K

Received by OCL): 5/15/2023 12	2:58:05 PM						Page 1 of	
Form 3160-5 (June 2019)		UNITED STATES PARTMENT OF THE INTERI				Ex	OMB No.	PPROVED 1004-0137 ober 31, 2021	
	BUR	EAU OF LAND MANAGEM	IENT			5. Lease Serial No. NMNM102034			
	not use this f	IOTICES AND REPORTS (form for proposals to drill Use Form 3160-3 (APD) fo	or to re-	enter ar		6. If Indian, Allottee or Tribe Name			
	SUBMIT IN	TRIPLICATE - Other instructions c	on page 2			7. If Unit of CA/Agr	ement, N	ame and/or No.	
1. Type of Well			8 Well Name and No						
✓ Oil V				^{'.} BANJO	5 FED COM/778H				
		CES INCORPORATED				9. API Well No. 30-0			
3a. Address 1111	BAGBY SKY LOE	BY 2, HOUSTON, TX 77(3b. Phot (713) 6	ne No. <i>(inclu</i> 51-7000	ıde area coa	de)	10. Field and Pool or PURPLE SAGE; V	-	-	
4. Location of Well SEC 5/T26S/R3		R.,M., or Survey Description)				11. Country or Parish EDDY/NM	, State		
	12. CHE	CK THE APPROPRIATE BOX(ES)	TO INDICA	TE NATUR	E OF NOTI	CE, REPORT OR OT	HER DA1	ĨA.	
TYPE OF SU	JBMISSION			ΤY	YPE OF AC	ΓΙΟΝ			
✓ Notice of Int	ent	Acidize	Deepen Hydraulic	Fracturing	\equiv	uction (Start/Resume) amation		Vater Shut-Off Vell Integrity	
Subsequent I	Report	Casing Repair	New Cons			complete			
Final Abando	onment Notice	Convert to Injection	Plug Back		_	er Disposal			
completion of the completed. Fination is ready for fination for finati	he involved operation al Abandonment No 1 inspection.)	l be perfonned or provide the Bond N ons. If the operation results in a multip tices must be filed only after all requir 778H) API #: 30-015-48193	ple completion	on or recom	pletion in a	new interval, a Form	3160-4 mu	ist be filed once testing has been	
EOG respec the following	, i	amendment to our approved APD	for this we	ll to reflect					
Change nam	ne from Banjo 5 Fe	ed Com 778H to Banjo 5 Fed Com	n 705H.						
•		80-E, Sec 8, 230' FSL, 332' FWL, I ' FSL, 330' FWL, Eddy Co., N.M.	Eddy Co., N	JM,					
Change targ	et formation to We	olfcamp Clastics Y.							
Continued or	n page 3 additiona	linformation							
14. I hereby certify t CRAIG RICHARD		true and correct. Name (Printed/Typ) 686-3600	ed) Title	Regulato	ory Speciali	st			
Signature			Date	3		04/14/2	2023		
		THE SPACE FOR	FEDERA	L OR S	TATE OF	ICE USE			
Approved by									
KEITH P IMMAT	TY / Ph: (575) 988	3-4722 / Approved		ENC Title	GINEER		Date	05/15/2023	
certify that the appli	cant holds legal or e	hed. Approval of this notice does not equitable title to those rights in the sul iduct operations thereon.		Office C	ARLSBAD				

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)

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

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.

either shown below, will be issued by or may be obtained from the local Federal office.

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: NWNW / 321 FNL / 588 FWL / TWSP: 26S / RANGE: 30E / SECTION: 5 / LAT: 32.078159 / LONG: -103.910162 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 330 FNL / 332 FWL / TWSP: 26S / RANGE: 30E / SECTION: 5 / LAT: 32.078132 / LONG: -103.910989 (TVD: 11779 feet, MD: 11907 feet) BHL: SWSW / 230 FSL / 332 FWL / TWSP: 26S / RANGE: 30E / SECTION: 8 / LAT: 32.050456 / LONG: -103.910945 (TVD: 11822 feet, MD: 21981 feet) DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 8115. First St., Artesia, NM 88210 Phone: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Aztee, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

Released

0

Imaging: 10/16/2023 10:28:27 AM

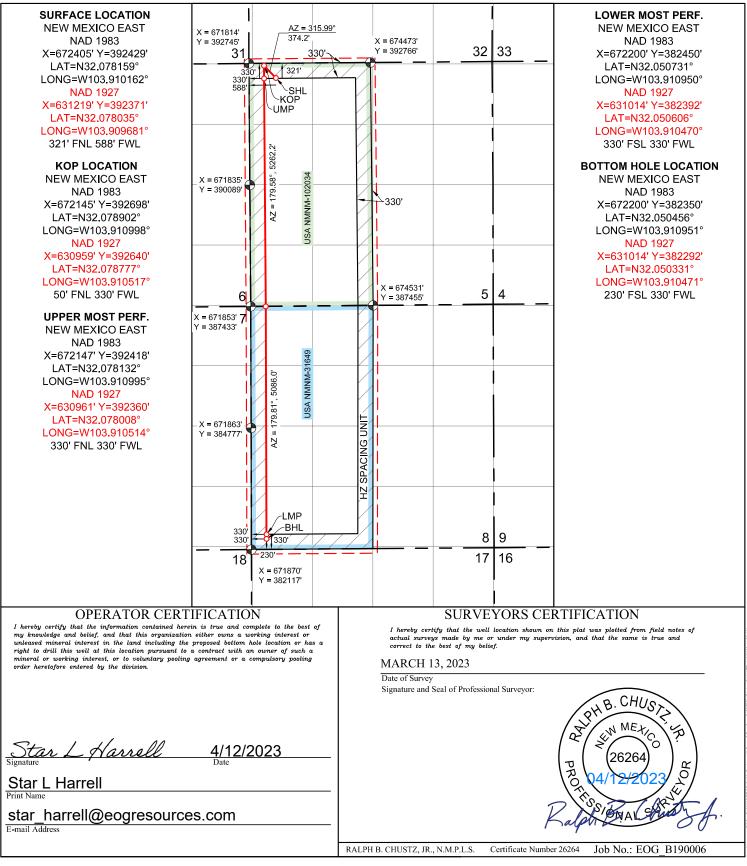
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

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

□ AMENDED REPORT

		WEI	LL LOCA	TIO	N AND A	CREA	GE DEDICAT	TION PLAT			
^ 30-015-4	^{PI Number}			Pool Cod 9822							
Property Code 329888					Prop BANJO	berty Name 5 FED (СОМ			Well Number 705H	
OGRID N 7377					rator Name	S, INC.		Elevation 3136			
	Surface Location										
UL or lot no.	Section	Township	Range	Lot I	dn Feet fr	om the	North/South line	Feet from the	East/West line	County	
D	5	26 S	30 E		32	21	WEST	EDDY			
			Bott	om He	ole Location	If Diffe	erent From Surfac	e			
UL or lot no.	Section	Township	Range	Lot I	dn Feet fr	om the	North/South line	Feet from the	East/West line	County	
М	26 S	30 E		23	230 SOUTH 330			WEST	EDDY		
Dedicated Acres	Joint or	Infill	Consolidated Co	ie	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 5 Fed Com 705H

Revised Permit Information 03/23/2023:

Well Name: Banjo 5 Fed Com 705H

Location: SHL: 321' FNL & 588' FWL, Section 5, T-26-S, R-30-E, Eddy Co., N.M. BHL: 230' FSL & 330' FWL, Section 8, T-26-S, R-30-E, Eddy Co., N.M.

