Form 3160-5 (June 2019)

## UNITED STATES DEPARTMENT OF THE INTERIOR BURGELLAND MANAGEMENT

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

5.	Lease	Serial	No.	A 18 4A

BUR	EAU OF LAND MANAGEMENT	S. Lease Serial IVO.	NMNM110835			
Do not use this t	IOTICES AND REPORTS ON V form for proposals to drill or t Use Form 3160-3 (APD) for su	6. If Indian, Allottee of	or Tribe Name			
SUBMIT IN	TRIPLICATE - Other instructions on page	7. If Unit of CA/Agre	ement, Name and/or No.			
1. Type of Well		,				
Oil Well Gas V	Vell Other		8. Well Name and No	RUTHLESS 11 FED COM/742H		
2. Name of Operator EOG RESOURG	CES INCORPORATED		9. API Well No. 30-0	025-51173		
	BBY 2, HOUSTON, TX 77( 3b. Phone No.	. (include area code)				
TITI BRODI ORI EGE	(713) 651-70			53309P/UPPER WOLFCAMP		
4. Location of Well (Footage, Sec., T., F	R.,M., or Survey Description)		11. Country or Parish	, State		
SEC 11/T25S/R32E/NMP			LEA/NM			
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE	OF NOTICE, REPORT OR OTI	HER DATA		
TYPE OF SUBMISSION		TYP	E OF ACTION			
Notice of Intent	Acidize Dee	pen	Production (Start/Resume)	Water Shut-Off		
		raulic Fracturing	Reclamation	Well Integrity		
Subsequent Report		Construction	Recomplete	<b>Other</b>		
Final Abandonment Notice		g and Abandon g Back	Temporarily Abandon Water Disposal			
the proposal is to deepen directional the Bond under which the work will completion of the involved operation completed. Final Abandonment Notis ready for final inspection.)  Ruthless 11 Fed Com 713H (Fig. 12 Feb. 12 Feb. 13 Feb. 14 Feb. 15 Feb. 15 Feb. 15 Feb. 16 Feb. 16 Feb. 17 Feb. 17 Feb. 18 Feb.	11 Fed Com 742H to Ruthless 11 Fed C 32-E, Sec 14, 100' FSL, 456' FWL, Lea 0' FSL, 330' FWL, Lea Co., N.M. olfcamp Clastics Y.	cace locations and me file with BLM/BIA. mpletion or recomplets, including reclamate	easured and true vertical depths Required subsequent reports mu etion in a new interval, a Form 3	of all pertinent markers and zones. Attach ast be filed within 30 days following 160-4 must be filed once testing has been		
CRAIG RICHARDSON / Ph: (432)		Title Regulatory	Specialist			
Signature		Date	03/09/2	023		
	THE SPACE FOR FED	ERAL OR STA	ATE OFICE USE			
Approved by		=	NEED	22/22/22 -		
KEITH P IMMATTY / Ph: (575) 988	B-4722 / Approved	Title	NEER	03/28/2023 Date		
	hed. Approval of this notice does not warrange equitable title to those rights in the subject laduct operations thereon.		RLSBAD			
	3 U.S.C Section 1212, make it a crime for a ents or representations as to any matter with		y and willfully to make to any do	epartment or agency of the United States		

(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**

### **Location of Well**

0. SHL: TR D / 660 FNL / 507 FWL / TWSP: 25S / RANGE: 32E / SECTION: 11 / LAT: 32.1504679 / LONG: -103.6525941 ( TVD: 0 feet, MD: 0 feet )

PPP: TR L / 2644 FNL / 456 FWL / TWSP: 25S / RANGE: 32E / SECTION: 14 / LAT: 32.1305127 / LONG: -103.6528396 ( TVD: 12771 feet, MD: 20466 feet )

PPP: TR L / 2638 FNL / 456 FWL / TWSP: 25S / RANGE: 32E / SECTION: 11 / LAT: 32.1450325 / LONG: -103.6527848 ( TVD: 12771 feet, MD: 15184 feet )

PPP: TR D / 100 FNL / 456 FWL / TWSP: 25S / RANGE: 32E / SECTION: 11 / LAT: 32.1520068 / LONG: -103.6527584 ( TVD: 12506 feet, MD: 12545 feet )

BHL: TR M / 100 FSL / 456 FWL / TWSP: 25S / RANGE: 32E / SECTION: 14 / LAT: 32.1235307 / LONG: -103.652866 ( TVD: 12771 feet, MD: 23006 feet )

