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Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR		Ex	FORM APPROVED OMB No. 1004-0137 pires: October 31, 2021		
	BUREAU OF LAND MANAGEMENT		5. Lease Serial No.	NMNM100558		
Do not use	DRY NOTICES AND REPORTS ON W this form for proposals to drill or to well. Use Form 3160-3 (APD) for suc	6. If Indian, Allottee	or Tribe Name			
SUB	MIT IN TRIPLICATE - Other instructions on pag	ie 2	7. If Unit of CA/Agr	7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well			8 Well Name and No			
✓ Oil Well	Gas Well Other			D. ROSEMARY 10 FED COM/702H		
	SOURCES INCORPORATED		9. API Well No. 30-0			
3a. Address 1111 BAGBY S	KY LOBBY 2, HOUSTON, TX 77(3b. Phone No. (713) 651-70	(include area code) 00	10. Field and Pool or PURPLE SAGE:	Exploratory Area WOLFCAMP (GAS)		
4. Location of Well (Footage, 2	Sec., T.,R.,M., or Survey Description)		11. Country or Parish			
SEC 10/T26S/R30E/NMP			EDDY/NM			
	12. CHECK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF NC	TICE, REPORT OR OT	HER DATA		
TYPE OF SUBMISSIO	N	TYPE OF A	ACTION			
✓ Notice of Intent		raulic Fracturing	roduction (Start/Resume) eclamation	Well Integrity		
Subsequent Report			ecomplete emporarily Abandon	✓ Other		
Final Abandonment Not			ater Disposal			
completed. Final Abandoni is ready for final inspection	ests an amendment to our approved APD for th	is, including reclamation, h				
,	n 722H (FKA 702H) API #: 30-015-47683 osemary 10 Fed Com 702H to Rosemary 10 Fed	d Com 722H.				
-	6-S, R-30-E, Sec 15, 230' FSL, 660' FEL, Eddy c 15, 230' FSL, 790' FEL, Eddy Co., N.M.	Co., NM,				
Change target formation	on to Wolfcamp U2.					
Continued on page 3 a	dditional information					
	egoing is true and correct. Name (<i>Printed/Typed</i>)	Regulatory Speci	alist			
STAR HARRELL / Ph: (432	2) 848-9161	Title				
Signature		Date	01/20/2	2023		
	THE SPACE FOR FED	ERAL OR STATE C	OFICE USE			
Approved by						
KEITH P IMMATTY / Ph: (575) 988-4722 / Approved	ENGINEER Title		02/12/2023 Date		
certify that the applicant holds	are attached. Approval of this notice does not warran legal or equitable title to those rights in the subject le nt to conduct operations thereon.		٨D			

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

Update casing and cement program to current design.

Add backup 10-3/4", 8-3/4", 6" casing design

Location of Well

0. SHL: NESE / 2540 FSL / 674 FEL / TWSP: 26S / RANGE: 30E / SECTION: 10 / LAT: 32.056677 / LONG: -103.862631 (TVD: 0 feet, MD: 0 feet) PPP: NESE / 2328 FSL / 660 FEL / TWSP: 26S / RANGE: 30E / SECTION: 10 / LAT: 32.056342 / LONG: -103.862586 (TVD: 10867 feet, MD: 10982 feet) BHL: SESE / 230 FSL / 660 FEL / TWSP: 26S / RANGE: 30E / SECTION: 15 / LAT: 32.035939 / LONG: -103.871327 (TVD: 10910 feet, MD: 18405 feet) DISTRICT I 1025 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. Firat 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: (505) 344-6178 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (305) 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

30-015-47	PI Number 7683		Pool CodePool Name98220Purple Sage; Wolfcamp (Gas)						
Property C 32979				ROS	Property Name SEMARY 10 FE	D COM		Well Number 722H	
OGRID N 7377	lo.		Operator Name EOG RESOURCES, INC.					Elevation 3157'	
					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
I	10	26 S	30 E		2450	SOUTH	674	EAST	EDDY
			Bott	om Hole I	Location If Diffe	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
Р	15	26 S	30 E		230	230 SOUTH 790 EAST EDDY			
Dedicated Acres	Joint or	Infill	Consolidated Co	le Orde	r No.				
960.00									

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

9 10 UPPER MOST PERF. NAD 1983 X = 687045' Y = 384552' LAT.= N 32.056512' NAD 1983 X = 687045' Y = 384617' LAT.= N 32.05652' LAT.= N 32.05652' NAD 1927 X = 645875' Y = 384617' LAT.= N 32.05652' LONG.= W 103.86205' Y = 382192' Star L Harrell Print Name X = 682512' Y = 382192' 15 NAD 1927 NAD 1927 X = 645859' Y = 382192' 14 X = 687853' Y = 382230' Star L Harrell Print Name X = 682512' Y = 382192' 15 NAD 1927 NAD 1927 X = 645859' Y = 382230' 14 X = 687853' Y = 382230' Star L Harrell Print Name LONG. = W 103.862527' Y = 382230' 330' SURVEYORS CERTIFICATION I hereby certify that the well location shown on this plat was	X = 682495' Y = 384852'	AZ = 223.30° 168.4' X = 685164' Y = 384870' 330' X = 687833' Y = 384887' SURFACE LOCATION NEW MEXICO EAST NAD 1983 X = 687161' Y = 384675' X = 687161' Y = 384675'	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 organization either outurs 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.
X = 682515' Y = 379536' LOCATION NAD 1983 X = 687057' Y = 377136' LAT. = N 32.036029° LAT. = N 32.036029° LAT. = N 32.036010° LONG. = W 103.863067' Y = 377136' LAT. = N 32.036104° LONG. = W 103.863067' Y = 377136' LAT. = N 32.036104° LONG. = W 103.86307' NAD 1927 X = 645871' Y = 37707' LAT. = N 32.035954° LAT. = N 32.04505° LAT. = N 32.04506° LAT. = N 32.04506° LAT	X = 682512' 1 6	LAT. = N 32.05667/° LONG. = W 103.862031° NEW MEXICO EAST NAD 1983 X = 687045' Y = 384552' LAT. = N 32.05652° LAT. = N 32.056217°	star_harrell@eogresources.com
Job No.: EOG.B190007	Y = 379536' BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1983 X = 687057' Y = 377136' LAT.= N 32.035954° LONG.= W 103.863071° NAD 1927 X = 645871' Y = 377078' LAT.= N 32.035829° LONG.= W 103.862594° X = 682519' 21	LONG. = W 103.862527° NAD 1983 X = 687057' Y = 377236' LONG. = W 103.863069° NAD 1927 X = 645871' Y = 377178' LONG. = W 103.863069° NAD 1927 X = 645871' Y = 379560' LAT. = N 32.036104° LONG. = W 103.862592° Z2 X = 685183' Z2 X = 685183' Z2 X = 685183' Z2 X = 687847' Y = 379508' LONG. = W 103.862592° Z2 X = 687847' Y = 379508' Z2 X = 687847' Y = 379508' Z2 Z X = 687847' Y = 379508' Z2 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	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. November 13, 2019 Date of Survey Signature and Scaler Professional Supervise Date of Survey Signature Supervise Date of Survey Signature Supervise Date of Survey Signature and Scaler Professional Supervise Date of Survey Signature Supervise Signature Supervise Date of Survey Signature Supervise Date of Survey Signature Supervise Supervise Date of Survey Signature Supervise

Seog resources

Rosemary 10 Fed Com 722H

Revised Permit Information 01/05/2023:

Well Name: Rosemary 10 Fed Com 722H

Location: SHL: 2450' FSL & 674' FEL, Section 10, T-26-S, R-30-E, Eddy Co., N.M. BHL: 230' FSL & 790' FEL, Section 15, T-26-S, R-30-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	1,230	0	1,230	9-5/8"	36#	J-55	LTC
8-3/4"	0	9,844	0	9,840	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	9,344	0	9,340	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	9,344	9,844	9,340	9,840	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	9,844	18,399	9,840	10,910	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		
1,230' 9-5/8''	340	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 @ 1,030')	
9,840' _{7-5/8''}	490	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 5,650')	
	1000	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag- M + 6% Bentonite Gel (TOC @ surface)	
18,399' 5-1/2''	790	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,340')	

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 (5,850') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 100 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

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

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

Measured Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 - 1,230'	Fresh - Gel	8.6-8.8	28-34	N/c
1,230' - 9,840'	Brine	10.0-10.2	28-34	N/c
9,840' - 10,436'	Oil Base	8.7-9.4	58-68	N/c - 6
10,436' – 18,399' Lateral	Oil Base	10.0-14.0	58-68	4 - 6

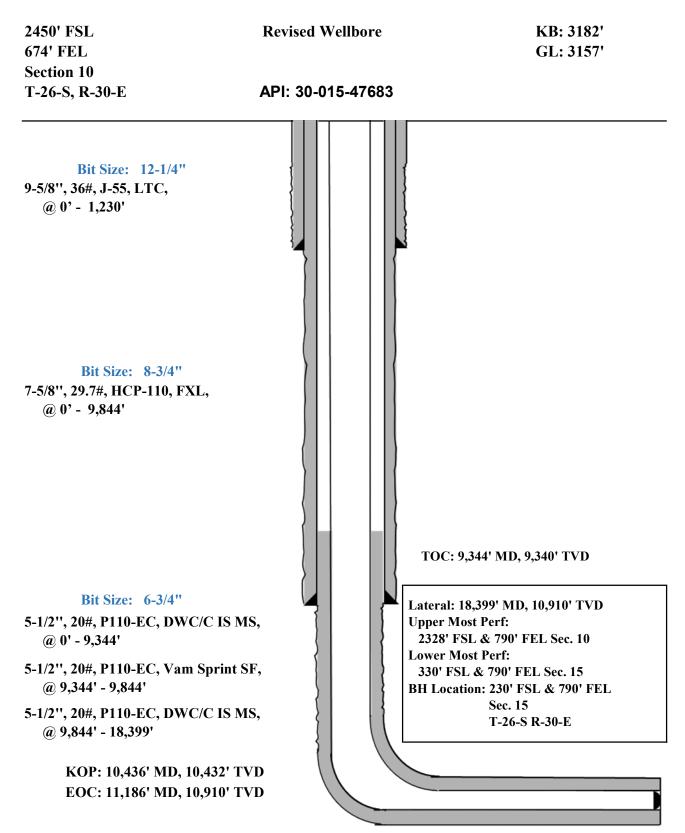
Mud	Program:
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Wellhead & Offline Cementing:

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	Interv	al MD	Interva	al TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	1,230	0	1,230	10-3/4"	40.5#	J-55	STC
9-7/8"	0	9,844	0	9,840	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	18,399	0	10,910	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.

		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	
1,230'	310	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
10-3/4"				cento-i lake (100 @ Sullace)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,030')
9,840' 8-3/4"	560	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 5,650')
	1100	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag- M + 6% Bentonite Gel (TOC @ surface)
18,399' _{6"}	1280	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,340')

<u>Cementing Program</u>:



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 (5,850') 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 102 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.
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- 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"



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Rosemary 10 Fed Com 722H

2450' FSL 674' FEL	Proposed Wellbore	KB: 3182' GL: 3157'
Section 10 T-26-S, R-30-E	API: 30-015-47683	
Bit Size: 13" 10-3/4", 40.5#, J-55, STC, @ 0' - 1,230'		
Bit Size: 9-7/8" 8-3/4" 38.5#, P110-EC, SLIJ II NA, @ 0' - 9,844'		
Bit Size: 7-7/8'' 6'', 22.3#, P110-EC, DWC/C IS, @ 0' - 18,399'		TOC: 9,344' MD, 9,340' TVD Lateral: 18,399' MD, 10,910' TVD Upper Most Perf: 2328' FSL & 790' FEL Sec. 10 Lower Most Perf: 330' FSL & 790' FEL Sec. 15 BH Location: 230' FSL & 790' FEL Sec. 15 T-26-S R-30-E
KOP: 10,436' MD, 10,4 EOC: 11,186' MD, 10,9		

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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2/24/2022

Seog resources

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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Seog resources

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

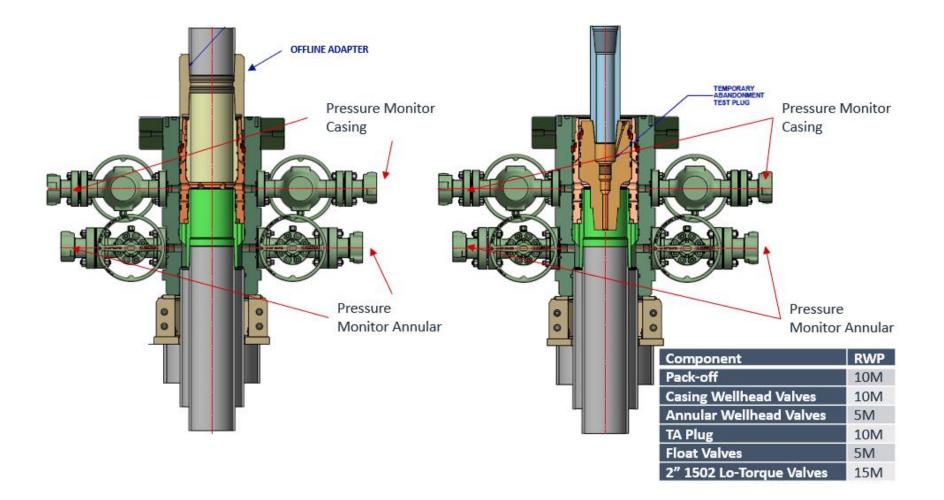
General Procedure After Cementing

- 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

Page | 4

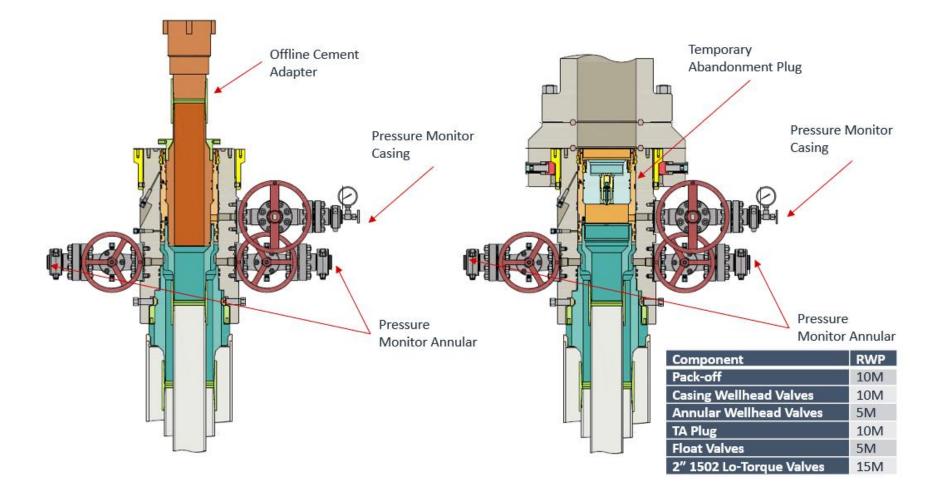
Seog resources Offline Intermediate Cementing Procedure