Casing Program:

Hole	Interval MD		Interval TVD		Csg				
Size	From (ft)	To (ft)	From (ft)	From (ft) To (ft)		Weight	Grade	Conn	
12-1/4"	0	1,050	0	1,050	9-5/8"	36#	J-55	LTC	
8-3/4"	0	9,637	0	9,620	7-5/8"	29.7#	HCP-110	FXL	
6-3/4"	0	9,137	0	9,120	5-1/2"	20#	P110-EC	DWC/C IS MS	
6-3/4"	9,137	9,637	9,120	9,620	5-1/2"	20#	P110-EC	Vam Sprint SF	
6-3/4"	9,637	20,990	9,620	10,830	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)
20,990'	1010	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:



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.

Туре	Weight (ppg)	Viscosity	Water Loss	
Fresh - Gel	8.6-8.8	28-34	N/c	
Brine	10.0-10.2	28-34	N/c	
Oil Base	8.7-9.4	58-68	N/c - 6	
Oil Base	10.0-14.0	58-68	4 - 6	
	Fresh - Gel Brine Oil Base	Fresh - Gel 8.6-8.8 Brine 10.0-10.2 Oil Base 8.7-9.4	Fresh - Gel 8.6-8.8 28-34 Brine 10.0-10.2 28-34 Oil Base 8.7-9.4 58-68	

Mud Program:

Seog resources

Banjo 5 Fed Com 705H

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"



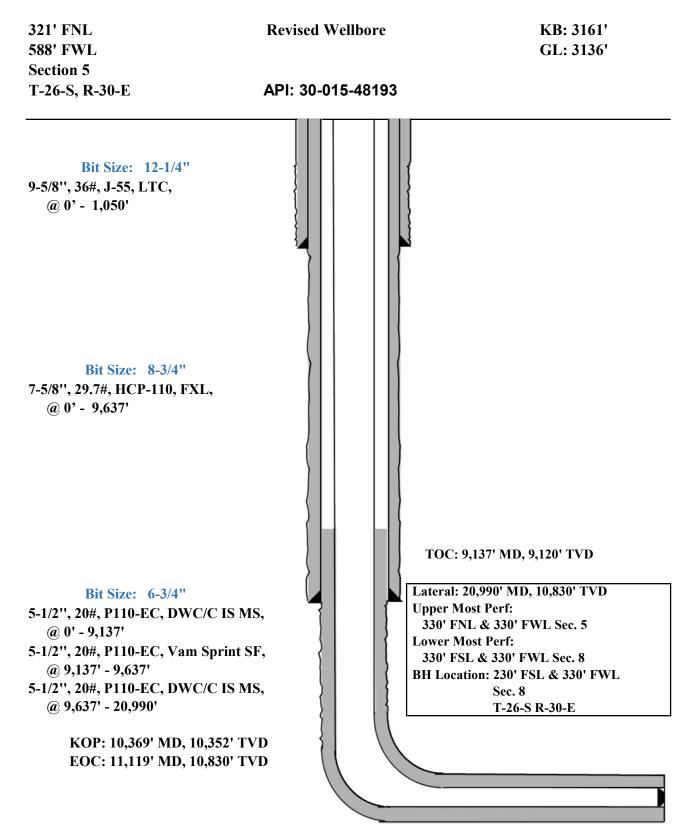
TUBING REQUIREMENTS

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	Interval MD		Interval 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	9,637	0	9,620	8-3/4"	38.5#	P110-EC	SLIJ II NA	
7-7/8"	0	20,990	0	10,830	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)				
20,990'	1660	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.

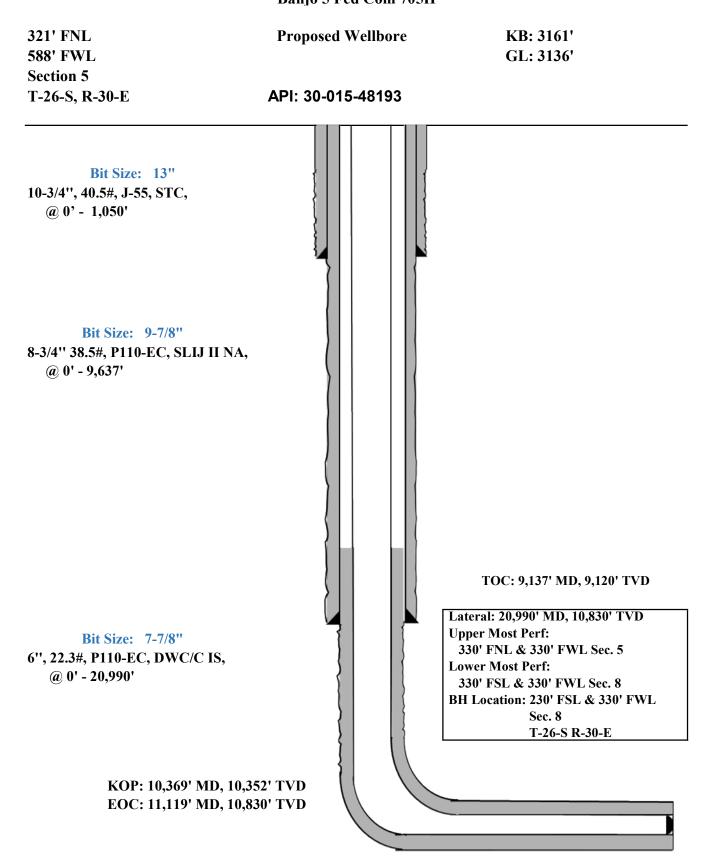
EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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"

eog resources





Midland

Eddy County, NM (NAD 83 NME) Banjo 5 Fed Com #705H

OH

Plan: Plan #0.2

Standard Planning Report

13 April, 2023



Planning Report

Database: Company: Project: Site: Well: Well:	PEDM Midland Eddy County, NI			Local Co-ordi	nate Reference:	Well #705H	
Wellbore: Design:	Banjo 5 Fed Cor #705H OH Plan #0.2	•	NME)	TVD Reference MD Reference North Referen Survey Calcu	e: ::	kb @ 3161.0usft kb @ 3161.0usft Grid Minimum Curvatu	ire
Project	Eddy County, NM	1 (NAD 83 N	ME)				
Geo Datum:	JS State Plane 19 North American Da New Mexico Easte	atum 1983		System Datum:		Mean Sea Level	
Site	Banjo 5 Fed Com	ı					
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	392,301. 676,477. 13-3/	00 usft Longitu		32° 4' 39.950 N 103° 53' 49.257 W
Well	#705H						
	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:	6	92,429.00 usft 72,405.00 usft	Latitude: Longitude:	32° 4' 41.377 N 103° 54' 36.580 W
Position Uncertainty Grid Convergence:		0.0 usft 0.22 °	Wellhead Elev	vation:	usft	Ground Level:	3,136.0 usfi
Wellbore	ОН						
Magnetics	Model Name		Sample Date	Declination (°)	I	Dip Angle (°)	Field Strength (nT)
	IGRF2	2020	7/1/2020		6.80	59.75	47,473.74658493
Design	Plan #0.2						
Audit Notes: Version:			Phase:	PLAN	Tie On Dep	oth: C).0
Vertical Section:		-	rom (TVD) ısft)	+N/-S (usft)	+E/-W (usft)		ction °)
		(0.0	0.0	0.0	181	1.17
Plan Survey Tool Prog Depth From (usft)	Depth To	Date 4/13/2 rvey (Wellb		Tool Name	Rema	arks	
1 0.0		an #0.2 (OH)	•	EOG MWD+IFR1 MWD + IFR1			

