<i>Received by OCD: 1/1</i>	2/2023 0:2	10:3 / AM						Page 1 of
Form 3160-5 (June 2019)		UNITED STATES ARTMENT OF THE INT GAU OF LAND MANAG				C Exp	OMB N bires: O	APPROVED o. 1004-0137 October 31, 2021
			N		0437880			
Do not i	use this fo	OTICES AND REPORT orm for proposals to a lse Form 3160-3 (APD	6. If Indian, Allottee of	r Tribe	Name			
	UBMIT IN T	RIPLICATE - Other instructio	ons on page	2		7. If Unit of CA/Agre	ement,	Name and/or No.
1. Type of Well			1-13-			-		
✓ Oil Well	Gas We	ell Other				8. Well Name and No.	RIPP	LE 32 FED COM/733H
2. Name of Operator EOG	RESOURC	ES INCORPORATED				9. API Well No. 30-0	15-501	34
		3Y 2, HOUSTON, TX 77( 3b.	Phone No. ( 3) 651-700	íinclude area cod 0	e)	10. Field and Pool or PURPLE SAGE; V	Explora	atory Area
4. Location of Well (Foota SEC 32/T26S/R31E/N	-	,M., or Survey Description)				11. Country or Parish, EDDY/NM	State	
	12. CHEC	CK THE APPROPRIATE BOX(	ES) TO IND	ICATE NATUR	E OF NOT	ICE, REPORT OR OTH	HER D	ATA
TYPE OF SUBMIS	SION			ТҮ	PE OF AC	TION		
✓ Notice of Intent		Acidize	Deepe	en aulic Fracturing		luction (Start/Resume) amation		] Water Shut-Off ] Well Integrity
Subsequent Report		Casing Repair		Construction		omplete	V	Other
	N	Change Plans		and Abandon		porarily Abandon		
Final Abandonment		Convert to Injection	Plug I			er Disposal		approximate duration thereof. If
the Bond under which completion of the invo completed. Final Aban is ready for final inspe	the work will lved operatior donment Noti ction.)	be perfonned or provide the Bo ns. If the operation results in a m ices must be filed only after all r	nd No. on fi nultiple com equirements	le with BLM/BIA pletion or recomp , including reclar	A. Required oletion in a	subsequent reports mu new interval, a Form 3	ist be fi 160-4 i	ertinent markers and zones. Attach led within 30 days following must be filed once testing has been rator has detennined that the site
the following chang		amendment to our approved A	apd for this	well to reflect				
-		1-E, Sec 29, 230' FNL, 990' F ' FNL, 1485' FWL, Eddy Co.,	-	Co., NM,				
Update casing and	cement pro	gram to current design.						
Update HSU to 90.	2 acres.							
EOG requests exe	cution of Var	riance 3a (attached) to offline	cement the	e intermediate s	sections.			
14. I hereby certify that the	foregoing is t	true and correct. Name (Printed	/Typed)					
STAR HARRELL / Ph:				Regulator Title	ry Speciali	st		
Signature				Date		11/14/2	022	
		THE SPACE FO	OR FEDE	RAL OR ST		ICE USE		
Approved by								
KEITH P IMMATTY / P	h: (575) 988-	-4722 / Approved		Title ENG	SINEER	]	Date	01/11/2023
Conditions of approval, if any, are attached. Approval of this notice does not warrant or						I		

certify that the applicant holds legal or equitable title to those rights in the subject lease 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)

#### **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, 3162.3-3, 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

#### **Additional Information**

#### Location of Well

0. SHL: LOT 3 / 1877 FNL / 1387 FWL / TWSP: 26S / RANGE: 31E / SECTION: 32 / LAT: 32.001007 / LONG: -103.804438 ( TVD: 0 feet, MD: 0 feet ) PPP: SWSW / 0 FSL / 990 FWL / TWSP: 26S / RANGE: 31E / SECTION: 32 / LAT: 32.006168 / LONG: -103.805725 ( TVD: 11454 feet, MD: 13394 feet ) PPP: LOT 4 / 1853 FNL / 990 FWL / TWSP: 26S / RANGE: 31E / SECTION: 32 / LAT: 32.001075 / LONG: -103.80572 ( TVD: 11411 feet, MD: 11535 feet ) BHL: NWNW / 230 FNL / 990 FWL / TWSP: 26S / RANGE: 31E / SECTION: 29 / LAT: 32.020173 / LONG: -103.805743 ( TVD: 11454 feet, MD: 18488 feet ) DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone: (573) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 344-6178 Fax: (355) 344-6179 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

#### □ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-50	PI Number 1 <b>34</b>		Pool Code Pool Name 98220 Purple Sage; Wolfcamp (Gas)							
Property Co 33291				D	Property Name	COM		Well Nur		
55291	0			Г		COM		733H	1	
OGRID N	0.				Operator Name			Elevati	on	
7377				EO	G RESOURCE	S, INC.		310	4'	
					Surface Locat	ion				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
3	32	26 S	31 E		1877	7 NORTH	1387	WEST	EDDY	
			Bott	om Hole I	Location If Diff	erent From Surfac	e e			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
С	29	26 S	31 E	31 E 230 NORTH 1485 WEST					EDDY	
Dedicated Acres	Joint or	Infill	Consolidated Co	de Orde	r No.	· · · · ·				
902										

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.

NEW MEXAO EAST NAD 1983 X = 705344' Y = 371479' LAT.= N 32.020172° LON.= W 103.804146° NAD 1927 X = 664158' Y = 371422' LAT. = N 32.020047° LONG. = W 103.803671° X = 703875' Y = 369040'	X = 703858' Y = 371702' 20 230' X = 706522' 20 230' Y = 371715' 20 21 Y = 371729' 230' X = 706522' 20 230' X = 706522' 20 230' X = 371729' 20 230'	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Star L Harrell Print Name Estar_harrell@eogresources.com E-mail Address
	2 Y = 366328' LAT. = N 32.006043°	
	NEW MEXICO EAST NAD 1983 X = 705385' Y = 364532' 29 28	SURVEYORS CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. August 16, 2022
X = 705288' Y = 364507' LAT. = N 32.001007° LON. = W 103.804438° NAD 1927 X = 664101'	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Date of Survey Signature and Seal of Professional Surveyor
Y = 364450' LAT. = N 32.000882° LONG. = W 103.803965° X = 703902' Y = 364194'	LOT 4 LOT 3 LOT 2 LOT 1 AZ = 75.33° Y = 364209' Y = 364209' Y = 364224' TEXAS	
		Job No.: EOG_B190025 BRANDON MOSER, N.M.P.L.S. Certificate Number 22502

