K

Received by OCI	D: 5/15/2023 1:4	41:18 PM				Page 1 of			
Form 3160-5 (June 2019)		UNITED STATES ARTMENT OF THE INTE EAU OF LAND MANAGE				O Exp	ORM APPROVED MB No. 1004-0137 ires: October 31, 2021		
	SUNDRY N not use this fe	OTICES AND REPORT orm for proposals to di Jse Form 3160-3 (APD)	S ON WEL	-enter an		Ni 6. If Indian, Allottee or	MNM102034 r Tribe Name		
	SUBMIT IN T	RIPLICATE - Other instruction	ns on page 2		7	7. If Unit of CA/Agree	ement, Name and/or No.		
1. Type of Well	Well 🗌 Gas W	Vell Other			3	8. Well Name and No.	BANJO 32 FED COM/710H		
2. Name of Operato		ES INCORPORATED			9	9. API Well No.	30-015-53700		
		BY 2, HOUSTON, TX 77(3b. I	Phone No. <i>(incl</i> 3) 651-7000	ude area code	e) 1	10. Field and Pool or E PURPLE SAGE; W			
4. Location of Well SEC 32/T25S/R		.,M., or Survey Description)			1	11. Country or Parish, EDDY/NM	State		
	12. CHE0	CK THE APPROPRIATE BOX(E	ES) TO INDICA	ATE NATURE	E OF NOTIC	CE, REPORT OR OTH	IER DATA		
TYPE OF SU	JBMISSION			TY	PE OF ACT	ION			
✓ Notice of Int	Acidize	Deepen Uter Deepen	· Fracturing		ction (Start/Resume) mation	Water Shut-Off Well Integrity			
Subsequent	Report	Casing Repair	struction	Recon	1	✓ Other			
Final Aband	onment Notice	Change Plans Convert to Injection	Abandon «	_	orarily Abandon Disposal				
the Bond under completion of t completed. Fina is ready for fina	which the work will he involved operatio al Abandonment Not al inspection.)	be perfonned or provide the Bon ns. If the operation results in a m	nd No. on file w ultiple complet	ith BLM/BIA	A. Required soletion in a n	subsequent reports mus ew interval, a Form 31	f all pertinent markers and zones. Attach st be filed within 30 days following 160-4 must be filed once testing has been he operator has detennined that the site		
EOG respective the following		amendment to our approved A	PD for this we	ell to reflect					
Change nan	ne from Banjo 32 F	ed Com 710H to Banjo 32 Fed	d Com 722H.						
-		0-E, Sec 8, 230' FSL, 1980' F\ FSL, 1650' FWL, Eddy Co., N	-	, NM,					
Change targ	et formation to Wo	lfcamp U2.							
Continued or	n page 3 additional	information							
		true and correct. Name (Printed/	(Typed)	Regulator	y Specialis	t			
	DSON / Ph: (432) 6	586-3600	Titl	le	y oposialio	• 			
Signature			Dat	te		04/14/20	023		
		THE SPACE FC		AL OR ST		CE USE			
Approved by									
KEITH P IMMAT	TY / Ph: (575) 988	-4722 / Approved		Title ENG	INEER	I	05/15/2023 Date		
		ned. Approval of this notice does a quitable title to those rights in the		Office CARLSBAD					

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.

Location of Well

0. SHL: SWSW / 395 FSL / 1112 FWL / TWSP: 25S / RANGE: 30E / SECTION: 32 / LAT: 32.080133 / LONG: -103.908472 (TVD: 0 feet, MD: 0 feet) PPP: NENW / 330 FNL / 1980 FWL / TWSP: 26S / RANGE: 30E / SECTION: 5 / LAT: 32.07815 / LONG: -103.905668 (TVD: 10753 feet, MD: 11142 feet) BHL: SESW / 230 FSL / 1980 FWL / TWSP: 26S / RANGE: 30E / SECTION: 8 / LAT: 32.050473 / LONG: -103.905625 (TVD: 10753 feet, MD: 21211 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, Aztee, NM 87410 Phone: (505) 334-6178 Farx; (505) 334-6170 DISTRICT IV 1220 S. SL: Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Farx; (505) 476-3462

Released

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Imaging: 10/18/2023 10:32:05 AM

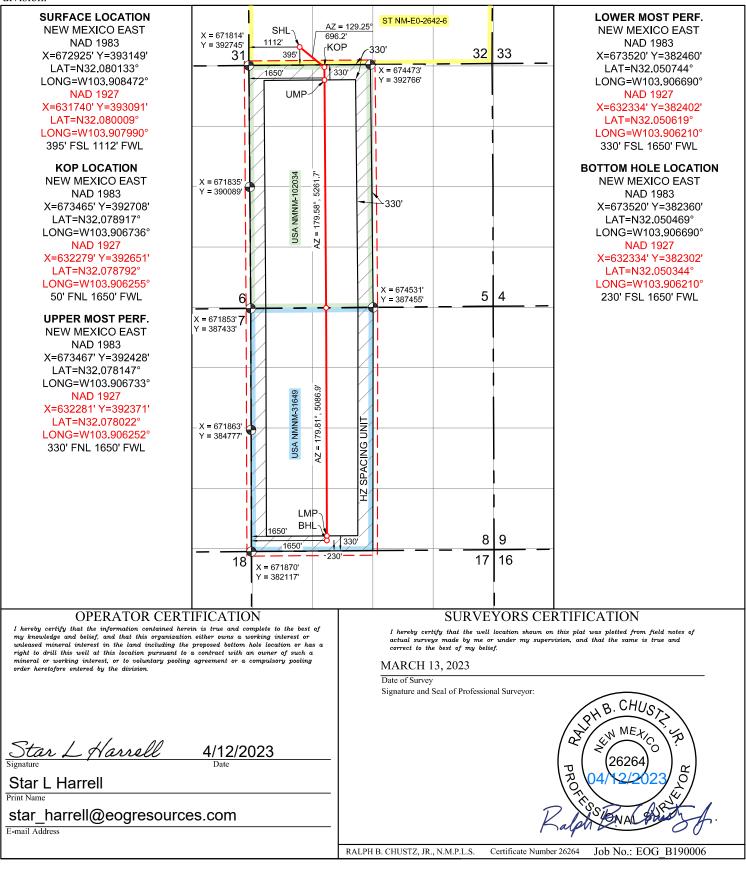
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

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

□ AMENDED REPORT

		WEI	LL LOCA	TION	AND A	CREA	GE DEDICAT	TION PLAT		
30-015- 5		ļ	Pool Code 98220							
Property C 33000				Prop BANJO 3	berty Name B2 FED	СОМ			Well Number 722H	
OGRID No.Operator NameElevation7377EOG RESOURCES, INC.3163										
Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet fre	om the	North/South line	Feet from the	East/West line	County
М	32	25 S	30 E		39	95	NORTH	1112	WEST	EDDY
			Bott	om Hol	e Location	If Diffe	erent From Surfac	e		
UL or lot no.	Section	Township	Range	Lot Idn	Feet fro	om the	North/South line	Feet from the	East/West line	County
M 8 26 S 30 E 230 SOUTH 1650 WES								WEST	EDDY	
Dedicated Acres	Joint or	Infill	Consolidated Code 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.



