Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUR	EAU OF LAND MANAGE	5. Lease Serial No. NM	5. Lease Serial No. NMNM102034		
Do not use this	NOTICES AND REPORTS form for proposals to dr Use Form 3160-3 (APD)	6. If Indian, Allottee or	Tribe Name		
	TRIPLICATE - Other instructions	s on page 2		7. If Unit of CA/Agreen	nent, Name and/or No.
1. Type of Well Oil Well Gas V	Well Other			8. Well Name and No.	BANJO 5 FED COM/775H
2. Name of Operator EOG RESOUR	CES INCORPORATED			9. API Well No. 30-015	i-48195
3a. Address 1111 BAGBY SKY LOE	3D1 2, 110001011, 171111	none No. (include are	a code)	10. Field and Pool or Ex PURPLE SAGE; WC	•
4. Location of Well (Footage, Sec., T.,I SEC 5/T26S/R30E/NMP	R.,M., or Survey Description)			11. Country or Parish, S EDDY/NM	tate
12. CHE	CCK THE APPROPRIATE BOX(ES	S) TO INDICATE NA	TURE OF NO	ΓΙCE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION			TYPE OF A	CTION	
Notice of Intent	Acidize Alter Casing Casing Repair	Deepen Hydraulic Fractu New Construction	ring Re	eduction (Start/Resume)	Water Shut-Off Well Integrity Other
Subsequent Report Final Abandonment Notice	Change Plans Convert to Injection	Plug and Abando Plug Back	n Ter	nporarily Abandon ter Disposal	<u> </u>
the Bond under which the work will completion of the involved operation	ally or recomplete horizontally, give Il be perfonned or provide the Bond ons. If the operation results in a mu	e subsurface locations l No. on file with BLI ltiple completion or r	and measured M/BIA. Require ecompletion in	and true vertical depths of ed subsequent reports must a new interval, a Form 316	all pertinent markers and zones. Attach
Banjo 5 Fed Com 709H (FKA	775H) API #: 30-015-48195				
EOG respectfully requests an the following changes:	amendment to our approved AF	PD for this well to re	flect		
Change name from Banjo 5 F	ed Com 775H to Banjo 5 Fed Co	om 709H.			
•	30-E, Sec 8, 230' FSL, 2310' FW ' FSL, 2090' FWL, Eddy Co., N.I				
Change target formation to W	olfcamp Clastics Y.				
Continued on page 3 additiona					
14. I hereby certify that the foregoing is CRAIG RICHARDSON / Ph: (432)	· · · · · · · · · · · · · · · · · · ·		ulatory Specia	ilist	
Signature		Date		04/14/202	23
	THE SPACE FOI	PEPERALO	R STATE O	EICE LISE	

THE SPACE FOR FEDERAL OR STATE OFICE US

Approved by

KEITH P IMMATTY / Ph: (575) 988-4722 / Approved

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

ENGINEER

Date

O5/15/2023

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

Update casing and cement program to current design.

Location of Well

 $0. \ SHL: \ NWNE \ / \ 361 \ FNL \ / \ 2251 \ FEL \ / \ TWSP: \ 26S \ / \ RANGE: \ 30E \ / \ SECTION: \ 5 \ / \ LAT: \ 32.078077 \ / \ LONG: \ -103.902153 \ (\ TVD: \ 0 \ feet \ , \ MD: \ 0 \ feet \)$ $PPP: \ NENW \ / \ 330 \ FNL \ / \ 2310 \ FWL \ / \ TWSP: \ 26S \ / \ RANGE: \ 30E \ / \ SECTION: \ 5 \ / \ LAT: \ 32.078154 \ / \ LONG: \ -103.904602 \ (\ TVD: \ 11779 \ feet \ , \ MD: \ 21071 \ feet \)$ $BHL: \ SESW \ / \ 2310 \ FWL \ / \ TWSP: \ 26S \ / \ RANGE: \ 30E \ / \ SECTION: \ 8 \ / \ LAT: \ 32.050476 \ / \ LONG: \ -103.90456 \ (\ TVD: \ 11822 \ feet \ , \ MD: \ 22046 \ feet \)$

DISTRICT I
French Dr., Hobbs, NM 88240 DISTRICT II DISTRICT III DISTRICT IV

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

OCD: 5/15/2023 1:51:19 PM

WELL LOCATION AND ACREAGE DEDICATION PLAT

	WEEE ECCITION THIS IN	CREAGE DEDICATION LEAT			
API Number	Pool Code	Pool Name			
30-015 - 48195	98220	Purple Sage; Wolfca	mp (Gas)		
Property Code	Property Name Well Number				
329888	BANJO 5 FED COM 709H				
OGRID No.	Operator Name Elevation				
7377	EOG RESOURCES, INC. 3160'				
•	Camfaa	Lagation			

a c	T . *
Viletogo	Logotion
SHILACE	Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	5	26 S	30 E		361	NORTH	2251	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	8	26 S	30 E		230	SOUTH	2090	WEST	EDDY
Dedicated Acres	Joint or	Infill	Consolidated Co	de Orde	r No.				
640				PE	NDING COM A	GREEMENT			

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.

