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Received by OCD: 5/15/	2023 2:01:07 PM				Page 1 of
Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INT BUREAU OF LAND MANAG			Ol Expi	ORM APPROVED MB No. 1004-0137 res: October 31, 2021
Do not us	IDRY NOTICES AND REPOR e this form for proposals to c I well. Use Form 3160-3 (APD	6. If Indian, Allottee or			
SU	BMIT IN TRIPLICATE - Other instruction	ons on page 2		7. If Unit of CA/Agree	ment, Name and/or No.
1. Type of Well Image: Oil Well	Gas Well Other			8. Well Name and No.	BANJO 5 FED COM/803H
2. Name of Operator EOG R	ESOURCES INCORPORATED			9. API Well No. 30-01	5-48204
	SKY LOBBY 2, HOUSTON, TX 77(3b.	Phone No. <i>(incl</i> 3) 651-7000	ude area code)	10. Field and Pool or E PURPLE SAGE; W	xploratory Area
4. Location of Well (Footage, SEC 5/T26S/R30E/NMP	Sec., T.,R.,M., or Survey Description)			11. Country or Parish, S EDDY/NM	State
	12. CHECK THE APPROPRIATE BOX(ES) TO INDICA	ATE NATURE OF NO	TICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSIO)N		TYPE OF A	CTION	
✓ Notice of Intent	Acidize	Deepen Dydraulic		oduction (Start/Resume) eclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans	New Con	Abandon Te	ecomplete emporarily Abandon	✓ Other
Final Abandonment N	otice Convert to Injection	Plug Back	K W	ater Disposal	
the Bond under which the completion of the involve completed. Final Abando is ready for final inspectio	directionally or recomplete horizontally, g work will be perfonned or provide the Bo d operations. If the operation results in a n ment Notices must be filed only after all r n.) BH (FKA 803H) API #: 30-015-48204	nd No. on file w nultiple complet	vith BLM/BIA. Requir tion or recompletion in	red subsequent reports mus a new interval, a Form 31	t be filed within 30 days following 60-4 must be filed once testing has been
EOG respectfully req the following changes	uests an amendment to our approved <i>i</i> :	APD for this we	ell to reflect		
Change name from B	anjo 5 Fed Com 803H to Banjo 5 Fed	Com 728H.			
-	26-S, R-30-E, Sec 8, 230' FSL, 2615' F ec 8, 230' FSL, 2530' FWL, Eddy Co., I	-	NM,		
Change target format	ion to Wolfcamp U2.				
Continued on page 3					
14. I hereby certify that the fo CRAIG RICHARDSON / F	regoing is true and correct. Name (Printed)		Regulatory Specia	alist	
	11. (452) 000-5000	Titl	le		
Signature		Dat	te	04/14/20	23
	THE SPACE F		AL OR STATE C	OFICE USE	
Approved by					
KEITH P IMMATTY / Ph:	(575) 988-4722 / Approved		ENGINEER Title	D	05/15/2023 ate
certify that the applicant holds	are attached. Approval of this notice does legal or equitable title to those rights in the ant to conduct operations thereon.		Office CARLSBA	.D	

t lease Office	CARLSBAD
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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

Additional Remarks

Update casing and cement program to current design.

Update HSU to 640 acres.

Location of Well

0. SHL: NWNE / 361 FNL / 2236 FEL / TWSP: 26S / RANGE: 30E / SECTION: 5 / LAT: 32.078077 / LONG: -103.902105 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 330 FNL / 2615 FEL / TWSP: 26S / RANGE: 30E / SECTION: 5 / LAT: 32.078158 / LONG: -103.903328 (TVD: 12042 feet, MD: 12182 feet) BHL: SWSE / 230 FSL / 2615 FEL / TWSP: 26S / RANGE: 30E / SECTION: 8 / LAT: 32.05048 / LONG: -103.903323 (TVD: 12085 feet, MD: 22257 feet) DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Farx; (575) 393-0720 DISTRICT II 811 S. First SL, Artesia, NM 88210 Phone: (575) 748-782 Farx; (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Farx; (505) 334-6179 DISTRICT IV 1220 S. S.L. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Farx; (505) 476-3462

Released

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Imaging:

10/18/2023 11:00:12 AM

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

eceived

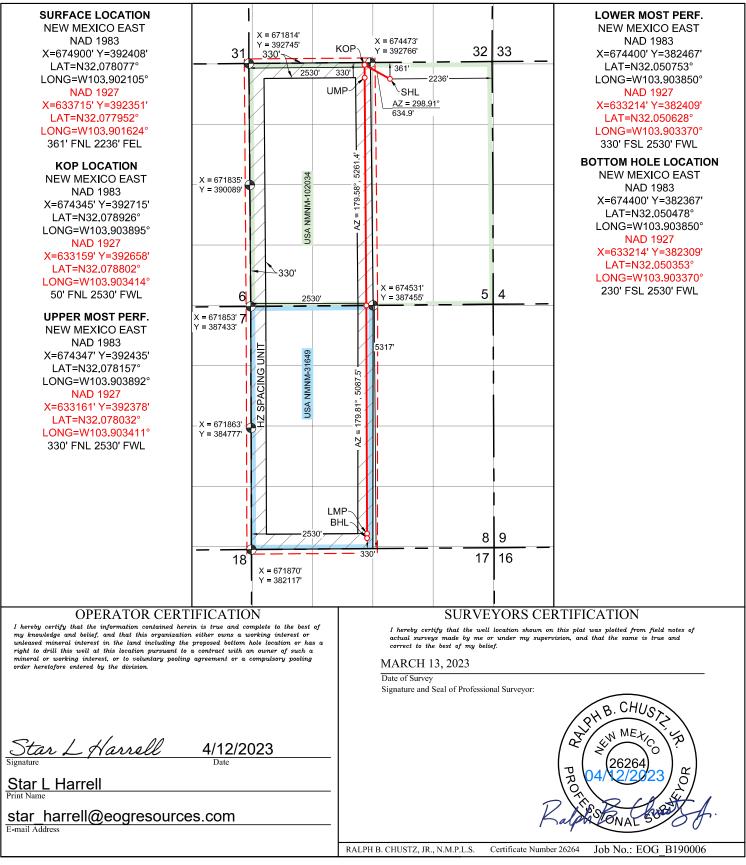
by

OCD: 5/15/2023 2:01:07 PM

□ AMENDED REPORT

	WELL LOCATION AND ACREAGE DEDICATION PLAT										
	API Number Pool Code Pool Name 30-015- 48204 98220 Purple Sage; Wolf							camp (Gas)	amp (Gas)		
Property C 32988		Property Name BANJO 5 FED COM								Well Number 728H	
ogrid n 7377				E	Oper EOG RESC	rator Name DURCE	S, INC.		Elevati 3160		
					Surfac	e Locati	ion				
UL or lot no.	Section	Township	Range	Lot Idn	Feet fro	om the	North/South line	Feet from the	East/West line	County	
В	5	26 S	30 E		36	61	NORTH	2236	EAST	EDDY	
•		•	Botte	om Hol	e Location	If Diffe	erent From Surfac	e			
UL or lot no.	Section	Township	Range	Lot Idn	Lot Idn Feet from the North/South line Feet from the East/West line County					County	
Ν	8	26 S	30 E		230 SOUTH 2530 WEST EDDY					EDDY	
Dedicated Acres	Joint or	Infill	Consolidated Coc	le C	Order No.						
640				PENDING COM AGREEMENT							

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.



Seog resources

Banjo 5 Fed Com 728H

Revised Permit Information 03/23/2023:

Well Name: Banjo 5 Fed Com 728H

Location: SHL: 361' FNL & 2236' FEL, Section 5, T-26-S, R-30-E, Eddy Co., N.M. BHL: 230' FSL & 2530' FWL, Section 8, T-26-S, R-30-E, Eddy Co., N.M.