Figure 1: Cameron TA Plug and Offline Adapter Schematic



leog resources Offline Intermediate Cementing Procedure



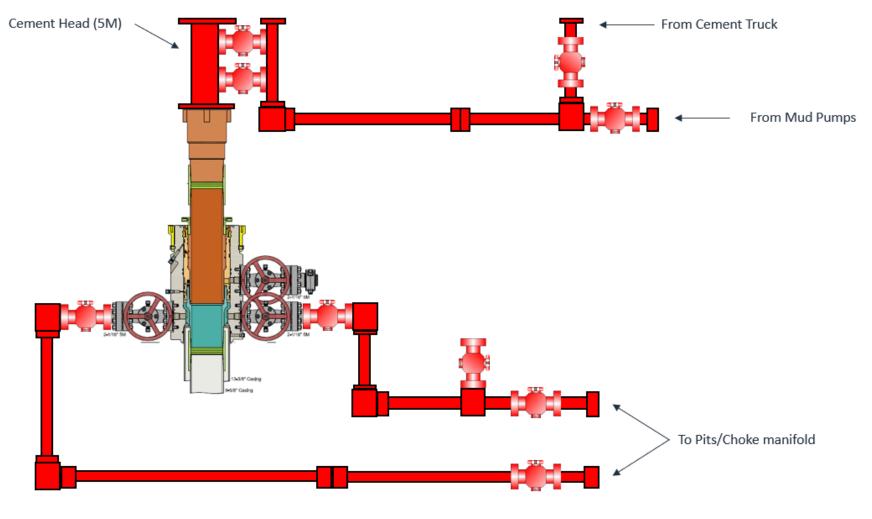


Page | 6

2/24/2022

Seog resources Offline Intermediate Cementing Procedure

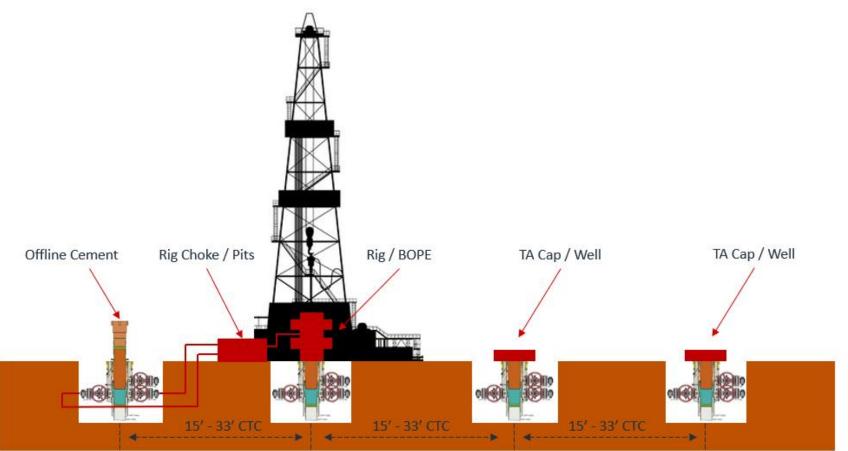




*** All Lines 10M rated working pressure

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Page | 8



Midland

Eddy County, NM (NAD 83 NME) Rosemary 10 Fed Com #722H

OH

Plan: Plan #0.2

Standard Planning Report

19 January, 2023



Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Eddy County Rosemary 10 #722H OH Plan #0.2	, NM (NAD 83 I) Fed Com	NME)	TVD Reference MD Reference North Referen	ə :	Well #722H KB = 25 @ 314 KB = 25 @ 314 Grid Minimum Curv	32.0usft
Project	Eddy County,	NM (NAD 83 N	ME)				
Map System: Geo Datum: Map Zone:	US State Plane North American New Mexico Ea	Datum 1983		System Datum	:	Mean Sea Level	
Site	Rosemary 10	Fed Com					
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	384,678 686,090 13-3	.00 usft Longitu		32° 3' 24.115 N 103° 51' 57.911 W
Well	#722H						
Well Position Position Uncertainty	+N/-S +E/-W	0.0 usft 0.0 usft 0.0 usft	Northing: Easting: Wellhead Elev	e	84,675.00 usft 87,161.00 usft usft	Latitude: Longitude: Ground Level:	32° 3' 24.039 N 103° 51' 45.466 W 3,157.0 usft
Grid Convergence:		0.25 °	Weiniedd Elev		don	Ground Leven.	0,101.0 401
Wellbore	ОН						
Magnetics	Model Na	me	Sample Date	Declinatior (°)	1	Dip Angle (°)	Field Strength (nT)
	IGF	RF2020	3/18/2020		6.81	59.74	47,495.69903443
Design	Plan #0.2						
Audit Notes: Version:			Phase:	PLAN	Tie On Dep	th:	0.0
Vertical Section:		(u	rom (TVD) Isft)	+N/-S (usft)	+E/-W (usft)		(°) (°)
		(0.0	0.0	0.0		180.79
Plan Survey Tool Pro Depth From	gram Depth To	Date 1/19/2	2023				
(usft)	•	Survey (Wellb	ore)	Tool Name	Rema	ırks	
1 0.0	18,399.1	Plan #0.2 (OH))	EOG MWD+IFR1			



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	KB = 25 @ 3182.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3182.0usft
Site:	Rosemary 10 Fed Com	North Reference:	Grid
Well:	#722H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

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	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,219.4	2.39	321.72	1,219.4	2.0	-1.5	2.00	2.00	0.00	321.72	
5,592.4	2.39	321.72	5,588.6	145.0	-114.5	0.00	0.00	0.00	0.00	
5,711.9	0.00	0.00	5,708.0	147.0	-116.0	2.00	-2.00	0.00	180.00	
10,436.4	0.00	0.00	10,432.5	147.0	-116.0	0.00	0.00	0.00	0.00	KOP(RM 10 FC #7
10,975.4	63.69	180.00	10,867.2	-123.0	-116.0	11.82	11.82	33.39	180.00	FTP(RM 10 FC #70
11,195.3	90.08	179.82	10,916.7	-335.3	-115.7	12.00	12.00	-0.08	-0.40	
15,970.1	90.08	179.82	10,910.0	-5,110.0	-101.0	0.00	0.00	0.00	0.00	Fed PP(RM 10 FC
18,399.1	89.92	180.32	10,910.0	-7,539.0	-104.0	0.02	-0.01	0.02	107.95	PBHL(RM 10 FC #