SURFACE LOCATION LOWER MOST PERF. **NEW MEXICO EAST NEW MEXICO EAST** X = 671814 Y = 392745 NAD 1983 X=673960' Y=382463' NAD 1983 X = 674473' Y = 392766' 330 KOP X=674885' Y=392408' 32 | 33 31 LAT=N32.078077 LAT=N32.050749° 361' 330' LONG=W103.902153° LONG=W103.905270° NAD 1927 UMP NAD 1927 SHL AZ = 287.19° 1026.6' X=633700' Y=392351' X=632774' Y=382406' LAT=N32.077952° LAT=N32.050624° LONG=W103.901673° LONG=W103.904790° 361' FNL 2251' FEL 330' FSL 2090' FWL KOP LOCATION **BOTTOM HOLE LOCATION NEW MEXICO EAST** X = 671835' Y = 390089' , NMNM-102034 **NEW MEXICO EAST** 5261 NAD 1983 NAD 1983 X=673905' Y=392712' X=673960' Y=382363' $AZ = 179.58^{\circ}$ LAT=N32.078922° LAT=N32.050474° LONG=W103.905316° LONG=W103.905270° NAD 1927 X=632774' Y=382306' NAD 1927 X=632719' Y=392654' LAT=N32.078797° LAT=N32.050349° -330' LONG=W103.904835° LONG=W103.904790° X = 674531' Y = 387455' 5 50' FNL 2090' FWL 230' FSL 2090' FWL 6 UPPER MOST PERF. X = 671853' **7** NEW MEXICO EAST NAD 1983 SPACING UNI X=673907' Y=392432' LAT=N32 078152° LONG=W103.905313° 5087 NAD 1927 X=632721' Y=392374' 179.81° LAT=N32.078027° X = 671863' Y = 3847-AZ = 1LONG=W103.904832° = 384777 330' FNL 2090' FWL LMP BHL 2090 8 9 17 16 18 X = 671870 Y = 382117

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.



Star L Harrell

star harrell@eogresources.com

E-mail Address

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 13, 2023

Date of Surve

RALPH B. CHUSTZ, JR., N.M.P.L.S.

Signature and Seal of Professional Surveyor:



Certificate Number 26264 Job No.: EOG_B190006



Revised Permit Information 03/23/2023:

Well Name: Banjo 5 Fed Com 709H

Location: SHL: 361' FNL & 2251' FEL, Section 5, T-26-S, R-30-E, Eddy Co., N.M.

BHL: 230' FSL & 2090' 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	9,769	0	9,620	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	9,269	0	9,120	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	9,269	9,769	9,120	9,620	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	9,769	21,107	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.

Cementing Program:

		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)
21,107'	1020	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
5-1/2''				(TOC @ 9,120')



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.

Mud Program:

Measured Depth	Type	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' – 10,486'	Oil Base	8.7-9.4	58-68	N/c - 6
10,486' – 21,107'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral	on Base	10.0 11.0	2000	. 0



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."

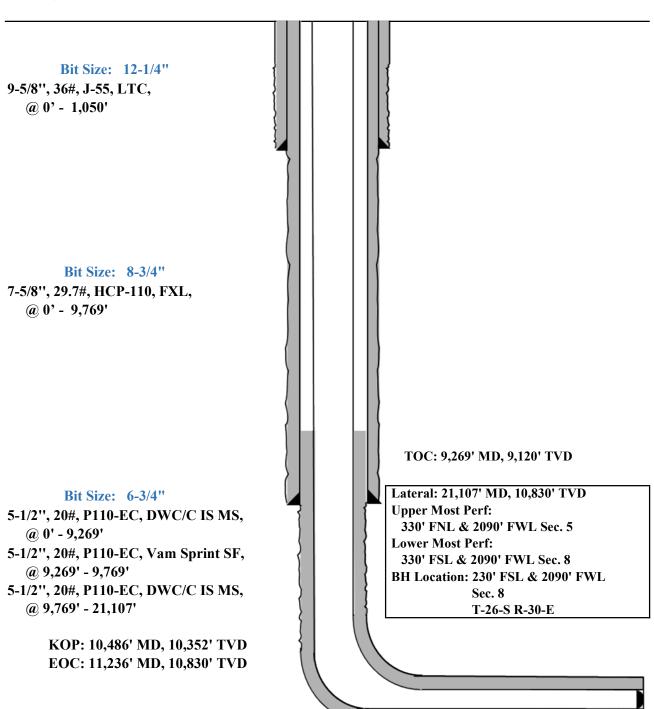
With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher 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.



361' FNL Revised Wellbore KB: 3185' 2251' FEL GL: 3160'

Section 5

T-26-S, R-30-E API: 30-015-48195





Design B

4. CASING PROGRAM

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	1,050	0	1,050	10-3/4"	40.5#	J-55	STC
9-7/8"	0	9,769	0	9,620	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	21,107	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.

Cementing Program:

		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Stuffy 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)
21,107'	1670	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
6"				(TOC @ 9,120')



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:

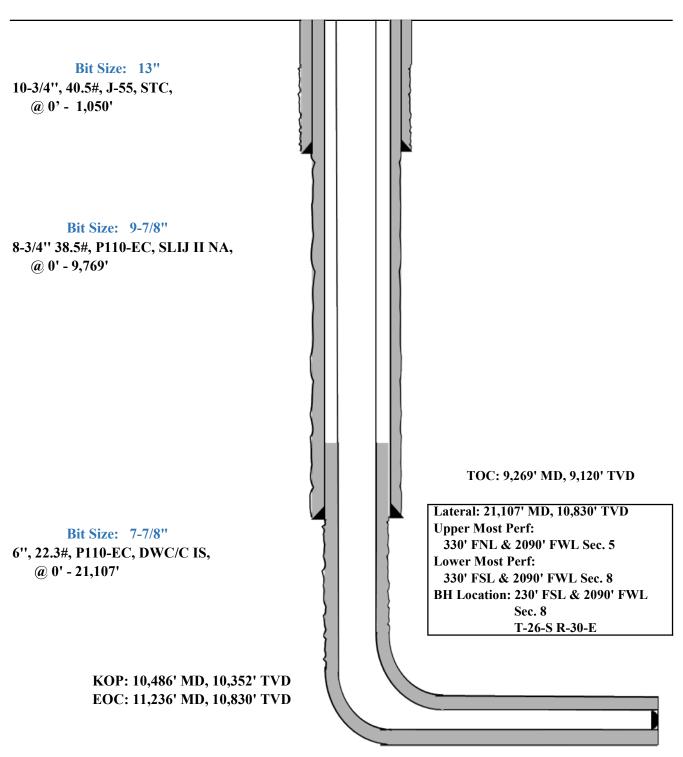
- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to
 offline cement and/or remediate (if needed) any surface or 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"