Database:	PEDM	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb @ 3161.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3161.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Plan Sections

Measured			Vertical			Dogleg	Build	Turn		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,458.5	5.17	315.97	1,458.1	8.4	-8.1	2.00	2.00	0.00	315.97	
5,352.1	5.17	315.97	5,335.9	260.6	-251.9	0.00	0.00	0.00	0.00	
5,610.5	0.00	0.00	5,594.0	269.0	-260.0	2.00	-2.00	0.00	180.00	
10,369.0	0.00	0.00	10,352.5	269.0	-260.0	0.00	0.00	0.00	0.00	KOP(Banjo 5 Fed Co
10,915.5	65.57	179.59	10,787.2	-11.0	-258.0	12.00	12.00	32.87	179.59	FTP(Banjo 5 Fed Co
11,119.0	90.00	179.70	10,829.9	-208.4	-256.8	12.00	12.00	0.05	0.26	
20,889.7	90.00	179.70	10,830.0	-9,979.0	-205.0	0.00	0.00	0.00	0.00	LTP(Banjo 5 Fed Co
20,989.7	90.00	180.30	10,830.0	-10,079.0	-205.0	0.61	0.00	0.61	89.93	PBHL(Banjo 5 Fed C



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb @ 3161.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3161.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#705H	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	315.97	1,300.0	1.3	-1.2	-1.2	2.00	2.00	0.00
1,400.0	4.00	315.97	1,399.8	5.0	-4.8	-4.9	2.00	2.00	0.00
1,458.5	5.17	315.97	1,458.1	8.4	-8.1	-8.2	2.00	2.00	0.00
1,500.0	5.17	315.97	1,499.5	11.1	-10.7	-10.8	0.00	0.00	0.00
1,600.0	5.17	315.97	1,599.1	17.5	-17.0	-17.2	0.00	0.00	0.00
1,700.0	5.17	315.97	1,698.7	24.0	-23.2	-23.5	0.00	0.00	0.00
1,800.0	5.17	315.97	1,798.3	30.5	-29.5	-29.9	0.00	0.00	0.00
1,900.0	5.17	315.97	1,897.9	37.0	-35.7	-36.2	0.00	0.00	0.00
2,000.0	5.17	315.97	1,997.4	43.5	-42.0	-42.6	0.00	0.00	0.00
2,100.0	5.17	315.97	2,097.0	49.9	-48.3	-48.9	0.00	0.00	0.00
2,200.0	5.17	315.97	2,196.6	56.4	-54.5	-55.3	0.00	0.00	0.00
2,300.0	5.17	315.97	2,296.2	62.9	-60.8	-61.6	0.00	0.00	0.00
2,400.0	5.17	315.97	2,395.8	69.4	-67.1	-68.0	0.00	0.00	0.00
2,500.0	5.17	315.97	2,495.4	75.9	-73.3	-74.3	0.00	0.00	0.00
2,600.0	5.17	315.97	2,595.0	82.3	-79.6	-80.7	0.00	0.00	0.00
2,700.0	5.17	315.97	2,694.6	88.8	-85.8	-87.0	0.00	0.00	0.00
2,800.0	5.17	315.97	2,794.2	95.3	-92.1	-93.4	0.00	0.00	0.00
2,900.0	5.17	315.97	2,893.8	101.8	-98.4	-99.7	0.00	0.00	0.00
3,000.0	5.17	315.97	2,993.4	108.2	-104.6	-106.1	0.00	0.00	0.00
3,100.0	5.17	315.97	3,093.0	114.7	-110.9	-112.4	0.00	0.00	0.00
3,200.0	5.17	315.97	3,192.6	121.2	-117.1	-118.8	0.00	0.00	0.00
3,300.0	5.17	315.97	3,292.2	127.7	-123.4	-125.1	0.00	0.00	0.00
3,400.0	5.17	315.97	3,391.8	134.2	-129.7	-131.5	0.00	0.00	0.00
3,500.0	5.17	315.97	3,491.3	140.6	-135.9	-137.8	0.00	0.00	0.00
3,600.0	5.17	315.97	3,590.9	147.1	-142.2	-144.2	0.00	0.00	0.00
3,700.0	5.17	315.97	3,690.5	153.6	-148.5	-150.5	0.00	0.00	0.00
3,800.0	5.17	315.97	3,790.1	160.1	-154.7	-156.9	0.00	0.00	0.00
3,900.0	5.17	315.97	3,889.7	166.6	-161.0	-163.2	0.00	0.00	0.00
4,000.0	5.17	315.97	3,989.3	173.0	-167.2	-169.6	0.00	0.00	0.00
4,100.0	5.17	315.97	4,088.9	179.5	-173.5	-175.9	0.00	0.00	0.00
4,200.0	5.17	315.97	4,188.5	186.0	-179.8	-182.3	0.00	0.00	0.00
4,300.0	5.17	315.97	4,288.1	192.5	-186.0	-188.6	0.00	0.00	0.00
4,400.0	5.17	315.97	4,387.7	198.9	-192.3	-195.0	0.00	0.00	0.00
4,500.0	5.17	315.97	4,487.3	205.4	-198.5	-201.3	0.00	0.00	0.00
4,600.0	5.17	315.97	4,586.9	211.9	-204.8	-207.7	0.00	0.00	0.00
4,700.0	5.17	315.97	4,686.5	218.4	-211.1	-214.0	0.00	0.00	0.00
4,800.0	5.17	315.97	4,786.1	224.9	-217.3	-220.4	0.00	0.00	0.00
4,900.0	5.17	315.97	4,885.7	231.3	-223.6	-226.7	0.00	0.00	0.00
5,000.0	5.17	315.97	4,985.2	237.8	-229.9	-233.1	0.00	0.00	0.00
5,100.0	5.17	315.97	5,084.8	244.3	-236.1	-239.4	0.00	0.00	0.00
5,200.0	5.17	315.97	5,184.4	250.8	-242.4	-245.8	0.00	0.00	0.00

4/13/2023 2:45:29PM

COMPASS 5000.16 Build 100



Database:	PEDM	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb @ 3161.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3161.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	5.17	315.97	5,284.0	257.2	-248.6	-252.1	0.00	0.00	0.00
5,352.1	5.17	315.97	5,335.9	260.6	-251.9	-255.4	0.00	0.00	0.00
5,400.0	4.21	315.97	5,383.7	263.4	-254.6	-258.2	2.00	-2.00	0.00
5,500.0	2.21	315.97	5,483.5	267.5	-258.5	-262.2	2.00	-2.00	0.00
5,600.0	0.21	315.97	5,583.5	269.0	-260.0	-263.6	2.00	-2.00	0.00
5,610.5	0.00	0.00	5,594.0	269.0	-260.0	-263.7	2.00	-2.00	0.00
5,700.0	0.00	0.00	5,683.5	269.0	-260.0	-263.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,783.5	269.0	-260.0	-263.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,883.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,983.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,083.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,183.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,283.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,383.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,483.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,463.5 6,583.5	269.0	-260.0 -260.0	-263.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,683.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,783.5	269.0	-260.0	-263.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,883.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,983.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,083.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,183.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,283.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,383.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,483.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,583.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,683.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,783.5	269.0	-260.0	-263.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,883.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,983.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,083.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,183.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,283.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,383.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,483.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,583.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,683.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,783.5	269.0	-260.0	-263.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,883.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,983.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,000.0 9,100.0	0.00	0.00	9,083.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,183.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,283.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,383.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,483.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,583.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,683.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,783.5	269.0	-260.0	-263.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,883.5	269.0	-260.0	-263.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,983.5	269.0	-260.0	-263.7	0.00	0.00	0.00
10,000.0	0.00	0.00	10,083.5	269.0	-260.0	-263.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,183.5	269.0	-260.0	-263.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,283.5	269.0	-260.0	-263.7	0.00	0.00	0.00
10,369.0	0.00	0.00	10,352.5	269.0	-260.0	-263.7	0.00	0.00	0.00

4/13/2023 2:45:29PM

.