Page 4 of 30

Seog resources

Banjo 32 Fed Com 722H

Revised Permit Information 03/23/2023:

Well Name: Banjo 32 Fed Com 722H

Location: SHL: 395' FSL & 1112' FWL, Section 32, T-25-S, R-30-E, Eddy Co., N.M. BHL: 230' FSL & 1650' 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	9,665	0	9,620	7-5/8"	29.7#	HCP-110	FXL	
6-3/4"	0	9,165	0	9,120	5-1/2"	20#	P110-EC	DWC/C IS MS	
6-3/4"	9,165	9,665	9,120	9,620	5-1/2"	20#	P110-EC	Vam Sprint SF	
6-3/4"	9,665	21,523	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)				
21,523'	1050	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:



Banjo 32 Fed Com 72211								
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.

0				
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' - 10,705'	Oil Base	8.7-9.4	58-68	N/c - 6
10,705' - 21,523'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral	Oli Base	10:0-14:0	38-08	4 - 0

Mud Program:



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"



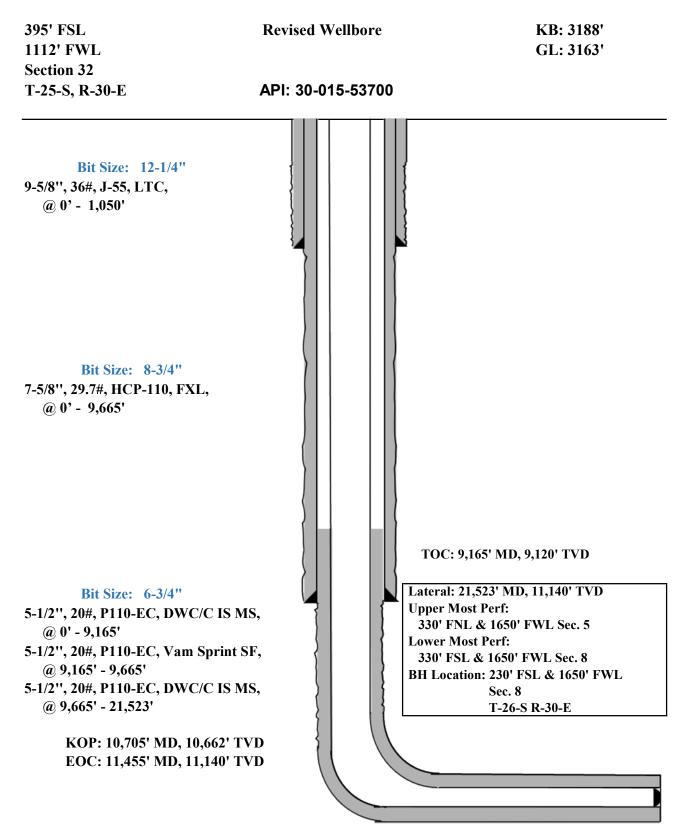
TUBING REQUIREMENTS

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	Interva	l 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	9,665	0	9,620	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	21,523	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)
21,523'	1730	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>:



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.

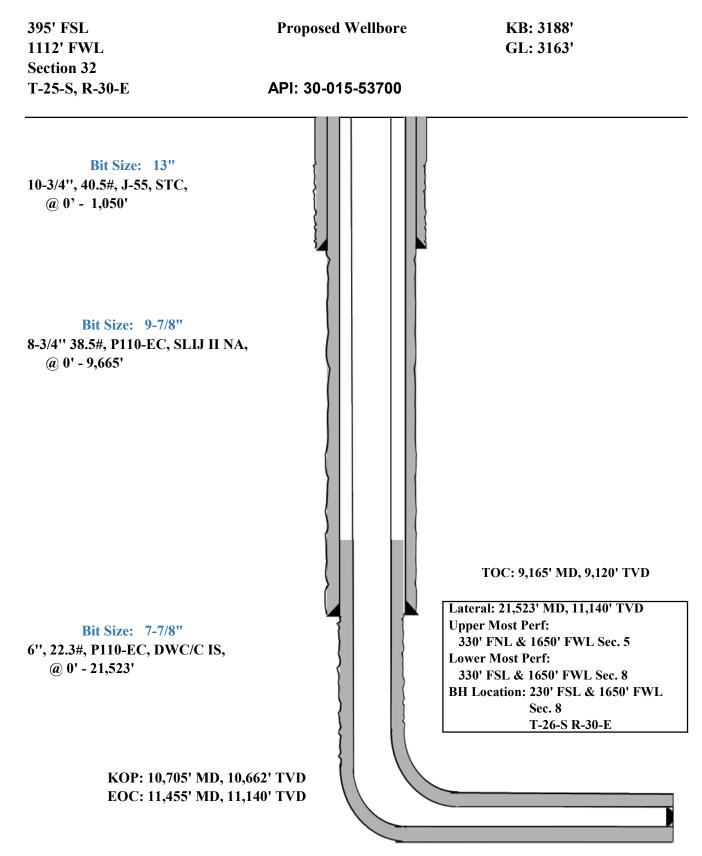
EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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 32 Fed Com #722H

OH

Plan: Plan #0.1 RT

Standard Planning Report

13 April, 2023



				MWD + IFR1					
1 0.0	21,523.4	Plan #0.1 RT (OH)	EOG MWD+IFR1					
Plan Survey Tool P Depth From (usft)	rogram Depth To (usft)	Date 4/13/2 Survey (Wellb		Tool Name	Rem	arks			
				5.0	0.0				
		(1	usft) 0.0	(usft) 0.0	(usft) 0.0		(°) 176.84		
Version: Vertical Section:		Denth F	Phase: rom (TVD)	PLAN +N/-S	Tie On Dep +E/-W		0.0		
Audit Notes:			Phone		Tia On Day	ath.	0.0		
Design	Plan #0.1 RT								
	IGF	RF2020	4/13/2023		6.47	59.66	47,186.2351	3612	
Magnetics	Model Na	me	Sample Date	Declination (°)	1	Dip Angle (°)	Field Strength (nT)		
Wellbore	OH								
Grid Convergence:		0.23 °							
Position Uncertaint		0.0 usft	Wellhead Elev		usft	Ground Level:	100	3,163.0 ust	
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:		93,149.00 usft 72,925.00 usft	Latitude: Longitude:		2° 4' 48.482 № 54' 30.503 V	
Well	#722H								
Position Uncertaint	•	0.0 usft	Slot Radius:	13-3	•				
Site Position: From:	Мар		Northing: Easting:	393,149 0	.00 usft Latitud .00 usft Longit			82° 4' 7.662 N ° 4' 51.015 W	
Site	Banjo 32 Fed	Com							
Map Zone:									
Geo Datum:	North American New Mexico Ea	Datum 1983							
Project Map System:	US State Plane	NM (NAD 83 N	IME)	System Datum		Mean Sea Level			
Design:	Plan #0.1 RT								
Wellbore:	ОН								
Site: Vell:	Banjo 32 Feo #722H	Com			North Reference: Grid Survey Calculation Method: Minimum Curvature				
Project:		, NM (NAD 83	NME)		MD Reference: kb = 26' @ 3189.0usft				
Company:	Midland			TVD Reference	e:	kb = 26' @ 318	39.0usft		