361' FNL Proposed Wellbore 2251' FEL KB: 3185' GL: 3160'

Section 5

T-26-S, R-30-E API: 30-015-48195





Midland

Eddy County, NM (NAD 83 NME) Banjo 5 Fed Com #709H

OH

Plan: Plan #0.2

Standard Planning Report

13 April, 2023



Planning Report

PEDM Database: Company: Midland

Project: Eddy County, NM (NAD 83 NME)

Site: Banjo 5 Fed Com

Well: #709H Wellbore: OH Plan #0.2 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #709H kb @ 3185.0usft kb @ 3185.0usft

Grid

Minimum Curvature

Project Eddy County, NM (NAD 83 NME)

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

New Mexico Eastern Zone Map Zone:

System Datum: Mean Sea Level

Banjo 5 Fed Com Site

Northing: 392,301.00 usft Site Position: Latitude: 32° 4' 39.950 N From: Мар Easting: 676,477.00 usft Longitude: 103° 53' 49.257 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well #709H

0.0 usft **Well Position** +N/-S Northing: 392,408.00 usft Latitude: 32° 4' 41.072 N 674,885.00 usft +E/-W 0.0 usft Easting: Longitude: 103° 54' 7.756 W 3,160.0 usft

Position Uncertainty 0.0 usft Wellhead Elevation: usft **Ground Level:**

0.23° **Grid Convergence:**

ОН Wellbore

Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,474.36575535 IGRF2020 7/1/2020 6.80 59.75

Plan #0.2 Design

Audit Notes:

Phase: PLAN Tie On Depth: 0.0 Version:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 185.26 0.0 0.0 0.0

Plan Survey Tool Program Date 4/13/2023

Depth From Depth To

(usft) (usft) Survey (Wellbore) **Tool Name** Remarks

21,107.5 EOG MWD+IFR1 0.0 Plan #0.2 (OH)

MWD + IFR1



Planning Report

Database: Company:

PEDM Midland

Eddy County, NM (NAD 83 NME)

Project: Eddy County, NM Site: Banjo 5 Fed Com

 Well:
 #709H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #709H kb @ 3185.0usft kb @ 3185.0usft

Grid

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,997.2	15.94	287.23	1,986.9	32.7	-105.3	2.00	2.00	0.00	287.23	
4,930.1	15.94	287.23	4,807.1	271.3	-874.7	0.00	0.00	0.00	0.00	
5,727.3	0.00	0.00	5,594.0	304.0	-980.0	2.00	-2.00	0.00	180.00	
10,485.8	0.00	0.00	10,352.5	304.0	-980.0	0.00	0.00	0.00	0.00	KOP(Banjo 5 Fed Cor
11,032.2	65.57	179.59	10,787.2	24.0	-978.0	12.00	12.00	32.87	179.59	FTP(Banjo 5 Fed Con
11,235.8	90.00	179.70	10,829.9	-173.4	-976.8	12.00	12.00	0.05	0.26	
21,007.5	90.00	179.70	10,830.0	-9,945.0	-925.0	0.00	0.00	0.00	0.00	LTP(Banjo 5 Fed Con
21,107.5	90.00	180.30	10,830.0	-10,045.0	-925.0	0.61	0.00	0.61	89.93	PBHL(Banjo 5 Fed Co

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Eddy County, NM (NAD 83 NME)

Site: Banjo 5 Fed Com

 Well:
 #709H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #709H kb @ 3185.0usft kb @ 3185.0usft