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #705H	
Company:	Midland	TVD Reference:	kb @ 3161.0usft	
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3161.0usft	
Site:	Banjo 5 Fed Com	North Reference:	Grid	
Well:	#705H	Survey Calculation Method:	Minimum Curvature	
Wellbore:	ОН			
Design:	Plan #0.2			

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,375.0	0.72	179.59	10,358.5	269.0	-260.0	-263.6	12.00	12.00	0.00
10,400.0	3.72	179.59	10,383.4	268.0	-260.0	-262.7	12.00	12.00	0.00
10,425.0	6.72	179.59	10,408.3	265.7	-260.0	-260.4	12.00	12.00	0.00
10,450.0	9.72	179.59	10,433.1	262.2	-260.0	-256.8	12.00	12.00	0.00
10,475.0	12.72	179.59	10,457.6	257.3	-259.9	-252.0	12.00	12.00	0.00
10,500.0	15.72	179.59	10,481.8	251.2	-259.9	-245.8	12.00	12.00	0.00
10,525.0	18.72	179.59	10,505.7	243.8	-259.8	-238.4	12.00	12.00	0.00
10,550.0	21.72	179.59	10,529.2	235.1	-259.8	-229.8	12.00	12.00	0.00
10,550.0	24.72	179.59	10,552.1	225.3	-259.0	-229.0	12.00	12.00	0.00
10,575.0	24.72	179.59	10,574.6	214.2	-259.6	-208.9	12.00	12.00	0.00
10,625.0	30.72	179.59	10,596.4	202.0	-259.5	-196.7	12.00	12.00	0.0
10,650.0	33.72	179.59	10,617.5	188.7	-259.4	-183.4	12.00	12.00	0.0
10,675.0	36.72	179.59	10,637.9	174.3	-259.3	-169.0	12.00	12.00	0.0
10,700.0	39.72	179.59	10,657.6	158.8	-259.2	-153.5	12.00	12.00	0.0
10,725.0	42.72	179.59	10,676.4	142.3	-259.1	-137.0	12.00	12.00	0.0
10,750.0	45.72	179.59	10,694.3	124.9	-259.0	-119.6	12.00	12.00	0.0
10,775.0	48.72	179.59	10,711.3	106.6	-258.8	-101.3	12.00	12.00	0.0
10,800.0	51.72	179.59	10,727.3	87.3	-258.7	-82.1	12.00	12.00	0.0
10,825.0	54.72	179.59	10,742.2	67.3	-258.6	-62.1	12.00	12.00	0.0
10,850.0	57.72	179.59	10,756.1	46.6	-258.4	-41.3	12.00	12.00	0.0
10,875.0	60.72	179.59	10,768.9	25.1	-258.3	-19.8	12.00	12.00	0.0
10,900.0	63.72	179.59	10,780.6	3.0	-258.1	2.3	12.00	12.00	0.0
10,915.5	65.57	179.59	10,787.2	-11.0	-258.0	16.2	12.00	12.00	0.0
10,925.0	66.72	179.60	10,791.1	-19.7	-257.9	25.0	12.00	12.00	0.0
10,920.0	69.72	179.61	10,800.3	-42.9	-257.8	48.2	12.00	12.00	0.0
10,930.0	72.72	179.62	10,808.4	-66.6	-257.6	71.8	12.00	12.00	0.0
11,000.0	75.72	179.62	10,808.4	-00.0	-257.5	95.9	12.00	12.00	0.0
11,000.0	15.12	179.04	10,615.2	-90.7	-257.5	95.9	12.00	12.00	0.0
11,025.0	78.72	179.65	10,820.7	-115.0	-257.3	120.3	12.00	12.00	0.0
11,050.0	81.72	179.66	10,825.0	-139.7	-257.2	144.9	12.00	12.00	0.0
11,075.0	84.72	179.67	10,827.9	-164.5	-257.0	169.7	12.00	12.00	0.0
11,100.0	87.72	179.69	10,829.6	-189.4	-256.9	194.6	12.00	12.00	0.0
11,119.0	90.00	179.70	10,829.9	-208.4	-256.8	213.6	12.00	12.00	0.0
11,200.0	90.00	179.70	10,829.9	-289.4	-256.4	294.6	0.00	0.00	0.0
11,300.0	90.00	179.70	10,829.9	-389.4	-255.8	394.6	0.00	0.00	0.0
11,400.0	90.00	179.70	10,829.9	-489.4	-255.3	494.5	0.00	0.00	0.0
11,500.0	90.00	179.70	10,829.9	-589.4	-254.8	594.5	0.00	0.00	0.0
11,600.0	90.00	179.70	10,829.9	-689.4	-254.2	694.5	0.00	0.00	0.0
11,700.0	90.00	179.70	10,829.9	-789.4	-253.7	794.4	0.00	0.00	0.0
11,800.0	90.00	179.70	10,829.9	-889.4	-253.2	894.4	0.00	0.00	0.0
11,900.0	90.00	179.70	10,829.9	-989.4	-252.6	994.4	0.00	0.00	0.0
12,000.0	90.00	179.70	10,829.9	-1,089.4	-252.0	1,094.3	0.00	0.00	0.0
12,000.0	90.00	179.70	10,829.9	-1,189.4	-251.6	1,194.3	0.00	0.00	0.0
12,200.0	90.00	179.70	10,829.9	-1,289.4	-251.1	1,294.3	0.00	0.00	0.0
12,300.0	90.00	179.70	10,829.9	-1,389.4	-250.5	1,394.2	0.00	0.00	0.0
12,400.0	90.00	179.70	10,829.9	-1,489.4	-250.0	1,494.2	0.00	0.00	0.0
12,500.0	90.00	179.70	10,829.9	-1,589.4	-249.5	1,594.2	0.00	0.00	0.0
12,600.0	90.00	179.70	10,829.9	-1,689.4	-248.9	1,694.1	0.00	0.00	0.0
				1 700 4					
12,700.0	90.00	179.70	10,829.9	-1,789.4	-248.4	1,794.1	0.00	0.00	0.0
12,800.0	90.00	179.70	10,829.9	-1,889.4	-247.9	1,894.1	0.00	0.00	0.0
12,900.0	90.00	179.70	10,829.9	-1,989.4	-247.3	1,994.0	0.00	0.00	0.0
13,000.0	90.00	179.70	10,829.9	-2,089.4	-246.8	2,094.0	0.00	0.00	0.0
13,100.0	90.00	179.70	10,829.9	-2,189.4	-246.3	2,194.0	0.00	0.00	0.0
13,200.0	90.00	179.70	10,829.9	-2,289.4	-245.8	2,293.9	0.00	0.00	0.0
13,300.0	90.00	179.70	10,829.9	-2,389.4	-245.2	2,393.9	0.00	0.00	0.0

4/13/2023 2:45:29PM

Page 6

COMPASS 5000.16 Build 100

.