# **S**eog resources

#### Ripple 32 Fed Com 733H

#### **Revised Permit Information 10/24/2022:**

Well Name: Ripple 32 Fed Com 733H

Location: SHL: 1877' FNL & 1387' FWL, Section 32, T-26-S, R-31-E, Eddy Co., N.M. BHL: 230' FNL & 1485' FWL, Section 29, T-36-S, R-31-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
12-1/4"	0	1,060	0	1,060	9-5/8"	36#	J-55	LTC
8-3/4"	0	10,004	0	10,000	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	9,504	0	9,500	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	9,504	10,004	9,500	10,000	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	10,004	18,480	10,000	11,454	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	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	
1,060' 9-5/8''	300	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- 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 @ 860')
10,000' 7-5/8''	440	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,270')
	1070	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag- M + 6% Bentonite Gel (TOC @ surface)
18,480' 5-1/2''	780	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,500')

**Cementing Program:** 

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 (6,467') 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 70 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.

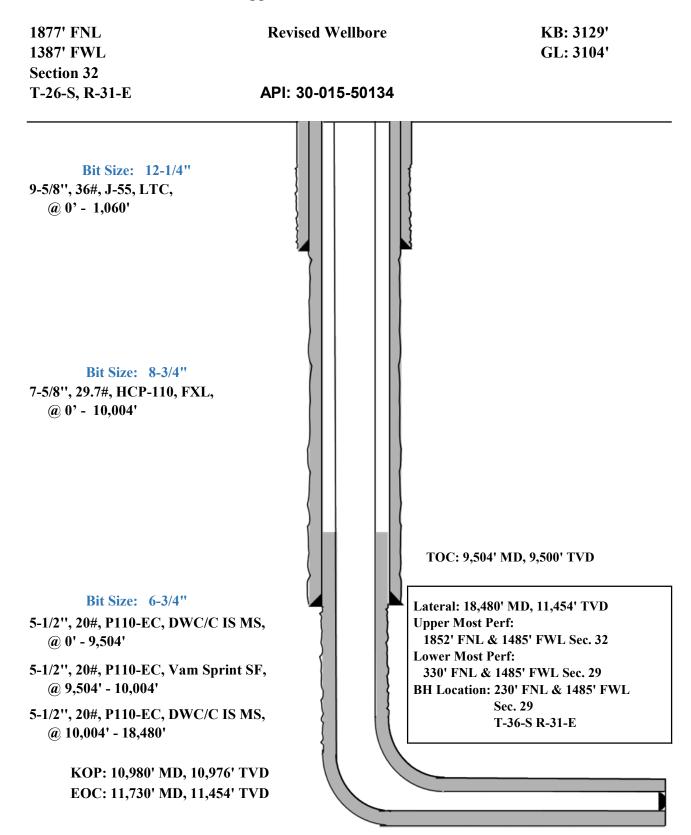
Measured Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,060'	Fresh - Gel	8.6-8.8	28-34	N/c
1,060' - 10,000'	Brine	10.0-10.2	28-34	N/c
10,000' - 10,980'	Oil Base	8.7-9.4	58-68	N/c - 6
10,980' – 18,480' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



#### Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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 per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- 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.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"





#### 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	1,060	0	1,060	10-3/4"	40.5#	J-55	STC
9-7/8"	0	10,004	0	10,000	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	18,480	0	11,454	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.

Depth	No. Sacks	Wt.	Yld Ft3/sk	Slurry Description
1,060' 10-3/4"	280	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 860')
10,000' 8-3/4"	500	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,270')
	1220	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag- M + 6% Bentonite Gel (TOC @ surface)
18,480' <sub>6"</sub>	1270	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,500')

#### **Cementing Program:**



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 (6,467') 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 219 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.

#### Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) 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 per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- 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.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



1877' FNL **Proposed Wellbore KB: 3129'** 1387' FWL GL: 3104' Section 32 T-26-S, R-31-E API: 30-015-50134 Bit Size: 13" 10-3/4", 40.5#, J-55, STC, (a) 0' - 1,060' Bit Size: 9-7/8" 8-3/4" 38.5#, P110-EC, SLIJ II NA, (a) 0' - 10,004' TOC: 9,504' MD, 9,500' TVD Lateral: 18,480' MD, 11,454' TVD Bit Size: 7-7/8" **Upper Most Perf:** 1852' FNL & 1485' FWL Sec. 32 6", 22.3#, P110-EC, DWC/C IS, Lower Most Perf: (a) 0' - 18,480' 330' FNL & 1485' FWL Sec. 29 BH Location: 230' FNL & 1485' FWL Sec. 29 T-36-S R-31-E KOP: 10,980' MD, 10,976' TVD EOC: 11,730' MD, 11,454' TVD



# Midland

Eddy County, NM (NAD 83 NME) Ripple 32 Fed Com #733H

OH

Plan: Plan #0.1

# **Standard Planning Report**

14 November, 2022



Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Eddy County, I Ripple 32 Fed #733H OH Plan #0.1	•	NME)	Local Co-ordin TVD Reference MD Reference North Referen Survey Calcul	: ce:	Well #733H kb = 25' @ 3129 kb = 25' @ 3129 Grid Minimum Curva	9.0usft
Project	Eddy County, N	IM (NAD 83 N	ME)				
Geo Datum:	US State Plane 1 North American E New Mexico East	Datum 1983		System Datum:		Mean Sea Level	
Site	Ripple 32 Fed C	Com					
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	365,131. 708,897. 13-3/	00 usft Longitu		32° 0' 9.625 N 103° 47' 34.029 W
Well	#733H						
Well Position Position Uncertainty Grid Convergence:	+N/-S +E/-W	0.0 usft 0.0 usft 0.0 usft 0.28 °	Northing: Easting: Wellhead Elev	7	64,507.00 usft 05,288.00 usft usft	Latitude: Longitude: Ground Level:	32° 0' 3.627 N 103° 48' 15.977 W 3,104.0 usft
Wellbore	ОН						
Magnetics	Model Nam	le	Sample Date	Declination (°)		Dip Angle (°)	Field Strength (nT)
	IGR	-2020	7/8/2020		6.75	59.69	47,437.25935312
Design	Plan #0.1						
Audit Notes: Version:			Phase:	PLAN	Tie On Dep	th:	0.0
Vertical Section:		(เ	rom (TVD) ısft)	+N/-S (usft)	+E/-W (usft)		ection (°)
		(	0.0	0.0	0.0	(	).46
Plan Survey Tool Pro Depth From (usft)	Depth To	Date 11/14 Survey (Wellb		Tool Name	Rema	arks	
1 0.0	18,480.1 P	Plan #0.1 (OH)	)	EOG MWD+IFR1 MWD + IFR1			