Casing Program:

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	1,050	0	1,050	9-5/8"	36#	J-55	LTC
8-3/4"	0	9,671	0	9,620	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	9,171	0	9,120	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	9,171	9,671	9,120	9,620	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	9,671	21,332	9,620	11,140	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	Siurry Description
1,050'	300	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
9-5/8''				Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 850')
9,620'	500	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
7-5/8''				Microbond (TOC @ 5,390')
	1000	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
21,332'	1040	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
5-1/2''				(TOC @ 9,120')

Cementing Program:

S eog resources	5

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 (5,594') 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 – 1,050'	Fresh - Gel	8.6-8.8	28-34	N/c
1,050' - 9,620'	Brine	10.0-10.2	28-34	N/c
9,620' - 10,711'	Oil Base	8.7-9.4	58-68	N/c - 6
10,711' – 21,332' Lateral	Oil Base	10.0-14.0	58-68	4 - 6

Mud Program:

Seog resources

Banjo 5 Fed Com 728H

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"



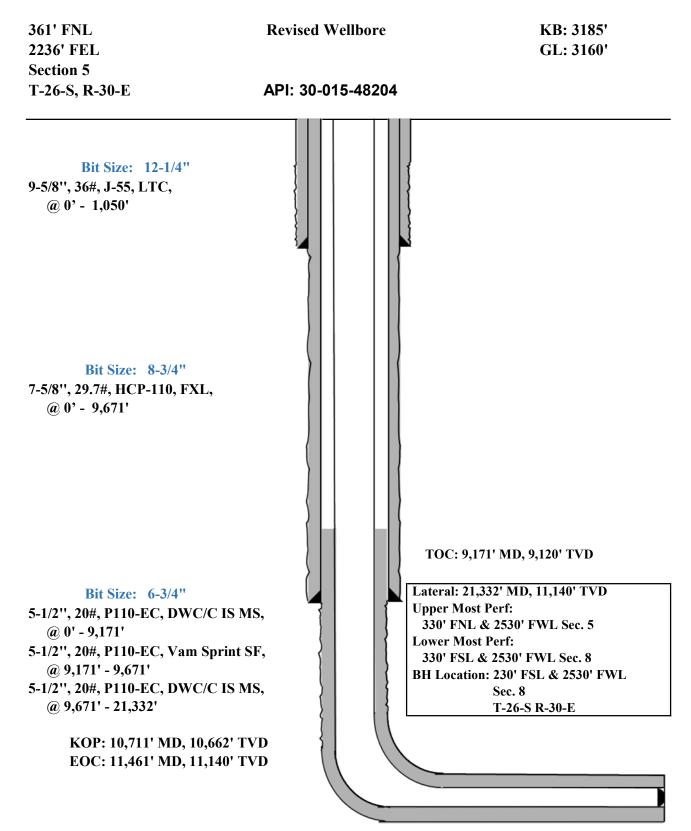
TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

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

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







Design B 4. CASING PROGRAM

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	1,050	0	1,050	10-3/4"	40.5#	J-55	STC
9-7/8"	0	9,671	0	9,620	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	21,332	0	11,140	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	Sturry Description
1,050'	280	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk
10-3/4"				Cello-Flake (TOC @ Surface)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%
				Sodium Metasilicate (TOC @ 850')
9,620'	560	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
8-3/4"				Microbond (TOC @ 5,390')
	1050	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
21,332'	1700	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
6"				(TOC @ 9,120')

<u>Cementing Program</u>:

Seog resources

Banjo 5 Fed Com 728H

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 (5,594') 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 53 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.

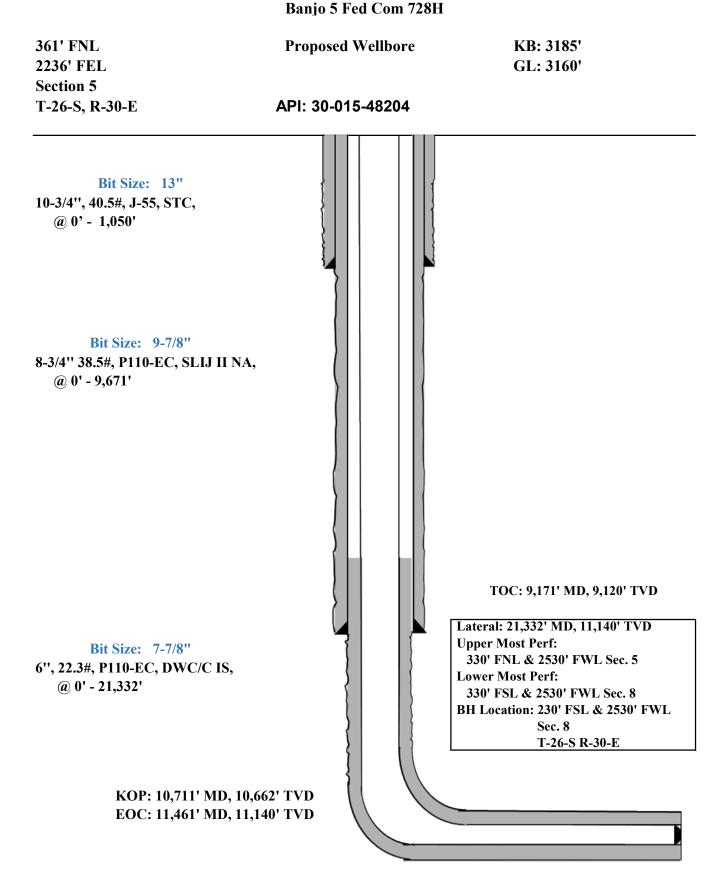
EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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"







Midland

Eddy County, NM (NAD 83 NME) Banjo 5 Fed Com #728H

OH

Plan: Plan #0.2

Standard Planning Report

13 April, 2023



1 0.0	21,332.0 F	Plan #0.2 (OH)		EOG MWD+IFR1 MWD + IFR1			
Plan Survey Tool Pro Depth From (usft)	Depth To	Date 4/13/2 Survey (Wellbo		Tool Name	Rema	rks	
		(0.0	0.0	0.0	182	2.85
Vertical Section:			rom (TVD) ısft)	+N/-S (usft)	+E/-W (usft)	(ction °)
Version:			Phase:	PLAN	Tie On Dep		0.0
Audit Notes:							
Design	Plan #0.2						
	IGR	F2020	7/1/2020		6.80	59.75	47,474.37075718
Magnetics	Model Nan	ne	Sample Date	Declination (°)		Dip Angle (°)	Field Strength (nT)
Wellbore	ОН						
Grid Convergence:		0.23 °	Honnoud Elo		uon		0,10010 401
Position Uncertainty	+E/-W	0.0 usft 0.0 usft	Easting: Wellhead Elev		l,900.00 usft usft	Longitude: Ground Level:	103° 54' 7.581 W 3,160.0_usft
Well Position	+N/-S	0.0 usft	Northing:		2,408.00 usft	Latitude:	32° 4' 41.072 N
Well	#728H						
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	392,301.00 676,477.00 13-3/10) usft Longitu		32° 4' 39.950 N 103° 53' 49.257 W
Site	Banjo 5 Fed Co	om		202.204.0			
•							
Geo Datum:	US State Plane North American I New Mexico Eas	Datum 1983		System Datum:		Mean Sea Level	
Project	Eddy County, N	NM (NAD 83 N	ME)				
Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Eddy County, Banjo 5 Fed C #728H OH Plan #0.2	•	NME)	Local Co-ordina TVD Reference: MD Reference: North Referenc Survey Calcula	9:	Well #728H kb @ 3185.0usft kb @ 3185.0usft Grid Minimum Curvatu	



Database:	PEDM	Local Co-ordinate Reference:	Well #728H
Company:	Midland	TVD Reference:	kb @ 3185.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3185.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#728H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Plan Sections