Grid

esign:	FIAII #U.Z								
lanned 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	287.23	1,300.0	0.5	-1.7	-0.4	2.00	2.00	0.00
1,400.0	4.00	287.23	1,399.8	2.1	-6.7	-1.4	2.00	2.00	0.00
1,700.0		201.20							
1,500.0	6.00	287.23	1,499.5	4.6	-15.0	-3.3	2.00	2.00	0.00
1,600.0	8.00	287.23	1,598.7	8.3	-26.6	-5.8	2.00	2.00	0.00
					-41.6	-9.0		2.00	
1,700.0	10.00	287.23	1,697.5	12.9			2.00		0.00
1,800.0	12.00	287.23	1,795.6	18.5	-59.8	-13.0	2.00	2.00	0.00
1,900.0	14.00	287.23	1,893.1	25.2	-81.3	-17.7	2.00	2.00	0.00
4 007 0	45.04	007.00	4 000 0	20.7	405.0	20.0	0.00	0.00	0.00
1,997.2	15.94	287.23	1,986.9	32.7	-105.3	-22.9	2.00	2.00	0.00
2,000.0	15.94	287.23	1,989.6	32.9	-106.0	-23.0	0.00	0.00	0.00
2,100.0	15.94	287.23	2,085.8	41.0	-132.2	-28.7	0.00	0.00	0.00
2,200.0	15.94	287.23	2,181.9	49.2	-158.5	-34.4	0.00	0.00	0.00
2,300.0	15.94	287.23	2,278.1	57.3	-184.7	-40.1	0.00	0.00	0.00
2,400.0	15.94	287.23	2,374.3	65.4	-210.9	-45.8	0.00	0.00	0.00
2,500.0	15.94	287.23	2,470.4	73.6	-237.2	-51.5	0.00	0.00	0.00
2,600.0	15.94	287.23	2,566.6	81.7	-263.4	-57.2	0.00	0.00	0.00
2,700.0	15.94	287.23	2,662.7	89.8	-289.6	-62.9	0.00	0.00	0.00
2,800.0	15.94	287.23	2,758.9	98.0	-315.9	-68.6	0.00	0.00	0.00
2,000.0	10.04	207.20	2,700.0	30.0	-010.5	-00.0	0.00	0.00	0.00
2,900.0	15.94	287.23	2,855.0	106.1	-342.1	-74.3	0.00	0.00	0.00
3,000.0	15.94	287.23	2,951.2	114.3	-368.4	-80.0	0.00	0.00	0.00
3,100.0	15.94	287.23	3,047.3	122.4	-394.6	-85.7	0.00	0.00	0.00
3,200.0	15.94	287.23	3,143.5	130.5	-420.8	-91.4	0.00	0.00	0.00
3,300.0	15.94	287.23	3,239.6	138.7	-447.1	-97.1	0.00	0.00	0.00
3,400.0	15.94	287.23	3,335.8	146.8	-473.3	-102.8	0.00	0.00	0.00
3,500.0	15.94	287.23	3,431.9	155.0	-499.5	-108.5	0.00	0.00	0.00
3,600.0	15.94	287.23	3,528.1	163.1	-525.8	-114.2	0.00	0.00	0.00
3,700.0	15.94	287.23	3,624.2	171.2	-552.0	-119.9	0.00	0.00	0.00
3,800.0	15.94	287.23	3,720.4	179.4	-578.2	-125.6	0.00	0.00	0.00
3,900.0	15.94	287.23	3,816.6	187.5	-604.5	-131.3	0.00	0.00	0.00
4,000.0	15.94	287.23	3,912.7	195.7	-630.7	-137.0	0.00	0.00	0.00
4,100.0	15.94	287.23	4,008.9	203.8	-657.0	-142.7	0.00	0.00	0.00
4,200.0	15.94	287.23	4,105.0	211.9	-683.2	-148.4	0.00	0.00	0.00
4,300.0	15.94	287.23	4,201.2	220.1	-709.4	-154.1	0.00	0.00	0.00
		201.20							
4,400.0	15.94	287.23	4,297.3	228.2	-735.7	-159.8	0.00	0.00	0.00
4,500.0	15.94	287.23	4,393.5	236.3	-761.9	-165.5	0.00	0.00	0.00
4,600.0	15.94	287.23	4,489.6	244.5	-788.1	-171.2	0.00	0.00	0.00
4,700.0	15.94	287.23	4,585.8	252.6	-814.4	-176.9	0.00	0.00	0.00
4,800.0	15.94	287.23	4,681.9	260.8	-840.6	-182.6	0.00	0.00	0.00
4,900.0	15.94	287.23	4,778.1	268.9	-866.8	-188.3	0.00	0.00	0.00
4,930.1	15.94	287.23	4,807.1	271.3	-874.7	-190.0	0.00	0.00	0.00
5,000.0	14.55	287.23	4,874.5	276.8	-892.3	-193.8	2.00	-2.00	0.00
					-914.7	-198.7			
5,100.0	12.55	287.23	4,971.7	283.7	-914.7	-190./	2.00	-2.00	0.00



Planning Report

Database: PEDM Company: Midland

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Site: Banjo 5 Fed Com

 Well:
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Survey Calculation Method:

Well #709H kb @ 3185.0usft kb @ 3185.0usft

Grid

Design:	Plan #0.2								
Planned Survey									
Measured Depth (usft)	Inclination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	10.55	287.23	5,069.7	289.7	-933.8	-202.8	2.00	-2.00	0.00
5,300.0	8.55	287.23	5,168.3	294.6	-949.6	-206.3	2.00	-2.00	0.00
5,400.0	6.55	287.23	5,267.4	298.5	-962.2	-209.0	2.00	-2.00	0.00
5,500.0	4.55	287.23	5,366.9	301.3	-971.4	-211.0	2.00	-2.00	0.00
5,600.0	2.55	287.23	5,466.7	303.2	-977.3	-212.3	2.00	-2.00	0.00
5,700.0	0.55	287.23	5,566.7	304.0	-979.9	-212.8	2.00	-2.00	0.00
5,727.3	0.00	0.00	5,594.0	304.0	-980.0	-212.9	2.00	-2.00	0.00
5,800.0	0.00	0.00	5,666.7	304.0	-980.0	-212.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,766.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,866.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,100.0	0.00	0.00	5,966.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,200.0	0.00	0.00	6,066.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,166.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,266.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,500.0	0.00	0.00	6,366.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,466.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,566.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,666.7	304.0	-980.0	-212.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,766.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,866.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,100.0	0.00	0.00	6,966.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,200.0	0.00	0.00	7,066.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,166.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,266.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,366.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,466.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,566.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,666.7	304.0	-980.0	-212.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,766.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,866.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,100.0	0.00	0.00	7,966.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,066.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,166.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,266.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,366.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,466.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,566.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,666.7	304.0	-980.0	-212.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,766.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,866.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,100.0	0.00	0.00	8,966.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,066.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,166.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,266.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,366.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,466.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,566.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,666.7	304.0	-980.0	-212.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,766.7	304.0	-980.0	-212.9	0.00	0.00	0.00
10,000.0	0.00	0.00	9,866.7	304.0	-980.0	-212.9	0.00	0.00	0.00
10,100.0	0.00	0.00	9,966.7	304.0	-980.0	-212.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,066.7	304.0	-980.0	-212.9	0.00	0.00	0.00
10,300.0	0.00	0.00	10,166.7	304.0	-980.0	-212.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,266.7	304.0	-980.0	-212.9	0.00	0.00	0.00



Planning Report

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Site: Banjo 5 Fed Com

 Well:
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Survey Calculation Method:

Well #709H kb @ 3185.0usft kb @ 3185.0usft

Grid

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)
10,485.8	0.00	0.00	10,352.5	304.0	-980.0	-212.9	0.00	0.00	0.00
10,500.0	1.70	179.59	10,366.7	303.8	-980.0	-212.6	12.00	12.00	0.00
10,525.0	4.70	179.59	10,391.6	302.4	-980.0	-211.3	12.00	12.00	0.00
10,550.0	7.70	179.59	10,416.5	299.7	-980.0	-208.6	12.00	12.00	0.00
10,575.0	10.70	179.59	10,441.2	295.7	-979.9	-204.6	12.00	12.00	0.00
10,600.0	13.70	179.59	10,465.6	290.4	-979.9	-199.3	12.00	12.00	0.00
10,625.0	16.70	179.59	10,489.7	283.9	-979.9	-192.8	12.00	12.00	0.00
10,650.0	19.70	179.59	10,513.5	276.0	-979.8	-185.0	12.00	12.00	0.00
10,675.0	22.70	179.59	10,536.8	267.0	-979.7	-176.0	12.00	12.00	0.00
10,700.0	25.70	179.59	10,559.6	256.8	-979.7	-165.8	12.00	12.00	0.00
10,725.0	28.70	179.59	10,581.8	245.3	-979.6	-154.5	12.00	12.00	0.00
10,750.0	31.70	179.59	10,603.4	232.8	-979.5	-142.0	12.00	12.00	0.00
10,775.0	34.70	179.59	10,624.3	219.1	-979.4	-128.3	12.00	12.00	0.00
10,800.0	37.70	179.59	10,644.5	204.3	-979.3	-113.6	12.00	12.00	0.00
10,825.0	40.70	179.59	10,663.9	188.5	-979.2	-97.9	12.00	12.00	0.00
10,850.0 10,875.0	43.70 46.70	179.59 179.59	10,682.4 10,700.0	171.7 154.0	-979.1 -978.9	-81.2 -63.6	12.00 12.00	12.00 12.00	0.00 0.00
10,900.0	49.70	179.59	10,716.6	135.3	-978.8	-45.0	12.00	12.00	0.00
10,925.0	52.71	179.59	10,732.3	115.9	-978.7	-25.6	12.00	12.00	0.00
10,950.0	55.71	179.59	10,746.9	95.6	-978.5	-5.5	12.00	12.00	0.00
10,975.0 11,000.0	58.71 61.71	179.59 179.59	10,760.5 10,772.9	74.6 52.9	-978.4 -978.2	15.5 37.0	12.00 12.00	12.00 12.00	0.00 0.00
11,025.0	64.71	179.59	10,784.2	30.6	-978.0	59.2	12.00	12.00	0.00
11,032.2	65.57	179.59	10,787.2	24.0	-978.0	65.8	12.00	12.00	0.00
11,050.0 11,075.0	67.71 70.71	179.60 179.61	10,794.2 10,803.1	7.7 -15.7	-977.9 -977.7	82.0 105.3	12.00 12.00	12.00 12.00	0.06 0.06
11,100.0	73.71	179.63	10,810.8	-39.5	-977.6	128.9	12.00	12.00	0.05
11,125.0	76.71	179.64	10,817.1	-63.6	-977.4	153.0	12.00	12.00	0.05
11,150.0	79.71	179.65	10,822.2	-88.1	-977.3	177.4	12.00	12.00	0.05
11,175.0	82.71	179.67	10,826.1	-112.8	-977.1	201.9	12.00	12.00	0.05
11,200.0	85.71	179.68	10,828.6	-137.7	-977.0	226.7	12.00	12.00	0.05
11,225.0	88.71	179.69	10,829.8	-162.7	-976.8	251.5	12.00	12.00	0.05
11,235.8	90.00	179.70	10,829.9	-173.4	-976.8	262.3	12.00	12.00	0.05
11,300.0	90.00	179.70	10,829.9	-237.6	-976.4	326.2	0.00	0.00	0.00
11,400.0	90.00	179.70	10,829.9	-337.6	-975.9	425.7	0.00	0.00	0.00
11,500.0	90.00	179.70	10,829.9	-437.6	-975.4	525.2	0.00	0.00	0.00
11,600.0	90.00	179.70	10,829.9	-537.6	-974.9	624.8	0.00	0.00	0.00
11,700.0	90.00	179.70	10,829.9	-637.6	-974.3	724.3	0.00	0.00	0.00
11,800.0	90.00	179.70	10,829.9	-737.6	-973.8	823.8	0.00	0.00	0.00
11,900.0	90.00	179.70	10,829.9	-837.6	-973.3	923.4	0.00	0.00	0.00
12,000.0 12,100.0	90.00 90.00	179.70 179.70	10,829.9 10,829.9	-937.6 -1,037.6	-972.7 -972.2	1,022.9 1,122.4	0.00 0.00	0.00 0.00	0.00 0.00
12,200.0	90.00	179.70	10,829.9	-1,137.6	-971.7	1,221.9	0.00	0.00	0.00
12,300.0	90.00	179.70	10,829.9	-1,137.6 -1,237.6	-971.7 -971.1	1,321.5	0.00	0.00	0.00
12,400.0	90.00	179.70	10,829.9	-1,337.6	-970.6	1,421.0	0.00	0.00	0.00
12,500.0	90.00	179.70	10,829.9	-1,437.6	-970.1	1,520.5	0.00	0.00	0.00
12,600.0	90.00	179.70	10,829.9	-1,537.6	-969.6	1,620.1	0.00	0.00	0.00
12,700.0	90.00	179.70	10,829.9	-1,637.6	-969.0	1,719.6	0.00	0.00	0.00
12,800.0	90.00	179.70	10,829.9	-1,737.6	-968.5	1,819.1	0.00	0.00	0.00
12,900.0	90.00	179.70	10,829.9	-1,837.6	-968.0	1,918.6	0.00	0.00	0.00
13,000.0	90.00	179.70	10,829.9	-1,937.6	-967.4	2,018.2	0.00	0.00	0.00
13,100.0	90.00	179.70	10,829.9	-2,037.6	-966.9	2,117.7	0.00	0.00	0.00
13,200.0	90.00	179.70	10,829.9	-2,137.6	-966.4	2,217.2	0.00	0.00	0.00
13,300.0	90.00	179.70	10,829.9	-2,237.6	-965.8	2,316.8	0.00	0.00	0.00

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Eddy County, NM (NAD 83 NME)

Site: Banjo 5 Fed Com

 Well:
 #709H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #709H kb @ 3185.0usft kb @ 3185.0usft