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3189.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3189.0usft
Site:	Banjo 32 Fed Com	North Reference:	Grid
Well:	#722H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1 RT		

Plan Sections

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,625.9	8.52	114.19	1,624.3	-12.9	28.8	2.00	2.00	0.00	114.19	
5,210.8	8.52	114.19	5,169.7	-230.6	513.2	0.00	0.00	0.00	0.00	
5,636.7	0.00	0.00	5,594.0	-243.5	542.0	2.00	-2.00	0.00	180.00	
10,705.2	0.00	0.00	10,662.5	-243.5	542.0	0.00	0.00	0.00	0.00	KOP(Banjo 32 Fed C
11,455.2	90.00	180.00	11,140.0	-721.0	542.0	12.00	12.00	24.00	180.00	FTP(Banjo 32 Fed Co
21,423.4	90.00	179.39	11,140.0	-10,689.0	595.0	0.01	0.00	-0.01	-90.00	LTP(Banjo 32 Fed Co
21,523.4	90.00	180.61	11,140.0	-10,789.0	595.0	1.22	0.00	1.22	90.00	PBHL(Banjo 32 Fed C



Plan #0.1 RT

Planning Report

og res	sources		
):	PEDM	Local Co-ordinate Reference:	Well #722H
/ :	Midland	TVD Reference:	kb = 26' @ 3189.0usft
	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3189.0usft
	Banjo 32 Fed Com	North Reference:	Grid
	#722H	Survey Calculation Method:	Minimum Curvature
:	ОН	-	

Planned Survey

Database: Company: Project: Site: Well: Wellbore:

Design:

Measu Dep (ust	th	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	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,	0.000	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
	300.0	2.00	114.19	1,300.0	-0.7	1.6	0.8	2.00	2.00	0.00
1,	400.0	4.00	114.19	1,399.8	-2.9	6.4	3.2	2.00	2.00	0.00
	500.0	6.00	114.19	1,499.5	-6.4	14.3	7.2	2.00	2.00	0.00
	600.0	8.00	114.19	1,598.7	-11.4	25.4	12.8	2.00	2.00	0.00
	625.9	8.52	114.19	1,624.3	-12.9	28.8	14.5	2.00	2.00	0.00
	700.0	8.52	114.19	1,697.6	-17.4	38.8	19.6	0.00	0.00	0.00
	800.0	8.52	114.19	1,796.5	-23.5	52.3	26.4	0.00	0.00	0.00
	900.0	8.52	114.19	1,895.4	-29.6	65.9	33.2	0.00	0.00	0.00
	0.000	8.52	114.19	1,994.3	-35.7	79.4	40.0	0.00	0.00	0.00
	100.0	8.52	114.19	2,093.2	-41.7	92.9	46.8	0.00	0.00	0.00
	200.0	8.52	114.19	2,192.1	-47.8	106.4	53.6	0.00	0.00	0.00
	300.0	8.52	114.19	2,291.0	-53.9	119.9	60.4	0.00	0.00	0.00
	400.0	8.52	114.19	2,389.9	-59.9	133.4	67.2	0.00	0.00	0.00
	500.0	8.52	114.19	2,488.8	-66.0	146.9	74.0	0.00	0.00	0.00
	600.0	8.52	114.19	2,587.7	-72.1	160.4	80.8	0.00	0.00	0.00
	700.0 800.0	8.52 8.52	114.19 114.19	2,686.6 2,785.5	-78.1 -84.2	173.9 187.5	87.6 94.4	0.00 0.00	0.00 0.00	0.00 0.00
	900.0	8.52	114.19	2,884.4	-90.3	201.0	101.2	0.00	0.00	0.00
	000.0	8.52 8.52	114.19 114.19	2,983.3	-96.4 -102.4	214.5 228.0	108.0	0.00 0.00	0.00 0.00	0.00
	100.0 200.0	8.52 8.52	114.19	3,082.2 3,181.1	-102.4 -108.5	228.0 241.5	114.8 121.6	0.00	0.00	0.00 0.00
	300.0	8.52	114.19	3,280.0	-114.6	255.0	128.4	0.00	0.00	0.00
	400.0	8.52	114.19	3,378.9	-120.6	268.5	135.2	0.00	0.00	0.00
- /	500.0	8.52	114.19	3,477.8	-126.7	282.0	142.0	0.00	0.00	0.00
	600.0	8.52	114.19	3,576.7	-132.8	295.5	148.8	0.00	0.00	0.00
	700.0	8.52	114.19	3,675.6	-138.8	309.1	155.7	0.00	0.00	0.00
3,	800.0	8.52	114.19	3,774.5	-144.9	322.6	162.5	0.00	0.00	0.00
3.	900.0	8.52	114.19	3,873.3	-151.0	336.1	169.3	0.00	0.00	0.00
	0.000	8.52	114.19	3,972.2	-157.1	349.6	176.1	0.00	0.00	0.00
4,	100.0	8.52	114.19	4,071.1	-163.1	363.1	182.9	0.00	0.00	0.00
	200.0	8.52	114.19	4,170.0	-169.2	376.6	189.7	0.00	0.00	0.00
4,	300.0	8.52	114.19	4,268.9	-175.3	390.1	196.5	0.00	0.00	0.00
	400.0	8.52	114.19	4,367.8	-181.3	403.6	203.3	0.00	0.00	0.00
	500.0	8.52	114.19	4,466.7	-187.4	417.1	210.1	0.00	0.00	0.00
	600.0	8.52	114.19	4,565.6	-193.5	430.7	216.9	0.00	0.00	0.00
	700.0	8.52	114.19	4,664.5	-199.5	444.2	223.7	0.00	0.00	0.00
	800.0	8.52	114.19	4,763.4	-205.6	457.7	230.5	0.00	0.00	0.00
,	900.0	8.52	114.19	4,862.3	-211.7	471.2	237.3	0.00	0.00	0.00
	000.0 100.0	8.52 8.52	114.19 114.19	4,961.2 5.060.1	-217.8 -223.8	484.7	244.1	0.00	0.00	0.00
	200.0	8.52 8.52	114.19	5,060.1 5,159.0	-223.8 -229.9	498.2 511.7	250.9 257.7	0.00 0.00	0.00 0.00	0.00 0.00
5,	200.0	0.52	114.13	5,155.0	-223.3	511.7	201.1	0.00	0.00	0.00