Target	TFO (°)	Turn Rate (°/100usft)	Build Rate (°/100usft)	Dogleg Rate (°/100usft)	+E/-W (usft)	+N/-S (usft)	Vertical Depth (usft)	Azimuth (°)	Inclination (°)	Measured Depth (usft)
I	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1	0.00	0.00	0.00	0.00	0.0	0.0	1,200.0	0.00	0.00	1,200.0
i	298.95	0.00	2.00	2.00	-31.9	17.7	1,655.8	298.95	9.16	1,657.8
1	0.00	0.00	0.00	0.00	-523.1	289.3	5,138.2	298.95	9.16	5,185.0
1	180.00	0.00	-2.00	2.00	-555.0	307.0	5,594.0	0.00	0.00	5,642.8
KOP(Banjo 5 Fed C	0.00	0.00	0.00	0.00	-555.0	307.0	10,662.5	0.00	0.00	10,711.3
FTP(Banjo 5 Fed Co	179.59	32.87	12.00	12.00	-553.0	27.0	11,097.2	179.59	65.57	11,257.7
i	0.26	0.05	12.00	12.00	-551.8	-170.4	11,139.9	179.70	90.00	11,461.3
LTP(Banjo 5 Fed Co	0.00	0.00	0.00	0.00	-500.0	-9,941.0	11,140.0	179.70	90.00	21,232.0
B PBHL(Banjo 5 Fed	89.93	0.61	0.00	0.61	-500.0	-10,041.0	11,140.0	180.30	90.00	21,332.0

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Database:	PEDM	Local Co-ordinate Reference:	Well #728H
Company:	Midland	TVD Reference:	kb @ 3185.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3185.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#728H	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)
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	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	298.95	1,300.0	0.8	-1.5	-0.8	2.00	2.00	0.00
1,400.0	4.00	298.95	1,399.8	3.4	-6.1	-3.1	2.00	2.00	0.00
1,500.0	6.00	298.95	1,499.5	7.6	-13.7	-6.9	2.00	2.00	0.00
1,600.0	8.00	298.95	1,598.7	13.5	-24.4	-12.3	2.00	2.00	0.00
1,657.8	9.16	298.95	1,655.8	17.7	-31.9	-16.1	2.00	2.00	0.00
1,700.0	9.16	298.95	1,697.5	20.9	-37.8	-19.0	0.00	0.00	0.00
1,800.0	9.16	298.95	1,796.2	28.6	-51.7	-26.0	0.00	0.00	0.00
1,900.0	9.16	298.95	1,895.0	36.3	-65.7	-33.0	0.00	0.00	0.00
2,000.0	9.16	298.95	1,993.7	44.0	-79.6	-40.0	0.00	0.00	0.00
2,100.0	9.16	298.95	2,092.4	51.7	-93.5	-47.0	0.00	0.00	0.00
2,200.0	9.16	298.95	2,191.1	59.4	-107.4	-54.0	0.00	0.00	0.00
2,300.0	9.16	298.95	2,289.9	67.1	-121.4	-61.0	0.00	0.00	0.00
2,400.0	9.16	298.95	2,388.6	74.8	-135.3	-68.0	0.00	0.00	0.00
2,500.0	9.16	298.95	2,487.3	82.5	-149.2	-75.0	0.00	0.00	0.00
2,600.0	9.16	298.95	2,586.0	90.2	-163.1	-82.0	0.00	0.00	0.00
2,700.0	9.16	298.95	2,684.8	97.9	-177.1	-89.0	0.00	0.00	0.00
2,800.0	9.16	298.95	2,783.5	105.6	-191.0	-96.0	0.00	0.00	0.00
2,900.0	9.16	298.95	2,882.2	113.3	-204.9	-103.0	0.00	0.00	0.00
3,000.0	9.16	298.95	2,981.0	121.0	-218.8	-110.0	0.00	0.00	0.00
3,100.0	9.16	298.95	3,079.7	128.7	-232.7	-117.0	0.00	0.00	0.00
3,200.0	9.16	298.95	3,178.4	136.4	-246.7	-124.0	0.00	0.00	0.00
3,300.0	9.16	298.95	3,277.1	144.1	-260.6	-131.0	0.00	0.00	0.00
3,400.0	9.16	298.95	3,375.9	151.9	-274.5	-138.0	0.00	0.00	0.00
3,500.0	9.16	298.95	3,474.6	159.6	-288.4	-145.0	0.00	0.00	0.00
3,600.0	9.16	298.95	3,573.3	167.3	-302.4	-152.0	0.00	0.00	0.00
3,700.0	9.16	298.95	3,672.0	175.0	-316.3	-159.0	0.00	0.00	0.00
3,800.0	9.16	298.95	3,770.8	182.7	-330.2	-166.0	0.00	0.00	0.00
3,900.0	9.16	298.95	3,869.5	190.4	-344.1	-173.0	0.00	0.00	0.00
4,000.0	9.16	298.95	3,968.2	198.1	-358.1	-180.0	0.00	0.00	0.00
4,100.0	9.16	298.95	4,066.9	205.8	-372.0	-187.0	0.00	0.00	0.00
4,200.0	9.16	298.95	4,165.7	213.5	-385.9	-194.0	0.00	0.00	0.00
4,300.0	9.16	298.95	4,264.4	221.2	-399.8	-201.0	0.00	0.00	0.00
4,400.0	9.16	298.95	4,363.1	228.9	-413.8	-208.0	0.00	0.00	0.00
4,500.0	9.16	298.95	4,461.8	236.6	-427.7	-215.0	0.00	0.00	0.00
4,600.0	9.16	298.95	4,560.6	244.3	-441.6	-222.0	0.00	0.00	0.00
4,700.0	9.16	298.95	4,659.3	252.0	-455.5	-229.0	0.00	0.00	0.00
4,800.0	9.16	298.95	4,758.0	259.7	-469.4	-236.0	0.00	0.00	0.00
4,900.0	9.16	298.95	4,856.7	267.4	-483.4	-243.0	0.00	0.00	0.00
5,000.0	9.16	298.95	4,955.5	275.1	-497.3	-250.0	0.00	0.00	0.00
5,100.0	9.16	298.95	5,054.2	282.8	-511.2	-257.0	0.00	0.00	0.00
5,185.0	9.16	298.95	5,138.2	289.3	-523.1	-263.0	0.00	0.00	0.00
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COMPASS 5000.16 Build 100



Database:	PEDM	Local Co-ordinate Reference:	Well #728H
Company:	Midland	TVD Reference:	kb @ 3185.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3185.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#728H	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)
5,200.0	8.86	298.95	5,152.9	290.5	-525.1	-264.0	2.00	-2.00	0.00
5,300.0	6.86	298.95	5,252.0	297.1	-537.1	-270.0	2.00	-2.00	0.00
5,400.0	4.86	298.95	5,351.5	302.0	-546.0	-274.5	2.00	-2.00	0.00
5,500.0	2.86	298.95	5,451.2	305.3	-551.9	-277.5	2.00	-2.00	0.00
5,600.0	0.86	298.95	5,551.2	306.8	-554.7	-278.9	2.00	-2.00	0.00
5,642.8	0.00	0.00	5,594.0	307.0	-555.0	-279.0	2.00	-2.00	0.00
5,700.0	0.00	0.00	5,651.2	307.0	-555.0	-279.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,751.2	307.0	-555.0	-279.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,851.2	307.0	-555.0	-279.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,951.2	307.0	-555.0	-279.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,051.2	307.0	-555.0	-279.0	0.00	0.00	0.00
6 200 0	0.00	0.00	6,151.2	307.0	-555.0	-279.0	0.00	0.00	0.00
6,200.0 6 300 0	0.00	0.00	6,151.2 6,251.2	307.0 307.0	-555.0 -555.0	-279.0 -279.0	0.00	0.00	0.00
6,300.0 6,400.0									
6,400.0 6,500.0	0.00 0.00	0.00	6,351.2	307.0 307.0	-555.0 -555.0	-279.0 -279.0	0.00 0.00	0.00 0.00	0.00 0.00
6,500.0 6,600.0	0.00	0.00	6,451.2 6 551 2	307.0 307.0	-555.0 -555.0	-279.0 -279.0	0.00		
6,600.0		0.00	6,551.2					0.00	0.00
6,700.0	0.00	0.00	6,651.2	307.0	-555.0	-279.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,751.2	307.0	-555.0	-279.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,851.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,951.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,051.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,151.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,251.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,351.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,451.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,551.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,651.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,751.2	307.0	-555.0	-279.0	0.00	0.00	0.00
7,900.0	0.00 0.00	0.00	7,851.2 7,951.2	307.0 307.0	-555.0 -555.0	-279.0 -279.0	0.00 0.00	0.00 0.00	0.00 0.00
8,000.0 8,100.0	0.00	0.00 0.00	8,051.2	307.0	-555.0 -555.0	-279.0	0.00	0.00	0.00
0,100.0									
8,200.0	0.00	0.00	8,151.2	307.0	-555.0	-279.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,251.2	307.0	-555.0	-279.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,351.2	307.0	-555.0	-279.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,451.2	307.0	-555.0	-279.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,551.2	307.0	-555.0	-279.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,651.2	307.0	-555.0	-279.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,751.2	307.0	-555.0	-279.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,851.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,951.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,051.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,151.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,251.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,351.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,500.0	0.00 0.00	0.00	9,451.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,600.0		0.00	9,551.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,651.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,751.2	307.0	-555.0	-279.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,851.2	307.0	-555.0	-279.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,951.2	307.0	-555.0	-279.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,051.2	307.0	-555.0	-279.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,151.2	307.0	-555.0	-279.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,151.2	307.0	-555.0	-279.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,351.2	307.0	-555.0	-279.0	0.00	0.00	0.00

