Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Bord	BITO OF EFFICE WITH WIGHNESS		Γ	NMNM77063		
Do not use this t	IOTICES AND REPORTS ON W form for proposals to drill or to Use Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee	or Tribe Name		
	TRIPLICATE - Other instructions on pag	· ·	7. If Unit of CA/Agre	eement, Name and/or No.		
1. Type of Well	Zierni Zierni Zierni pag	<u> </u>	-			
Oil Well Gas W	Vell Other		8. Well Name and No	. INGA 33 FED COM/505H		
2. Name of Operator EOG RESOURG	CES INCORPORATED	9. API Well No.	30-025-51573			
	BY 2, HOUSTON, TX 77(3b. Phone No. (713) 651-700		10. Field and Pool or Exploratory Area WC-025 G-08 S243217P; UPPER WOLFCAMP			
4. Location of Well (Footage, Sec., T., K SEC 33/T23S/R32E/NMP	2.,M., or Survey Description)		11. Country or Parish LEA/NM	ı, State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF NOT	TICE, REPORT OR OT	HER DATA		
TYPE OF SUBMISSION		TYPE OF AC	CTION			
✓ Notice of Intent	Acidize Deep Alter Casing Hydr		duction (Start/Resume)	Water Shut-Off Well Integrity		
Subsequent Report			complete aporarily Abandon	V Other		
Final Abandonment Notice	Convert to Injection Plug		ter Disposal			
the Bond under which the work will completion of the involved operation completed. Final Abandonment No is ready for final inspection.) Inga 33 Fed Com 715H (FKA secondary for final inspection) Inga 33 Fed Com 715H (FKA secondary for final inspection) EOG respectfully requests and the following changes: Change name from Inga 33 Fed Change BHL from T-24-S, R-3 to T-24-S, R-32-E, Sec 4, 100 Change target formation to Wood Continued on page 3 additional	amendment to our approved APD for thing and Com 505H to Inga 33 Fed Com 715H 32-E, Sec 4, 100' FSL, 2178' FEL, Lea Cor FSL, 2590' FEL, Lea Co., N.M. Difficamp Clastics Y.	ile with BLM/BIA. Require pletion or recompletion in a s, including reclamation, has s well to reflect	d subsequent reports mannew interval, a Form 3	ust be filed within 30 days following 3160-4 must be filed once testing has been		
, ,	true and correct. Name (Printed/Typed)	Regulatory Specia	list			
STAR HARRELL / Ph: (432) 848-9	101	Title				
Signature		Date	06/12/2	2023		
	THE SPACE FOR FEDI	ERAL OR STATE O	FICE USE			
Approved by						
CHRISTOPHER WALLS / Ph: (575	5) 234-2234 / Approved	Petroleum En	gineer	06/15/2023 Date		
	hed. Approval of this notice does not warran equitable title to those rights in the subject le duct operations thereon.)			

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.

Update the Pool as reflected in the C-102.

Location of Well

 $0. \ SHL: TR\ K\ /\ 2271\ FSL\ /\ 2484\ FWL\ /\ TWSP: 23S\ /\ RANGE: 32E\ /\ SECTION: 33\ /\ LAT: 32.2600255\ /\ LONG: -103.6801028\ (\ TVD: 0\ feet,\ MD: 0\ feet\)$ PPP: TR J / 2542 FSL / 2178 FEL / TWSP: 23S / RANGE: 32E / SECTION: 33 / LAT: 32.2607734 / LONG: -103.6780959 (\ TVD: 10696\ feet,\ MD: 10748\ feet\) BHL: TR O / 100 FSL / 2178 FEL / TWSP: 24S / RANGE: 32E / SECTION: 4 / LAT: 32.2395835 / LONG: -103.678087 (\ TVD: 10961\ feet,\ MD: 18560\ feet\)

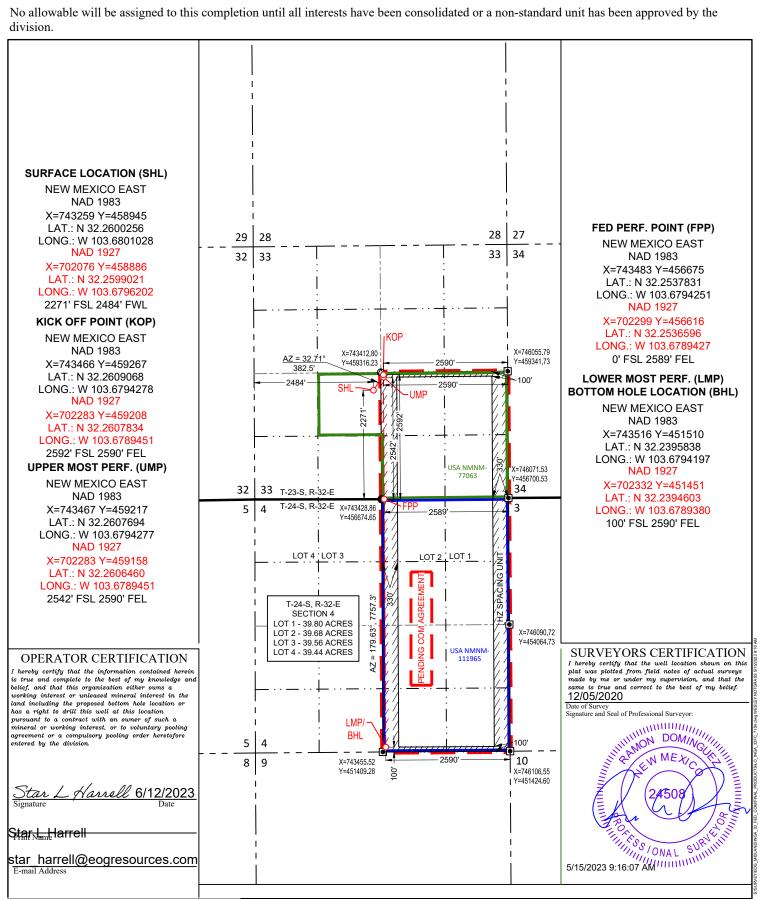
DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-0161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6174 Fax: (505) 334-6170
DISTRICT IV
2120 S. St. Francis Dr., Sanfa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

API Number Pool Code 30-025-51573 98248				Pool Code 98248							
Property Co. 33407					Property Name INGA 33 FED	Well Number 715H					
OGRID No. 7377		Operator Name Elevation EOG RESOURCES, INC. 3681'									
	Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
K	33	23-S	32-E	-	2271'	SOUTH	2484'	WEST	LEA		
	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		
0	4	24-S	S 32-E -		100'	SOUTH	2590'	EAST	LEA		
Dedicated Acres	Joint or I	nfill	Consolidated Code	Ordo	er No.						
479.48			PENDING COM AGREEMENT								





Revised Permit Information 04/27/2023:

Well Name: Inga 33 Fed Com 715H

Location: SHL: 2271' FSL & 2484' FWL, Section 33, T-23-S, R-32-E, Lea Co., N.M.