4/13/2023 3:47:22PM

COMPASS 5000.16 Build 100



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3189.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3189.0usft
Site:	Banjo 32 Fed Com	North Reference:	Grid
Well:	#722H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1 RT		

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)
5,210.8	8.52	114.19	5,169.7	-230.6	513.2	258.5	0.00	0.00	0.00
5,300.0	6.73	114.19	5,258.1	-235.4	524.0	263.9	2.00	-2.00	0.00
5,400.0	4.73	114.19	5,357.6	-239.5	533.1	268.5	2.00	-2.00	0.00
5,500.0	2.73	114.19	5,457.4	-242.2	539.0	200.5	2.00	-2.00	0.00
5,600.0	0.73	114.19	5,557.3	-243.4	541.8	272.9	2.00	-2.00	0.00
5,636.7	0.00	0.00	5,594.0	-243.5	542.0	273.0	2.00	-2.00	0.00
5,700.0	0.00	0.00	5,657.3	-243.5	542.0	273.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,757.3	-243.5	542.0	273.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,857.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,957.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,057.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,157.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,257.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,357.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,457.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,557.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,657.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,757.3	-243.5	542.0	273.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,857.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,957.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,057.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,157.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,257.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,357.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,457.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,557.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,657.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,757.3	-243.5	542.0	273.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,857.3	-243.5	542.0	273.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,957.3	-243.5	542.0	273.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,057.3	-243.5	542.0	273.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,157.3	-243.5	542.0	273.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,257.3	-243.5	542.0	273.0	0.00	0.00	0.00
									0.00
8,400.0	0.00	0.00	8,357.3	-243.5	542.0	273.0	0.00	0.00	
8,500.0	0.00	0.00	8,457.3	-243.5	542.0	273.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,557.3	-243.5	542.0	273.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,657.3	-243.5	542.0	273.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,757.3	-243.5	542.0	273.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,857.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,957.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,057.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,157.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,200.0 9,300.0	0.00	0.00	9,257.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,300.0 9,400.0	0.00	0.00	9,357.3	-243.5	542.0	273.0	0.00	0.00	0.00
			,						
9,500.0	0.00	0.00	9,457.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,557.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,657.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,757.3	-243.5	542.0	273.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,857.3	-243.5	542.0	273.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,957.3	-243.5	542.0	273.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,057.3	-243.5	542.0	273.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,157.3	-243.5	542.0	273.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,257.3	-243.5	542.0	273.0	0.00	0.00	0.00
,	0.00	0.00	10,357.3	-243.5	542.0	273.0	0.00	0.00	0.00

4/13/2023 3:47:22PM

Page 5

COMPASS 5000.16 Build 100

.



Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3189.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3189.0usft
Site:	Banjo 32 Fed Com	North Reference:	Grid
Well:	#722H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1 RT		

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	10,457.3	-243.5	542.0	273.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,557.3	-243.5	542.0	273.0	0.00	0.00	0.00
10,705.2	0.00	0.00	10,662.5	-243.5	542.0	273.0	0.00	0.00	0.00
10,725.0	2.38	180.00	10,682.3	-243.9	542.0	273.4	12.00	12.00	0.00
10,750.0	5.38	180.00	10,707.3	-245.6	542.0	275.1	12.00	12.00	0.00
10,775.0	8.38	180.00	10,732.1	-248.6	542.0	278.1	12.00	12.00	0.00
10,800.0	11.38	180.00	10,756.7	-252.9	542.0	282.3	12.00	12.00	0.00
10 005 0	44.00	100.00	40 704 4		540.0		40.00	10.00	0.00
10,825.0	14.38	180.00	10,781.1	-258.5	542.0	287.9	12.00	12.00	0.00
10,850.0	17.38	180.00	10,805.1	-265.3	542.0	294.7	12.00	12.00	0.00
10,875.0	20.38	180.00	10,828.8	-273.4	542.0	302.8	12.00	12.00	0.00
10,900.0	23.38	180.00	10,852.0	-282.7	542.0	312.1	12.00	12.00	0.00
10,925.0	26.38	180.00	10,874.6	-293.2	542.0	322.6	12.00	12.00	0.00
10.050.0	20.20	190.00	10,896.7	-304.9	542.0	334.3	12.00	12.00	0.00
10,950.0	29.38	180.00	,		542.0		12.00	12.00	
10,975.0	32.38	180.00	10,918.2	-317.7	542.0	347.1	12.00	12.00	0.00
11,000.0	35.38	180.00	10,938.9	-331.7	542.0	361.0	12.00	12.00	0.00
11,025.0	38.38	180.00	10,958.9	-346.7	542.0	376.0	12.00	12.00	0.00
11,050.0	41.38	180.00	10,978.1	-362.7	542.0	392.0	12.00	12.00	0.00
11,075.0	44.38	180.00	10,996.4	-379.7	542.0	409.0	12.00	12.00	0.00
11,100.0	47.38	180.00	11,013.8	-397.6	542.0	426.9	12.00	12.00	0.00
11,125.0	50.38	180.00	11,030.3	-416.5	542.0	445.7	12.00	12.00	0.00
11,150.0	53.37	180.00	11,045.7	-436.1	542.0	465.3	12.00	12.00	0.00
	56.37	180.00						12.00	
11,175.0	56.37	180.00	11,060.1	-456.6	542.0	485.7	12.00	12.00	0.00
11,200.0	59.37	180.00	11,073.4	-477.7	542.0	506.9	12.00	12.00	0.00
11,225.0	62.37	180.00	11,085.6	-499.6	542.0	528.7	12.00	12.00	0.00
11,250.0	65.37	180.00	11,096.6	-522.0	542.0	551.1	12.00	12.00	0.00
11,275.0	68.37	180.00	11,106.4	-545.0	542.0	574.0	12.00	12.00	0.00
11,300.0	71.37	180.00	11,115.0	-568.5	542.0	597.5	12.00	12.00	0.00
11,325.0	74.37	180.00	11,122.4	-592.4	542.0	621.3	12.00	12.00	0.00
11,350.0	77.37	180.00	11,128.5	-616.6	542.0	645.5	12.00	12.00	0.00
11,375.0	80.37	180.00	11,133.3	-641.1	542.0	670.0	12.00	12.00	0.00
11,400.0	83.37	180.00	11,136.8	-665.9	542.0	694.7	12.00	12.00	0.00
11,425.0	86.37	180.00	11,139.0	-690.8	542.0	719.6	12.00	12.00	0.00
11,450.0	89.37	180.00	11,140.0	-715.8	542.0	744.5	12.00	12.00	0.00
11,455.2	90.00	180.00	11,140.0	-721.0	542.0	749.8	12.00	12.00	0.00
11,500.0	90.00	180.00	11,140.0	-765.8	542.0	794.5	0.01	0.00	-0.01
11,600.0	90.00	179.99	11,140.0	-865.8	542.0	894.3	0.01	0.00	-0.01
11,700.0	90.00	179.99	11,140.0	-965.8	542.0	994.1	0.01	0.00	-0.01
11,800.0	90.00	179.98	11,140.0	-1,065.8	542.1	1,094.0	0.01	0.00	-0.01
11,900.0	90.00	179.97	11,140.0	-1,165.8	542.1	1,193.9	0.01	0.00	-0.01
12,000.0	90.00	179.97	11,140.0	-1,265.8	542.2	1,293.7	0.01	0.00	-0.01
12,100.0	90.00	179.96	11,140.0	-1,365.8	542.2	1,393.6	0.01	0.00	-0.01
12,200.0	90.00	179.95	11,140.0	-1,465.8	542.3	1,493.4	0.01	0.00	-0.01
12.300.0	90.00	179.95	11,140.0	-1,565.8	542.4	1,593.3	0.01	0.00	-0.01
12,300.0	90.00	179.95	11,140.0	-1,665.8	542.4 542.5	1,693.1	0.01	0.00	-0.01
12,500.0	90.00	179.94	11,140.0	-1,765.8	542.6	1,793.0	0.01	0.00	-0.01
12,600.0	90.00	179.93	11,140.0	-1,865.8	542.7	1,892.8	0.01	0.00	-0.01
12,700.0	90.00	179.92	11,140.0	-1,965.8	542.8	1,992.7	0.01	0.00	-0.01
12,800.0	90.00	179.92	11,140.0	-2,065.8	543.0	2,092.5	0.01	0.00	-0.01
12,900.0	90.00	179.91	11,140.0	-2,165.8	543.1	2,192.4	0.01	0.00	-0.01
13,000.0	90.00	179.91	11,140.0	-2,265.8	543.3	2,292.2	0.01	0.00	-0.01
13,100.0	90.00	179.90	11,140.0	-2,365.8	543.4	2,392.1	0.01	0.00	-0.01
13,200.0	90.00	179.89	11,140.0	-2,465.8	543.6	2,392.1	0.01	0.00	-0.01
13,300.0	90.00	179.89	11,140.0	-2,565.8	543.8	2,591.8	0.01	0.00	-0.01
13,400.0	90.00	179.88	11,140.0	-2,665.8	544.0	2.691.7	0.01	0.00	-0.01