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COMPASS 5000.16 Build 100



Database:	PEDM	Local Co-ordinate Reference:	Well #728H
Company:	Midland	TVD Reference:	kb @ 3185.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3185.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#728H	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)
10,500.0	0.00	0.00	10,451.2	307.0	-555.0	-279.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,551.2	307.0	-555.0	-279.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,651.2	307.0	-555.0	-279.0	0.00	0.00	0.00
10,711.3	0.00	0.00	10,662.5	307.0	-555.0	-279.0	0.00	0.00	0.00
10,725.0	1.64	179.59	10,676.2	306.8	-555.0	-278.8	12.00	12.00	0.00
10,750.0	4.64	179.59	10,701.1	305.4	-555.0	-277.5	12.00	12.00	0.00
10,775.0	7.64	179.59	10,726.0	302.8	-555.0	-274.8	12.00	12.00	0.00
10,800.0	10.64	179.59	10,750.7	298.8	-554.9	-270.8	12.00	12.00	0.00
10,825.0	13.64	179.59	10,775.1	293.5	-554.9	-265.6	12.00	12.00	0.00
10,850.0	16.64	179.59	10,799.2	287.0	-554.9	-259.1	12.00	12.00	0.00
10,875.0	19.64	179.59	10,823.0	279.2	-554.8	-251.3	12.00	12.00	0.00
10,900.0	22.64	179.59	10,846.3	270.2	-554.7	-242.3	12.00	12.00	0.00
10,900.0	22.04	179.59	10,040.5		-334.7	-242.5	12.00		
10,925.0	25.64	179.59	10,869.1	260.0	-554.7	-232.1	12.00	12.00	0.00
10,950.0	28.64	179.59	10,891.4	248.6	-554.6	-220.7	12.00	12.00	0.00
10,975.0	31.64	179.59	10,913.0	236.0	-554.5	-208.2	12.00	12.00	0.00
11,000.0	34.64	179.59	10,933.9	222.4	-554.4	-194.5	12.00	12.00	0.00
11,025.0	37.64	179.59	10,954.1	207.6	-554.3	-179.8	12.00	12.00	0.00
11,050.0	40.64	179.59	10,973.5	191.8	-554.2	-164.0	12.00	12.00	0.00
11,075.0	43.64	179.59	10,992.0	175.1	-554.1	-147.3	12.00	12.00	0.00
11,100.0	46.64	179.59	11,009.6	157.3	-553.9	-129.6	12.00	12.00	0.00
11,125.0	49.64	179.59	11,026.3	138.7	-553.8	-111.0	12.00	12.00	0.00
11,150.0	52.64	179.59	11,042.0	119.3	-553.7	-91.6	12.00	12.00	0.00
11.175.0	55.64	179.59	11,056.6	99.0	-553.5	-71.4	12.00	12.00	0.00
11,200.0	58.64	179.59	11,070.2	78.0	-553.4	-50.4	12.00	12.00	0.00
11,225.0	61.64	179.59	11,082.6	56.3	-553.2	-28.7	12.00	12.00	0.00
11,250.0	64.64	179.59	11,093.9	34.0	-553.1	-6.5	12.00	12.00	0.00
11,257.7	65.57	179.59	11,097.2	27.0	-553.0	-0.5	12.00	12.00	0.00
	05.57	179.59					12.00		
11,275.0	67.64	179.60	11,104.0	11.2	-552.9	16.3	12.00	12.00	0.06
11,300.0	70.64	179.61	11,112.9	-12.2	-552.7	39.7	12.00	12.00	0.06
11,325.0	73.64	179.63	11,120.6	-36.0	-552.6	63.4	12.00	12.00	0.05
11,350.0	76.64	179.64	11,127.0	-60.1	-552.4	87.5	12.00	12.00	0.05
11,375.0	79.64	179.65	11,132.2	-84.6	-552.3	112.0	12.00	12.00	0.05
11,400.0	82.64	179.67	11,136.0	-109.3	-552.1	136.6	12.00	12.00	0.05
11,425.0	85.64	179.68	11,138.6	-134.2	-552.0	161.5	12.00	12.00	0.05
11,450.0	88.64	179.69	11,139.8	-159.1	-551.8	186.4	12.00	12.00	0.05
11,461.3	90.00	179.70	11,139.9	-170.4	-551.8	197.7	12.00	12.00	0.05
11,500.0	90.00	179.70	11,139.9	-209.1	-551.6	236.3	0.00	0.00	0.00
11,600.0	90.00	179.70	11,139.9	-309.1	-551.0	336.2	0.00	0.00	0.00
11,700.0	90.00	179.70	11,139.9	-409.1	-550.5	436.0	0.00	0.00	0.00
11,800.0	90.00	179.70	11,139.9	-509.1	-550.0	535.9	0.00	0.00	0.00
11,900.0	90.00	179.70	11,139.9	-609.1	-549.5	635.7	0.00	0.00	0.00
12,000.0	90.00	179.70	11,139.9	-709.1	-548.9	735.6	0.00	0.00	0.00
12,100.0	90.00	179.70	11,139.9	-809.1	-548.4	835.4	0.00	0.00	0.00
12,200.0	90.00	179.70	11,139.9	-909.1	-547.9	935.3	0.00	0.00	0.00
12,300.0	90.00	179.70	11,139.9	-1,009.1	-547.3	1,035.1	0.00	0.00	0.00
12,400.0	90.00	179.70	11,139.9	-1,109.1	-546.8	1,135.0	0.00	0.00	0.00
12,500.0	90.00	179.70	11,139.9	-1,209.1	-546.3	1,234.8	0.00	0.00	0.00
12,600.0	90.00	179.70	11,139.9	-1,309.1	-545.7	1,334.6	0.00	0.00	0.00
12,700.0	90.00	179.70	11,139.9	-1,409.1	-545.2	1,434.5	0.00	0.00	0.00
12,800.0	90.00	179.70	11,139.9	-1,509.1	-544.7	1,534.3	0.00	0.00	0.00
12,900.0	90.00	179.70	11,139.9	-1,609.1	-544.2	1,634.2	0.00	0.00	0.00
13,000.0	90.00	179.70	11,139.9	-1,709.1	-543.6	1,734.0	0.00	0.00	0.00
13,100.0	90.00	179.70	11,139.9	-1,809.1	-543.1	1,833.9	0.00	0.00	0.00
13,200.0	90.00	179.70	11,139.9	-1,909.1	-542.6	1,933.7	0.00	0.00	0.00