BHL: 100' FSL & 2590' FEL, Section 4, T-24-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	1,150	0	1,150	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,213	0	11,200	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,713	0	10,700	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,713	11,213	10,700	11,200	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	11,213	19,838	11,200	12,273	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:

	<u> </u>	Wt.	Yld	Chumu Description
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description
1,150'	320	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 @ 950')
11,200'	520	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
7-5/8''				Microbond (TOC @ 6,800')
	1160	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
19,838'	790	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
5-1/2''				(TOC @ 10,700')



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 (7,004') 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 160 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 – 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' – 11,200'	Brine	10.0-10.2	28-34	N/c
11,200' – 11,809'	Oil Base	8.7-9.4	58-68	N/c - 6
11,809' – 19,838' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



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."

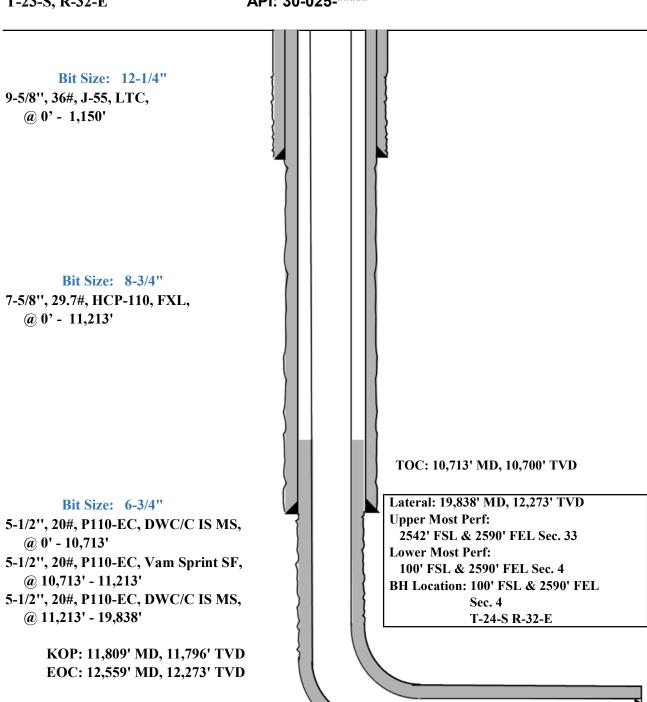
With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher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



2271' FSL **Revised Wellbore** KB: 3706' 2484' FWL GL: 3681'

Section 33

API: 30-025-**** T-23-S, R-32-E





Design B

4. CASING PROGRAM

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	1,150	0	1,150	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,213	0	11,200	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	19,838	0	12,273	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
1,150'	300	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 @ 950')
11,200'	590	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
8-3/4"				Microbond (TOC @ 6,800')
	1320	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-
				M + 6% Bentonite Gel (TOC @ surface)
19,838'	1290	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
6"				(TOC @ 10,700')



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 (7,004') 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 322 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"



2271' FSL 2484' FWL **Proposed Wellbore**

KB: 3706' GL: 3681'

Section 33

T-23-S, R-32-E

API: 30-025-****

Bit Size: 13" 10-3/4", 40.5#, J-55, STC, @ 0' - 1,150' Bit Size: 9-7/8" 8-3/4" 38.5#, P110-EC, SLIJ II NA, (a) 0' - 11,213' TOC: 10,713' MD, 10,700' TVD Lateral: 19,838' MD, 12,273' TVD **Upper Most Perf:** Bit Size: 7-7/8" 2542' FSL & 2590' FEL Sec. 33 6", 22.3#, P110-EC, DWC/C IS, **Lower Most Perf:** @ 0' - 19,838' 100' FSL & 2590' FEL Sec. 4 BH Location: 100' FSL & 2590' FEL Sec. 4 T-24-S R-32-E KOP: 11,809' MD, 11,796' TVD EOC: 12,559' MD, 12,273' TVD



GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,089'
Tamarisk Anhydrite	1,124'
Top of Salt	1,359'
Base of Salt	4,549'
Lamar	4,788'
Bell Canyon	4,815'
Cherry Canyon	5,589'
Brushy Canyon	7,004'
Bone Spring Lime	8,635'
Leonard (Avalon) Shale	8,802'
1st Bone Spring Sand	9,801'
2nd Bone Spring Shale	10,055'
2nd Bone Spring Sand	10,394'
3rd Bone Spring Carb	11,099'
3rd Bone Spring Sand	11,576'
Wolfcamp	12,024'
TD	12,273'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	4,815'	Oil
Cherry Canyon	5,589'	Oil
Brushy Canyon	7,004'	Oil
Leonard (Avalon) Shale	8,802'	Oil
1st Bone Spring Sand	9,801'	Oil
2nd Bone Spring Shale	10,055'	Oil
2nd Bone Spring Sand	10,394'	Oil



Midland

Lea County, NM (NAD 83 NME) Inga 33 Fed Com #715H

OH

Plan: Plan #0.1 RT

Standard Planning Report

18 May, 2023



Planning Report

PEDM Database:

Company: Midland

Project: Lea County, NM (NAD 83 NME) Site: Inga 33 Fed Com

Well: #715H Wellbore: OH

Plan #0.1 RT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #715H

kb = 25' @ 3706.0usft kb = 25' @ 3706.0usft

Grid

Minimum Curvature

Project Lea 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

Inga 33 Fed Com Site

Northing: 458,724.00 usft Site Position: Latitude: 32° 15' 33.773 N From: Мар Easting: 745,466.00 usft Longitude: 103° 40' 22.690 W

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

Well #715H

Well Position +N/-S 0.0 usft Northing: 458,945.00 usft Latitude: 32° 15' 36.093 N +E/-W 0.0 usft Easting: 743,259.00 usft Longitude: 103° 40' 48.376 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,681.0 usft

0.35° **Grid Convergence:**

ОН Wellbore

Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,302.04163006 IGRF2020 5/18/2023 6.37 59.85

Plan #0.1 RT Design

Audit Notes:

PLAN Tie On Depth: 0.0 Version: Phase:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 178.02 0.0 0.0 0.0