Database:	PEDM	Local Co-ordinate Reference:	Well #733H
Company:	Midland	TVD Reference:	kb = 25' @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#733H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1		

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,280.6	1.61	159.17	1,280.6	-1.1	0.4	2.00	2.00	0.00	159.17	
10,899.7	1.61	159.17	10,895.9	-253.9	96.6	0.00	0.00	0.00	0.00	
10,980.3	0.00	0.00	10,976.5	-255.0	97.0	2.00	-2.00	0.00	180.00	KOP(Ripple 32 Fed
11,526.8	65.56	0.00	11,411.3	25.0	97.0	12.00	12.00	0.00	0.00	FTP(Ripple 32 Fed
11,730.5	90.00	359.67	11,454.1	222.6	96.4	12.00	12.00	-0.16	-0.79	
13,386.0	90.00	359.67	11,454.0	1,878.0	87.0	0.00	0.00	0.00	0.00	Fed Perf 1(Ripple 32
18,480.1	90.00	359.63	11,454.0	6,972.0	56.0	0.00	0.00	0.00	-97.19	PBHL(Ripple 32 Fee



Database:	PEDM	Local Co-ordinate Reference:	Well #733H
Company:	Midland	TVD Reference:	kb = 25' @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#733H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1		

Planned Survey

Measu Dept (usft	th	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
1	100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
	200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
	300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
	400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
	500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
	600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
	800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
L L	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,0	0.00	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,1	100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,2	200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,2	280.6	1.61	159.17	1,280.6	-1.1	0.4	-1.1	2.00	2.00	0.00
1,3	300.0	1.61	159.17	1,300.0	-1.6	0.6	-1.6	0.00	0.00	0.00
	400.0	1.61	159.17	1,399.9	-4.2	1.6	-4.2	0.00	0.00	0.00
		1.61	159.17 159.17		-4.2 -6.8	1.6 2.6	-4.2 -6.8	0.00		0.00
	500.0		159.17 159.17	1,499.9	-6.8 -9.5	2.6 3.6	-6.8 -9.4	0.00	0.00	
	500.0	1.61 1.61	159.17 159.17	1,599.9		3.6 4.6		0.00	0.00	0.00
	700.0 300.0	1.61	159.17 159.17	1,699.8 1,799.8	-12.1 -14.7	4.6 5.6	-12.0 -14.7	0.00	0.00 0.00	0.00 0.00
				,						
1,9	900.0	1.61	159.17	1,899.7	-17.3	6.6	-17.3	0.00	0.00	0.00
2,0	0.00	1.61	159.17	1,999.7	-20.0	7.6	-19.9	0.00	0.00	0.00
2,1	100.0	1.61	159.17	2,099.7	-22.6	8.6	-22.5	0.00	0.00	0.00
2,2	200.0	1.61	159.17	2,199.6	-25.2	9.6	-25.2	0.00	0.00	0.00
2,3	300.0	1.61	159.17	2,299.6	-27.9	10.6	-27.8	0.00	0.00	0.00
24	400.0	1.61	159.17	2,399.5	-30.5	11.6	-30.4	0.00	0.00	0.00
	500.0	1.61	159.17	2,499.5	-33.1	12.6	-33.0	0.00	0.00	0.00
	500.0	1.61	159.17	2,599.5	-35.7	13.6	-35.6	0.00	0.00	0.00
	700.0	1.61	159.17	2,699.4	-38.4	14.6	-38.3	0.00	0.00	0.00
	300.0	1.61	159.17	2,799.4	-41.0	15.6	-40.9	0.00	0.00	0.00
	900.0	1.61	159.17	2,899.3	-43.6	16.6	-43.5	0.00	0.00	0.00
	0.00	1.61	159.17	2,999.3	-46.3	17.6	-46.1	0.00	0.00	0.00
	100.0	1.61	159.17	3,099.3	-48.9	18.6	-48.7	0.00	0.00	0.00
	200.0	1.61	159.17	3,199.2	-51.5	19.6	-51.4	0.00	0.00	0.00
3,3	300.0	1.61	159.17	3,299.2	-54.1	20.6	-54.0	0.00	0.00	0.00
3,4	400.0	1.61	159.17	3,399.2	-56.8	21.6	-56.6	0.00	0.00	0.00
3,5	500.0	1.61	159.17	3,499.1	-59.4	22.6	-59.2	0.00	0.00	0.00
	600.0	1.61	159.17	3,599.1	-62.0	23.6	-61.8	0.00	0.00	0.00
	700.0	1.61	159.17	3,699.0	-64.7	24.6	-64.5	0.00	0.00	0.00
	300.0	1.61	159.17	3,799.0	-67.3	25.6	-67.1	0.00	0.00	0.00
30	900.0	1.61	159.17	3,899.0	-69.9	26.6	-69.7	0.00	0.00	0.00
	0.000	1.61	159.17	3,998.9	-72.6	20.0	-72.3	0.00	0.00	0.00
	100.0	1.61	159.17	4,098.9	-75.2	28.6	-72.5	0.00	0.00	0.00
	200.0	1.61	159.17	4,198.8	-77.8	29.6	-77.6	0.00	0.00	0.00
	300.0	1.61	159.17	4,298.8	-80.4	30.6	-80.2	0.00	0.00	0.00
	400.0	1.61	159.17	4,398.8	-83.1	31.6	-82.8	0.00	0.00	0.00
	500.0	1.61	159.17	4,498.7	-85.7	32.6	-85.4	0.00	0.00	0.00
	500.0	1.61	159.17	4,598.7	-88.3	33.6	-88.1	0.00	0.00	0.00
	700.0	1.61	159.17	4,698.6	-91.0	34.6	-90.7	0.00	0.00	0.00
4,8	300.0	1.61	159.17	4,798.6	-93.6	35.6	-93.3	0.00	0.00	0.00
4,9	900.0	1.61	159.17	4,898.6	-96.2	36.6	-95.9	0.00	0.00	0.00