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb @ 3161.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3161.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	179.70	10,829.9	-2,489.4	-244.7	2,493.9	0.00	0.00	0.00
13,500.0	90.00	179.70	10,830.0	-2,589.4	-244.2	2,593.8	0.00	0.00	0.00
13,600.0	90.00	179.70	10,830.0	-2,689.4	-243.6	2,693.8	0.00	0.00	0.00
13,700.0	90.00	179.70	10,830.0	-2,789.4	-243.1	2,793.8	0.00	0.00	0.00
13,800.0	90.00	179.70	10,830.0	-2,889.4	-242.6	2,893.7	0.00	0.00	0.00
13,900.0	90.00	179.70	10,830.0	-2,989.4	-242.0	2,993.7	0.00	0.00	0.00
14,000.0	90.00	179.70	10,830.0	-3,089.4	-241.5	3,093.7	0.00	0.00	0.00
14,100.0	90.00	179.70	10,830.0	-3,189.4	-241.0	3,193.6	0.00	0.00	0.00
14,200.0	90.00	179.70	10,830.0	-3,289.4	-240.5	3,293.6	0.00	0.00	0.00
14,300.0	90.00	179.70	10,830.0	-3,389.4	-239.9	3,393.6	0.00	0.00	0.00
14,400.0	90.00	179.70	10,830.0	-3,489.4	-239.4	3,493.5	0.00	0.00	0.00
14,500.0	90.00	179.70	10,830.0	-3,589.4	-238.9	3,593.5	0.00	0.00	0.00
14,600.0	90.00	179.70	10,830.0	-3,689.4	-238.3	3,693.5	0.00	0.00	0.00
14,700.0	90.00	179.70	10,830.0	-3,789.4	-237.8	3,793.4	0.00	0.00	0.00
14,800.0	90.00	179.70	10,830.0	-3,889.4	-237.3	3,893.4	0.00	0.00	0.00
14,900.0	90.00	179.70	10,830.0	-3,989.4	-236.7	3,993.4	0.00	0.00	0.00
15,000.0	90.00	179.70	10,830.0	-4,089.4	-236.2	4,093.3	0.00	0.00	0.00
15,100.0	90.00	179.70	10,830.0	-4,189.4	-235.7	4,193.3	0.00	0.00	0.00
15,200.0	90.00	179.70	10,830.0	-4,289.4	-235.2	4,293.3	0.00	0.00	0.00
15,300.0	90.00	179.70	10,830.0	-4,389.4	-234.6	4,393.2	0.00	0.00	0.00
15,400.0	90.00	179.70	10,830.0	-4,489.4	-234.1	4,493.2	0.00	0.00	0.00
15,500.0	90.00	179.70	10,830.0	-4,589.4	-233.6	4,593.2	0.00	0.00	0.00
15,600.0	90.00	179.70	10,830.0	-4,689.4	-233.0	4,693.1	0.00	0.00	0.00
15,700.0	90.00	179.70	10,830.0	-4,789.4	-232.5	4,793.1	0.00	0.00	0.00
15,800.0	90.00	179.70	10,830.0	-4,889.4	-232.0	4,893.1	0.00	0.00	0.00
15,900.0	90.00	179.70	10,830.0	-4,989.4	-231.4	4,993.0	0.00	0.00	0.00
16,000.0	90.00	179.70	10,830.0	-5,089.4	-230.9	5,093.0	0.00	0.00	0.00
16,100.0	90.00	179.70	10,830.0	-5,189.4	-230.4	5,193.0	0.00	0.00	0.00
16,200.0	90.00	179.70	10,830.0	-5,289.4	-229.9	5,292.9	0.00	0.00	0.00
16,300.0	90.00	179.70	10,830.0	-5,389.4	-229.3	5,392.9	0.00	0.00	0.00
16,400.0	90.00	179.70	10,830.0	-5,489.4	-228.8	5,492.9	0.00	0.00	0.00
16,500.0	90.00	179.70	10,830.0	-5,589.4	-228.3	5,592.8	0.00	0.00	0.00
16,600.0	90.00	179.70	10,830.0	-5,689.4	-227.7	5,692.8	0.00	0.00	0.00
16,700.0	90.00	179.70	10,830.0	-5,789.4	-227.2	5,792.8	0.00	0.00	0.00
16,800.0	90.00	179.70	10,830.0	-5,889.4	-226.7	5,892.7	0.00	0.00	0.00
16,900.0	90.00	179.70	10,830.0	-5,989.4	-226.1	5,992.7	0.00	0.00	0.00
17,000.0	90.00	179.70	10,830.0	-6,089.4	-225.6	6,092.7	0.00	0.00	0.00
17,100.0	90.00	179.70	10,830.0	-6,189.4	-225.1	6,192.6	0.00	0.00	0.00
17,200.0	90.00	179.70	10,830.0	-6,289.4	-224.6	6,292.6	0.00	0.00	0.00
17,300.0	90.00	179.70	10,830.0	-6,389.3	-224.0	6,392.6	0.00	0.00	0.00
17,400.0	90.00	179.70	10,830.0	-6,489.3	-223.5	6,492.6	0.00	0.00	0.00
17,500.0	90.00	179.70	10,830.0	-6,589.3	-223.0	6,592.5	0.00	0.00	0.00
17,600.0	90.00	179.70	10,830.0	-6,689.3	-222.4	6,692.5	0.00	0.00	0.00
17,700.0	90.00	179.70	10,830.0	-6,789.3	-221.9	6,792.5	0.00	0.00	0.00
17,800.0	90.00	179.70	10,830.0	-6,889.3	-221.4	6,892.4	0.00	0.00	0.00
17,900.0	90.00	179.70	10,830.0	-6,989.3	-220.8	6,992.4	0.00	0.00	0.00
18,000.0	90.00	179.70	10,830.0	-7,089.3	-220.3	7,092.4	0.00	0.00	0.00
18,100.0	90.00	179.70	10,830.0	-7,189.3	-219.8	7,192.3	0.00	0.00	0.00
18,200.0	90.00	179.70	10,830.0	-7,289.3	-219.3	7,292.3	0.00	0.00	0.00
18,300.0	90.00	179.70	10,830.0	-7,389.3	-218.7	7,392.3	0.00	0.00	0.00
18,400.0	90.00	179.70	10,830.0	-7,489.3	-218.2	7,492.2	0.00	0.00	0.00
18,500.0	90.00	179.70	10,830.0	-7,589.3	-217.7	7,592.2	0.00	0.00	0.00
18,600.0	90.00	179.70	10,830.0	-7,689.3	-217.1	7,692.2	0.00	0.00	0.00
18,700.0	90.00	179.70	10,830.0	-7,789.3	-216.6	7,792.1	0.00	0.00	0.00

4/13/2023 2:45:29PM

.