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

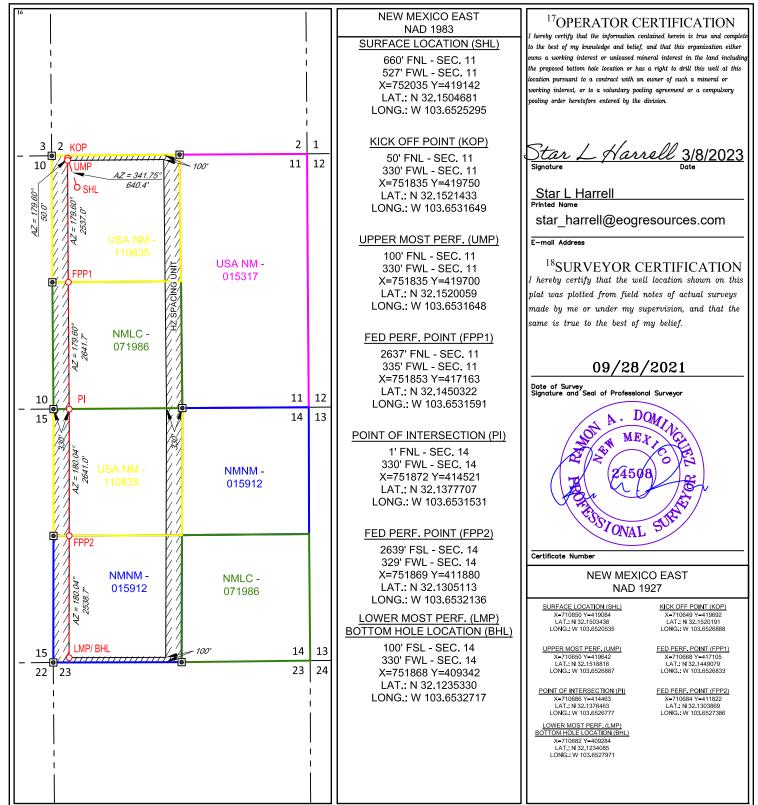
### WELL LOCATION AND ACREAGE DEDICATION PLAT

	<sup>1</sup> API Number		<sup>2</sup> Pool Code	<sup>3</sup> Pool Name			
<u> </u>			30-025-51173 98180 WC-025 G-09 S253309P; Up				
	⁴Property Code 329701			operty Name S 11 FED COM	<sup>6</sup> Well Number 713H		
	<sup>7</sup> OGRID №. 7377			perator Name SOURCES, INC.	<sup>9</sup> Elevation <b>3488</b>		

<sup>10</sup>Surface Location

D UL or lot no.	Section 11	Township 25	32	Lot Idn —	Feet from the 660'	NORTH	527'	WEST	LEA				
	<sup>11</sup> 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				
M	14	25	32	_	100'	SOUTH	330'	WEST	LEA				
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or I	infill 14Co	nsolidation Co	de <sup>15</sup> Ord	er No.								
640													

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.





### Revised Permit Information 02/02/2023:

Well Name: Ruthless 11 Fed Com 713H

Location: SHL: 660' FNL & 527' FWL, Section 11, T-25-S, R-32-E, Lea Co., N.M. BHL: 100' FSL & 330' FWL, Section 14, T-25-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	940	0 940		9-5/8"	36#	J-55	LTC
8-3/4"	0	11,134	0 11,100		7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,634	0	10,600	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,634	11,134	10,600	11,100	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	11,134	22,506	11,100	12,270	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	, 2000.pub
940' 9-5/8''	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- 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 @ 740')
11,100' 7-5/8''	480	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,050')
	1210	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag- M + 6% Bentonite Gel (TOC @ surface)
22,506' 5-1/2''	1010	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,600')



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 (7,254') 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 210 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:**

<b>Measured Depth</b>	Type	Weight (ppg)	Viscosity	Water Loss	
0 – 940'	Fresh - Gel	8.6-8.8	28-34	N/c	
940' – 11,100'	Brine	10.0-10.2	28-34	N/c	
11,100' - 11,826'	Oil Base	8.7-9.4	58-68	N/c - 6	
11,826' – 22,506' 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.