	0.000	1.61	159.17	4,998.5	-98.8	37.6	-98.5	0.00	0.00	0.00
	100.0	1.61	159.17	5,098.5	-101.5	38.6	-101.2	0.00	0.00	0.00
	200.0	1.61	159.17	5,198.4	-104.1	39.6	-103.8	0.00	0.00	0.00
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Database:	PEDM	Local Co-ordinate Reference:	Well #733H
Company:	Midland	TVD Reference:	kb = 25' @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#733H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
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)
			. ,			. ,	. ,	. ,	. ,
5,300.0	1.61	159.17	5,298.4	-106.7	40.6	-106.4	0.00	0.00	0.00
5,400.0	1.61	159.17	5,398.4	-109.4	41.6	-109.0	0.00	0.00	0.00
5,500.0	1.61	159.17	5,498.3	-112.0	42.6	-111.6	0.00	0.00	0.00
5,600.0	1.61	159.17	5,598.3	-114.6	43.6	-114.3	0.00	0.00	0.00
5,700.0	1.61	159.17	5,698.2	-117.2	44.6	-116.9	0.00	0.00	0.00
5,800.0	1.61	159.17	5,798.2	-119.9	45.6	-119.5	0.00	0.00	0.00
5,900.0	1.61	159.17	5,898.2	-122.5	46.6	-122.1	0.00	0.00	0.00
6,000.0	1.61	159.17	5,998.1	-125.1	47.6	-124.7	0.00	0.00	0.00
6,100.0	1.61	159.17	6,098.1	-127.8	48.6	-127.4	0.00	0.00	0.00
6,200.0	1.61	159.17	6,198.0	-130.4	49.6	-130.0	0.00	0.00	0.00
6,300.0	1.61	159.17	6,298.0	-133.0	50.6	-132.6	0.00	0.00	0.00
6,400.0	1.61	159.17	6,398.0	-135.6	51.6	-135.2	0.00	0.00	0.00
6,500.0	1.61	159.17	6,497.9	-138.3	52.6	-137.8	0.00	0.00	0.00
6,600.0	1.61	159.17	6,597.9	-140.9	53.6	-140.5	0.00	0.00	0.00
6,700.0	1.61	159.17	6,697.8	-143.5	54.6	-143.1	0.00	0.00	0.00
6,800.0	1.61	159.17	6,797.8	-146.2	55.6	-145.7	0.00	0.00	0.00
6,900.0	1.61	159.17	6,897.8	-148.8	56.6	-148.3	0.00	0.00	0.00
7,000.0	1.61	159.17	6,997.7	-140.0	57.6	-146.5	0.00	0.00	0.00
7,000.0	1.61	159.17	7,097.7	-154.0	58.6	-153.6	0.00	0.00	0.00
7,100.0	1.61	159.17	7,197.6	-156.7	59.6	-156.2	0.00	0.00	0.00
7,200.0	1.61	159.17	7,297.6	-159.3	60.6	-158.8	0.00	0.00	0.00
7,400.0	1.61 1.61	159.17 159.17	7,397.6 7,497.5	-161.9	61.6 62.6	-161.4	0.00 0.00	0.00	0.00 0.00
7,500.0	1.61	159.17	7,497.5	-164.6		-164.1	0.00	0.00	0.00
7,600.0		159.17	7,597.5	-167.2	63.6	-166.7	0.00	0.00	0.00
7,700.0 7,800.0	1.61 1.61	159.17	7,097.4	-169.8 -172.5	64.6 65.6	-169.3 -171.9	0.00	0.00 0.00	0.00
7,900.0	1.61	159.17	7,897.4	-175.1	66.6	-174.5	0.00	0.00	0.00
8,000.0	1.61	159.17	7,997.3	-177.7	67.6	-177.2	0.00	0.00	0.00
8,100.0	1.61	159.17	8,097.3	-180.3	68.6	-179.8	0.00	0.00	0.00
8,200.0	1.61	159.17	8,197.3	-183.0	69.6	-182.4	0.00	0.00	0.00
8,300.0	1.61	159.17	8,297.2	-185.6	70.6	-185.0	0.00	0.00	0.00
8,400.0	1.61	159.17	8,397.2	-188.2	71.6	-187.6	0.00	0.00	0.00
8,500.0	1.61	159.17	8,497.1	-190.9	72.6	-190.3	0.00	0.00	0.00
8,600.0	1.61	159.17	8,597.1	-193.5	73.6	-192.9	0.00	0.00	0.00
8,700.0	1.61	159.17	8,697.1	-196.1	74.6	-195.5	0.00	0.00	0.00
8,800.0	1.61	159.17	8,797.0	-198.7	75.6	-198.1	0.00	0.00	0.00
8,900.0	1.61	159.17	8,897.0	-201.4	76.6	-200.7	0.00	0.00	0.00
9,000.0	1.61	159.17	8,996.9	-204.0	77.6	-203.4	0.00	0.00	0.00
9,100.0	1.61	159.17	9,096.9	-206.6	78.6	-206.0	0.00	0.00	0.00
9,200.0	1.61	159.17	9,196.9	-209.3	79.6	-208.6	0.00	0.00	0.00
9,300.0	1.61	159.17	9,296.8	-211.9	80.6	-211.2	0.00	0.00	0.00
9,400.0	1.61	159.17	9,396.8	-214.5	81.6	-213.9	0.00	0.00	0.00
9,500.0	1.61	159.17	9,496.7	-217.1	82.6	-216.5	0.00	0.00	0.00
9,600.0	1.61	159.17	9,596.7	-219.8	83.6	-219.1	0.00	0.00	0.00
9,700.0	1.61	159.17	9,696.7	-222.4	84.6	-221.7	0.00	0.00	0.00
9,800.0	1.61	159.17	9,796.6	-225.0	85.6	-224.3	0.00	0.00	0.00
9,900.0	1.61	159.17	9,896.6	-227.7	86.6	-227.0	0.00	0.00	0.00
10,000.0	1.61	159.17	9,996.5	-230.3	87.6	-229.6	0.00	0.00	0.00
10,100.0	1.61	159.17	10,096.5	-232.9	88.6	-232.2	0.00	0.00	0.00
10,200.0	1.61	159.17	10,196.5	-235.5	89.6	-234.8	0.00	0.00	0.00
10,300.0	1.61	159.17	10,296.4	-238.2	90.6	-237.4	0.00	0.00	0.00
10,400.0	1.61	159.17	10,396.4	-240.8	91.6	-240.1	0.00	0.00	0.00
10,400.0	1.61	159.17	10,396.4	-240.8	91.6	-240.1	0.00	0.00	0.00
10,600.0	1.61	159.17	10,596.3	-246.1	93.6	-245.3	0.00	0.00	0.00

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COMPASS 5000.16 Build 100

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Plan #0.1

**Planning Report** 

Planned Survey

Wellbore:

Design:

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(Trousit)	Rate Rate 100usft) (°/100usf	Rate t) (°/100usft)
10,800.01.61159.1710,796.2 $-251.3$ 95.6 $-250.5$ 10,899.71.61159.1710,895.9 $-253.9$ 96.6 $-253.2$ 11,000.02.360.0010,976.5 $-255.9$ 97.0 $-254.2$ 11,005.05.380.0011,021.1 $-252.9$ 97.0 $-224.1$ 11,075.011.380.0011,045.9 $-249.9$ 97.0 $-224.1$ 11,105.011.380.0011,049.9 $-240.1$ 97.0 $-224.9$ 11,105.011.380.0011,119.0 $-233.3$ 97.0 $-222.4$ 11,105.020.360.0011,142.6 $-225.2$ 97.0 $-224.4$ 11,175.023.350.0011,142.6 $-293.7$ $-70.4$ $-204.6$ 11,252.029.350.0011,232.1 $-180.9$ 97.0 $-180.1$ 11,250.032.350.0011,222.8 $-166.9$ 97.0 $-166.2$ 11,30.034.350.0011,278.8 $-166.9$ 97.0 $-166.2$ 11,30.044.350.0011,327.8 $-101.0$ 97.0 $-110.2$ 11,30.044.350.0011,327.8 $-101.0$ 97.0 $-135.1$ 11,350.041.350.0011,374.0 $-42.1$ 97.0 $-41.3$ 11,450.056.350.0011,374.0 $-42.1$ 97.0 $-41.3$ 11,450.056.350.0011,374.0 $-42.1$ 97.0 $-41.3$ 11,450.066.34359.96	0.00	0.00 0.	.00 0.00
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11,000.02.360.0011,096.2-254.697.0-253.311,050.08.360.0011,045.9-249.997.0-244.111,075.011.360.0011,094.9-240.197.0-244.911,100.014.360.0011,194.9-240.197.0-239.311,125.017.360.0011,119.0-233.397.0-222.511,150.020.360.0011,142.6-225.297.0-215.111,250.026.350.0011,165.8-215.997.0-216.111,250.032.350.0011,272.8-166.997.0-180.111,250.032.350.0011,272.8-151.997.0-166.211,300.038.350.0011,327.8-161.997.0-151.211,350.044.350.0011,327.8-101.097.0-183.111,350.044.350.0011,327.8-101.097.0-41.311,475.053.350.0011,367.3-20.997.0-20.111,450.056.350.0011,387.3-20.997.0-20.111,500.062.340.0011,397.3-20.997.0-27.111,550.071.34359.9611,420.446.397.047.111,550.073.4359.8611,420.446.397.047.111,550.071.34359.9611,420.446.397.047.111,550.0 <td>0.00</td> <td></td> <td>.00 0.00</td>	0.00		.00 0.00
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11,050.08.360.0011,045.9 $-249.9$ 97.0 $-249.1$ 11,075.011.360.0011,094.9 $-240.1$ 97.0 $-239.3$ 11,125.017.360.0011,119.0 $-233.3$ 97.0 $-232.5$ 11,150.020.360.0011,142.6 $-225.2$ 97.0 $-224.4$ 11,175.023.350.0011,165.8 $-215.9$ 97.0 $-215.1$ 11,200.026.350.0011,210.6 $-193.7$ 97.0 $-160.1$ 11,225.029.350.0011,222.8 $-166.9$ 97.0 $-166.2$ 11,250.032.350.0011,222.8 $-166.9$ 97.0 $-166.2$ 11,300.038.350.0011,222.8 $-166.9$ 97.0 $-151.2$ 11,325.041.350.0011,327.8 $-101.0$ 97.0 $-118.1$ 11,375.047.350.0011,344.2 $-82.2$ 97.0 $-81.4$ 11,450.056.350.0011,374.0 $-42.1$ 97.0 $-16.7$ 11,450.066.350.0011,374.0 $-42.1$ 97.0 $-17.7$ 11,550.071.34359.9211,429.069.897.0 $70.6$ 11,650.080.34359.9611,420.446.397.0 $70.6$ 11,650.080.34359.9211,429.069.897.0 $70.6$ 11,650.080.34359.9211,429.069.897.0 $70.6$ 11,650.080.34359.9611,420.4	12.00		
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13,100.090.00359.6711,454.01,592.088.61,592.713,200.090.00359.6711,454.01,692.088.11,692.713,300.090.00359.6711,454.01,792.087.51,792.7	0.00	0.00 0.	.00 0.00
13,100.090.00359.6711,454.01,592.088.61,592.713,200.090.00359.6711,454.01,692.088.11,692.713,300.090.00359.6711,454.01,792.087.51,792.7	0.00	0.00 0.	.00 0.00
13,200.090.00359.6711,454.01,692.088.11,692.713,300.090.00359.6711,454.01,792.087.51,792.7	0.00		.00 0.00
13,300.0 90.00 359.67 11,454.0 1,792.0 87.5 1,792.7	0.00		.00 0.00
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13,386.0 90.00 359.67 11,454.0 1,878.0 87.0 1,878.6	0.00		.00 0.00
13,400.090.00359.6711,454.01,892.086.91,892.713,500.090.00359.6711,454.01,992.086.41,992.7	0.00 0.00		.00 0.00 .00 0.00

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Page 6

COMPASS 5000.16 Build 100



Database:	PEDM	Local Co-ordinate Reference:	Well #733H
Company:	Midland	TVD Reference:	kb = 25' @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 25' @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#733H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1		