4/13/2023 3:47:22PM

Page 6

COMPASS 5000.16 Build 100

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Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3189.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3189.0usft
Site:	Banjo 32 Fed Com	North Reference:	Grid
Well:	#722H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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)
13,500.0	90.00	179.88	11,140.0	-2,765.8	544.2	2,791.5	0.01	0.00	-0.01
13,600.0	90.00	179.87	11,140.0	-2,865.8	544.5	2,891.4	0.01	0.00	-0.01
13,700.0	90.00	179.86	11,140.0	-2,965.8	544.7	2,991.3	0.01	0.00	-0.01
13,800.0	90.00	179.86	11,140.0	-3,065.8	544.9	3,091.1	0.01	0.00	-0.01
13,900.0	90.00	179.85	11,140.0	-3,165.8	545.2	3,191.0	0.01	0.00	-0.01
14,000.0	90.00	179.84	11,140.0	-3,265.8	545.5	3,290.8	0.01	0.00	-0.01
14,100.0	90.00	179.84	11,140.0	-3,365.8	545.7	3,390.7	0.01	0.00	-0.01
14,200.0	90.00	179.83	11,140.0	-3,465.8	546.0	3,490.6	0.01	0.00	-0.01
14,300.0	90.00	179.83	11,140.0	-3,565.8	546.3	3,590.4	0.01	0.00	-0.01
14,400.0	90.00	179.82	11,140.0	-3,665.8	546.6	3,690.3	0.01	0.00	-0.01
14,500.0	90.00	179.81	11,140.0	-3,765.8	546.9	3,790.2	0.01	0.00	-0.01
14,600.0	90.00	179.81	11,140.0	-3,865.8	547.3	3,890.0	0.01	0.00	-0.01
14,700.0	90.00	179.80	11,140.0	-3,965.8	547.6	3,989.9	0.01	0.00	-0.01
14,800.0	90.00	179.80	11,140.0	-4,065.8	548.0	4,089.8	0.01	0.00	-0.01
14,900.0	90.00	179.79	11,140.0	-4,165.8	548.3	4,189.6	0.01	0.00	-0.01
15,000.0	90.00	179.78	11,140.0	-4,265.8	548.7	4,289.5	0.01	0.00	-0.01
15,100.0	90.00	179.78	11,140.0	-4,365.8	549.1	4,389.4	0.01	0.00	-0.01
15,200.0	90.00	179.77	11,140.0	-4,465.8	549.5	4,489.2	0.01	0.00	-0.01
15,300.0	90.00	179.77	11,140.0	-4,565.8	549.9	4,589.1	0.01	0.00	-0.01
15,400.0	90.00	179.76	11,140.0	-4,665.8	550.3	4,689.0	0.01	0.00	-0.01
15,500.0	90.00	179.75	11,140.0	-4,765.8	550.7	4,788.9	0.01	0.00	-0.01
15,600.0	90.00	179.75	11,140.0	-4,865.8	551.2	4,888.7	0.01	0.00	-0.01
15,700.0	90.00	179.74	11,140.0	-4,965.8	551.6	4,988.6	0.01	0.00	-0.01
15,800.0	90.00	179.73	11,140.0	-5,065.8	552.1	5,088.5	0.01	0.00	-0.01
15,900.0	90.00	179.73	11,140.0	-5,165.8	552.5	5,188.3	0.01	0.00	-0.01
16,000.0	90.00	179.72	11,140.0	-5,265.8	553.0	5,288.2	0.01	0.00	-0.01
16,100.0	90.00	179.72	11,140.0	-5,365.7	553.5	5,388.1	0.01	0.00	-0.01
16,200.0	90.00	179.71	11,140.0	-5,465.7	554.0	5,488.0	0.01	0.00	-0.01
16,300.0	90.00	179.70	11,140.0	-5,565.7	554.5	5,587.8	0.01	0.00	-0.01
16,400.0	90.00	179.70	11,140.0	-5,665.7	555.0	5,687.7	0.01	0.00	-0.01
16,500.0	90.00	179.69	11,140.0	-5,765.7	555.6	5,787.6	0.01	0.00	-0.01
16,600.0	90.00	179.69	11,140.0	-5,865.7	556.1	5,887.5	0.01	0.00	-0.01
16,700.0	90.00	179.68	11,140.0	-5,965.7	556.7	5,987.3	0.01	0.00	-0.01
16,800.0	90.00	179.67	11,140.0	-6,065.7	557.2	6,087.2	0.01	0.00	-0.01
16,900.0	90.00	179.67	11,140.0	-6,165.7	557.8	6,187.1	0.01	0.00	-0.01
17,000.0	90.00	179.66	11,140.0	-6,265.7	558.4	6,287.0	0.01	0.00	-0.01
17,100.0	90.00	179.65	11,140.0	-6,365.7	559.0	6,386.9	0.01	0.00	-0.01
17,200.0	90.00	179.65	11,140.0	-6,465.7	559.6	6,486.7	0.01	0.00	-0.01
17,300.0	90.00	179.64	11,140.0	-6,565.7	560.2	6,586.6	0.01	0.00	-0.01
17,400.0	90.00	179.64	11,140.0	-6,665.7	560.9	6,686.5	0.01	0.00	-0.01
17,500.0	90.00	179.63	11,140.0	-6,765.7	561.5	6,786.4	0.01	0.00	-0.01
17,600.0	90.00	179.62	11,140.0	-6,865.7	562.1	6,886.3	0.01	0.00	-0.01
17,700.0	90.00	179.62	11,140.0	-6,965.7	562.8	6,986.1	0.01	0.00	-0.01
17,800.0	90.00	179.61	11,140.0	-7,065.7	563.5	7,086.0	0.01	0.00	-0.01
17,900.0	90.00	179.61	11,140.0	-7,165.7	564.2	7,185.9	0.01	0.00	-0.01
18,000.0	90.00	179.60	11,140.0	-7,265.7	564.8	7,285.8	0.01	0.00	-0.01
18,100.0	90.00	179.59	11,140.0	-7,365.7	565.6	7,385.7	0.01	0.00	-0.01
18,200.0	90.00	179.59	11,140.0	-7,465.7	566.3	7,485.6	0.01	0.00	-0.01
18,300.0	90.00	179.58	11,140.0	-7,565.7	567.0	7,585.4	0.01	0.00	-0.01
18,400.0	90.00	179.58	11,140.0	-7,665.7	567.7	7,685.3	0.01	0.00	-0.01
18,500.0	90.00	179.57	11,140.0	-7,765.7	568.5	7,785.2	0.01	0.00	-0.01
18,600.0	90.00	179.56	11,140.0	-7,865.7	569.2	7,885.1	0.01	0.00	-0.01
18,700.0	90.00	179.56	11,140.0	-7,965.7	570.0	7,985.0	0.01	0.00	-0.01
10,10010									

