12356.0	-7387.0	-1149.0	496211.00	736963.00		
	PBHL(Pretty Good 20 Fed Com #705H)	12356.0	-15209.0	-1095.0	488389.00	737017.00		



Vertical Section at 184.12°



# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

COUNTY	Lea County, New Mexico
LOCATION:	Section 32, T.22 S., R.32 E.
BOTTOM HOLE FOOTAGE	100'/S & 1716'/W
SURFACE HOLE FOOTAGE:	
WELL NAME & NO.:	PRETTY GOOD 20 FED COM 705H
OPERATOR'S NAME:	EOG RESOURCES INCORPORATED

## ALL PREVIOUS COAs STILL APPLY

# COA

H2S	• Yes	O No	
Potash	• None	© Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	O Other
Wellhead	Conventional	Multibowl	O Both
Wellhead Variance	O Diverter		
Other	□4 String	Capitan Reef	WIPP
Other	Fluid Filled	Pilot Hole	🗆 Open Annulus
Cementing	□ Contingency	EchoMeter	Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	🗆 Water Disposal	COM	🗆 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 **1,290** 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 <u>8</u>
   <u>hours</u> 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 **11,400** feet TVD. 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. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u>

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

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 production casing shall be set at approximately **27,928** 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.

#### Alternate Casing Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **1,290** 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  $\underline{8}$ <u>hours</u> 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 **11,400** 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. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 8-3/4"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u>

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

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 X 5.5 inch tapered production casing shall be set at approximately 27,928 feet. Operator has requested the optionality to run only the 6 inch or only the 5.5 inch casing from surface to TD. These alternatives have been reviewed and is OK. Keep casing full to stay within collapse SF requirement. The minimum required fill of cement behind the 6 inch x 5.5 inch tapered 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.

#### (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 aware on lack of 1" optionality in surface interval and will do remediation if needed.

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 County Call 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 2<sup>nd</sup> 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. <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> <u>hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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

- 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** 5/4/2024



#### Intermediate Bradenhead Cement:

EOG requests variance from minimum standards to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting 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 of cement 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.