4/13/2023 3:05:11PM

Page 6

COMPASS 5000.16 Build 100



Data	ibase:	PEDM	Local Co-ordinate Reference:	Well #728H
Com	ipany:	Midland	TVD Reference:	kb @ 3185.0usft
Proje	ect:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3185.0usft
Site:	:	Banjo 5 Fed Com	North Reference:	Grid
Well	:	#728H	Survey Calculation Method:	Minimum Curvature
Well	bore:	OH		
Desi	ign:	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)
13,300.0	90.00	179.70	11,139.9	-2,009.1	-542.0	2,033.6	0.00	0.00	0.00
13,400.0	90.00	179.70	11,139.9	-2,109.1	-541.5	2,133.4	0.00	0.00	0.00
13,500.0	90.00	179.70	11,139.9	-2,209.1	-541.0	2,233.3	0.00	0.00	0.00
13,600.0	90.00	179.70	11,139.9	-2,309.1	-540.4	2,333.1	0.00	0.00	0.00
13,700.0	90.00	179.70	11,139.9	-2,409.1	-539.9	2,433.0	0.00	0.00	0.00
13,800.0	90.00	179.70	11,139.9	-2,509.1	-539.4	2,532.8	0.00	0.00	0.00
13,900.0	90.00	179.70	11,140.0	-2,609.1	-538.9	2,632.7	0.00	0.00	0.00
14,000.0	90.00	179.70	11,140.0	-2,709.1	-538.3	2,732.5	0.00	0.00	0.00
14,100.0	90.00	179.70	11,140.0	-2,809.1	-537.8	2,832.4	0.00	0.00	0.00
14,200.0	90.00	179.70	11,140.0	-2,909.1	-537.3	2,932.2	0.00	0.00	0.00
14,300.0	90.00	179.70	11,140.0	-3,009.1	-536.7	3,032.1	0.00	0.00	0.00
14,400.0	90.00	179.70	11,140.0	-3,109.1	-536.2	3,131.9	0.00	0.00	0.00
14,500.0	90.00	179.70	11,140.0	-3,209.1	-535.7	3,231.8	0.00	0.00	0.00
14,600.0	90.00	179.70	11,140.0	-3,309.1	-535.1	3,331.6	0.00	0.00	0.00
14,700.0	90.00	179.70	11,140.0	-3,409.1	-534.6	3,431.5	0.00	0.00	0.00
14,800.0	90.00	179.70	11,140.0	-3,509.1	-534.1	3,531.3	0.00	0.00	0.00
14,900.0	90.00	179.70	11,140.0	-3,609.1	-533.6	3,631.2	0.00	0.00	0.00
15,000.0	90.00	179.70	11,140.0	-3,709.1	-533.0	3,731.0	0.00	0.00	0.00
15,100.0	90.00	179.70	11,140.0	-3,809.1	-532.5	3,830.9	0.00	0.00	0.00
15,200.0	90.00	179.70	11,140.0	-3,909.1	-532.0	3,930.7	0.00	0.00	0.00
15,300.0	90.00	179.70	11,140.0	-4,009.1	-531.4	4,030.6	0.00	0.00	0.00
15,400.0	90.00	179.70	11,140.0	-4,109.1	-530.9	4,130.4	0.00	0.00	0.00
15,500.0	90.00	179.70	11,140.0	-4,209.1	-530.4	4,230.3	0.00	0.00	0.00
15,600.0	90.00	179.70	11,140.0	-4,309.1	-529.8	4,330.1	0.00	0.00	0.00
15,700.0	90.00	179.70	11,140.0	-4,409.1	-529.3	4,430.0	0.00	0.00	0.00
15,800.0	90.00	179.70	11,140.0	-4,509.1	-528.8	4,529.8	0.00	0.00	0.00
15,900.0	90.00	179.70	11,140.0	-4,609.1	-528.3	4,629.6	0.00	0.00	0.00
16,000.0	90.00	179.70	11,140.0	-4,709.1	-527.7	4,729.5	0.00	0.00	0.00
16,100.0	90.00	179.70	11,140.0	-4,809.1	-527.2	4,829.3	0.00	0.00	0.00
16,200.0	90.00	179.70	11,140.0	-4,909.1	-526.7	4,929.2	0.00	0.00	0.00
16,300.0	90.00	179.70	11,140.0	-5,009.1	-526.1	5,029.0	0.00	0.00	0.00
16,400.0	90.00	179.70	11,140.0	-5,109.1	-525.6	5,128.9	0.00	0.00	0.00
16,500.0	90.00	179.70	11,140.0	-5,209.1	-525.1	5,228.7	0.00	0.00	0.00
16,600.0	90.00	179.70	11,140.0	-5,309.1	-524.5	5,328.6	0.00	0.00	0.00
16,700.0	90.00	179.70	11,140.0	-5,409.1	-524.0	5,428.4	0.00	0.00	0.00
16,800.0	90.00	179.70	11,140.0	-5,509.1	-523.5	5,528.3	0.00	0.00	0.00
16,900.0	90.00	179.70	11,140.0	-5,609.1	-523.0	5,628.1	0.00	0.00	0.00
17,000.0	90.00	179.70	11,140.0	-5,709.1	-522.4	5,728.0	0.00	0.00	0.00
17,100.0	90.00	179.70	11,140.0	-5,809.1	-521.9	5,827.8	0.00	0.00	0.00
17,200.0	90.00	179.70	11,140.0	-5,909.1	-521.4	5,927.7	0.00	0.00	0.00
17,300.0	90.00	179.70	11,140.0	-6,009.1	-520.8	6,027.5	0.00	0.00	0.00
17,400.0	90.00	179.70	11,140.0	-6,109.1	-520.3	6,127.4	0.00	0.00	0.00
17,500.0	90.00	179.70	11,140.0	-6,209.1	-519.8	6,227.2	0.00	0.00	0.00
17,600.0	90.00	179.70	11,140.0	-6,309.1	-519.2	6,327.1	0.00	0.00	0.00
17,700.0	90.00	179.70	11,140.0	-6,409.1	-518.7	6,426.9	0.00	0.00	0.00
17,800.0	90.00	179.70	11,140.0	-6,509.1	-518.2	6,526.8	0.00	0.00	0.00
17,900.0	90.00	179.70	11,140.0	-6,609.1	-517.7	6,626.6	0.00	0.00	0.00
18,000.0	90.00	179.70	11,140.0	-6,709.0	-517.1	6,726.5	0.00	0.00	0.00
18,100.0	90.00	179.70	11,140.0	-6,809.0	-516.6	6,826.3	0.00	0.00	0.00
18,200.0	90.00	179.70	11,140.0	-6,909.0	-516.1	6,926.2	0.00	0.00	0.00
18,300.0	90.00	179.70	11,140.0	-7,009.0	-515.5	7,026.0	0.00	0.00	0.00
18,400.0	90.00	179.70	11,140.0	-7,109.0	-515.0	7,125.9	0.00	0.00	0.00
18,500.0	90.00	179.70	11,140.0	-7,209.0	-514.5	7,225.7	0.00	0.00	0.00
		179.70		-7,309.0	-513.9	7,325.6		0.00	