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Page 7

COMPASS 5000.16 Build 100

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Database:	PEDM	Local Co-ordinate Reference:	Well #722H
Company:	Midland	TVD Reference:	kb = 26' @ 3189.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3189.0usft
Site:	Banjo 32 Fed Com	North Reference:	Grid
Well:	#722H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,900.0 19,000.0 19,100.0 19,200.0	90.00 90.00 90.00 90.00	179.54 179.54 179.53 179.53	11,140.0 11,140.0 11,140.0 11,140.0	-8,165.7 -8,265.7 -8,365.7 -8,465.7	571.6 572.4 573.2 574.0	8,184.8 8,284.7 8,384.6 8,484.4	0.01 0.01 0.01 0.01	0.00 0.00 0.00 0.00	-0.01 -0.01 -0.01 -0.01
19,300.0 19,400.0 19,500.0 19,600.0 19,700.0	90.00 90.00 90.00 90.00 90.00	179.52 179.51 179.51 179.50 179.50	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-8,565.7 -8,665.7 -8,765.7 -8,865.7 -8,865.7 -8,965.7	574.8 575.7 576.5 577.4 578.3	8,584.3 8,684.2 8,784.1 8,884.0 8,983.9	0.01 0.01 0.01 0.01 0.01	0.00 0.00 0.00 0.00 0.00	-0.01 -0.01 -0.01 -0.01 -0.01
19,800.0 19,900.0 20,000.0 20,100.0 20,200.0	90.00 90.00 90.00 90.00 90.00	179.49 179.48 179.48 179.47 179.47	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-9,065.7 -9,165.7 -9,265.6 -9,365.6 -9,465.6	579.1 580.0 580.9 581.9 582.8	9,083.8 9,183.7 9,283.6 9,383.5 9,483.4	0.01 0.01 0.01 0.01 0.01	0.00 0.00 0.00 0.00 0.00	-0.01 -0.01 -0.01 -0.01 -0.01
20,300.0 20,400.0 20,500.0 20,600.0 20,700.0	90.00 90.00 90.00 90.00 90.00	179.46 179.45 179.45 179.44 179.43	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-9,565.6 -9,665.6 -9,765.6 -9,865.6 -9,965.6	583.7 584.7 585.6 586.6 587.6	9,583.3 9,683.2 9,783.1 9,883.0 9,982.9	0.01 0.01 0.01 0.01 0.01	0.00 0.00 0.00 0.00 0.00	-0.01 -0.01 -0.01 -0.01 -0.01
20,800.0 20,900.0 21,000.0 21,100.0 21,200.0	90.00 90.00 90.00 90.00 90.00	179.43 179.42 179.42 179.41 179.41	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-10,065.6 -10,165.6 -10,265.6 -10,365.6 -10,465.6	588.6 589.6 590.6 591.6 592.7	10,082.8 10,182.6 10,282.5 10,382.4 10,482.3	0.01 0.01 0.01 0.01 0.01	0.00 0.00 0.00 0.00 0.00	-0.01 -0.01 -0.01 -0.01 -0.01
21,300.0 21,400.0 21,423.4 21,500.0 21,523.4	90.00 90.00 90.00 90.00 90.00	179.40 179.39 179.39 180.32 180.61	11,140.0 11,140.0 11,140.0 11,140.0 11,140.0 11,140.0	-10,565.6 -10,665.6 -10,689.0 -10,765.6 -10,789.0	593.7 594.8 595.0 595.2 595.0	10,582.2 10,682.1 10,705.5 10,782.0 10,805.4	0.01 0.01 1.22 1.22	0.00 0.00 0.00 0.00 0.00	-0.01 -0.01 -0.01 1.22 1.22

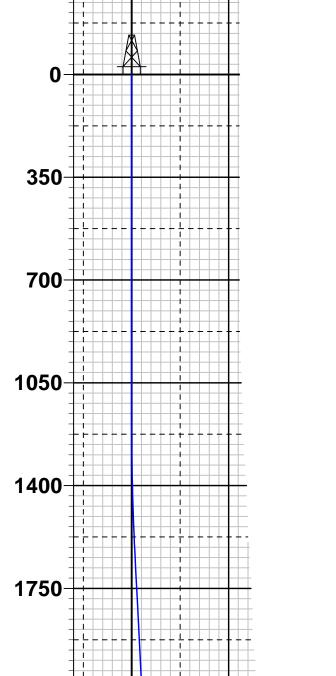
Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Banjo 32 Fed Com - plan hits target cer - Point		0.00	10,662.5	-243.5	542.0	392,905.50	673,467.00	32° 4' 46.051 N	103° 54' 24.214 W
PBHL(Banjo 32 Fed Cor - plan hits target cer - Point		0.00	11,140.0	-10,789.0	595.0	382,360.00	673,520.00	32° 3' 1.691 N	103° 54' 24.083 W
FTP(Banjo 32 Fed Com - plan hits target cer - Point		0.00	11,140.0	-721.0	542.0	392,428.00	673,467.00	32° 4' 41.326 N	103° 54' 24.236 W
LTP(Banjo 32 Fed Com - plan hits target cer - Point		0.00	11,140.0	-10,689.0	595.0	382,460.00	673,520.00	32° 3' 2.680 N	103° 54' 24.078 W