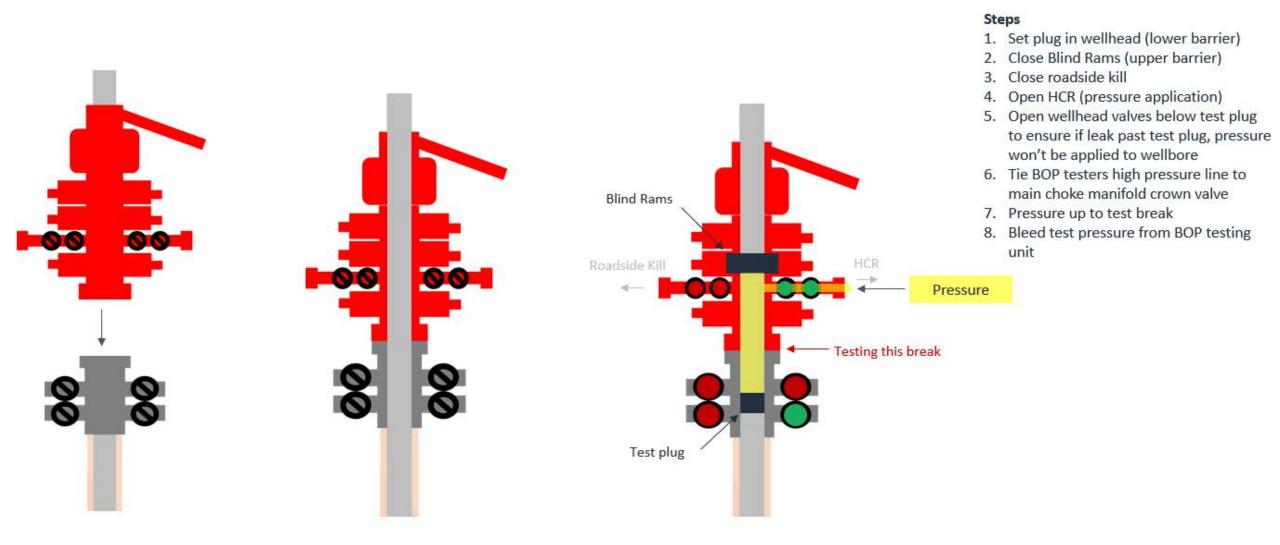


#### **Break-test BOP & Offline Cementing:**

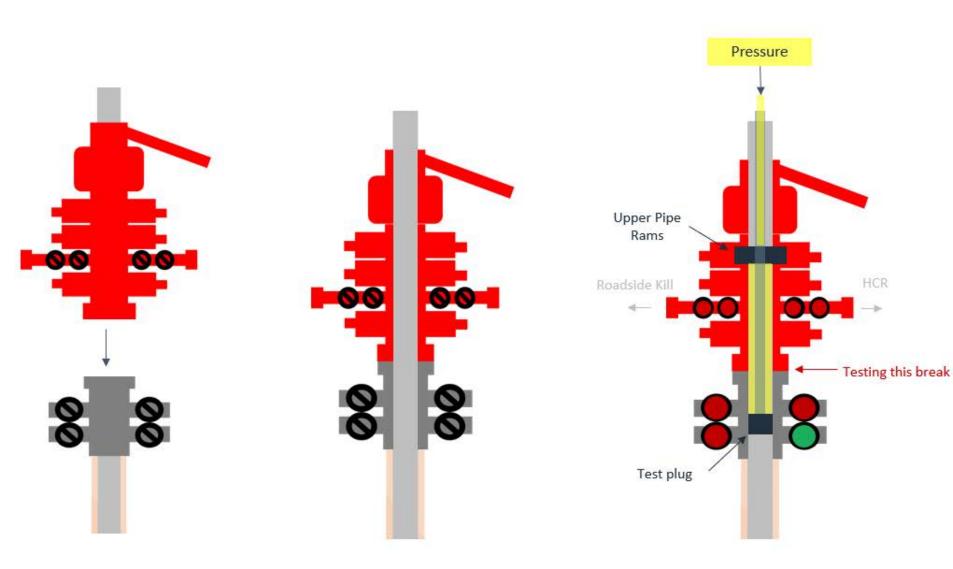
EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement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



# **Break Test Diagram (Test Joint)**



## Steps

- 1. 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
- 6. Tie BOP testers high pressure line to top of test joint
- 7. Pressure up to test break
- 8. Bleed test pressure from BOP testing unit

# **Offline Intermediate Cementing Procedure**

#### **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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Offline Intermediate Cementing Procedure

- 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.

#### **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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Offline Intermediate Cementing Procedure

- 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

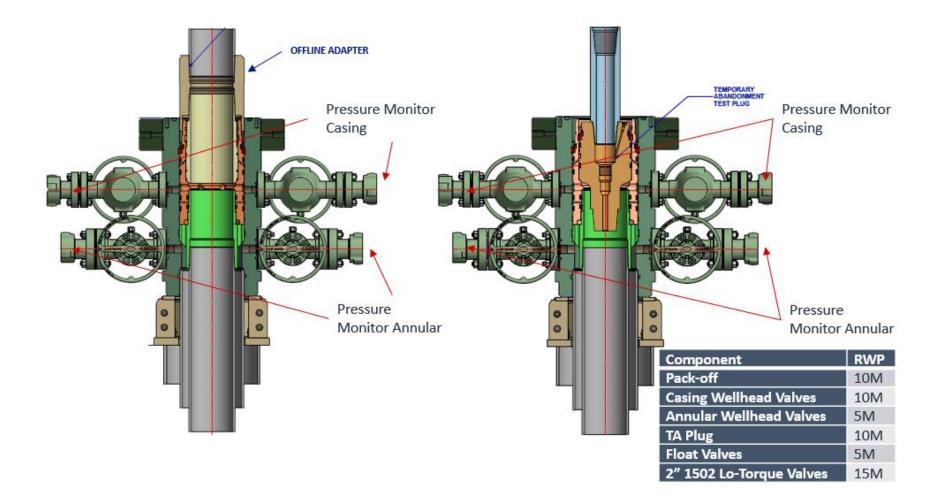
#### General Procedure After Cementing

- 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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# **Seog resources** Offline Intermediate Cementing Procedure