Planned Survey

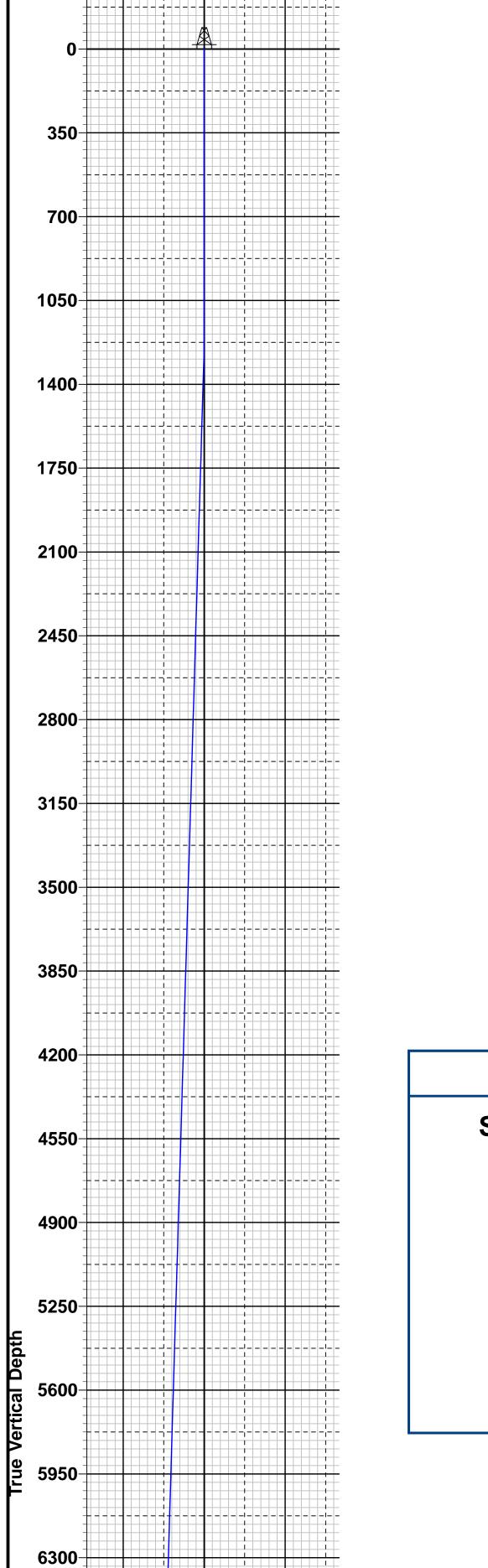
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,600.0	90.00	359.67	11,454.0	2,092.0	85.8	2,092.7	0.00	0.00	0.00
13,700.0	90.00	359.67	11,454.0	2,192.0	85.2	2,192.6	0.00	0.00	0.00
13,800.0	90.00	359.67	11,454.0	2,292.0	84.6	2,292.6	0.00	0.00	0.00
13,900.0	90.00	359.67	11,454.0	2,392.0	84.1	2,392.6	0.00	0.00	0.00
14,000.0	90.00	359.67	11,454.0	2,492.0	83.5	2,492.6	0.00	0.00	0.00
14,100.0	90.00	359.67	11,454.0	2,592.0	82.9	2,592.6	0.00	0.00	0.00
14,200.0	90.00	359.67	11,454.0	2,692.0	82.3	2,692.6	0.00	0.00	0.00
14,300.0	90.00	359.67	11,454.0	2,792.0	81.7	2,792.6	0.00	0.00	0.00
14,400.0	90.00	359.67	11.454.0	2,892.0	81.2	2,892.6	0.00	0.00	0.00
14,500.0	90.00	359.66	11,454.0	2,992.0	80.6	2,992.6	0.00	0.00	0.00
14,600.0	90.00	359.66	11,454.0	3,092.0	80.0	3,092.6	0.00	0.00	0.00
14,700.0	90.00	359.66	11,454.0	3,192.0	79.4	3,192.6	0.00	0.00	0.00
14,800.0	90.00	359.66	11,453.9	3,292.0	78.8	3,292.5	0.00	0.00	0.00
14,900.0	90.00	359.66	11,453.9	3,392.0	78.2	3,392.5	0.00	0.00	0.00
15,000.0	90.00	359.66	11,453.9	3,492.0	70.2	3,492.5	0.00	0.00	0.00
15,100.0	90.00	359.66	11,453.9	3,592.0	77.0	3,592.5	0.00	0.00	0.00
15,200.0	90.00	359.66	11,453.9	3,692.0	76.4	3,692.5	0.00	0.00	0.00
15,300.0	90.00	359.66	11,453.9	3,792.0	75.8	3,792.5	0.00	0.00	0.00
15,400.0	90.00	359.66	11,453.9	3,892.0	75.2	3,892.5	0.00	0.00	0.00
15,500.0	90.00	359.66	11,453.9	3,992.0	74.6	3,992.5	0.00	0.00	0.00
15,600.0	90.00	359.65	11,453.9	4,092.0	74.0	4,092.5	0.00	0.00	0.00
15,700.0	90.00	359.65	11,453.9	4,192.0	73.4	4,092.5	0.00	0.00	0.00
15,800.0	90.00	359.65	11,453.9	4,292.0	72.8	4,292.4	0.00	0.00	0.00
15,900.0	90.00	359.65	11,453.9	4,392.0	72.2	4,392.4	0.00	0.00	0.00
16,000.0 16,100.0	90.00 90.00	359.65 359.65	11,453.9 11,453.9	4,492.0 4,592.0	71.6 71.0	4,492.4 4,592.4	0.00 0.00	0.00 0.00	0.00 0.00
16,200.0	90.00	359.65	11,453.9	4,592.0	71.0	4,592.4	0.00	0.00	0.00
16,300.0	90.00	359.65	11,453.9	4,792.0	69.8	4,792.4	0.00	0.00	0.00
16,400.0	90.00	359.65	11,453.9	4,892.0	69.2	4,892.4	0.00	0.00	0.00
16,500.0 16,600.0	90.00	359.65 359.65	11,453.9 11,453.9	4,992.0 5,092.0	68.5	4,992.4 5,092.4	0.00 0.00	0.00 0.00	0.00 0.00
16,700.0	90.00 90.00	359.65 359.64	11,453.9	5,092.0 5,192.0	67.9 67.3	5,092.4 5,192.4	0.00	0.00	0.00
16,800.0	90.00	359.64	11,453.9	5,292.0	66.7	5,292.3	0.00	0.00	0.00
16,900.0	90.00	359.64	11,453.9	5,392.0	66.1	5,392.3	0.00	0.00	0.00
17,000.0	90.00	359.64	11,453.9	5,492.0	65.4	5,492.3	0.00	0.00	0.00
17,100.0 17,200.0	90.00 90.00	359.64 359.64	11,453.9 11,454.0	5,592.0 5,692.0	64.8	5,592.3 5,692.3	0.00 0.00	0.00 0.00	0.00 0.00
17,200.0	90.00 90.00	359.64 359.64	11,454.0 11,454.0	5,692.0 5,792.0	64.2 63.5	5,692.3 5,792.3	0.00	0.00	0.00
			,						
17,400.0	90.00	359.64	11,454.0	5,892.0	62.9	5,892.3	0.00	0.00	0.00
17,500.0	90.00	359.64	11,454.0	5,992.0	62.3	5,992.3	0.00	0.00	0.00
17,600.0	90.00	359.64	11,454.0 11,454.0	6,092.0	61.6	6,092.3	0.00	0.00	0.00 0.00
17,700.0 17,800.0	90.00 90.00	359.64 359.63	11,454.0 11,454.0	6,192.0 6,292.0	61.0 60.4	6,192.3 6,292.2	0.00 0.00	0.00 0.00	0.00
17,900.0	90.00	359.63	11,454.0	6,392.0	59.7	6,392.2	0.00	0.00	0.00
18,000.0	90.00	359.63	11,454.0	6,492.0	59.1	6,492.2	0.00	0.00	0.00
18,100.0	90.00	359.63	11,454.0	6,592.0	58.5	6,592.2	0.00	0.00	0.00
18,200.0 18,300.0	90.00 90.00	359.63 359.63	11,454.0 11,454.0	6,692.0 6,791.9	57.8 57.2	6,692.2 6,792.2	0.00 0.00	0.00 0.00	0.00 0.00
18,400.0	90.00	359.63	11,454.0	6,891.9	56.5	6,892.2	0.00	0.00	0.00
18,480.1	90.00	359.63	11,454.0	6,972.0	56.0	6,972.2	0.00	0.00	0.00



Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Eddy County, Ripple 32 Fed #733H OH Plan #0.1	nd County, NM (NAD 83 NME) e 32 Fed Com H			TVD Referen MD Referen North Refer	ce:	kb = 25' @ kb = 25' @ Grid	Well #733H kb = 25' @ 3129.0usft kb = 25' @ 3129.0usft 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(Ripple 32 Fed Con - plan hits target ce - Point		0.00	10,976.5	-255.0	97.0	364,252.00	705,385.00	32° 0' 1.098 N	103° 48' 14.865 W	
FTP(Ripple 32 Fed Con - plan hits target ce - Point		0.00	11,411.3	25.0	97.0	364,532.00	705,385.00	32° 0' 3.869 N	103° 48' 14.849 W	
Fed Perf 1(Ripple 32 Fe - plan hits target ce - Point		0.01	11,454.0	1,878.0	87.0	366,385.00	705,375.00	32° 0' 22.207 N	103° 48' 14.859 W	
PBHL(Ripple 32 Fed Co - plan hits target ce - Point		0.00	11,454.0	6,972.0	56.0	371,479.00	705,344.00	32° 1' 12.619 N	103° 48' 14.930 W	

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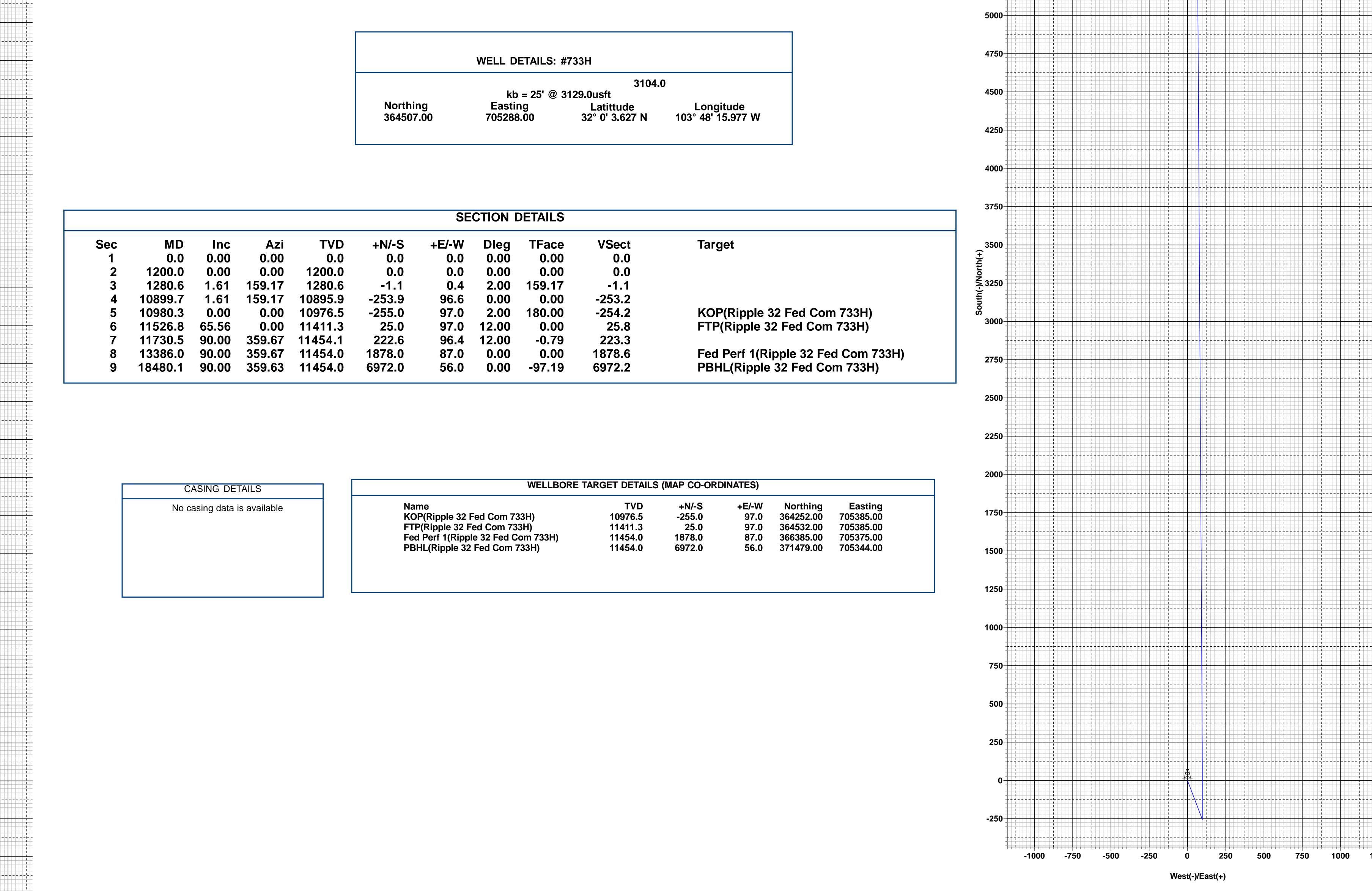
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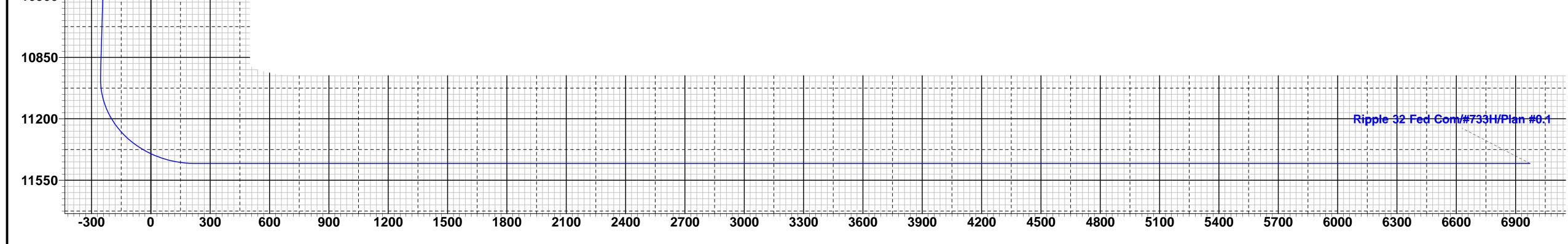
#### Eddy County, NM (NAD 83 NME) West(-)/East(+) 1250 250 1000 500 750 **Ripple 32 Fed Com** #733H 7000-- - -- - - 4 - - -Ripple 32 Fed Com/#733H/Plan - - - -- - - -Plan #0.1 6750-**Azimuths to Grid North** True North: -0.28° 6500-Magnetic North: 6.47° -++-------- - - -- - - - - - -+ + + - + ------ $\vdash \vdash \vdash + \vdash + \downarrow$ **Magnetic Field** Strength: 47437.3nT 6250 Dip Angle: 59.69° Date: 7/8/2020 Model: IGRF2020 PROJECT DETAILS: Eddy County, NM (NAD 83 NME) 6000-+ Geodetic System: US State Plane 1983 ⊥⊥⊥⊥. Datum: North American Datum 1983 5750 Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone To convert a Magnetic Direction to a Grid Direction, Add 6.47° To convert a Magnetic Direction to a True Direction, Add 6.75° East To convert a True Direction to a Grid Direction, Subtract 0.28° - - - -는 눈 눈 ? - - - -System Datum: Mean Sea Level +++ - 1 - + + - - -5500 ·→→→→→→ ----╺┝╸┝╸┝╸┝