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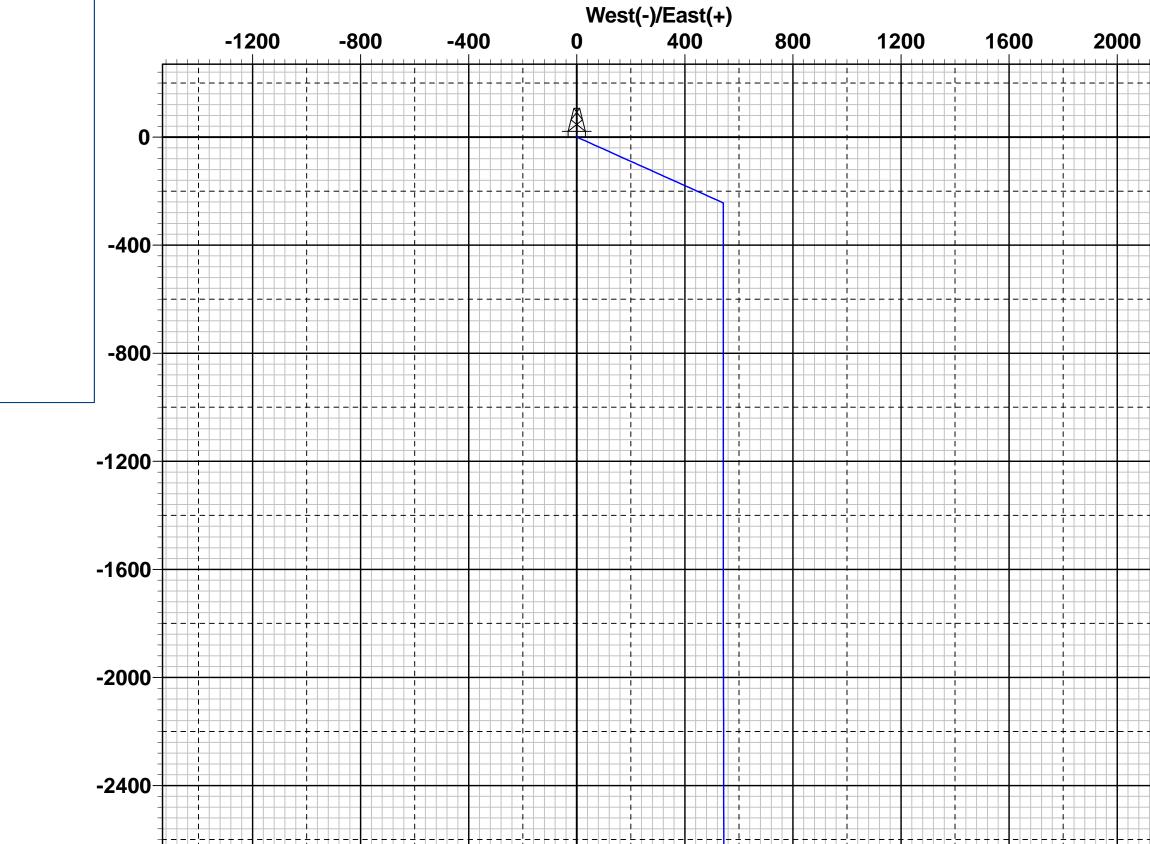
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Eddy County, NM (NAD 83 NME) -1200 -800 _ ่ _ ่ _ _ _ . _ _ _ . Banjo 32 Fed Com #722H 0-**Plan #0.1 RT** -400 **Azimuths to Grid North** True North: -0.23° Magnetic North: 6.25° -800-**Magnetic Field** Strength: 47186.2nT Dip Angle: 59.66° Date: 4/13/2023 -1200 Model: IGRF2020 PROJECT DETAILS: Eddy County, NM (NAD 83 NME) -1600-Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 - -Zone: New Mexico Eastern Zone -2000 System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 6.25° To convert a Magnetic Direction to a True Direction, Add 6.47° East To convert a True Direction to a Grid Direction, Subtract 0.23°