Grid

lanned 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	-2,337.6	-965.3	2,416.3	0.00	0.00	0.00
13,500.0 13,600.0	90.00 90.00	179.70 179.70	10,829.9 10,830.0	-2,437.6 -2,537.6	-964.8 -964.3	2,515.8 2,615.3	0.00 0.00	0.00 0.00	0.00 0.00
13,700.0	90.00	179.70	10,830.0	-2,637.6	-963.7	2,714.9	0.00	0.00	0.00
13,800.0	90.00	179.70	10,830.0	-2,737.6	-963.2	2,814.4	0.00	0.00	0.00
13,900.0 14,000.0	90.00 90.00	179.70 179.70	10,830.0 10,830.0	-2,837.6 -2,937.6	-962.7 -962.1	2,913.9 3,013.5	0.00 0.00	0.00 0.00	0.00 0.00
14,100.0	90.00	179.70	10,830.0	-3,037.6	-962.1 -961.6	3,113.0	0.00	0.00	0.00
14,200.0 14,300.0	90.00 90.00	179.70 179.70	10,830.0 10,830.0	-3,137.6	-961.1 -960.5	3,212.5 3,312.0	0.00 0.00	0.00 0.00	0.00 0.00
14,400.0	90.00	179.70	10,830.0	-3,237.6 -3,337.6	-960.5 -960.0	3,312.0 3,411.6	0.00	0.00	0.00
14,500.0	90.00	179.70	10,830.0	-3,437.6	-959.5	3,511.1	0.00	0.00	0.00
14,600.0	90.00	179.70	10,830.0	-3,537.6	-959.0	3,610.6	0.00	0.00	0.00
14,700.0 14,800.0	90.00 90.00	179.70 170.70	10,830.0 10,830.0	-3,637.6	-958.4	3,710.2 3,809.7	0.00	0.00 0.00	0.00 0.00
14,800.0	90.00	179.70 179.70	10,830.0	-3,737.6 -3,837.6	-957.9 -957.4	3,809.7	0.00 0.00	0.00	0.00
15,000.0	90.00	179.70	10,830.0	-3,937.6	-957.4 -956.8	4,008.7	0.00	0.00	0.00
15,100.0	90.00	179.70	10,830.0	-4,037.6	-956.3	4,108.3	0.00	0.00	0.00
15,200.0	90.00	179.70	10,830.0	-4,137.6	-955.8	4,207.8	0.00	0.00	0.00
15,200.0	90.00	179.70	10,830.0	-4,137.6 -4,237.6	-955.8 -955.2	4,207.8	0.00	0.00	0.00
15,400.0	90.00	179.70	10,830.0	-4,237.6 -4,337.6	-955.2 -954.7	4,406.9	0.00	0.00	0.00
15,500.0	90.00	179.70	10,830.0	-4,437.6	-954.2	4,506.4	0.00	0.00	0.00
15,600.0	90.00	179.70	10,830.0	-4,537.6	-953.7	4,605.9	0.00	0.00	0.00
		179.70							
15,700.0 15,800.0	90.00 90.00	179.70	10,830.0 10,830.0	-4,637.6 -4,737.6	-953.1 -952.6	4,705.4 4,805.0	0.00 0.00	0.00 0.00	0.00 0.00
15,900.0	90.00	179.70	10,830.0	-4,737.6 -4,837.6	-952.0 -952.1	4,803.0	0.00	0.00	0.00
16,000.0	90.00	179.70	10,830.0	-4,937.6	-951.5	5,004.0	0.00	0.00	0.00
16,100.0	90.00	179.70	10,830.0	-5,037.6	-951.0	5,103.6	0.00	0.00	0.00
	90.00						0.00	0.00	0.00
16,200.0 16,300.0	90.00	179.70 179.70	10,830.0 10,830.0	-5,137.6 -5,237.6	-950.5 -949.9	5,203.1 5,302.6	0.00	0.00	0.00
16,400.0	90.00	179.70	10,830.0	-5,337.6	-949.9 -949.4	5,402.1	0.00	0.00	0.00
16,500.0	90.00	179.70	10,830.0	-5,437.6	-948.9	5,501.7	0.00	0.00	0.00
16,600.0	90.00	179.70	10,830.0	-5,537.6	-948.4	5,601.2	0.00	0.00	0.00
16,700.0	90.00	179.70	10,830.0	-5,637.6	-947.8	5,700.7	0.00	0.00	0.00
16,700.0	90.00	179.70	10,830.0	-5,737.6 -5,737.6	-947.8 -947.3	5,700.7	0.00	0.00	0.00
16,900.0	90.00	179.70	10,830.0	-5,837.6	-947.3 -946.8	5,899.8	0.00	0.00	0.00
17,000.0	90.00	179.70	10,830.0	-5,937.6	-946.2	5,999.3	0.00	0.00	0.00
17,100.0	90.00	179.70	10,830.0	-6,037.6	-945.7	6,098.9	0.00	0.00	0.00
17,200.0	90.00	179.70	10,830.0	-6,137.6	-945.2	6,198.4	0.00	0.00	0.00
17,200.0	90.00	179.70	10,830.0	-6,237.6	-945.2 -944.6	6,297.9	0.00	0.00	0.00
17,400.0	90.00	179.70	10,830.0	-6,337.6	-944.1	6,397.4	0.00	0.00	0.00
17,500.0	90.00	179.70	10,830.0	-6,437.6	-943.6	6,497.0	0.00	0.00	0.00
17,600.0	90.00	179.70	10,830.0	-6,537.6	-943.1	6,596.5	0.00	0.00	0.00
17,700.0	90.00	179.70	10,830.0	-6,637.6	-942.5	6,696.0	0.00	0.00	0.00
17,700.0	90.00	179.70	10,830.0	-6,737.6	-942.0	6,795.6	0.00	0.00	0.00
17,900.0	90.00	179.70	10,830.0	-6,837.6	-941.5	6,895.1	0.00	0.00	0.00
18,000.0	90.00	179.70	10,830.0	-6,937.6	-940.9	6,994.6	0.00	0.00	0.00
18,100.0	90.00	179.70	10,830.0	-7,037.6	-940.4	7,094.1	0.00	0.00	0.00
18,200.0	90.00	179.70	10,830.0	-7,137.6	-939.9	7,193.7	0.00	0.00	0.00
18,300.0	90.00	179.70	10,830.0	-7,137.6 -7,237.6	-939.3	7,193.7	0.00	0.00	0.00
18,400.0	90.00	179.70	10,830.0	-7,337.5	-938.8	7,392.7	0.00	0.00	0.00
18,500.0	90.00	179.70	10,830.0	-7,437.5	-938.3	7,492.3	0.00	0.00	0.00
18,600.0	90.00	179.70	10,830.0	-7,537.5	-937.8	7,591.8	0.00	0.00	0.00
18,700.0	90.00	179.70	10,830.0	-7,637.5	-937.2	7,691.3	0.00	0.00	0.00