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	kh - 25' @	3104. 2120 Queft	0
Northing	Easting	3129.0usft Latittude	Longitude 103° 48' 15.977 W
364507.00	705288.00	32° 0' 3.627 N	103° 48' 15.977 W

						SE	CTION I	DETAILS		
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Та
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1280.6	1.61	159.17	1280.6	-1.1	0.4	2.00	159.17	-1.1	
4	10899.7	1.61	159.17	10895.9	-253.9	96.6	0.00	0.00	-253.2	
5	10980.3	0.00	0.00	10976.5	-255.0	97.0	2.00	180.00	-254.2	K
6	11526.8	65.56	0.00	11411.3	25.0	97.0	12.00	0.00	25.8	FT
7	11730.5	90.00	359.67	11454.1	222.6	96.4	12.00	-0.79	223.3	
8	13386.0	90.00	359.67	11454.0	1878.0	87.0	0.00	0.00	1878.6	Fe
9	18480.1	90.00	359.63	11454.0	6972.0	56.0	0.00	-97.19	6972.2	PE





Eddy County, NM (NAD 83 NME) Ripple 32 Fed Com #733H ОН Plan #0.1 9:02, November 14 2022

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Vertical Section at 0.46°

## **Seog resources** 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

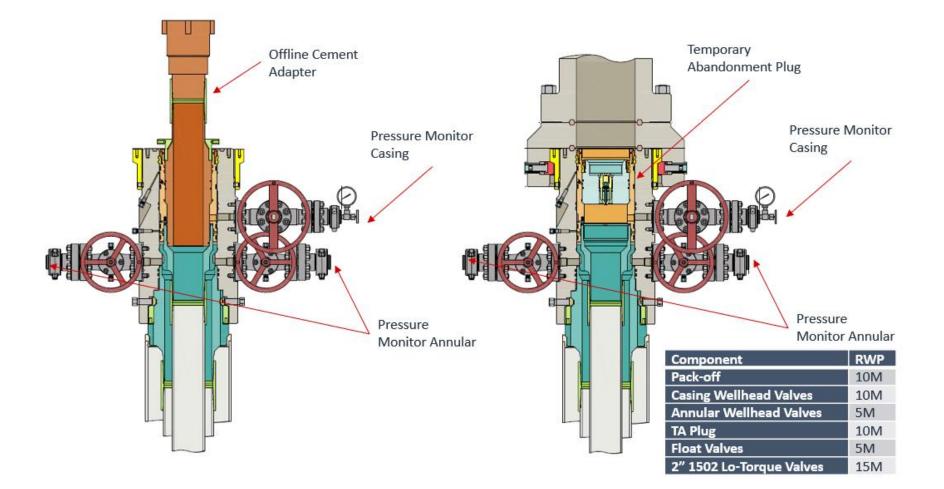


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**Offline Intermediate Cementing Procedure** 



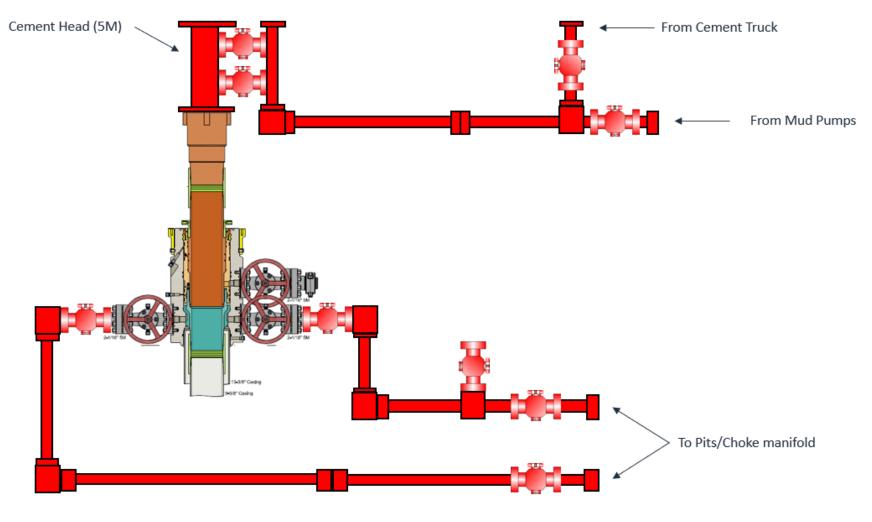


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## **Seog resources** Offline Intermediate Cementing Procedure





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

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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
P.O. Box 2267	Action Number:
Midland, TX 79702	175379
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
kpickford	NSP Will require administrative order for non-standard spacing unit	1/18/2023
kpickford	Adhere to previous NMOCD Conditions of Approval	1/18/2023

CONDITIONS

Action 175379