Plan Survey Tool Program Date 5/18/2023

Depth From Depth To

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

19,838.2 Plan #0.1 RT (OH) EOG MWD+IFR1 0.0

MWD + IFR1



Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Inga 33 Fed Com

Well: #715H Wellbore: 0H

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #715H

kb = 25' @ 3706.0usft kb = 25' @ 3706.0usft

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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,498.0	3.96	32.74	1,497.8	5.8	3.7	2.00	2.00	0.00	32.74	
6,844.1	3.96	32.74	6,831.2	316.2	203.3	0.00	0.00	0.00	0.00	
7,042.1	0.00	0.00	7,029.0	322.0	207.0	2.00	-2.00	0.00	180.00	
11,808.6	0.00	0.00	11,795.5	322.0	207.0	0.00	0.00	0.00	0.00	KOP(Inga 33 Fed Cor
12,029.0	26.46	178.85	12,008.2	272.0	208.0	12.00	12.00	81.13	178.85	FTP(Inga 33 Fed Con
12,558.5	90.00	179.68	12,272.9	-155.4	212.3	12.00	12.00	0.16	0.92	
14,673.1	90.00	179.68	12,273.0	-2,270.0	224.0	0.00	0.00	0.00	0.00	Fed Perf 1(Inga 33 Fε
19,838.2	90.00	179.59	12,273.0	-7,435.0	257.0	0.00	0.00	0.00	-87.40	PBHL(Inga 33 Fed Co



Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Inga 33 Fed Com

 Well:
 #715H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #715H

kb = 25' @ 3706.0usft kb = 25' @ 3706.0usft

Grid

Design: Plan #0.1 RT									
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				0.0				0.00	
	0.00	0.00	800.0		0.0	0.0	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	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	2.00	32.74	1,400.0	1.5	0.9	-1.4	2.00	2.00	0.00
1,498.0	3.96	32.74	1,497.8	5.8	3.7	-5.6	2.00	2.00	0.00
1,500.0	3.96	32.74	1,499.8	5.9	3.8	-5.7	0.00	0.00	0.00
1,600.0	3.96	32.74	1,599.6	11.7	7.5	-11.4	0.00	0.00	0.00
1,700.0	3.96	32.74	1,699.4	17.5	11.2	-17.1	0.00	0.00	0.00
1,800.0	3.96	32.74	1,799.1	23.3	15.0	-22.8	0.00	0.00	0.00
1,900.0	3.96	32.74	1,898.9	29.1	18.7	-28.4	0.00	0.00	0.00
2,000.0	3.96	32.74	1,998.6	34.9	22.4	-34.1	0.00	0.00	0.00
2,100.0	3.96	32.74	2,098.4	40.7	26.2	-39.8	0.00	0.00	0.00
2,200.0	3.96	32.74	2,198.2	46.5	29.9	-45.5	0.00	0.00	0.00
2,300.0	3.96	32.74	2,297.9	52.3	33.6	-51.1	0.00	0.00	0.00
2,400.0	3.96	32.74	2,397.7	58.1	37.4	-56.8	0.00	0.00	0.00
2,500.0	3.96	32.74	2,497.5	63.9	41.1	-62.5	0.00	0.00	0.00
2,600.0	3.96	32.74	2,597.2	69.8	44.8	-68.2	0.00	0.00	0.00
2,700.0	3.96	32.74	2,697.0	75.6	48.6	-73.8	0.00	0.00	0.00
2,800.0	3.96	32.74	2,796.7	81.4	52.3	-79.5	0.00	0.00	0.00
2,900.0	3.96	32.74	2,896.5	87.2	56.0	-85.2	0.00	0.00	0.00
			,						
3,000.0	3.96	32.74	2,996.3	93.0	59.8	-90.9	0.00	0.00	0.00
3,100.0	3.96	32.74	3,096.0	98.8	63.5	-96.5	0.00	0.00	0.00
3,200.0	3.96	32.74	3,195.8	104.6	67.2	-102.2	0.00	0.00	0.00
3,300.0	3.96	32.74	3,295.5	110.4	71.0	-107.9	0.00	0.00	0.00
3,400.0	3.96	32.74	3,395.3	116.2	74.7	-113.6	0.00	0.00	0.00
3,500.0	3.96	32.74	3,495.1	122.0	78.4	-119.2	0.00	0.00	0.00
3,600.0	3.96	32.74	3,594.8	127.8	82.2	-119.2	0.00	0.00	0.00
,									
3,700.0	3.96	32.74	3,694.6	133.6	85.9	-130.6	0.00	0.00	0.00
3,800.0	3.96	32.74	3,794.3	139.5	89.6	-136.3	0.00	0.00	0.00
3,900.0	3.96	32.74	3,894.1	145.3	93.4	-141.9	0.00	0.00	0.00
4,000.0	3.96	32.74	3,993.9	151.1	97.1	-147.6	0.00	0.00	0.00
4,100.0	3.96	32.74	4,093.6	156.9	100.8	-153.3	0.00	0.00	0.00
4,200.0	3.96	32.74	4,193.4	162.7	104.6	-159.0	0.00	0.00	0.00
4,300.0	3.96	32.74	4,293.2	168.5	108.3	-164.6	0.00	0.00	0.00
4,400.0	3.96	32.74	4,392.9	174.3	112.0	-170.3	0.00	0.00	0.00
4,500.0	3.96	32.74	4,492.7	180.1	115.8	-176.0	0.00	0.00	0.00
4,600.0	3.96	32.74	4,592.4	185.9	119.5	-181.7	0.00	0.00	0.00
4,700.0	3.96	32.74	4,692.2	191.7	123.2	-187.3	0.00	0.00	0.00
4,800.0	3.96	32.74	4,792.0	197.5	127.0	-193.0	0.00	0.00	0.00
4,900.0	3.96	32.74	4,891.7	203.3	130.7	-198.7	0.00	0.00	0.00
5,000.0	3.96	32.74	4,991.5	209.1	134.5	-204.4	0.00	0.00	0.00
5,100.0	3.96	32.74	5,091.2	215.0	138.2	-210.1	0.00	0.00	0.00
5,200.0	3.96	32.74	5,191.0	220.8	141.9	-215.7	0.00	0.00	0.00

Planning Report

Database: Company:

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Inga 33 Fed Com

Well: #715H Wellbore: OH Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #715H

kb = 25' @ 3706.0usft kb = 25' @ 3706.0usft

Grid

Design:	Plan #0.1 RT								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	3.96	32.74	5,290.8	226.6	145.7	-221.4	0.00	0.00	0.00
5,400.0	3.96	32.74	5,390.5	232.4	149.4	-227.1	0.00	0.00	0.00
5,500.0	3.96	32.74	5,490.3	238.2	153.1	-232.8	0.00	0.00	0.00
5,600.0	3.96	32.74	5,590.1	244.0	156.9	-238.4	0.00	0.00	0.00
5,700.0	3.96	32.74	5,689.8	249.8	160.6	-244.1	0.00	0.00	0.00
5,800.0	3.96	32.74	5,789.6	255.6	164.3	-249.8	0.00	0.00	0.00
5,900.0	3.96	32.74	5,889.3	261.4	168.1	-255.5	0.00	0.00	0.00
6,000.0	3.96	32.74	5,989.1	267.2	171.8	-261.1	0.00	0.00	0.00
6,100.0	3.96	32.74	6,088.9	273.0	175.5	-266.8	0.00	0.00	0.00
6,200.0	3.96	32.74	6,188.6	278.8	179.3	-272.5	0.00	0.00	0.00
6,300.0	3.96	32.74	6,288.4	284.6	183.0	-278.2	0.00	0.00	0.00
6,400.0	3.96	32.74	6,388.1	290.5	186.7	-283.8	0.00	0.00	0.00
6,500.0	3.96	32.74	6,487.9	296.3	190.5	-289.5	0.00	0.00	0.00
6,600.0	3.96	32.74	6,587.7	302.1	194.2	-295.2	0.00	0.00	0.00
6,700.0	3.96	32.74	6,687.4	307.9	197.9	-300.9	0.00	0.00	0.00
6,800.0	3.96	32.74	6,787.2	313.7	201.7	-306.5	0.00	0.00	0.00
6,844.1	3.96	32.74	6,831.2	316.2	203.3	-309.0	0.00	0.00	0.00
6,900.0	2.84	32.74	6,887.0	319.0	205.1	-311.8	2.00	-2.00	0.00
7,000.0	0.84	32.74	6,986.9	321.7	206.8	-314.4	2.00	-2.00	0.00
7,042.1	0.00	0.00	7,029.0	322.0	207.0	-314.7	2.00	-2.00	0.00
7,100.0	0.00	0.00	7,086.9	322.0	207.0	-314.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,186.9	322.0	207.0	-314.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,286.9	322.0	207.0	-314.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,386.9	322.0	207.0	-314.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,486.9	322.0	207.0	-314.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,586.9	322.0	207.0	-314.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,686.9	322.0	207.0	-314.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,786.9	322.0	207.0	-314.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,886.9	322.0	207.0	-314.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,986.9	322.0	207.0	-314.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,086.9	322.0	207.0	-314.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,186.9	322.0	207.0	-314.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,286.9	322.0	207.0	-314.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,386.9	322.0	207.0	-314.7	0.00	0.00	0.00
8,500.0 8,600.0	0.00 0.00	0.00 0.00	8,486.9 8,586.9	322.0 322.0	207.0 207.0	-314.7 -314.7	0.00 0.00	0.00 0.00	0.00 0.00
8,700.0	0.00	0.00	8,686.9	322.0	207.0	-314.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,786.9	322.0	207.0	-314.7	0.00	0.00	0.00
8,900.0 9,000.0	0.00	0.00	8,886.9 8,986.9	322.0 322.0	207.0	-314.7	0.00	0.00	0.00
9,000.0	0.00 0.00	0.00 0.00	9,086.9	322.0 322.0	207.0 207.0	-314.7 -314.7	0.00 0.00	0.00 0.00	0.00 0.00
9,200.0	0.00	0.00	9,186.9	322.0	207.0	-314.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,286.9	322.0	207.0	-314.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,386.9	322.0	207.0	-314.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,486.9	322.0	207.0	-314.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,586.9	322.0	207.0	-314.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,686.9	322.0	207.0	-314.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,786.9	322.0	207.0	-314.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,886.9	322.0	207.0	-314.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,986.9	322.0	207.0	-314.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,086.9	322.0	207.0	-314.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,186.9	322.0	207.0	-314.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,286.9	322.0	207.0	-314.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,386.9	322.0	207.0	-314.7	0.00	0.00	0.00

Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Inga 33 Fed Com

 Well:
 #715H

 Wellbore:
 OH

 Design:
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Local Co-ordinate Reference:

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Survey Calculation Method:

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kb = 25' @ 3706.0usft kb = 25' @ 3706.0usft