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Database:	PEDM	Local Co-ordinate Reference:	Well #728H
Company:	Midland	TVD Reference:	kb @ 3185.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3185.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#728H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,700.0 18,800.0 18,900.0 19,000.0	90.00 90.00 90.00 90.00	179.70 179.70 179.70 179.70	11,140.0 11,140.0 11,140.0 11,140.0	-7,409.0 -7,509.0 -7,609.0 -7,709.0	-513.4 -512.9 -512.4 -511.8	7,425.4 7,525.3 7,625.1 7,725.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
19,100.0 19,200.0 19,300.0 19,400.0 19,500.0	90.00 90.00 90.00 90.00 90.00	179.70 179.70 179.70 179.70 179.70 179.70	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-7,809.0 -7,909.0 -8,009.0 -8,109.0 -8,209.0	-511.3 -510.8 -510.2 -509.7 -509.2	7,824.8 7,924.6 8,024.5 8,124.3 8,224.2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,600.0 19,700.0 19,800.0 19,900.0 20,000.0	90.00 90.00 90.00 90.00 90.00	179.70 179.70 179.70 179.70 179.70 179.70	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-8,309.0 -8,409.0 -8,509.0 -8,609.0 -8,709.0	-508.6 -508.1 -507.6 -507.1 -506.5	8,324.0 8,423.9 8,523.7 8,623.6 8,723.4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
20,100.0 20,200.0 20,300.0 20,400.0 20,500.0	90.00 90.00 90.00 90.00 90.00	179.70 179.70 179.70 179.70 179.70 179.70	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-8,809.0 -8,909.0 -9,009.0 -9,109.0 -9,209.0	-506.0 -505.5 -504.9 -504.4	8,823.3 8,923.1 9,023.0 9,122.8 9,222.7	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
20,600.0 20,700.0 20,800.0 20,900.0	90.00 90.00 90.00 90.00	179.70 179.70 179.70 179.70	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-9,309.0 -9,409.0 -9,509.0 -9,609.0	-503.9 -503.3 -502.8 -502.3 -501.8	9,322.5 9,422.4 9,522.2 9,622.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
21,000.0 21,100.0 21,200.0 21,232.0 21,300.0	90.00 90.00 90.00 90.00 90.00	179.70 179.70 179.70 179.70 180.11	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-9,709.0 -9,809.0 -9,909.0 -9,941.0 -10,009.0	-501.2 -500.7 -500.2 -500.0 -499.9	9,721.9 9,821.8 9,921.6 9,953.6 10,021.5	0.00 0.00 0.00 0.00 0.61	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.61
21,332.0	90.00	180.30	11,140.0	-10,041.0	-500.0	10,053.4	0.61	0.00	0.61

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(Banjo 5 Fed Com# - plan hits target cente - Point	0.00 er	0.00	10,662.5	307.0	-555.0	392,715.00	674,345.00	32° 4' 44.132 N	103° 54' 14.018 W
FTP(Banjo 5 Fed Com#t - plan hits target cente - Point	0.00 er	0.00	11,097.2	27.0	-553.0	392,435.00	674,347.00	32° 4' 41.361 N	103° 54' 14.008 W
LTP(Banjo 5 Fed Com#٤ - plan hits target cente - Point	0.00 er	0.00	11,140.0	-9,941.0	-500.0	382,467.00	674,400.00	32° 3' 2.715 N	103° 54' 13.853 W
PBHL(Banjo 5 Fed Com - plan hits target cente - Point	0.00 er	0.00	11,140.0	-10,041.0	-500.0	382,367.00	674,400.00	32° 3' 1.725 N	103° 54' 13.857 W
Fed PP(Banjo 5 Fed Coı - plan misses target ca - Point	0.00 enter by 959	0.00 9usft at 162.	12,085.0 44.8usft MD	-4,953.0 (11140.0 TVD	-358.0 , -4953.9 N, -{	387,455.00 526.4 E)	674,542.00	32° 3' 52.071 N	103° 54' 11.972 W

Released to Imaging: 10/18/2023 11:00:12 AM



Project: Eddy County, NM (NAD 83 NME) MD Reference: kb @ 3185.0usft Site: Banjo 5 Fed Com North Reference: Grid Well: #728H Survey Calculation Method: Minimum Curvature	Local Co-ordinate Reference:Well #728HTVD Reference:kb @ 3185.0usft	Database: PEDM Company: Midland
	MD Reference: kb @ 3185.0usft	Project: Eddy County, NM (NAD 83 NME)
Well: #728H Survey Calculation Method: Minimum Curvature	North Reference: Grid	Site: Banjo 5 Fed Com
	Survey Calculation Method: Minimum Curvature	Well: #728H
Wellbore: OH		Wellbore: OH
Design: Plan #0.2		Design: Plan #0.2

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Sec

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MD

0.0

1200.0

1657.8

5185.0

5642.8

10711.3

11257.7

11461.3

21232.0

21332.0

90.00

90.00

90.00

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11140.0

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-10041.0

-551.8

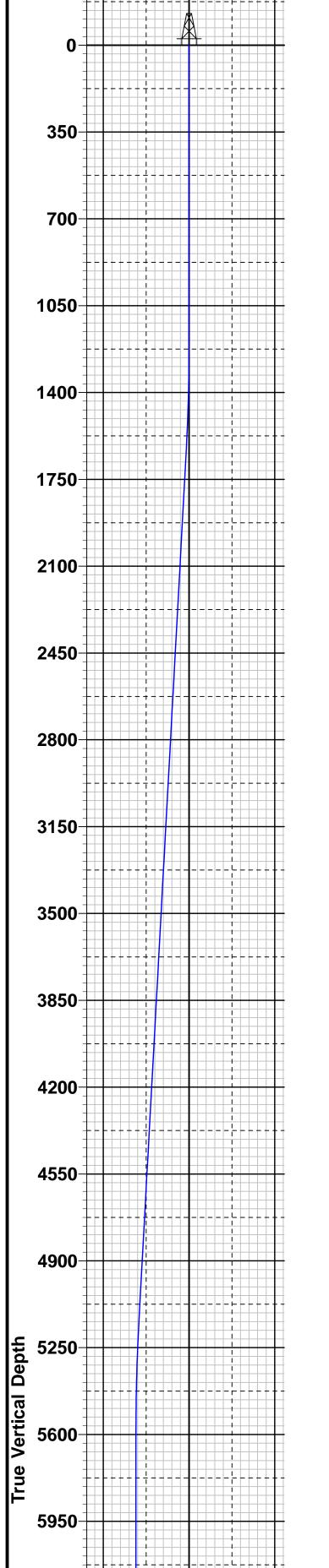
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-500.0

12.00

0.00

0.61



Eddy County, NM (NAD 83 NME) West(-)/East(+) -350 -1050 -700 -1750 350 700 Banjo 5 Fed Com #728H 350---+--- - - -Plan #0.2 - - - -**Azimuths to Grid North** --+ True North: -0.23° -350-Magnetic North: 6.57° **Magnetic Field** Strength: 47474.4nT -700 Dip Angle: 59.75° Date: 7/1/2020 Model: IGRF2020 -1050 PROJECT DETAILS: Eddy County, NM (NAD 83 NME) --+ - - - - - ------Geodetic System: US State Plane 1983 Datum: North American Datum 1983 -1400-Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone System Datum: Mean Sea Level -1750

-2100-

To convert a Magnetic Direction to a Grid Direction, Add 6.57° To convert a Magnetic Direction to a True Direction, Add 6.80° East To convert a True Direction to a Grid Direction, Subtract 0.23°