Database:	PEDM	Local Co-ordinate Reference:	Well #705H
Company:	Midland	TVD Reference:	kb @ 3161.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	kb @ 3161.0usft
Site:	Banjo 5 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,800.0	90.00	179.70	10,830.0	-7,889.3	-216.1	7,892.1	0.00	0.00	0.00
18,900.0	90.00	179.70	10,830.0	-7,989.3	-215.5	7,992.1	0.00	0.00	0.00
19,000.0	90.00	179.70	10,830.0	-8,089.3	-215.0	8,092.0	0.00	0.00	0.00
19,100.0	90.00	179.70	10,830.0	-8,189.3	-214.5	8,192.0	0.00	0.00	0.00
19,200.0	90.00	179.70	10,830.0	-8,289.3	-214.0	8,292.0	0.00	0.00	0.00
19,300.0	90.00	179.70	10,830.0	-8,389.3	-213.4	8,391.9	0.00	0.00	0.00
19,400.0	90.00	179.70	10,830.0	-8,489.3	-212.9	8,491.9	0.00	0.00	0.00
19,500.0	90.00	179.70	10,830.0	-8,589.3	-212.4	8,591.9	0.00	0.00	0.00
19,600.0	90.00	179.70	10,830.0	-8,689.3	-211.8	8,691.8	0.00	0.00	0.00
19,700.0	90.00	179.70	10,830.0	-8,789.3	-211.3	8,791.8	0.00	0.00	0.00
19,800.0	90.00	179.70	10,830.0	-8,889.3	-210.8	8,891.8	0.00	0.00	0.00
19,900.0	90.00	179.70	10,830.0	-8,989.3	-210.2	8,991.7	0.00	0.00	0.00
20,000.0	90.00	179.70	10,830.0	-9,089.3	-209.7	9,091.7	0.00	0.00	0.00
20,100.0	90.00	179.70	10,830.0	-9,189.3	-209.2	9,191.7	0.00	0.00	0.00
20,200.0	90.00	179.70	10,830.0	-9,289.3	-208.7	9,291.6	0.00	0.00	0.00
20,300.0	90.00	179.70	10,830.0	-9,389.3	-208.1	9,391.6	0.00	0.00	0.00
20,400.0	90.00	179.70	10,830.0	-9,489.3	-207.6	9,491.6	0.00	0.00	0.00
20,500.0	90.00	179.70	10,830.0	-9,589.3	-207.1	9,591.5	0.00	0.00	0.00
20,600.0	90.00	179.70	10,830.0	-9,689.3	-206.5	9,691.5	0.00	0.00	0.00
20,700.0	90.00	179.70	10,830.0	-9,789.3	-206.0	9,791.5	0.00	0.00	0.00
20,800.0	90.00	179.70	10,830.0	-9,889.3	-205.5	9,891.4	0.00	0.00	0.00
20,889.7	90.00	179.70	10,830.0	-9,979.0	-205.0	9,981.1	0.00	0.00	0.00
20,900.0	90.00	179.76	10,830.0	-9,989.3	-205.0	9,991.4	0.61	0.00	0.61
20,989.7	90.00	180.30	10.830.0	-10,079.0	-205.0	10.081.1	0.61	0.00	0.61

Design Targets

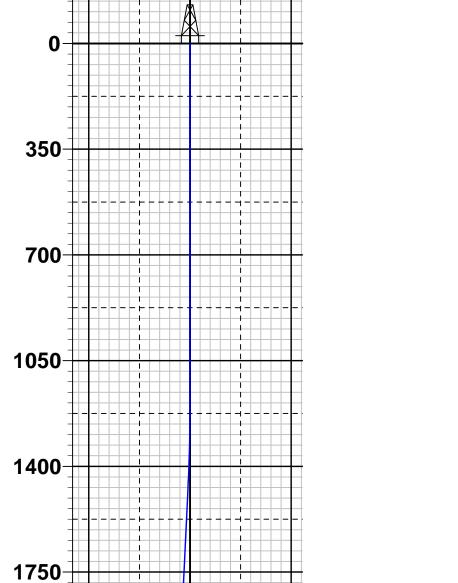
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Banjo 5 Fed Com# - plan hits target cente - Point	0.00 er	0.00	10,352.5	269.0	-260.0	392,698.00	672,145.00	32° 4' 44.049 N	103° 54' 39.589 W
FTP(Banjo 5 Fed Com#; - plan hits target cente - Point	0.00 er	0.00	10,787.2	-11.0	-258.0	392,418.00	672,147.00	32° 4' 41.278 N	103° 54' 39.579 W
LTP(Banjo 5 Fed Com#7 - plan hits target cento - Point	0.00 er	0.00	10,830.0	-9,979.0	-205.0	382,450.00	672,200.00	32° 3' 2.633 N	103° 54' 39.416 W
PBHL(Banjo 5 Fed Com - plan hits target cente - Point	0.00 er	0.00	10,830.0	-10,079.0	-205.0	382,350.00	672,200.00	32° 3' 1.643 N	103° 54' 39.421 W