Released to Imaging: 2/13/2023 12:00:16 PM



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	KB = 25 @ 3182.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3182.0usft
Site:	Rosemary 10 Fed Com	North Reference:	Grid
Well:	#722H	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	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	2.00	321.72	1,200.0	1.4	-1.1	-1.4	2.00	2.00	0.00
1,219.4	2.39	321.72	1,219.4	2.0	-1.5	-1.9	2.00	2.00	0.00
1,300.0	2.39	321.72	1,299.9	4.6	-3.6	-4.5	0.00	0.00	0.00
1,400.0	2.39	321.72	1,399.8	7.9	-6.2	-7.8	0.00	0.00	0.00
1,500.0	2.39	321.72	1,499.7	11.1	-8.8	-11.0	0.00	0.00	0.00
1,600.0	2.39	321.72	1,599.6	14.4	-11.4	-14.2	0.00	0.00	0.00
1,700.0	2.39	321.72	1,699.5	17.7	-14.0	-17.5	0.00	0.00	0.00
1,800.0	2.39	321.72	1,799.5	21.0	-16.5	-20.7	0.00	0.00	0.00
1,900.0	2.39	321.72	1.899.4	24.2	-19.1	-24.0	0.00	0.00	0.00
· · · ·	2.39		,						
2,000.0		321.72	1,999.3	27.5	-21.7	-27.2	0.00	0.00	0.00
2,100.0	2.39	321.72	2,099.2	30.8	-24.3	-30.4	0.00	0.00	0.00
2,200.0	2.39	321.72	2,199.1	34.0	-26.9	-33.7	0.00	0.00	0.00
2,300.0	2.39	321.72	2,299.0	37.3	-29.4	-36.9	0.00	0.00	0.00
2,400.0	2.39	321.72	2,398.9	40.6	-32.0	-40.1	0.00	0.00	0.00
2,500.0	2.39	321.72	2,498.9	43.9	-34.6	-43.4	0.00	0.00	0.00
2,600.0	2.39	321.72	2,598.8	47.1	-37.2	-46.6	0.00	0.00	0.00
2,700.0	2.39	321.72	2,698.7	50.4	-39.8	-49.8	0.00	0.00	0.00
2,800.0	2.39	321.72	2,798.6	53.7	-42.4	-53.1	0.00	0.00	0.00
2,900.0	2.39	321.72	2,898.5	56.9	-44.9	-56.3	0.00	0.00	0.00
3,000.0	2.39	321.72	2,998.4	60.2	-47.5	-59.6	0.00	0.00	0.00
3,100.0	2.39	321.72	3,098.3	63.5	-50.1	-62.8	0.00	0.00	0.00
3,200.0	2.39	321.72	3,198.2	66.8	-52.7	-66.0	0.00	0.00	0.00
3,300.0	2.39	321.72	3,298.2	70.0	-55.3	-69.3	0.00	0.00	0.00
3,400.0	2.39	321.72	3,398.1	73.3	-57.8	-72.5	0.00	0.00	0.00
3,500.0	2.39	321.72	3,498.0	76.6	-60.4	-75.7	0.00	0.00	0.00
3,600.0	2.39	321.72	3,597.9	79.9	-63.0	-79.0	0.00	0.00	0.00
3,700.0	2.39	321.72	3,697.8	83.1	-65.6	-82.2	0.00	0.00	0.00
3,800.0	2.39	321.72	3,797.7	86.4	-68.2	-85.4	0.00	0.00	0.00
3,900.0	2.39	321.72	3,897.6	89.7	-70.8	-88.7	0.00	0.00	0.00
4,000.0	2.39	321.72	3,997.5	92.9	-73.3	-91.9	0.00	0.00	0.00
4,100.0	2.39	321.72	4,097.5	96.2	-75.9	-95.2	0.00	0.00	0.00
4,200.0	2.39	321.72	4,197.4	99.5	-78.5	-98.4	0.00	0.00	0.00
4,300.0	2.39	321.72	4,297.3	102.8	-81.1	-101.6	0.00	0.00	0.00
4,400.0	2.39	321.72	4,397.2	106.0	-83.7	-104.9	0.00	0.00	0.00
4,500.0	2.39	321.72	4,497.1	109.3	-86.3	-108.1	0.00	0.00	0.00
4,600.0	2.39	321.72	4,597.0	112.6	-88.8	-111.3	0.00	0.00	0.00
4,700.0	2.39	321.72	4,696.9	115.8	-91.4	-114.6	0.00	0.00	0.00
4,800.0	2.39	321.72	4,796.9	119.1	-94.0	-117.8	0.00	0.00	0.00
4,900.0	2.39	321.72	4,896.8	122.4	-96.6	-121.0	0.00	0.00	0.00
5,000.0	2.39	321.72	4,996.7	125.7	-99.2	-124.3	0.00	0.00	0.00
5,100.0	2.39	321.72	5,096.6	128.9	-101.7	-127.5	0.00	0.00	0.00
5,200.0	2.39	321.72	5,196.5	132.2	-104.3	-130.8	0.00	0.00	0.00
5,200.0	2.09	021.72	0,130.0	102.2	-103	-100.0	0.00	0.00	0.00

1/19/2023 10:51:49AM



Databasa	PEDM	Level On and in the Defension	Well #722H
Database:		Local Co-ordinate Reference:	
Company:	Midland	TVD Reference:	KB = 25 @ 3182.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3182.0usft
Site:	Rosemary 10 Fed Com	North Reference:	Grid
Well:	#722H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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	2.39	321.72	5,296.4	135.5	-106.9	-134.0	0.00	0.00	0.00
5,400.0	2.39	321.72	5,396.3	138.7	-109.5	-137.2	0.00	0.00	0.00
5,500.0	2.39	321.72	5,496.2	142.0	-112.1	-140.5	0.00	0.00	0.00
5,592.4	2.39	321.72	5,588.6	145.0	-114.5	-143.5	0.00	0.00	0.00
5,600.0	2.33	321.72	5,596.2	145.3	-114.6	-143.7	2.00	-2.00	0.00
5,700.0	0.24	321.72	5,696.1	147.0	-116.0	-145.4	2.00	-2.00	0.00
5,711.9	0.00	0.00	5,708.0	147.0	-116.0	-145.4	2.00	-2.00	0.00
5,800.0	0.00	0.00	5,796.1	147.0	-116.0	-145.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,896.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,996.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,096.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,196.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,296.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,396.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,496.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,596.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,696.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,796.1	147.0	-116.0	-145.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,896.1	147.0	-116.0	-145.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,996.1	147.0	-116.0	-145.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,096.1	147.0	-116.0	-145.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,196.1	147.0	-116.0	-145.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,296.1	147.0	-116.0	-145.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,396.1	147.0	-116.0	-145.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,390.1	147.0	-116.0	-145.4	0.00	0.00	0.00
									0.00
7,600.0	0.00	0.00	7,596.1	147.0	-116.0	-145.4	0.00	0.00	
7,700.0	0.00	0.00	7,696.1	147.0	-116.0	-145.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,796.1	147.0	-116.0	-145.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,896.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,996.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,096.1	147.0	-116.0	-145.4	0.00	0.00	0.00
0.000.0	0.00	0.00	0.400.4	4.47.0	110.0	445.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,196.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,296.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,396.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,496.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,596.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,696.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,796.1	147.0	-116.0	-145.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,896.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,996.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,000.0	0.00	0.00	9,096.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,196.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,296.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,396.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,496.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,596.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,696.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,796.1	147.0	-116.0	-145.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,896.1	147.0	-116.0	-145.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,996.1	147.0	-116.0	-145.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,096.1	147.0	-116.0	-145.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,196.1	147.0	-116.0	-145.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,190.1	147.0	-116.0	-145.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,296.1	147.0	-116.0	-145.4	0.00	0.00	0.00
	0.00	0.00	10.390.1	147.0	-110.0	-140.4	0.00	0.00	0.00