eog resources

Planning Report

Database: Company: PEDM

Company: Midland
Project: Eddy County, NM (NAD 83 NME)

Site: Banjo 5 Fed Com

 Well:
 #709H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #709H kb @ 3185.0usft kb @ 3185.0usft

Grid

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	-7,737.5	-936.7	7,790.8	0.00	0.00	0.00
18,900.0	90.00	179.70	10,830.0	-7,837.5	-936.2	7,890.4	0.00	0.00	0.00
19,000.0	90.00	179.70	10,830.0	-7,937.5	-935.6	7,989.9	0.00	0.00	0.00
19,100.0	90.00	179.70	10,830.0	-8,037.5	-935.1	8,089.4	0.00	0.00	0.00
19,200.0	90.00	179.70	10,830.0	-8,137.5	-934.6	8,189.0	0.00	0.00	0.00
19,300.0	90.00	179.70	10,830.0	-8,237.5	-934.0	8,288.5	0.00	0.00	0.00
19,400.0	90.00	179.70	10,830.0	-8,337.5	-933.5	8,388.0	0.00	0.00	0.00
19,500.0	90.00	179.70	10,830.0	-8,437.5	-933.0	8,487.5	0.00	0.00	0.00
19,600.0	90.00	179.70	10,830.0	-8,537.5	-932.5	8,587.1	0.00	0.00	0.00
19,700.0	90.00	179.70	10,830.0	-8,637.5	-931.9	8,686.6	0.00	0.00	0.00
19,800.0	90.00	179.70	10,830.0	-8,737.5	-931.4	8,786.1	0.00	0.00	0.00
19,900.0	90.00	179.70	10,830.0	-8,837.5	-930.9	8,885.7	0.00	0.00	0.00
20,000.0	90.00	179.70	10,830.0	-8,937.5	-930.3	8,985.2	0.00	0.00	0.00
20,100.0	90.00	179.70	10,830.0	-9,037.5	-929.8	9,084.7	0.00	0.00	0.00
20,200.0	90.00	179.70	10,830.0	-9,137.5	-929.3	9,184.2	0.00	0.00	0.00
20,300.0	90.00	179.70	10,830.0	-9,237.5	-928.7	9,283.8	0.00	0.00	0.00
20,400.0	90.00	179.70	10,830.0	-9,337.5	-928.2	9,383.3	0.00	0.00	0.00
20,500.0	90.00	179.70	10,830.0	-9,437.5	-927.7	9,482.8	0.00	0.00	0.00
20,600.0	90.00	179.70	10,830.0	-9,537.5	-927.2	9,582.4	0.00	0.00	0.00
20,700.0	90.00	179.70	10,830.0	-9,637.5	-926.6	9,681.9	0.00	0.00	0.00
20,800.0	90.00	179.70	10,830.0	-9,737.5	-926.1	9,781.4	0.00	0.00	0.00
20,900.0	90.00	179.70	10,830.0	-9,837.5	-925.6	9,880.9	0.00	0.00	0.00
21,007.5	90.00	179.70	10,830.0	-9,945.0	-925.0	9,987.9	0.00	0.00	0.00
21,107.5	90.00	180.30	10,830.0	-10,045.0	-925.0	10,087.5	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 r	0.00	10,352.5	304.0	-980.0	392,712.00	673,905.00	32° 4' 44.119 N	103° 54' 19.132 W
FTP(Banjo 5 Fed Com#7 - plan hits target cente - Point	0.00 r	0.00	10,787.2	24.0	-978.0	392,432.00	673,907.00	32° 4' 41.348 N	103° 54' 19.122 W
PBHL(Banjo 5 Fed Com - plan hits target cente - Point	0.00 r	0.00	10,830.0	-10,045.0	-925.0	382,363.00	673,960.00	32° 3′ 1.703 N	103° 54' 18.970 W
LTP(Banjo 5 Fed Com#7 - plan hits target cente - Point	0.00 r	0.00	10,830.0	-9,945.0	-925.0	382,463.00	673,960.00	32° 3' 2.693 N	103° 54' 18.965 W
Fed PP(Banjo 5 Fed Col - plan misses target ce - Point	0.00 enter by 1018	0.00 8.2usft at 16	11,822.0 019.6usft Ml	-4,956.0 D (10830.0 TV	-722.0 D, -4957.2 N,	387,452.00 -951.4 E)	674,163.00	32° 3′ 52.056 N	103° 54' 16.376 W



1400

2450

3850

4900-

ඉ 5600∄

6650

7000

7700

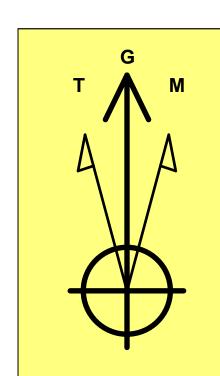
8400

9100

9450

10150

10500



Azimuths to Grid North True North: -0.23° Magnetic North: 6.57°

> **Magnetic Field** Strength: 47474.4nT Dip Angle: 59.75° Date: 7/1/2020 Model: IGRF2020

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

Eddy County, NM (NAD 83 NME)