Grid

Design:	Plan #0.1 RT								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0 10,600.0	0.00 0.00	0.00 0.00	10,486.9 10,586.9	322.0 322.0	207.0 207.0	-314.7 -314.7	0.00 0.00	0.00 0.00	0.00 0.00
10,700.0	0.00	0.00	10,686.9	322.0	207.0	-314.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,786.9	322.0	207.0	-314.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,886.9	322.0	207.0	-314.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,986.9	322.0	207.0	-314.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,086.9	322.0	207.0	-314.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,186.9	322.0	207.0	-314.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,286.9	322.0	207.0	-314.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,386.9	322.0	207.0	-314.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,486.9	322.0	207.0	-314.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,586.9	322.0	207.0	-314.7	0.00	0.00	0.00
11,700.0 11,808.6	0.00 0.00	0.00 0.00	11,686.9 11,795.5	322.0 322.0	207.0 207.0	-314.7 -314.7	0.00 0.00	0.00 0.00	0.00 0.00
·	Fed Com #715H		11,795.5	322.0	207.0	-514.7	0.00	0.00	0.00
11,825.0	1.97	178.85	11,811.9	321.7	207.0	-314.4	12.00	12.00	0.00
11,850.0	4.97	178.85	11,836.9	320.2	207.0	-312.9	12.00	12.00	0.00
11,875.0	7.97	178.85	11,861.7	317.4	207.1	-310.0	12.00	12.00	0.00
11,900.0	10.97	178.85	11,886.4	313.3	207.2	-305.9	12.00	12.00	0.00
11,925.0	13.98	178.85	11,910.8	307.9	207.3	-300.5	12.00	12.00	0.00
11,950.0	16.98	178.85	11,934.9	301.2	207.4	-293.9	12.00	12.00	0.00
11,975.0	19.98	178.85	11,958.6	293.3	207.6	-285.9	12.00	12.00	0.00
12,000.0	22.98	178.85	11,981.8	284.1	207.8	-276.8	12.00	12.00	0.00
12,025.0 12,029.0	25.98 26.46	178.85 178.85	12,004.6 12,008.2	273.8 272.0	208.0 208.0	-266.4 -264.7	12.00 12.00	12.00 12.00	0.00 0.00
,			12,000.2	212.0	200.0	-204.7	12.00	12.00	0.00
	Fed Com #715H		40,000,0	000.0	200.0	254.0	40.00	40.00	0.40
12,050.0	28.98	178.94	12,026.8	262.2	208.2	-254.9	12.00	12.00	0.40
12,075.0	31.98	179.02	12,048.3	249.6	208.4	-242.2	12.00	12.00	0.34
12,100.0	34.98	179.09	12,069.2	235.8	208.6	-228.4	12.00	12.00	0.28
12,125.0	37.98	179.15	12,089.3	220.9	208.9	-213.6	12.00	12.00	0.24
12,150.0	40.98	179.21	12,108.6	205.0	209.1	-197.7	12.00	12.00	0.21
12,175.0	43.98	179.26	12,127.0	188.2	209.3	-180.8	12.00	12.00	0.19
12,200.0	46.98	179.30	12,144.5	170.3	209.5	-163.0	12.00	12.00	0.17
12,225.0	49.98	179.34	12,161.1	151.6	209.8	-144.3	12.00	12.00	0.15
12,250.0	52.98	179.37	12,176.7	132.1	210.0	-124.7	12.00	12.00	0.14
12,275.0	55.98	179.40	12,191.2	111.7	210.2	-104.4	12.00	12.00	0.13
12,300.0	58.98	179.43	12,204.6	90.6	210.4	-83.3	12.00	12.00	0.12
12,325.0	61.98	179.46	12,216.9	68.9	210.6	-61.6	12.00	12.00	0.11
12,350.0	64.98	179.49	12,228.1	46.5	210.8	-39.2	12.00	12.00	0.11
12,375.0	67.98	179.52	12,238.1 12,246.8	23.6	211.0	-16.3	12.00	12.00	0.10
12,400.0	70.98	179.54		0.2	211.2	7.1	12.00	12.00	0.10
12,425.0	73.98	179.56	12,254.4	-23.6	211.4	30.9	12.00	12.00	0.09
12,450.0	76.98	179.59	12,260.6	-47.8	211.6	55.1	12.00	12.00	0.09
12,475.0	79.98	179.61	12,265.6	-72.3	211.8	79.6	12.00	12.00	0.09
12,500.0	82.98	179.63	12,269.3	-97.0	211.9	104.3	12.00	12.00	0.09
12,525.0	85.98	179.65	12,271.7	-121.9	212.1	129.2	12.00	12.00	0.09
12,550.0	88.98	179.67	12,272.8	-146.9	212.2	154.1	12.00	12.00	0.09
12,558.5	90.00	179.68	12,272.9	-155.4	212.3	162.7	12.00	12.00	0.09
12,600.0	90.00	179.68	12,272.9	-196.9	212.5	204.1	0.00	0.00	0.00
12,700.0	90.00	179.68	12,272.9	-296.9	213.1	304.1	0.00	0.00	0.00
12,800.0	90.00	179.68	12,272.9	-396.9	213.6	404.0	0.00	0.00	0.00
12,900.0	90.00	179.68	12,272.9	-496.9	214.2	504.0	0.00	0.00	0.00
13,000.0	90.00	179.68	12,272.9	-596.9	214.7	604.0	0.00	0.00	0.00
13,100.0	90.00	179.68	12,272.9	-696.9	215.3	703.9	0.00	0.00	0.00

Planning Report

Database: Company: PEDM Midland

Lea County, NM (NAD 83 NME)