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COMPASS 5000.16 Build 100

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.			M II //7001
Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	KB = 25 @ 3182.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3182.0usft
Site:	Rosemary 10 Fed Com	North Reference:	Grid
Well:	#722H	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)
10,436.4	0.00	0.00	10,432.5	147.0	-116.0	-145.4	0.00	0.00	0.0
10,450.4	1.61	180.00	10,446.1	146.8	-116.0	-145.2	11.82	11.82	0.0
10,450.0	1.01	100.00	10,440.1	140.0	-110.0	-145.2	11.02	11.02	0.0
10,475.0	4.56	180.00	10,471.1	145.5	-116.0	-143.8	11.82	11.82	0.0
10,500.0	7.52	180.00	10,495.9	142.8	-116.0	-141.2	11.82	11.82	0.0
10,525.0	10.47	180.00	10,520.6	138.9	-116.0	-137.3	11.82	11.82	0.0
10,550.0	13.43	180.00	10,545.1	133.7	-116.0	-132.1	11.82	11.82	0.0
10,575.0	16.38	180.00	10,569.2	127.3	-116.0	-125.7	11.82	11.82	0.0
10,600.0	19.33	180.00	10,593.0	119.7	-116.0	-118.0	11.82	11.82	0.0
10,625.0	22.29	180.00	10,616.4	110.8	-116.0	-109.2	11.82	11.82	0.0
10,650.0	25.24	180.00	10,639.3	100.7	-116.0	-99.1	11.82	11.82	0.0
10,675.0	28.19	180.00	10,661.6	89.5	-116.0	-87.9	11.82	11.82	0.0
10,700.0	31.15	180.00	10,683.3	77.1	-116.0	-75.5	11.82	11.82	0.0
10 705 0		100.00	40 704 4	00.0		00.0			
10,725.0	34.10	180.00	10,704.4	63.6	-116.0	-62.0	11.82	11.82	0.0
10,750.0	37.06	180.00	10,724.7	49.1	-116.0	-47.5	11.82	11.82	0.0
10,775.0	40.01	180.00	10,744.3	33.5	-116.0	-31.9	11.82	11.82	0.0
10,800.0	42.96	180.00	10,763.0	16.9	-116.0	-15.3	11.82	11.82	0.0
10,825.0	45.92	180.00	10,780.8	-0.6	-116.0	2.2	11.82	11.82	0.0
10,850.0	48.87	180.00	10,797.8	-19.0	-116.0	20.6	11.82	11.82	0.0
10,850.0	40.07 51.82	180.00	10,797.8	-19.0 -38.2	-116.0	20.6 39.8	11.82	11.82	0.0
10,900.0	54.78	180.00	10,828.7	-58.3	-116.0	59.8	11.82	11.82	0.0
10,925.0	57.73	180.00	10,842.5	-79.0	-116.0	80.6	11.82	11.82	0.0
10,950.0	60.69	180.00	10,855.3	-100.5	-116.0	102.1	11.82	11.82	0.0
10,975.4	63.69	180.00	10.867.2	-123.0	-116.0	124.6	11.82	11.82	0.0
11,000.0	66.64	179.98	10,877.5	-145.3	-116.0	146.9	12.00	12.00	-0.0
11,025.0	69.64	179.96	10,886.8	-168.5	-116.0	170.1	12.00	12.00	-0.0
11,050.0	72.64	179.94	10,894.9	-192.2	-116.0	193.7	12.00	12.00	-0.0
11,030.0		179.94	10,894.9						
11,075.0	75.64	179.92	10,901.7	-216.2	-115.9	217.8	12.00	12.00	-0.0
11,100.0	78.64	179.90	10,907.3	-240.6	-115.9	242.1	12.00	12.00	-0.0
11,125.0	81.64	179.88	10,911.6	-265.2	-115.8	266.8	12.00	12.00	-0.0
11,150.0	84.64	179.86	10,914.6	-290.0	-115.8	291.6	12.00	12.00	-0.0
11,175.0	87.64	179.84	10,916.3	-315.0	-115.7	316.5	12.00	12.00	-0.0
11,195.3	90.08	179.82	10,916.7	-335.3	-115.7	336.9	12.00	12.00	-0.0
11,200.0	90.08	179.82	10,916.7	-340.0	-115.6	341.5	0.00	0.00	0.0
11,300.0	90.08	179.82	10,916.5	-440.0	-115.3	441.5	0.00	0.00	0.0
11,400.0	90.08	179.82	10,916.4	-539.9	-115.0	541.5	0.00	0.00	0.0
11,500.0	90.08	179.82	10,916.2	-639.9	-114.7	641.5	0.00	0.00	0.0
11,600.0	90.08	179.82	10,916.1	-739.9	-114.4	741.5	0.00	0.00	0.0
11 700 0	90.08	179.82	10,916.0	-839.9	111 1	841.4	0.00	0.00	0.0
11,700.0					-114.1				
11,800.0	90.08	179.82	10,915.8	-939.9	-113.8	941.4	0.00	0.00	0.0
11,900.0	90.08	179.82	10,915.7	-1,039.9	-113.5	1,041.4	0.00	0.00	0.0
12,000.0	90.08	179.82	10,915.5	-1,139.9	-113.2	1,141.4	0.00	0.00	0.0
12,100.0	90.08	179.82	10,915.4	-1,239.9	-112.9	1,241.4	0.00	0.00	0.0
12,200.0	90.08	179.82	10,915.3	-1,339.9	-112.6	1,341.4	0.00	0.00	0.0
12,300.0	90.08	179.82	10,915.1	-1,439.9	-112.3	1,441.4	0.00	0.00	0.0
12,300.0	90.08	179.82	10,915.0	-1,539.9	-112.3	1,441.4	0.00	0.00	0.0
12,500.0	90.08	179.82	10,914.8	-1,639.9	-111.7	1,641.3	0.00	0.00	0.0
12,600.0	90.08	179.82	10,914.7	-1,739.9	-111.3	1,741.3	0.00	0.00	0.0
12,700.0	90.08	179.82	10,914.6	-1,839.9	-111.0	1,841.3	0.00	0.00	0.0
12,800.0	90.08	179.82	10,914.4	-1,939.9	-110.7	1,941.3	0.00	0.00	0.0
12,900.0	90.08	179.82	10,914.3	-2,039.9	-110.4	2,041.3	0.00	0.00	0.0
13,000.0	90.08	179.82	10,914.1	-2,139.9	-110.4	2,041.3	0.00	0.00	0.0
13,100.0	90.08	179.82	10,914.1	-2,139.9	-109.8	2,141.3	0.00	0.00	0.0
	90.08							0.00	0.0
13,200.0	90.08	179.82	10,913.9	-2,339.9	-109.5	2,341.2	0.00	0.00	0.0
13,300.0	90.08	179.82	10,913.7	-2,439.9	-109.2	2.441.2	0.00	0.00	0.0