4/13/2023 2:45:29PM

eogresources

G

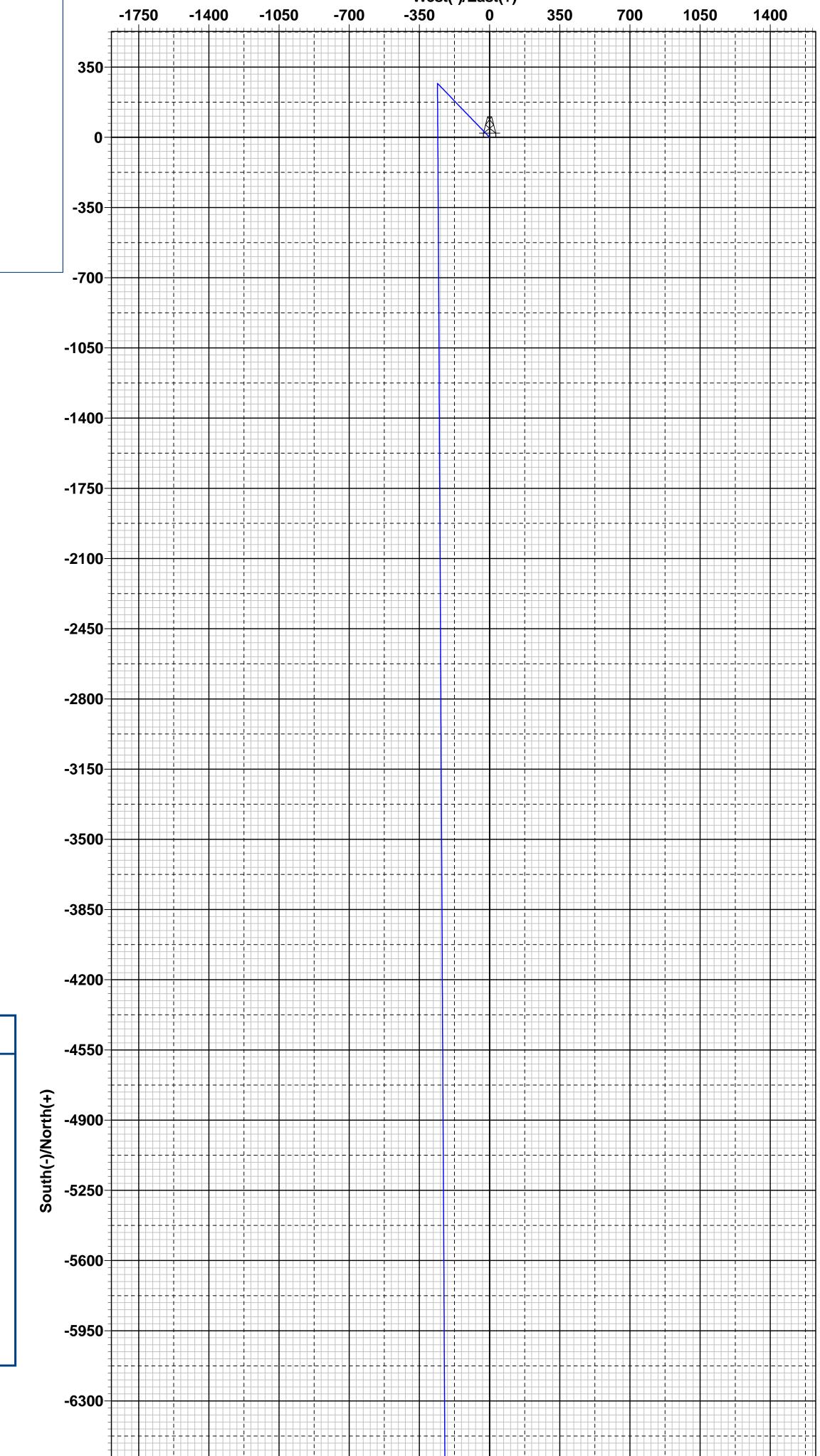
Ν



Eddy County, NM (NAD 83 NME) West(-)/East(+) -700 -350 -1750 -1400 -1050 Banjo 5 Fed Com #705H 350-Plan #0.2 **Azimuths to Grid North** $\mathbf{F} \rightarrow \mathbf{F} \rightarrow \mathbf{F} \rightarrow \mathbf{F} \rightarrow \mathbf{F}$ ----- - -True North: -0.22° -350 Magnetic North: 6.58° **Magnetic Field** -700 Strength: 47473.7nT Dip Angle: 59.75° Date: 7/1/2020 -1050 Model: IGRF2020 PROJECT DETAILS: Eddy County, NM (NAD 83 NME) ---+ ----Geodetic System: US State Plane 1983 -1400-Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 6.58° To convert a Magnetic Direction to a True Direction, Add 6.80° East To convert a True Direction to a Grid Direction, Subtract 0.22°



						I	NELL DE	FAILS: #7	05H		
					Northing 392429.00		Easting 672405.00	o @ 3161.) 3	Latittude S2° 4' 41.377 N	Longitude 103° 54' 36.580 W	
				L							
						SECT	ION DE	TAILS			
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00			
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00			
3	1458.5	5.17	315.97	1458.1	8.4	-8.1	2.00	315.97			
4	5352.1	5.17	315.97	5335.9	260.6	-251.9	0.00	0.00			
5	5610.5	0.00	0.00	5594.0	269.0	-260.0	2.00	180.00	-263.7		
6	10369.0	0.00	0.00	10352.5	269.0	-260.0	0.00	0.00	-263.7	KOP(Banjo 5 F	ed Com#778H)
7	10915.5	65.57	179.59	10787.2	-11.0	-258.0	12.00	179.59	16.2	``	ed Com#778H)
8	11119.0	90.00	179.70	10829.9	-208.4	-256.8	12.00	0.26			
9	20889.7	90.00	179.70	10830.0	-9979.0	-205.0	0.00	0.00	9981.1	LTP(Banjo 5 F	ed Com#778H)
10	20989.7	90.00	180.30	10830.0	-10079.0	-205.0	0.61	89.93	10081.1	``	Fed Com#778H)

4550

2100

2450

2800-

3150

3500-

3850-

4200-

<u> 왕</u> 5600-

5950-

6300-

6650-

7000-

7350-

7700

8050-

8400-

8750-

9100-

9450-

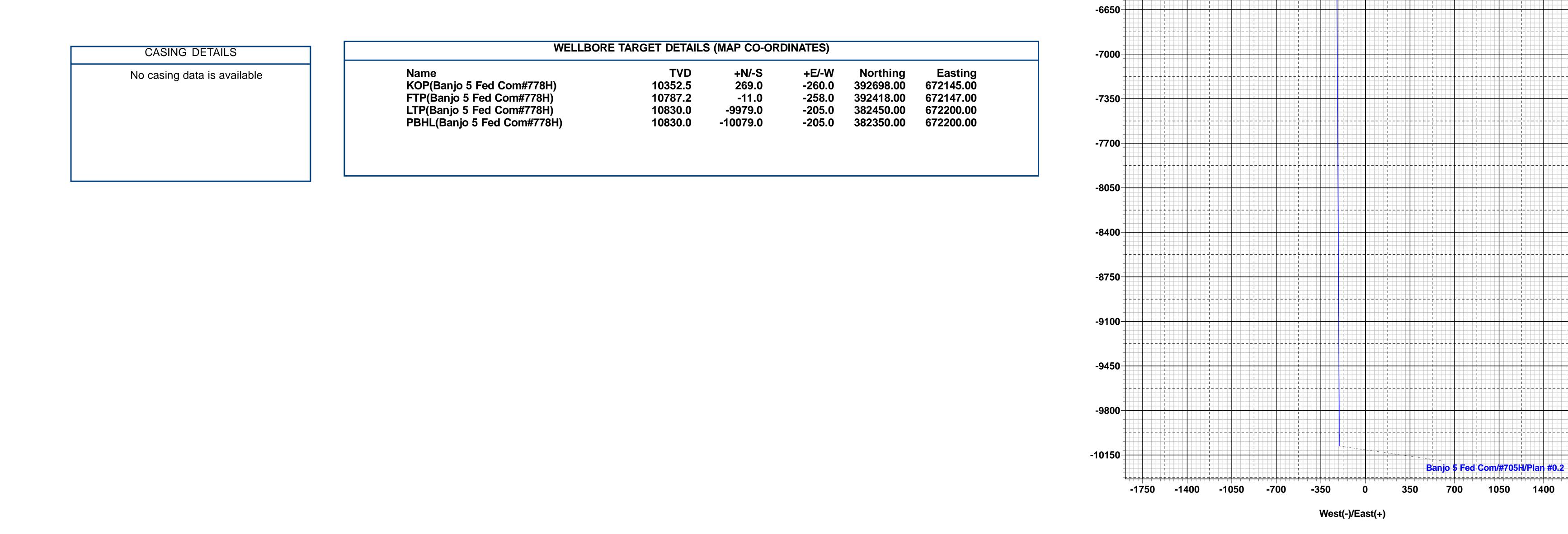
9800-

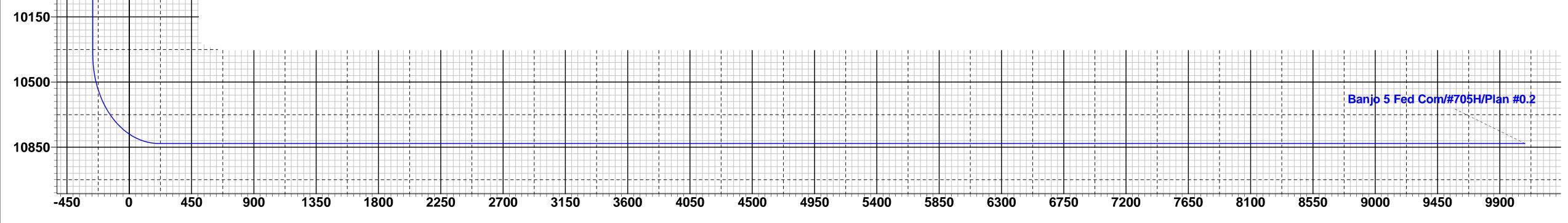
++++

1

- - - - -

- - - - -





Eddy County, NM (NAD 83 NME) Banjo 5 Fed Com #705H OH Plan #0.2 14:44, April 13 2023

Vertical Section at 181.17°

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

Page 23 of 30

2/24/2022

Seog resources

Offline Intermediate Cementing Procedure

- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
- 9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 3.
- 10. Remove TA Plug from the casing.
- 11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
- 12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
- 13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
- 14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
- 15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
- 16. Remove offline cement tool.
- 17. Install night cap with pressure gauge for monitoring.
- 18. Test night cap to 5,000 psi for 10 min.

Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the <u>5M MASP (Maximum Allowable Surface Pressure) portion of the well</u>, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.

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

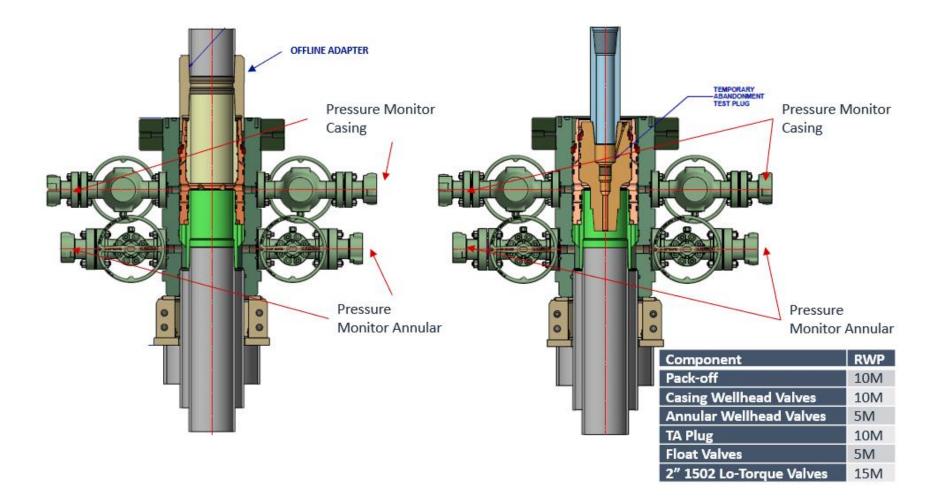
General Procedure After Cementing

- 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

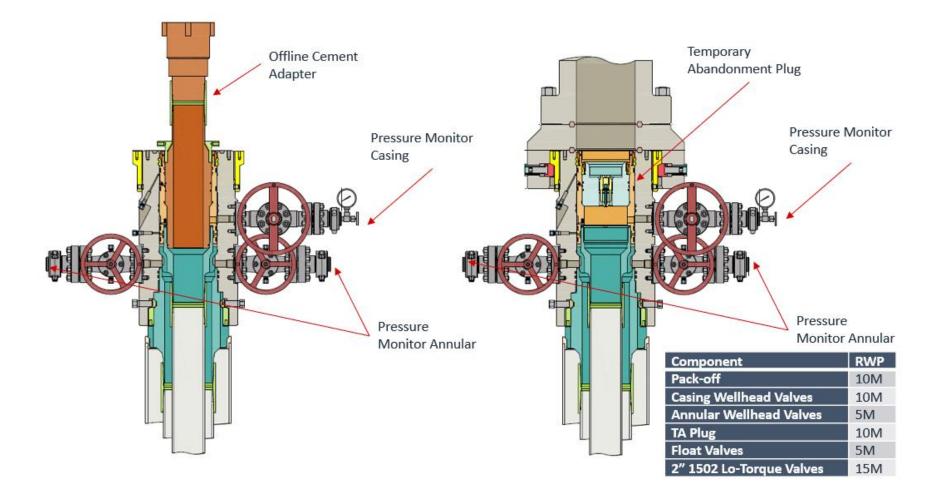
Figure 1: Cameron TA Plug and Offline Adapter Schematic



2/24/2022

Offline Intermediate Cementing Procedure



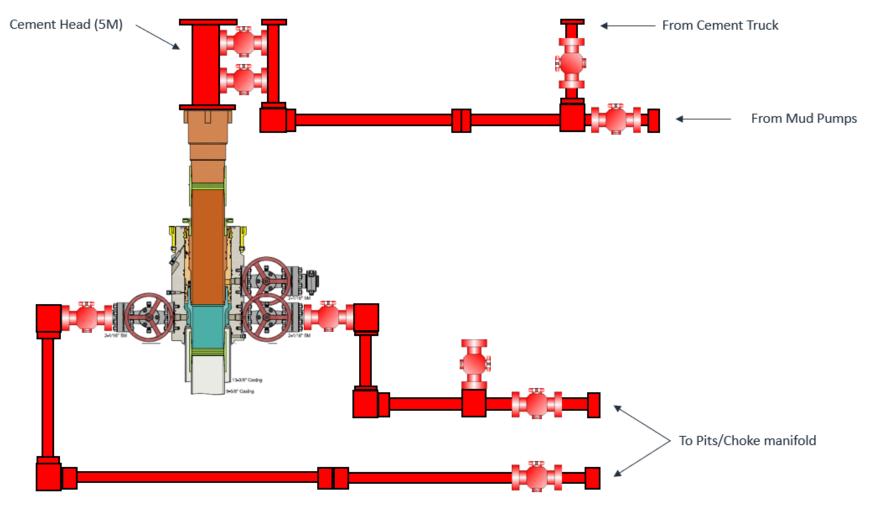


2/24/2022

2/24/2022

Seog resources Offline Intermediate Cementing Procedure



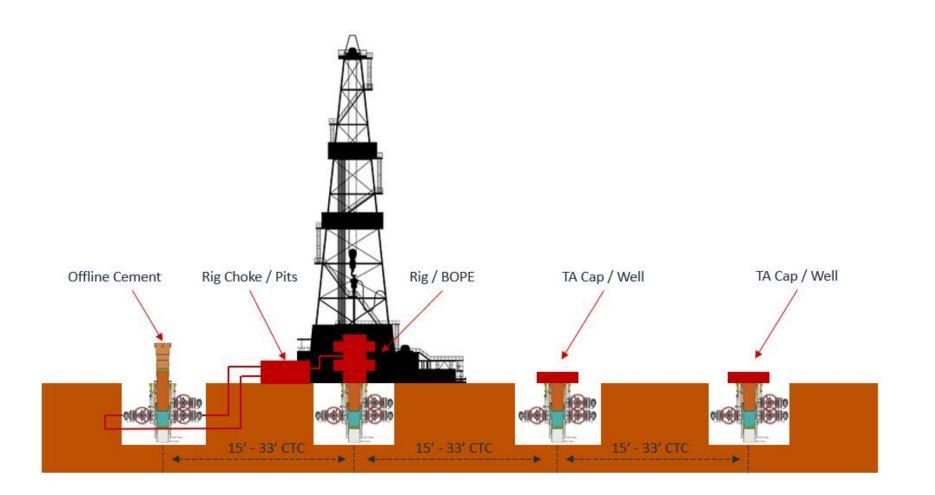


*** All Lines 10M rated working pressure

Page | 7

Offline Intermediate Cementing Procedure





Page | 8

^{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

	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	216930
	Action Type:
	[C-103] NOI Change of Plans (C-103A)
CONDITIONS	

Created By	Condition	Condition Date	
ward.rikala	Original COA's still apply	10/16/2023	

CONDITIONS

Page 30 of 30

.

Action 216930