6300-

6650-

7000-

7350-

7700-

8050-

8400-

8750-

9100-

9450-

9800-

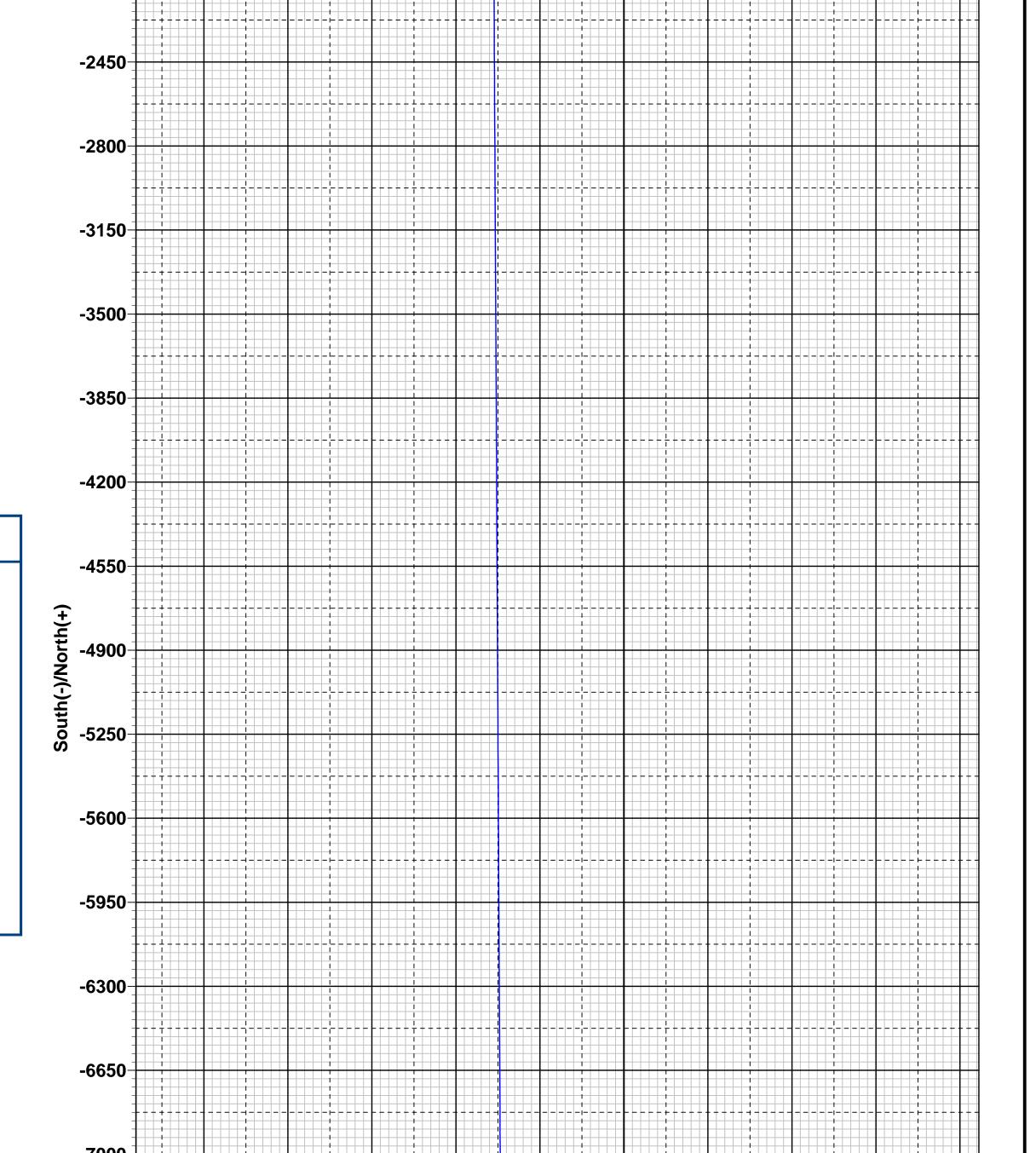
10150-

		_									
				١	NELL DE	TAILS: #728	8H				
				3160.0 kb @ 3185.0usft							
			Northing 392408.00	orthing Easting		sting Latittude		Longitude 103° 54' 7.581 W			
				SECT	TON DE	TAILS					
Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target			
0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0				
0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0				
9.16	298.95	1655.8	17.7	-31.9	2.00	298.95	-16.1				
9.16	298.95	5138.2	289.3	-523.1	0.00	0.00	-263.0				
0.00	0.00	5594.0	307.0	-555.0	2.00	180.00	-279.0				
0.00	0.00	10662.5	307.0	-555.0	0.00	0.00	-279.0	KOP(Banjo 5 Fed Co	m#803H)		
65.57	179.59	11097.2	27.0	-553.0	12.00	179.59	0.5	FTP(Banjo 5 Fed Cor	n#803H)		
					10.00			· -	-		

0.26

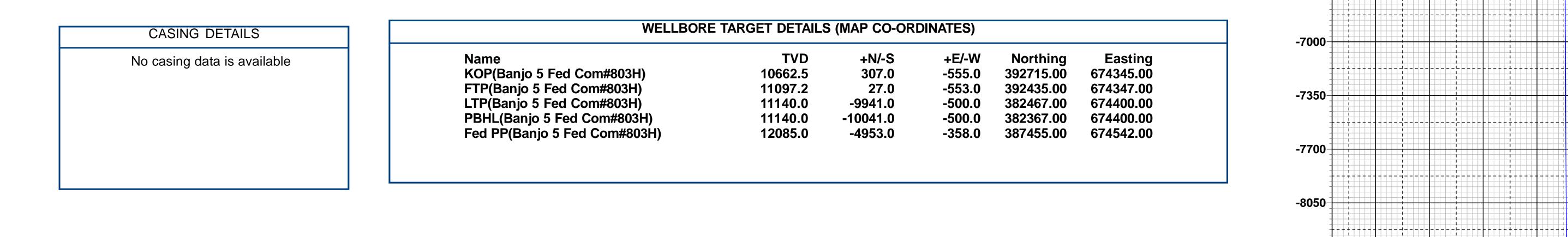
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89.93



1050

1400



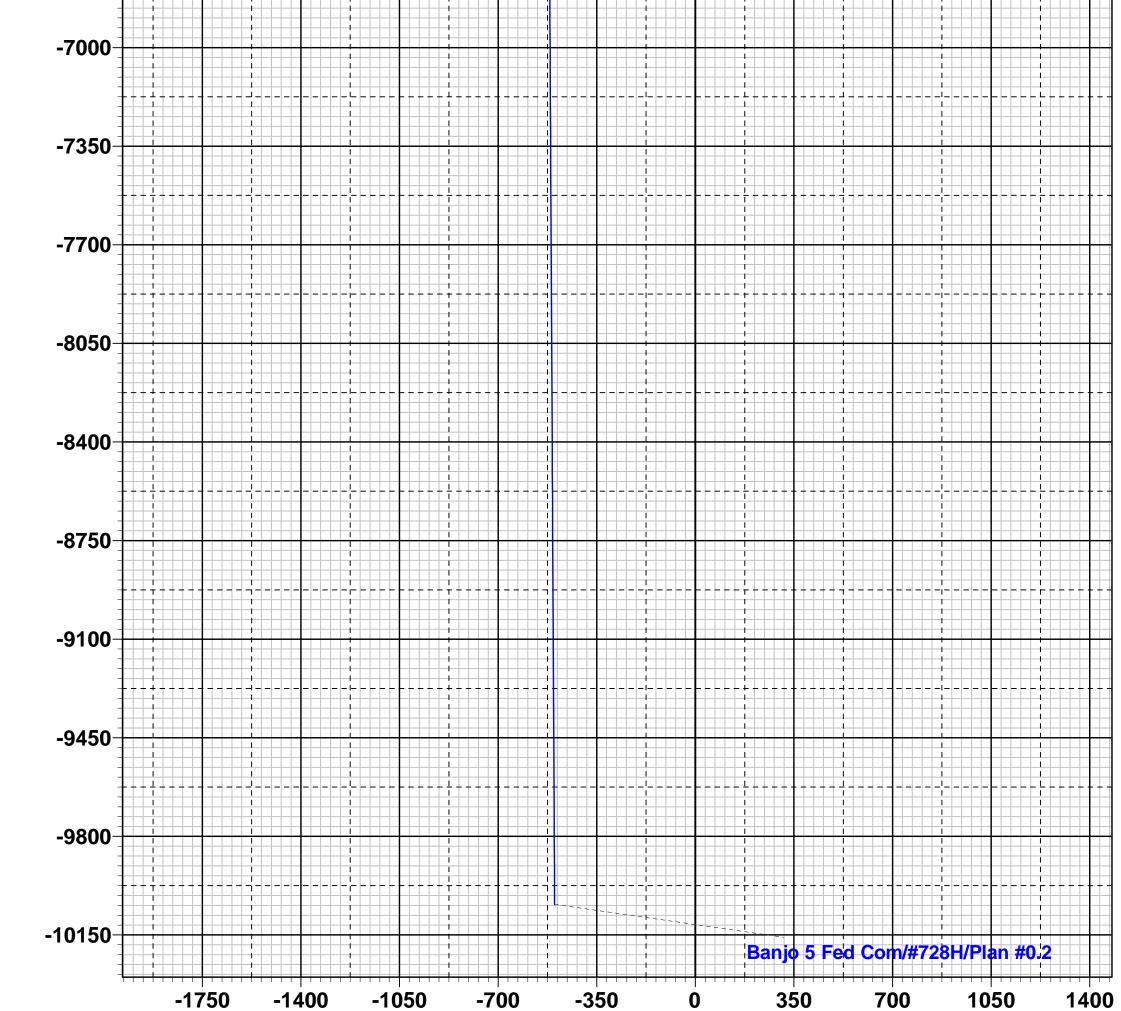
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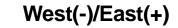
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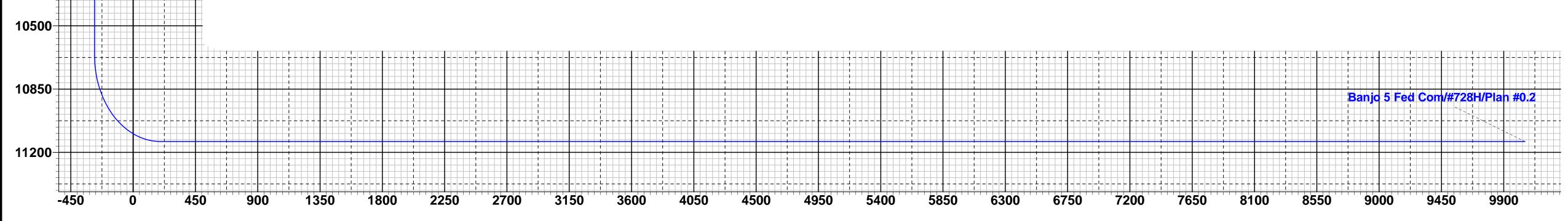
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LTP(Banjo 5 Fed Com#803H)