Banjo 5 Fed Com #709H

Plan #0.2

PROJECT DETAILS: Eddy County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983 **Datum: North American Datum 1983** Ellipsoid: GRS 1980 **Zone: New Mexico Eastern Zone** System Datum: Mean Sea Level

WELL DETAILS: #709H

3160.0

kb @ 3185.0usft

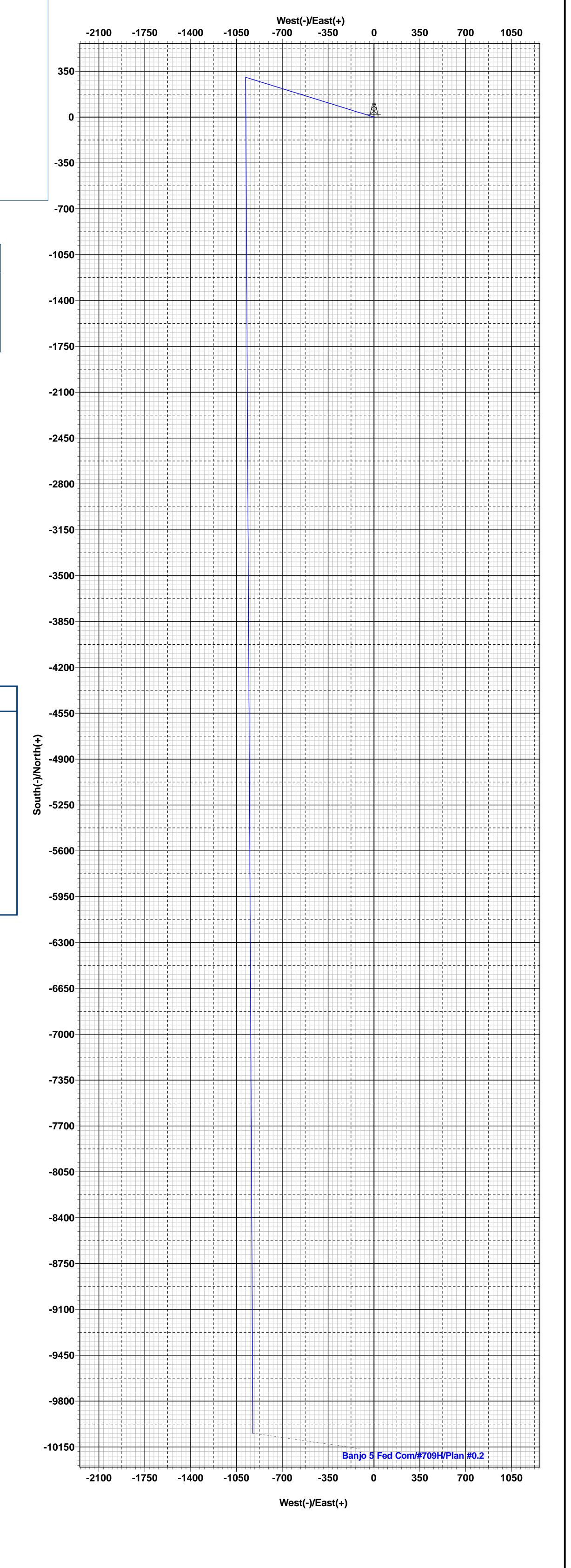
Longitude 103° 54' 7.756 W Northing **Easting** Latittude 32° 4' 41.072 N 392408.00 674885.00

						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	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1997.2	15.94	287.23	1986.9	32.7	-105.3	2.00	287.23	-22.9	
4	4930.1	15.94	287.23	4807.1	271.3	-874.7	0.00	0.00	-190.0	
5	5727.3	0.00	0.00	5594.0	304.0	-980.0	2.00	180.00	-212.9	
6	10485.8	0.00	0.00	10352.5	304.0	-980.0	0.00	0.00	-212.9	KOP(Banjo 5 Fed Com#775H)
7	11032.2	65.57	179.59	10787.2	24.0	-978.0	12.00	179.59	65.8	FTP(Banjo 5 Fed Com#775H)
8	11235.8	90.00	179.70	10829.9	-173.4	-976.8	12.00	0.26	262.3	
9	21007.5	90.00	179.70	10830.0	-9945.0	-925.0	0.00	0.00	9987.9	LTP(Banjo 5 Fed Com#775H)
10	21107.5	90.00	180.30	10830.0	-10045.0	-925.0	0.61	89.93	10087.5	PBHL(Banjo 5 Fed Com#775H)

CASING DETAILS

No casing data is available

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Banjo 5 Fed Com#775H)	10352.5	304.0	-980.0	392712.00	673905.00
FTP(Banjo 5 Fed Com#775H)	10787.2	24.0	-978.0	392432.00	673907.00
LTP(Banjo 5 Fed Com#775H)	10830.0	-9945.0	-925.0	382463.00	673960.00
PBHL(Banjo 5 Fed Com#775H)	10830.0	-10045.0	-925.0	382363.00	673960.00
Fed PP(Banjo 5 Fed Com#775H)	11822.0	-4956.0	-722.0	387452.00	674163.00



Vertical Section at 185.26°

Eddy County, NM (NAD 83 NME) Banjo 5 Fed Com Plan #0.2 14:53, April 13 2023



Banjo 5 Fed Com Package

Wells in package:	Tgt TVD
Banjo 32 Fed Com #713H	10,920
Banjo 32 Fed Com #722H	11,140
Banjo 32 Fed Com #724H	11,140
Banjo 5 Fed Com #518H	9,490
Banjo 5 Fed Com #587H	9,870
Banjo 5 Fed Com #599H	10,050
Banjo 5 Fed Com #705H	10,830
Banjo 5 Fed Com #709H	10,830
Banjo 5 Fed Com #728H	11,140
Stark 5 Fed Com #717H	10,920
Stark 5 Fed Com #726H	11,140

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

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

Action 216978

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	216978
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	If a bradenhead squeeze was used, then a CBL is required. All other COA's still apply.	10/18/2023