Project: Lea County, NM (I Site: Inga 33 Fed Com

Well: #715H Wellbore: 0H

Design: Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #715H

kb = 25' @ 3706.0usft kb = 25' @ 3706.0usft

Grid

nned 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)
				, ,	, ,				
13,200.0	90.00	179.68	12,272.9	-796.9	215.8	803.9	0.00	0.00	0.00
13,300.0	90.00	179.68	12,272.9	-896.9	216.4	903.8	0.00	0.00	0.00
13,400.0	90.00	179.68	12,273.0	-996.9	216.9	1,003.8	0.00	0.00	0.00
13,500.0	90.00	179.68	12,273.0	-1,096.9	217.5	1,103.7	0.00	0.00	0.00
13,600.0	90.00	179.68	12,273.0	-1,196.9	218.0	1,203.7	0.00	0.00	0.00
13,700.0	90.00	179.68	12,273.0	-1,296.9	218.6	1,303.7	0.00	0.00	0.00
13,800.0	90.00	179.68	12,273.0	-1,396.9	219.2	1,403.6	0.00	0.00	0.00
13,900.0	90.00	179.68	12,273.0	-1,496.9	219.7	1,503.6	0.00	0.00	0.00
14,000.0	90.00	179.68	12,273.0	-1,596.9	220.3	1,603.5	0.00	0.00	0.00
14,100.0	90.00	179.68	12,273.0	-1,696.9	220.8	1,703.5	0.00	0.00	0.00
14,200.0	90.00	179.68	12,273.0	-1,796.9	221.4	1,803.4	0.00	0.00	0.00
14,300.0	90.00	179.68	12,273.0	-1,896.9	221.9	1,903.4	0.00	0.00	0.00
14,400.0	90.00	179.68	12,273.0	-1,996.9	222.5	2,003.4	0.00	0.00	0.00
14,500.0	90.00	179.68	12,273.0	-2,096.9	223.0	2,103.3	0.00	0.00	0.00
14,600.0	90.00	179.68	12,273.0	-2,196.9	223.6	2,203.3	0.00	0.00	0.00
14,673.1	90.00	179.68	12,273.0	-2,270.0	224.0	2,276.4	0.00	0.00	0.00
	nga 33 Fed Com		, 5.5	_,		_,	3.33	0.00	3.33
14,700.0	90.00	179.68	12,273.0	-2,296.9	224.1	2,303.2	0.00	0.00	0.00
14,800.0	90.00	179.68	12,273.0	-2,396.9	224.7	2,403.2	0.00	0.00	0.00
14,900.0	90.00	179.68	12,273.0	-2,496.9	225.3	2,503.2	0.00	0.00	0.00
15,000.0	90.00	179.68	12,273.0	-2,596.9	225.8	2,603.1	0.00	0.00	0.00
15,100.0	90.00	179.67	12,273.0	-2.696.9	226.4	2,703.1	0.00	0.00	0.00
15,200.0	90.00	179.67	12,273.0	-2,796.9	227.0	2,803.0	0.00	0.00	0.00
15,300.0	90.00	179.67	12,273.0	-2,896.9	227.5	2,903.0	0.00	0.00	0.00
15,400.0	90.00	179.67	12,273.0	-2,996.9	228.1	3,002.9	0.00	0.00	0.00
15,500.0	90.00	179.67	12,273.0	-3,096.9	228.7	3,102.9	0.00	0.00	0.00
15,600.0	90.00	179.66	12,273.0	-3,196.9	229.3	3,202.9	0.00	0.00	0.00
15,700.0	90.00	179.66	12,273.0	-3,296.9	229.9	3,302.8	0.00	0.00	0.00
15,800.0	90.00	179.66	12,273.0	-3,396.8	230.5	3,402.8	0.00	0.00	0.00
15,900.0	90.00	179.66	12,273.0	-3,496.8	231.0	3,502.7	0.00	0.00	0.00
16,000.0	90.00	179.66	12,273.0	-3,596.8	231.6	3,602.7	0.00	0.00	0.00
16,100.0	90.00	179.66	12,273.0	-3,696.8	232.2	3,702.7	0.00	0.00	0.00
16,200.0	90.00	179.65	12,273.0	-3,796.8	232.8	3,802.6	0.00	0.00	0.00
16,300.0	90.00	179.65	12,273.0	-3,896.8	233.5	3,902.6	0.00	0.00	0.00
16,400.0 16,500.0	90.00 90.00	179.65 179.65	12,273.0 12,273.0	-3,996.8 -4,096.8	234.1 234.7	4,002.5 4,102.5	0.00 0.00	0.00 0.00	0.00 0.00
			,						
16,600.0	90.00	179.65	12,273.0	-4,196.8	235.3	4,202.5	0.00	0.00	0.00
16,700.0	90.00	179.64	12,273.0	-4,296.8	235.9	4,302.4	0.00	0.00	0.00
16,800.0	90.00	179.64	12,273.0	-4,396.8	236.5	4,402.4	0.00	0.00	0.00
16,900.0	90.00	179.64	12,273.0	-4,496.8	237.2	4,502.3	0.00	0.00	0.00
17,000.0	90.00	179.64	12,273.0	-4,596.8	237.8	4,602.3	0.00	0.00	0.00
17,100.0	90.00	179.64	12,273.0	-4,696.8	238.4	4,702.3	0.00	0.00	0.00
17,200.0	90.00	179.63	12,273.0	-4,796.8	239.1	4,802.2	0.00	0.00	0.00
17,300.0	90.00	179.63	12,273.0	-4,896.8	239.7	4,902.2	0.00	0.00	0.00
17,400.0	90.00	179.63	12,273.0	-4,996.8	240.3	5,002.1	0.00	0.00	0.00
17,500.0	90.00	179.63	12,273.0	-5,096.8	241.0	5,102.1	0.00	0.00	0.00
17,600.0	90.00	179.63	12,273.0	-5,196.8	241.6	5,202.1	0.00	0.00	0.00
17,700.0	90.00	179.63	12,273.0	-5,296.8	242.3	5,302.0	0.00	0.00	0.00
17,800.0	90.00	179.62	12,273.0	-5,396.8	242.9	5,402.0	0.00	0.00	0.00
17,900.0	90.00	179.62	12,273.0	-5,496.8	243.6	5,501.9	0.00	0.00	0.00
18,000.0	90.00	179.62	12,273.0	-5,596.8	244.3	5,601.9	0.00	0.00	0.00
18,100.0	90.00	179.62	12,273.0	-5,696.8	244.9	5,701.9	0.00	0.00	0.00
18,200.0	90.00	179.62	12,273.0	-5,796.8	244.9 245.6	5,701.9	0.00	0.00	0.00

Planning Report

Database: Company: Project:

PEDM

Midland

Lea County, NM (NAD 83 NME)

Inga 33 Fed Com Site:

Well: Wellbore: #715H ОН

Design: Plan #0.1 RT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #715H

kb = 25' @ 3706.0usft kb = 25' @ 3706.0usft

Grid

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)
18,300.0	90.00	179.61	12,273.0	-5,896.8	246.3	5,901.8	0.00	0.00	0.00
18,400.0	90.00	179.61	12,273.0	-5,996.8	246.9	6,001.7	0.00	0.00	0.00
18,500.0	90.00	179.61	12,273.0	-6,096.8	247.6	6,101.7	0.00	0.00	0.00
18,600.0	90.00	179.61	12,273.0	-6,196.8	248.3	6,201.7	0.00	0.00	0.00
18,700.0	90.00	179.61	12,273.0	-6,296.8	249.0	6,301.6	0.00	0.00	0.00
18,800.0	90.00	179.61	12,273.0	-6,396.8	249.7	6,401.6	0.00	0.00	0.00
18,900.0	90.00	179.60	12,273.0	-6,496.8	250.4	6,501.6	0.00	0.00	0.00
19,000.0	90.00	179.60	12,273.0	-6,596.8	251.1	6,601.5	0.00	0.00	0.00
19,100.0	90.00	179.60	12,273.0	-6,696.8	251.7	6,701.5	0.00	0.00	0.00
19,200.0	90.00	179.60	12,273.0	-6,796.8	252.5	6,801.4	0.00	0.00	0.00
19,300.0	90.00	179.60	12,273.0	-6,896.8	253.2	6,901.4	0.00	0.00	0.00
19,400.0	90.00	179.59	12,273.0	-6,996.8	253.9	7,001.4	0.00	0.00	0.00
19,500.0	90.00	179.59	12,273.0	-7,096.8	254.6	7,101.3	0.00	0.00	0.00
19,600.0	90.00	179.59	12,273.0	-7,196.8	255.3	7,201.3	0.00	0.00	0.00
19,700.0	90.00	179.59	12,273.0	-7,296.8	256.0	7,301.3	0.00	0.00	0.00
19,800.0	90.00	179.59	12,273.0	-7,396.8	256.7	7,401.2	0.00	0.00	0.00
19,838.2	90.00	179.59	12.273.0	-7,435.0	257.0	7,439.4	0.00	0.00	0.00