2450

2800-

3150-

3500-

3850-

4200-

4550-

4900-

Vertical Depth 20095 Vertical Depth

5950-

6300-

6650-

7000-

7350-

7700-

8050-

8400-

8750-

9100-

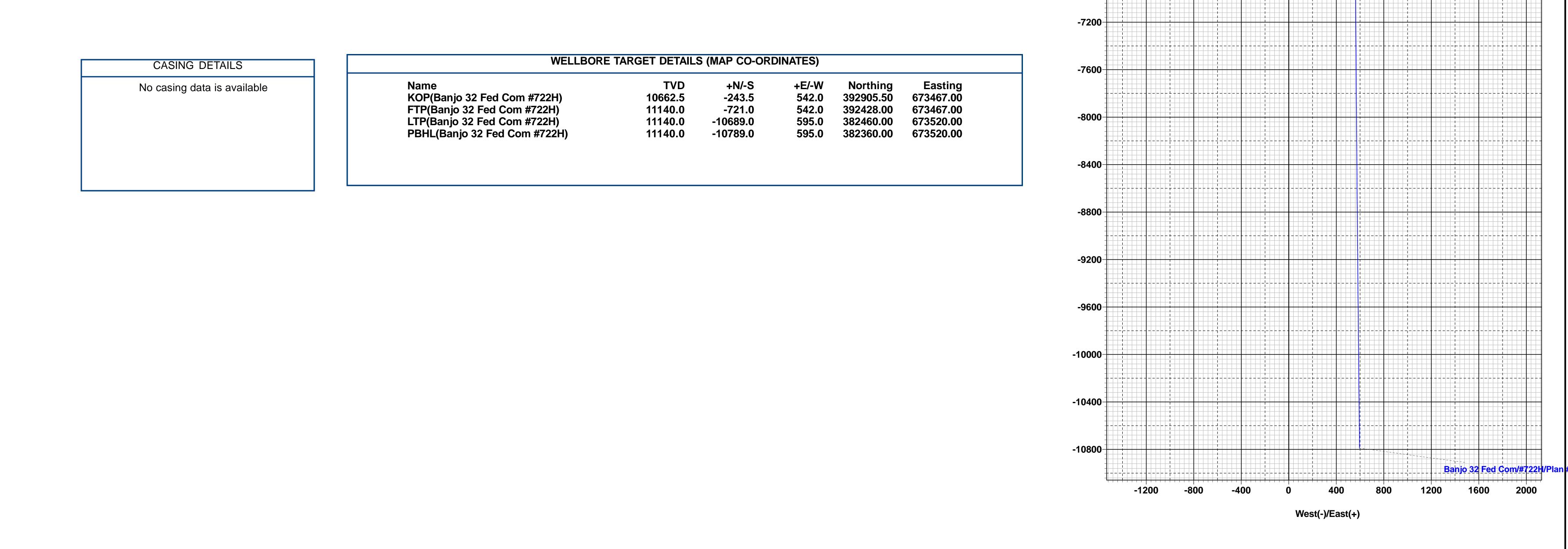
9450

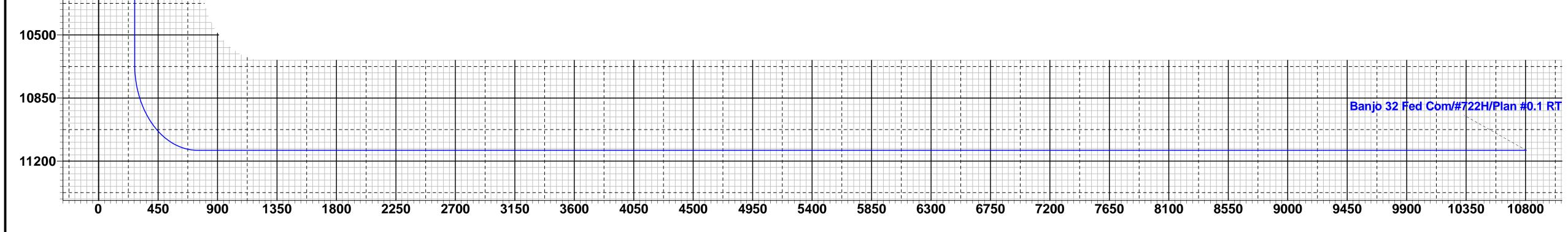
9800-

10150-

True

					v	VELL DET	AILS: #722	ЭН		-3200	
			-			kb =	26' @ 3189	3163.0 9.0usft		-3600	
				Northing 393149.0		Easting 672925.0	0 32	Latittude 2° 4' 48.482 N	Longitude 103° 54' 30.503 W	-4000	
										-4400	
					SEC	tion de	TAILS			-4800	
	D Inc .0 0.00	Azi 0.00	TVD 0.0	+N/-S 0.0	+E/-W 0.0	Dleg 0.00	TFace 0.00	VSect 0.0	Target	€ -5200 €	
2 1200 3 1625 4 5210	.0 0.00 .9 8.52	0.00 114.19 114.19	1200.0 1624.3 5169.7	0.0 -12.9 -230.6	0.0 28.8 513.2	0.00 2.00 0.00	0.00 114.19 0.00	0.0 14.5 258.5		(-) Nort	
5 5636 6 10705 7 11455	.2 0.00	0.00 0.00 180.00	5594.0 10662.5 11140.0	-243.5 -243.5 -721.0	542.0 542.0 542.0	2.00 0.00 12.00	180.00 0.00 180.00	273.0 273.0 749.8	KOP(Banjo 32 Fed Com #722H) FTP(Banjo 32 Fed Com #722H)	-6000	
8 21423 9 21523		179.39 180.61	11140.0 11140.0		595.0 595.0	0.01 1.22	-90.00 90.00	10705.5 10805.4	LTP(Banjo 32 Fed Com #722H) PBHL(Banjo 32 Fed Com #722H)	-6400	





Eddy County, NM (NAD 83 NME) Banjo 32 Fed Com #722H OH Plan #0.1 RT 15:46, April 13 2023

Vertical Section at 176.84°

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.

Page | 1

beog 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.

Page | 3

2/24/2022

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

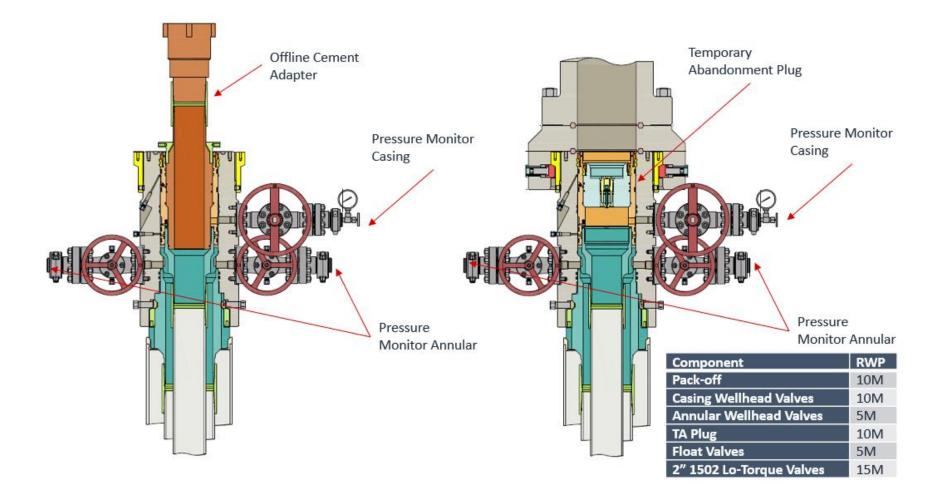


2/24/2022

Page 26 of 30

Page | 5

Offline Intermediate Cementing Procedure



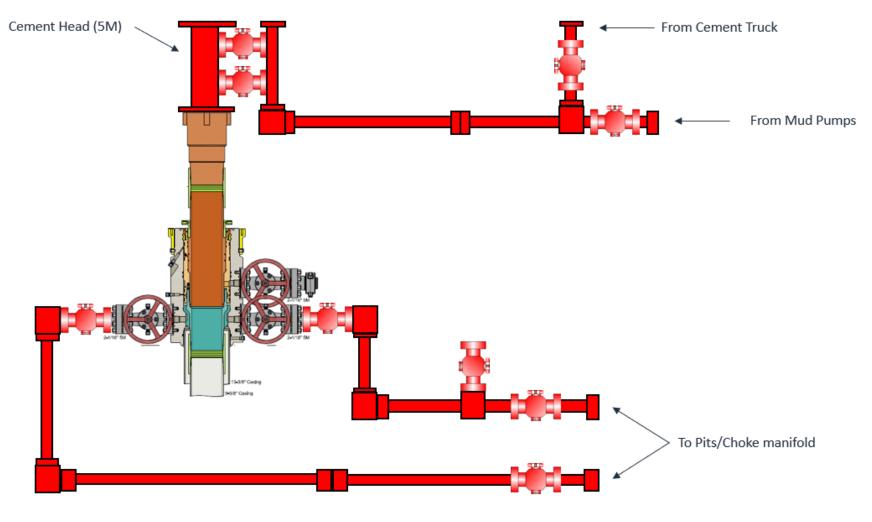
Page 27 of 30

2/24/2022

2/24/2022

Seog resources Offline Intermediate Cementing Procedure





*** All Lines 10M rated working pressure

Page | 7





2/24/2022

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	216968
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	if a bradenhead squeeze is used during cementing, then a CBL is required. All other COS's still apply.	10/18/2023

Page 30 of 30 CONDITIONS

Action 216968