PBHL(Banjo 5 Fed Com#803H)







Eddy County, NM (NAD 83 NME) Banjo 5 Fed Com OH Plan #0.2 15:04, April 13 2023

- -1- -

- + -

Vertical Section at 182.85°

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

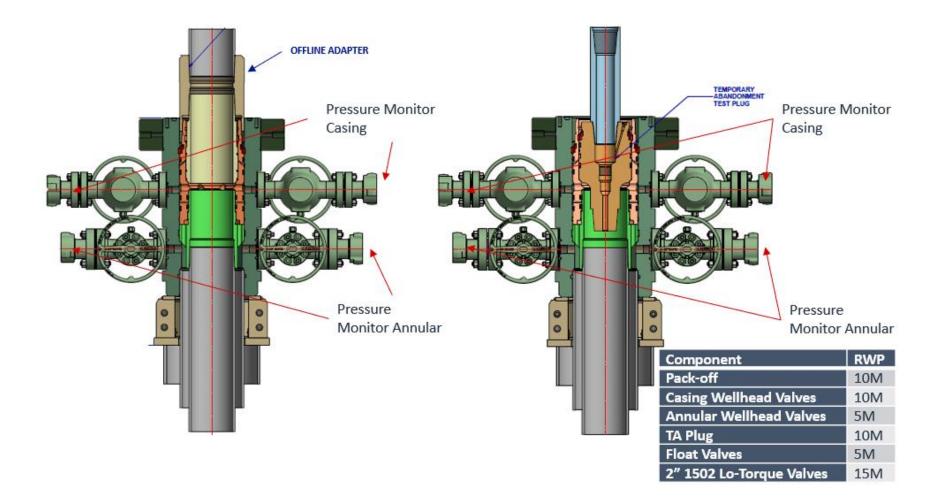
General Procedure After Cementing

- 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

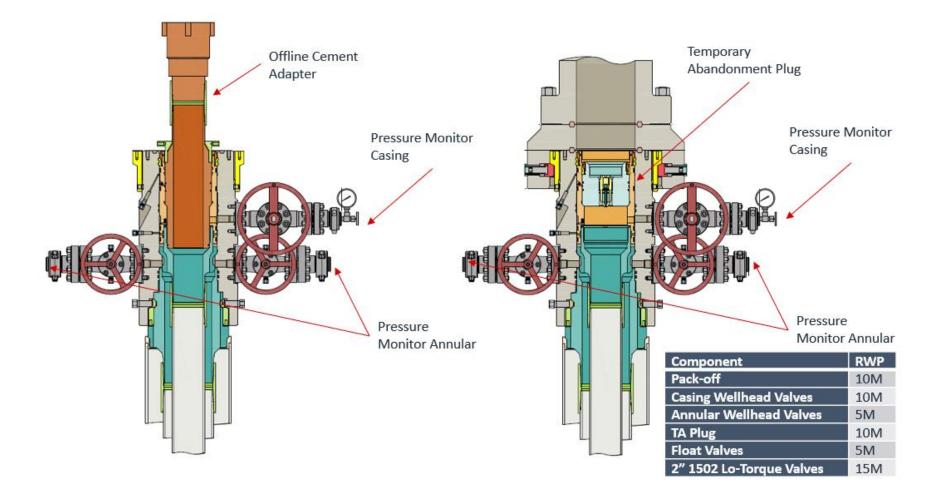
Figure 1: Cameron TA Plug and Offline Adapter Schematic



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Offline Intermediate Cementing Procedure



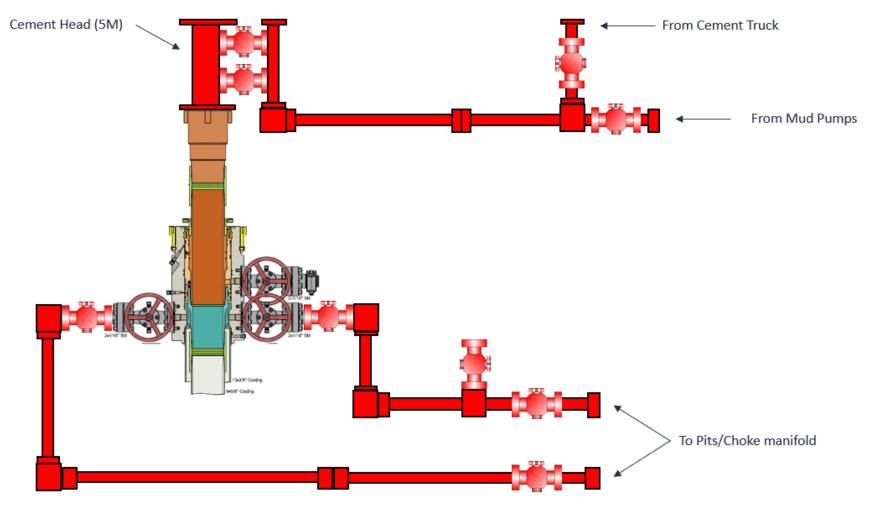


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Seog resources Offline Intermediate Cementing Procedure

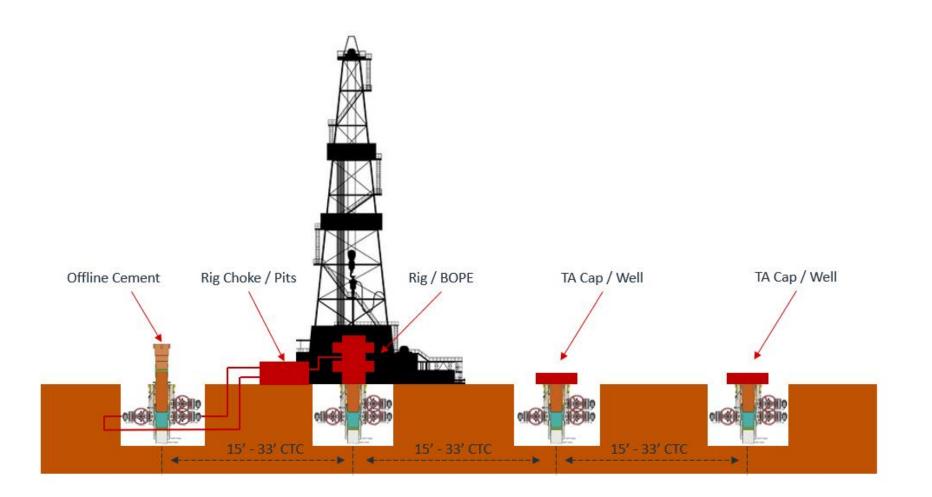




*** All Lines 10M rated working pressure

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CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	216990
Γ	Action Type:
	[C-103] NOI Change of Plans (C-103A)
CONDITIONS	

Created By	Condition	Condition Date
ward.rikala	None	10/18/2023

CONDITIONS

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Action 216990