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COMPASS 5000.16 Build 100



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Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	KB = 25 @ 3182.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3182.0usft
Site:	Rosemary 10 Fed Com	North Reference:	Grid
Well:	#722H	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)
13,400.0	90.08	179.82	10,913.6	-2,539.9	-108.9	2,541.2	0.00	0.00	0.00
13,500.0	90.08	179.82	10,913.4	-2,639.9	-108.6	2,641.2	0.00	0.00	0.00
13,600.0	90.08	179.82	10,913.3	-2,739.9	-108.3	2,741.2	0.00	0.00	0.00
13,700.0	90.08	179.82	10,913.2	-2,839.9	-108.0	2,841.2	0.00	0.00	0.00
13,800.0	90.08	179.82	10,913.0	-2,939.9	-107.7	2,941.1	0.00	0.00	0.00
13,900.0	90.08	179.82	10,912.9	-3,039.9	-107.4	3,041.1	0.00	0.00	0.00
14,000.0	90.08	179.82	10,912.7	-3,139.9	-107.0	3,141.1	0.00	0.00	0.00
14,100.0	90.08	179.82	10,912.6	-3,239.9	-106.7	3,241.1	0.00	0.00	0.00
14,200.0	90.08	179.82	10,912.5	-3,339.9	-106.4	3,341.1	0.00	0.00	0.00
14,300.0	90.08	179.82	10,912.3	-3,439.9	-106.1	3,441.1	0.00	0.00	0.00
14,400.0	90.08	179.82	10,912.2	-3,539.9	-105.8	3,541.1	0.00	0.00	0.00
14,500.0	90.08	179.82	10,912.1	-3,639.9	-105.5	3,641.0	0.00	0.00	0.00
14,600.0	90.08	179.82	10,912.1	-3,739.9	-105.2	3,741.0	0.00	0.00	0.00
14,000.0	90.00	179.02	10,911.9		-105.2			0.00	
14,700.0	90.08	179.82	10,911.8	-3,839.9	-104.9	3,841.0	0.00	0.00	0.00
14,800.0	90.08	179.82	10,911.6	-3,939.9	-104.6	3,941.0	0.00	0.00	0.00
14,900.0	90.08	179.82	10,911.5	-4,039.9	-104.3	4,041.0	0.00	0.00	0.00
15,000.0	90.08	179.82	10,911.4	-4,139.9	-104.0	4,141.0	0.00	0.00	0.00
15,100.0	90.08	179.82	10,911.2	-4,239.9	-103.7	4,241.0	0.00	0.00	0.00
15 200 0	00.09	170.90	10 011 1	4 220 0	102.4	4 240 0	0.00	0.00	0.00
15,200.0	90.08	179.82	10,911.1	-4,339.9	-103.4	4,340.9	0.00	0.00	0.00
15,300.0	90.08	179.82	10,910.9	-4,439.9	-103.1	4,440.9	0.00	0.00	0.00
15,400.0	90.08	179.82	10,910.8	-4,539.9	-102.7	4,540.9	0.00	0.00	0.00
15,500.0	90.08	179.82	10,910.7	-4,639.9	-102.4	4,640.9	0.00	0.00	0.00
15,600.0	90.08	179.82	10,910.5	-4,739.9	-102.1	4,740.9	0.00	0.00	0.00
15,700.0	90.08	179.82	10,910.4	-4,839.9	-101.8	4,840.9	0.00	0.00	0.00
15,800.0	90.08	179.82	10,910.2	-4,939.9	-101.5	4,940.9	0.00	0.00	0.00
15,900.0	90.08	179.82	10,910.1	-5,039.9	-101.2	5,040.8	0.00	0.00	0.00
15,970.1	90.08	179.82	10,910.0	-5,110.0	-101.0	5,110.9	0.00	0.00	0.00
16,000.0	90.08	179.83	10,910.0	-5,139.9	-100.9	5,140.8	0.02	-0.01	0.02
16,100.0	90.07	179.85	10,909.8	-5,239.9	-100.6	5,240.8	0.02	-0.01	0.02
16,200.0	90.06	179.87	10,909.7	-5,339.9	-100.4	5,340.8	0.02	-0.01	0.02
16,300.0	90.06	179.89	10,909.6	-5,439.9	-100.2	5,440.8	0.02	-0.01	0.02
16,400.0	90.05	179.91	10,909.5	-5,539.9	-100.0	5,540.8	0.02	-0.01	0.02
16,500.0	90.05	179.93	10,909.4	-5,639.9	-99.9	5,640.8	0.02	-0.01	0.02
16,600.0	90.04	179.95	10,909.3	-5,739.9	-99.8	5,740.8	0.02	-0.01	0.02
16,700.0	90.03	179.97	10,909.3	-5,839.9	-99.7	5,840.7	0.02	-0.01	0.02
16,800.0	90.03	179.99	10,909.3	-5,939.9	-99.7	5,940.7	0.02	-0.01	0.02
16,900.0	90.03	180.01	10,909.2	-6,039.9	-99.7	6,040.7	0.02	-0.01	0.02
17,000.0	90.02	180.01	10,909.2	-6,139.9	-99.7 -99.7	6,140.7	0.02	-0.01	0.02
17,100.0	90.01	180.05	10,909.2	-6,239.9	-99.8	6,240.7	0.02	-0.01	0.02
17,200.0	90.00	180.07	10,909.2	-6,339.9	-99.9	6,340.7	0.02	-0.01	0.02
17,300.0	89.99	180.09	10,909.2	-6,439.9	-100.1	6,440.7	0.02	-0.01	0.02
17,400.0	89.99	180.11	10,909.2	-6,539.9	-100.2	6,540.7	0.02	-0.01	0.02
17,500.0	89.98	180.13	10,909.2	-6,639.9	-100.5	6,640.7	0.02	-0.01	0.02
17 600 0	00.07		10 000 2	6 720 0		6 740 7			
17,600.0	89.97	180.16	10,909.3	-6,739.9	-100.7	6,740.7	0.02	-0.01	0.02
17,700.0	89.97	180.18	10,909.3	-6,839.9	-101.0	6,840.7	0.02	-0.01	0.02
17,800.0	89.96	180.20	10,909.4	-6,939.9	-101.3	6,940.7	0.02	-0.01	0.02
17,900.0	89.95	180.22	10,909.4	-7,039.9	-101.7	7,040.7	0.02	-0.01	0.02
18,000.0	89.95	180.24	10,909.5	-7,139.9	-102.1	7,140.6	0.02	-0.01	0.02
18,100.0	89.94	180.26	10,909.6	-7,239.9	-102.5	7,240.6	0.02	-0.01	0.02
18,200.0	89.93	180.28	10,909.7	-7,339.9	-103.0	7,340.6	0.02	-0.01	0.02
18,300.0	89.93	180.30	10,909.9	-7,439.9	-103.5	7,440.6	0.02	-0.01	0.02
18,399.1	89.92	180.32	10,910.0	-7,539.0	-104.0	7,539.7	0.02	-0.01	0.02
. 5,000.1	00.0E		,	.,		.,	0.02	0.01	5.02

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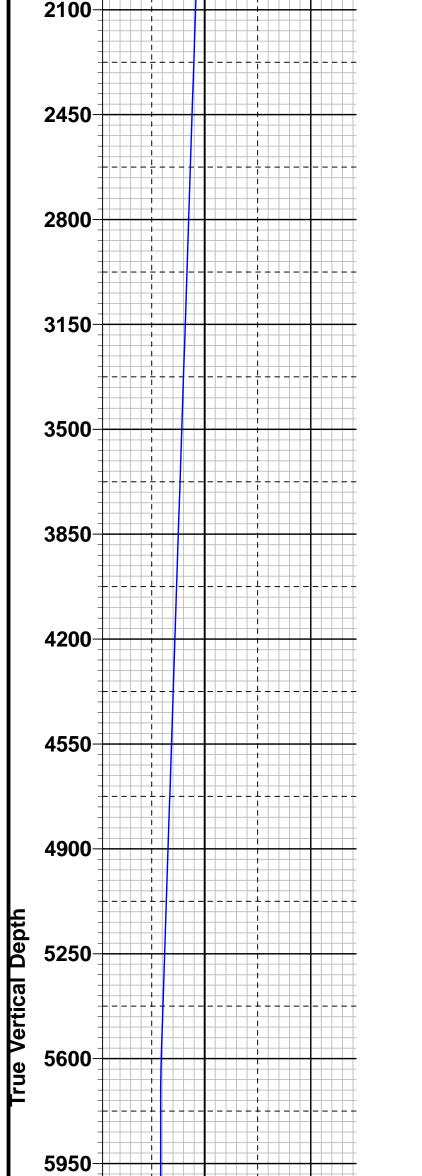


Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Eddy County, Rosemary 10 #722H OH Plan #0.2		3 NME)		TVD Refere MD Referen North Refer	ice:	KB = 25 @ KB = 25 @ Grid	Well #722H KB = 25 @ 3182.0usft KB = 25 @ 3182.0usft Grid Minimum Curvature			
Design Targets Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude		
KOP(RM 10 FC #702F - plan hits target ce - Point	,	0.00	10,432.5	147.0	-116.0	384,822.00	687,045.00	32° 3' 25.499 N	103° 51' 46.806 W		
FTP(RM 10 FC #702H - plan hits target ce - Point	,	0.00	10,867.2	-123.0	-116.0	384,552.00	687,045.00	32° 3' 22.827 N	103° 51' 46.820 W		
PBHL(RM 10 FC #702 - plan hits target ce - Point		0.00	10,910.0	-7,539.0	-104.0	377,136.00	687,057.00	32° 2' 9.437 N	103° 51' 47.056 W		
Fed PP(RM 10 FC #70 - plan hits target ce - Point		0.00	10,910.0	-5,110.0	-101.0	379,565.00	687,060.00	32° 2' 33.475 N	103° 51' 46.898 W		

leogresources

Eddy County, NM (NAD 83 NME) West(-)/East(+) 300 1200 -1200 300-**Rosemary 10 Fed Com** #722H Plan #0.2 **Azimuths to Grid North** True North: -0.25° -300-Magnetic North: 6.56° **Magnetic Field** Strength: 47495.7nT -600-Dip Angle: 59.74° Date: 3/18/2020 Model: IGRF2020 PROJECT DETAILS: Eddy County, NM (NAD 83 NME) -900-Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 -1200-Zone: New Mexico Eastern Zone System Datum: Mean Sea Level -1500-

To convert a Magnetic Direction to a Grid Direction, Add 6.56° To convert a Magnetic Direction to a True Direction, Add 6.81° East To convert a True Direction to a Grid Direction, Subtract 0.25°



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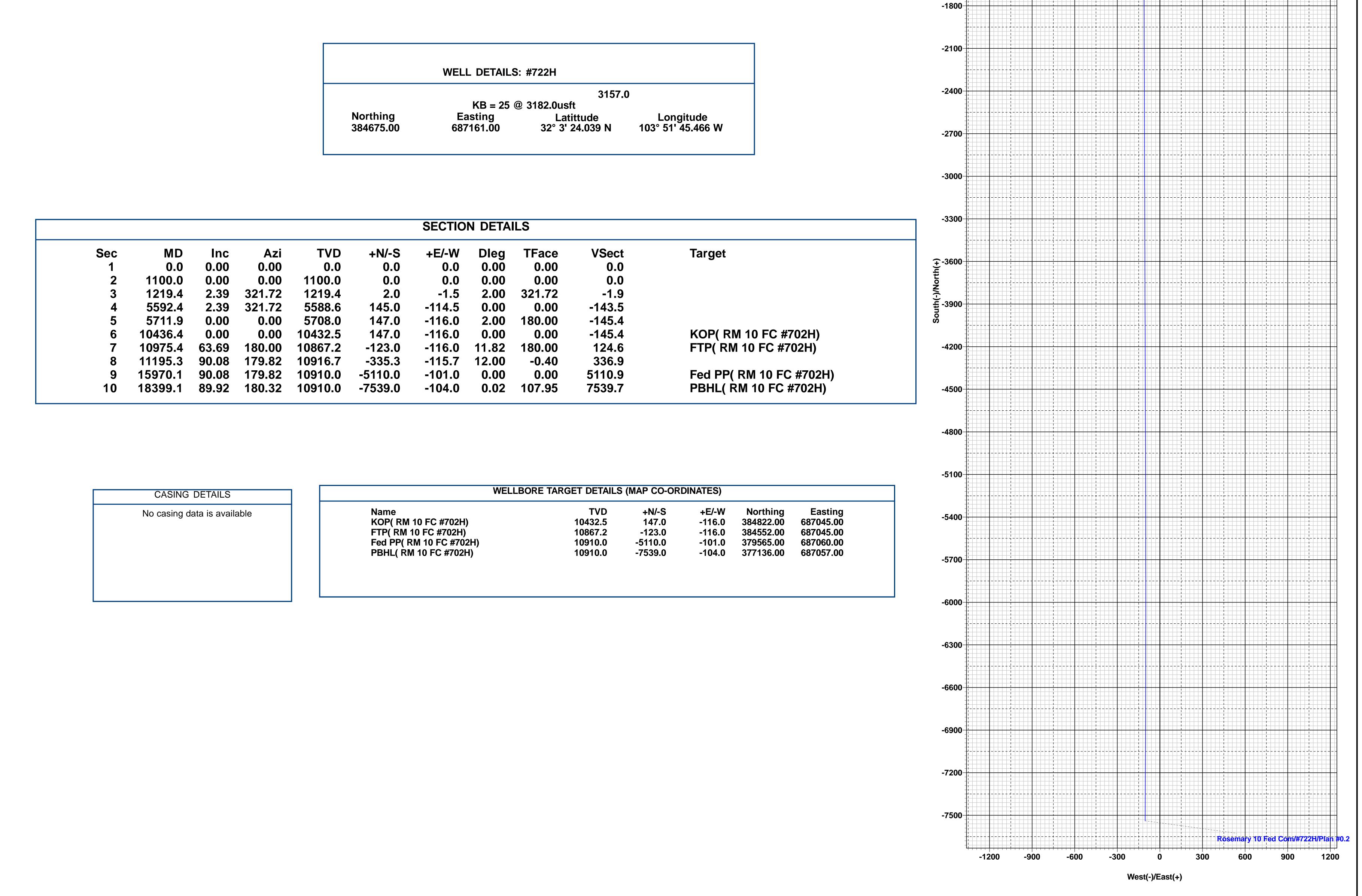
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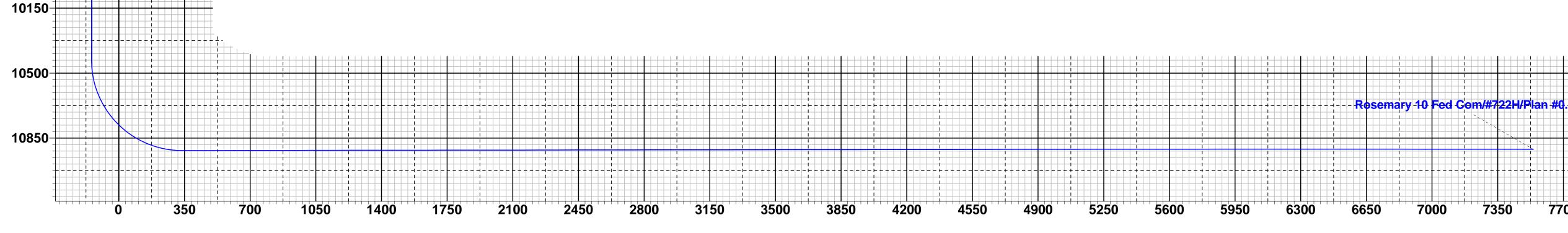
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			S: #722H	L DETAIL	WEL					
	3157.0 KB = 25 @ 3182.0usft									
	Longitude 103° 51' 45.466 W	t ittude 24.039 N	Lat	asting 7161.00		Northing 384675.00				
			LS	N DETA	SECTIO					
	Target	VSect	LS TFace	N DETA	SECTIO +E/-W	+N/-S	TVD	Azi	Inc	
	Target	VSect 0.0				+N/-S 0.0	TVD 0.0	Azi 0.00	Inc 0.00)
	Target		TFace	Dleg	+E/-W		0.0 1100.0		0.00 0.00	
	Target	0.0 0.0 -1.9	TFace 0.00 0.00 321.72	Dleg 0.00	+E/-W 0.0 0.0 -1.5	0.0 0.0 2.0	0.0 1100.0 1219.4	0.00	0.00 0.00 2.39)
	Target	0.0 0.0 -1.9 -143.5	TFace 0.00 0.00	Dleg 0.00 0.00	+E/-W 0.0 0.0 -1.5 -114.5	0.0 0.0 2.0 145.0	0.0 1100.0	0.00 0.00 321.72 321.72	0.00 0.00 2.39 2.39) - -
		0.0 0.0 -1.9 -143.5 -145.4	TFace 0.00 0.00 321.72	Dleg 0.00 0.00 2.00	+E/-W 0.0 0.0 -1.5	0.0 0.0 2.0 145.0 147.0	0.0 1100.0 1219.4	0.00 0.00 321.72	0.00 0.00 2.39) - -
0 FC #702H)	KOP(RM	0.0 0.0 -1.9 -143.5	TFace 0.00 0.00 321.72 0.00	Dleg 0.00 0.00 2.00 0.00	+E/-W 0.0 0.0 -1.5 -114.5	0.0 0.0 2.0 145.0	0.0 1100.0 1219.4 5588.6	0.00 0.00 321.72 321.72	0.00 0.00 2.39 2.39) 1 1 2
0 FC #702H) 0 FC #702H)	KOP(RM	0.0 0.0 -1.9 -143.5 -145.4	TFace 0.00 0.00 321.72 0.00 180.00	Dleg 0.00 0.00 2.00 0.00 2.00	+E/-W 0.0 0.0 -1.5 -114.5 -116.0	0.0 0.0 2.0 145.0 147.0	0.0 1100.0 1219.4 5588.6 5708.0	0.00 0.00 321.72 321.72 0.00	0.00 0.00 2.39 2.39 0.00) 1 1 3 1
	KOP(RM	0.0 0.0 -1.9 -143.5 -145.4 -145.4	TFace 0.00 0.00 321.72 0.00 180.00 0.00	Dleg 0.00 0.00 2.00 0.00 2.00 0.00	+E/-W 0.0 0.0 -1.5 -114.5 -116.0 -116.0	0.0 0.0 2.0 145.0 147.0 147.0	0.0 1100.0 1219.4 5588.6 5708.0 10432.5	0.00 0.00 321.72 321.72 0.00 0.00	0.00 0.00 2.39 2.39 0.00 0.00) 4 4 9 4
	KOP(RM FTP(RM 1	0.0 0.0 -1.9 -143.5 -145.4 -145.4 124.6	TFace 0.00 0.00 321.72 0.00 180.00 180.00 180.00	Dleg 0.00 0.00 2.00 0.00 2.00 0.00 11.82	+E/-W 0.0 -1.5 -114.5 -116.0 -116.0 -116.0	0.0 0.0 2.0 145.0 147.0 147.0 -123.0	0.0 1100.0 1219.4 5588.6 5708.0 10432.5 10867.2	0.00 0.00 321.72 321.72 0.00 0.00 180.00	0.00 0.00 2.39 2.39 0.00 0.00 63.69	D D D D D D D D D D D D D D D D D D D