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(Inga 33 Fed Com # - plan hits target cent - Point	0.00 er	0.00	11,795.5	322.0	207.0	459,267.00	743,466.00	32° 15′ 39.267 N	103° 40' 45.943 W
FTP(Inga 33 Fed Com# - plan hits target cent - Point	0.00 er	0.00	12,008.2	272.0	208.0	459,217.00	743,467.00	32° 15' 38.772 N	103° 40' 45.934 W
PBHL(Inga 33 Fed Com - plan hits target cent - Point	0.00 er	0.00	12,273.0	-7,435.0	257.0	451,510.00	743,516.00	32° 14' 22.506 N	103° 40' 45.910 W
Fed Perf 1(Inga 33 Fed (- plan hits target cent - Point	0.00 er	0.00	12,273.0	-2,270.0	224.0	456,675.00	743,483.00	32° 15' 13.617 N	103° 40' 45.928 W



2000

3200-

3600

4400

8000-

9200-

10000

10400

10800

11600-

12000

12400-

T M

Azimuths to Grid North
True North: -0.35°
Magnetic North: 6.02°

Magnetic Field Strength: 47302.0nT Dip Angle: 59.85° Date: 5/18/2023 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.02°
To convert a Magnetic Direction to a True Direction, Add 6.37° East
To convert a True Direction to a Grid Direction, Subtract 0.35°

Lea County, NM (NAD 83 NME)

Inga 33 Fed Com #715H

Plan #0.1 RT

PROJECT DETAILS: Lea 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: #715H

3681.0

kb = 25' @ 3706.0usft

 Northing
 Easting
 Latittude
 Longitude

 458945.00
 743259.00
 32° 15' 36.093 N
 103° 40' 48.376 W

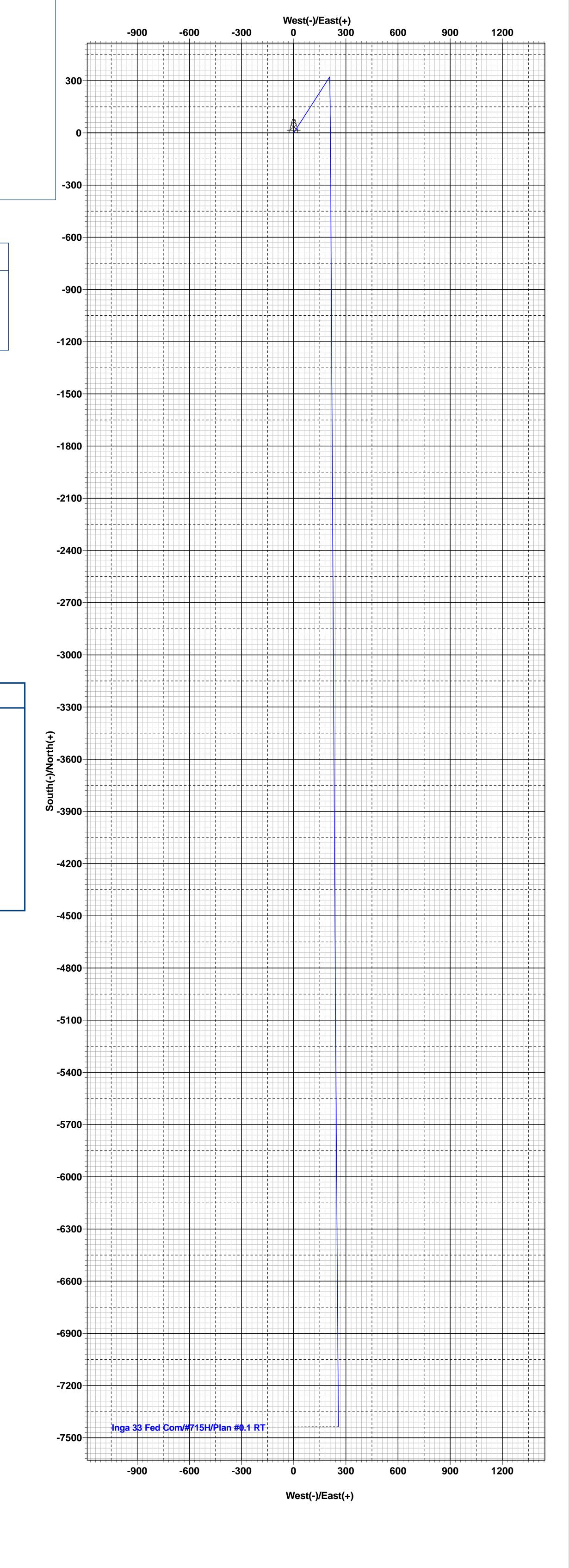
						DETAILS				
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1498.0	3.96	32.74	1497.8	5.8	3.7	2.00	32.74	-5.6	
4	6844.1	3.96	32.74	6831.2	316.2	203.3	0.00	0.00	-309.0	
5	7042.1	0.00	0.00	7029.0	322.0	207.0	2.00	180.00	-314.7	
6	11808.6	0.00	0.00	11795.5	322.0	207.0	0.00	0.00	-314.7	KOP(Inga 33 Fed Com #715H)
7	12029.0	26.46	178.85	12008.2	272.0	208.0	12.00	178.85	-264.7	FTP(lnga 33 Fed Com #715H)
8	12558.5	90.00	179.68	12272.9	-155.4	212.3	12.00	0.92	162.7	
9	14673.1	90.00	179.68	12273.0	-2270.0	224.0	0.00	0.00	2276.4	Fed Perf 1(Inga 33 Fed Com #715H)
10	19838.2	90.00	179.59	12273.0	-7435.0	257.0	0.00	-87.40	7439.4	PBHL(Inga 33 Fed Com #715H)

CASING DETAILS

No casing data is available

WELLBORE	TARGET DETAILS	6 (MAP CO-ORI	DINATES)			
Name	TVD	+N/-S	+E/-W	Northing	Easting	
KOP(Inga 33 Fed Com #715H)	11795.5	322.0	207.0	459267.00	743466.00	
FTP(linga 33 Fed Com #715H)	12008.2	272.0	208.0	459217.00	743467.00	
Fed Perf 1(Inga 33 Fed Com #715H)	12273.0	-2270.0	224.0	456675.00	743483.00	
PBHL(Inga 33 Fed Com #715H)	12273.0	-7435.0	257.0	451510.00	743516.00	

6650



Lea County, NM (NAD 83 NME) Inga 33 Fed Com #715H OH Plan #0.1 RT 11:38, May 18 2023

Vertical Section at 178.02°

2800

Released to Imaging: 8/9/2023 2:50:50 PM

1050



2/24/2022

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.



2/24/2022

- 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.