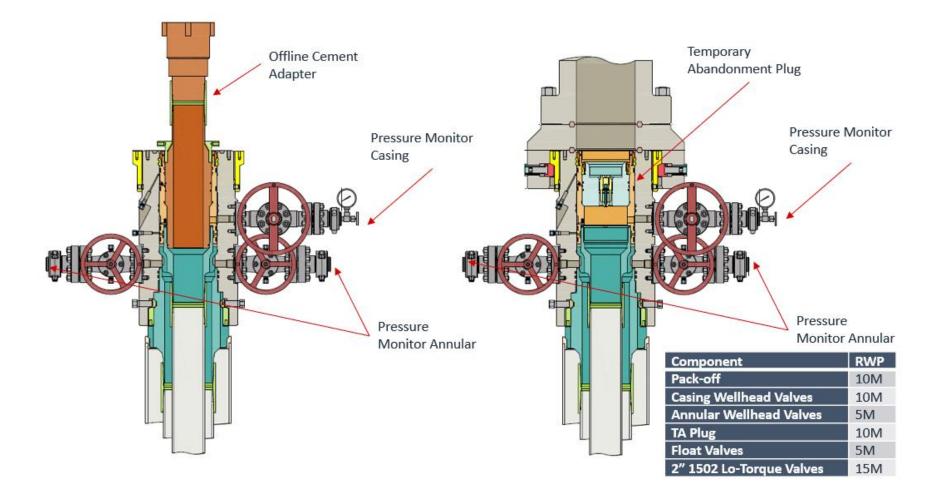
Figure 1: Cameron TA Plug and Offline Adapter Schematic



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# **Offline Intermediate Cementing Procedure**





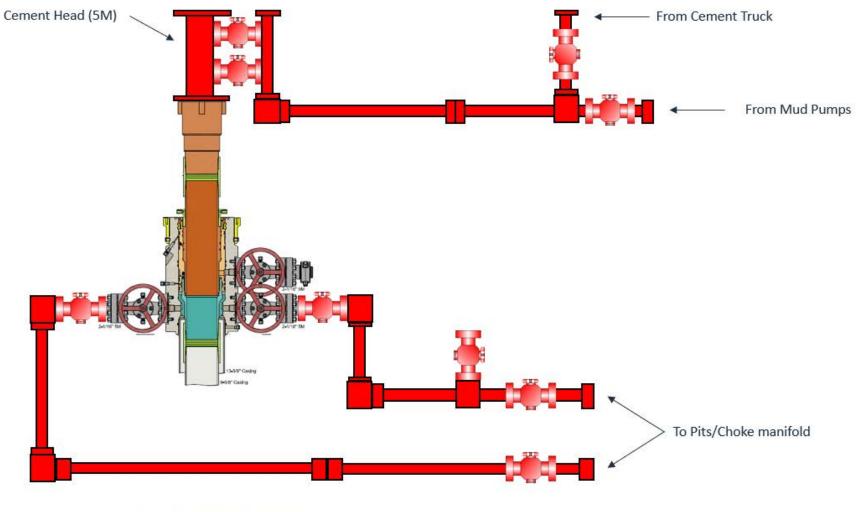
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\*\*\* All Lines 10M rated working pressure

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## Pretty Good 20 Fed Com 705H API #: 30-025-51793 Variances

EOG respectfully requests the below variances to be applied to the above well:

- Variance is requested to waive the centralizer requirements for the intermediate casing in the intermediate hole. An expansion additive will be utilized, in the cement slurry, for the entire length of the intermediate interval to maximize cement bond and zonal isolation.

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

- Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

- Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

- EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1,500 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

EOG requests the additional variance(s) in the attached document(s):

- EOG BLM Variance 3a\_b BOP Break-test and Offline Intermediate Cement
- EOG BLM Variance 2a Inermediate Bradenhead Cement

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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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	379847
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	REQUIRES NSP	9/3/2024

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Action 379847