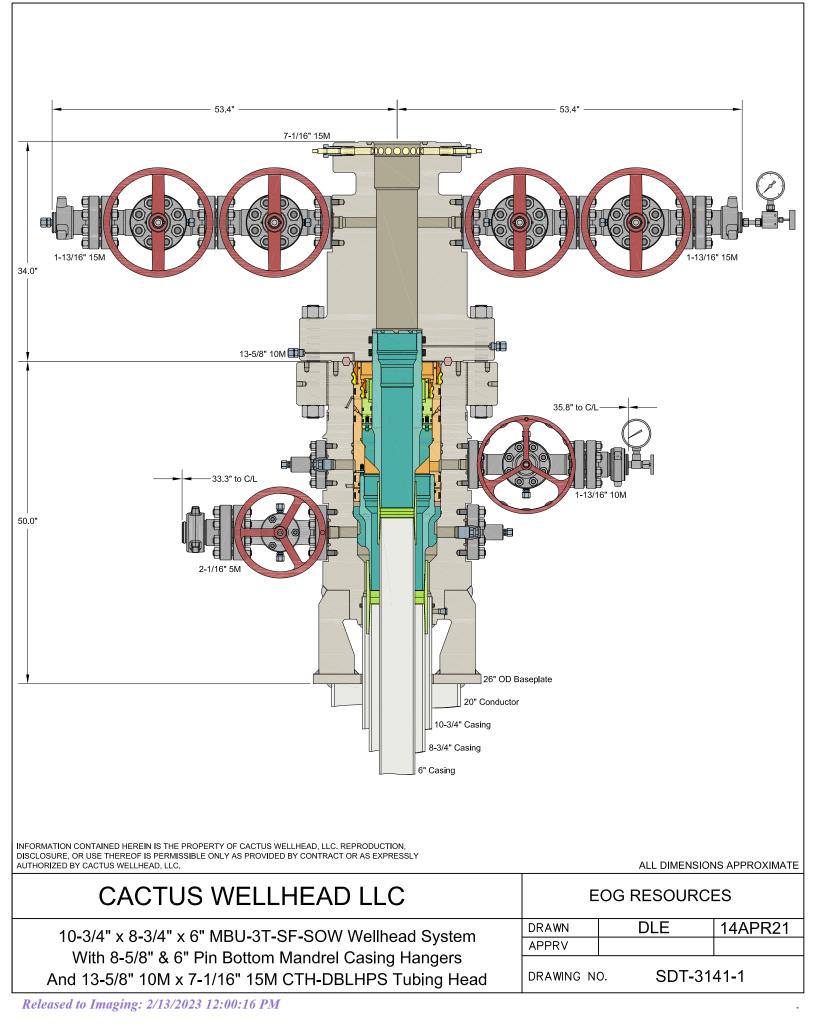


7700



Eddy County, NM (NAD 83 NME) Rosemary 10 Fed Com #722H OH Plan #0.2 10:50, January 19 2023

Vertical Section at 180.79°



District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	185346
	Action Type:
	[C-103] NOI Change of Plans (C-103A)
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CONDITIONS

CONDITION					
Created By		Condition Date			
kpickford	Adhere to previous NMOCD Conditions of Approval	2/13/2023			

CONDITIONS

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Action 185346