2/24/2022

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

- 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

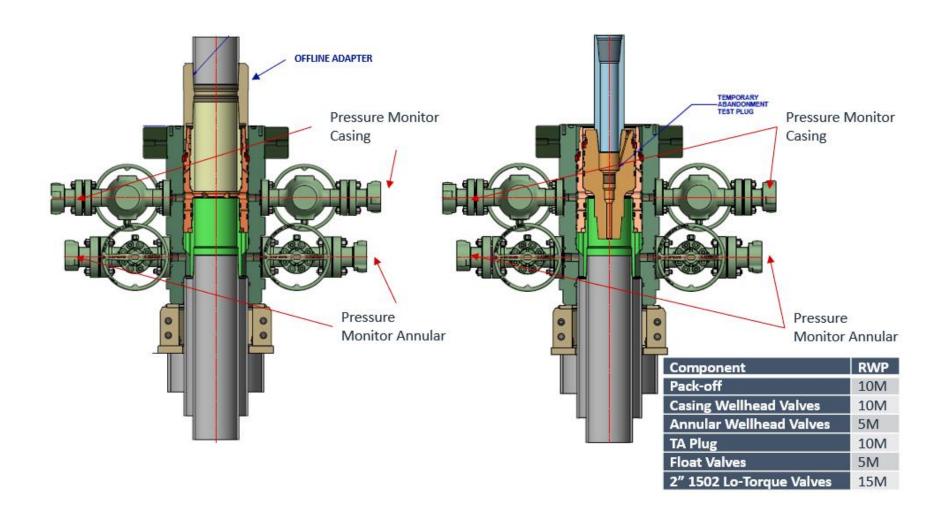
General Procedure After Cementing

- 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



2/24/2022

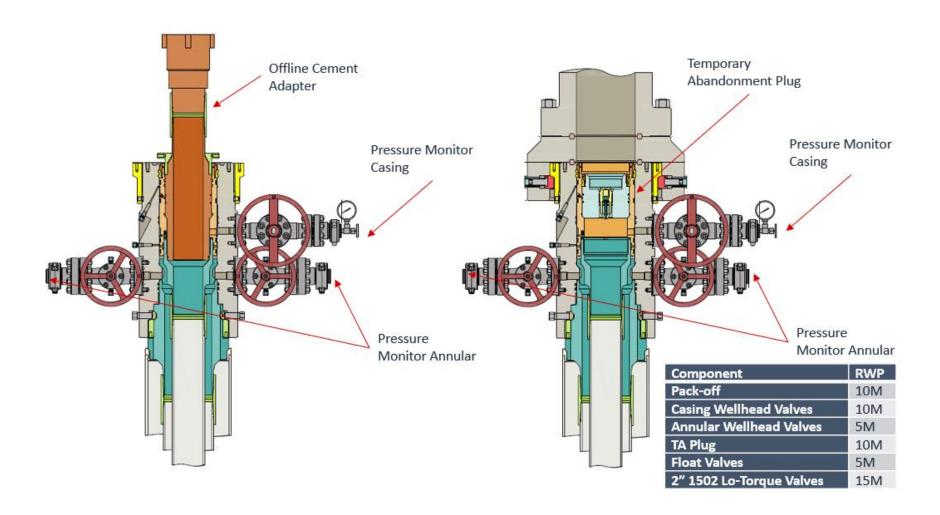
Figure 1: Cameron TA Plug and Offline Adapter Schematic





2/24/2022

Figure 2: Cactus TA Plug and Offline Adapter Schematic

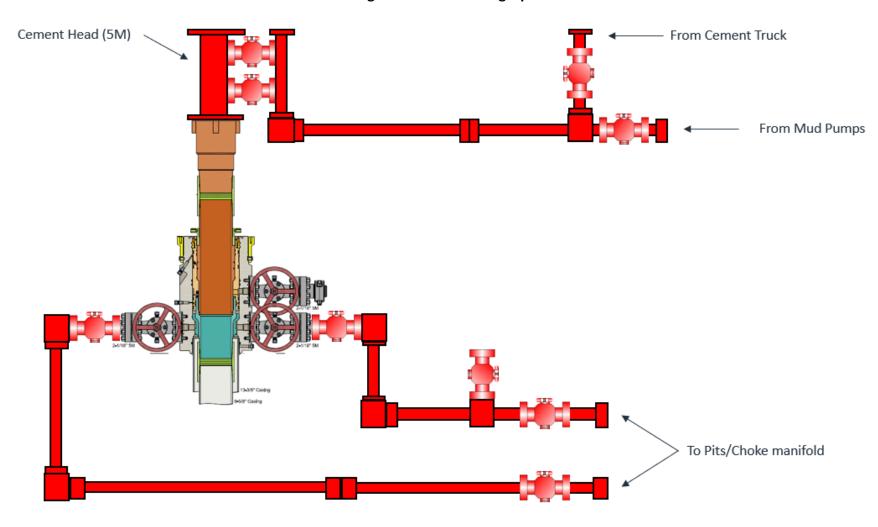


Page | 6



2/24/2022

Figure 3: Back Yard Rig Up



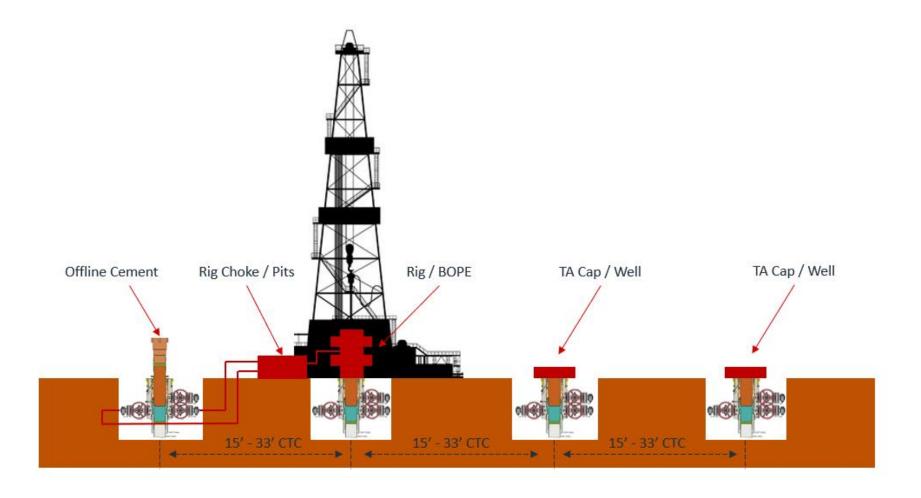
*** All Lines 10M rated working pressure

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Figure 4: Rig Placement Diagram



Page | 8

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 228676

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	228676
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Create By	Condition	Condition Date
pkau	Z IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A CBL MUST BE RUN ON THAT STRING OF CASING.	8/9/2023