660' FNL 527' FWL **Revised Wellbore** 

KB: 3513' GL: 3488'

Section 11

T-25-S, R-32-E

API: 30-025-\*\*\*\*

Bit Size: 12-1/4"

9-5/8", 36#, J-55, LTC,

@ 0' - 940'

Bit Size: 8-3/4"

7-5/8", 29.7#, HCP-110, FXL,

@ 0' - 11,134'

Bit Size: 6-3/4"

5-1/2", 20#, P110-EC, DWC/C IS MS,

@ 0' - 10,634'

5-1/2", 20#, P110-EC, Vam Sprint SF,

@ 10,634' - 11,134'

5-1/2", 20#, P110-EC, DWC/C IS MS,

@ 11,134' - 22,506'

KOP: 11,826' MD, 11,792' TVD

EOC: 12,576' MD, 12,270' TVD

TOC: 10,634' MD, 10,600' TVD

Lateral: 22,506' MD, 12,270' TVD

**Upper Most Perf:** 

100' FNL & 330' FWL Sec. 11

**Lower Most Perf:** 

100' FSL & 330' FWL Sec. 14

BH Location: 100' FSL & 330' FWL

Sec. 14

T-25-S R-32-E



### **Design B**

### 4. CASING PROGRAM

Hole	<b>Interval MD</b>		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft) To (ft)		OD	Weight	Grade	Conn
13"	0	940	0	940	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,134	0	11,100	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	22,506	0	12,270	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:**

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
940'	250	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk 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 @ 740')
11,100' 8-3/4"	540	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,050')
	1370	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag- M + 6% Bentonite Gel (TOC @ surface)
22,506'	1660	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,600')



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 (7,254') 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 368 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"



660' FNL 527' FWL **Proposed Wellbore** 

KB: 3513' GL: 3488'

**Section 11** 

T-25-S, R-32-E

API: 30-025-\*\*\*\*

Bit Size: 13" 10-3/4", 40.5#, J-55, STC, @ 0' - 940' Bit Size: 9-7/8" 8-3/4" 38.5#, P110-EC, SLIJ II NA, @ 0' - 11,134' TOC: 10,634' MD, 10,600' TVD Lateral: 22,506' MD, 12,270' TVD Bit Size: 7-7/8" **Upper Most Perf:** 100' FNL & 330' FWL Sec. 11 6", 22.3#, P110-EC, DWC/C IS, **Lower Most Perf:** @ 0' - 22,506' 100' FSL & 330' FWL Sec. 14 BH Location: 100' FSL & 330' FWL Sec. 14 T-25-S R-32-E KOP: 11,826' MD, 11,792' TVD EOC: 12,576' MD, 12,270' TVD



### **Midland**

Lea County, NM (NAD 83 NME) Ruthless 11 Fed Com #713H

OH

Plan: Plan #0.2

## **Standard Planning Report**

07 March, 2023



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Ruthless 11 Fed Com

 Well:
 #713H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #713H

kb = 26' @ 3514.0usft kb = 26' @ 3514.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Ruthless 11 Fed Com

 Site Position:
 Northing:
 419,142.00 usft
 Latitude:
 32° 9' 1.687 N

 From:
 Map
 Easting:
 752,042.00 usft
 Longitude:
 103° 39' 9.029 W

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

**Well** #713H

**Well Position** +N/-S 0.0 usft Northing: 419,142.00 usft Latitude: 32° 9' 1.688 N +E/-W 0.0 usft Easting: 752,015.00 usft Longitude: 103° 39' 9.343 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,488.0 usft

Grid Convergence: 0.36 °

Wellbore OH

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (nT)
 Field Strength (nT)

 IGRF2020
 3/2/2022
 6.49
 59.80
 47,367.62095284

Design Plan #0.2

Audit Notes:

Version:Phase:PROTOTYPETie On Depth:0.0

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

 0.0
 0.0
 0.0
 180.86

Plan Survey Tool Program Date 3/7/2023

Depth From Depth To

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

1 0.0 22,506.3 Plan #0.2 (OH) EOG MWD+IFR1

MWD + IFR1



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Ruthless 11 Fed Com

 Well:
 #713H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #713H

kb = 26' @ 3514.0usft kb = 26' @ 3514.0usft

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,304.2	6.08	343.51	1,303.6	15.5	-4.6	2.00	2.00	0.00	343.51	
6,982.9	6.08	343.51	6,950.4	592.5	-175.4	0.00	0.00	0.00	0.00	
7,287.1	0.00	0.00	7,254.0	608.0	-180.0	2.00	-2.00	0.00	180.00	
11,825.6	0.00	0.00	11,792.5	608.0	-180.0	0.00	0.00	0.00	0.00	KOP(Ruthless 11 Fed
12,046.1	26.46	180.00	12,005.2	558.0	-180.0	12.00	12.00	81.65	180.00	FTP(Ruthless 11 Fed
12,575.6	90.00	179.58	12,269.9	130.5	-177.8	12.00	12.00	-0.08	-0.47	
17,327.3	90.00	179.58	12,270.0	-4,621.0	-143.0	0.00	0.00	0.00	0.00	Fed Perf 1(Ruthless
19,968.3	90.00	180.55	12,270.0	-7,262.0	-146.0	0.04	0.00	0.04	89.92	Fed Perf 2(Ruthless
22,506.3	90.00	179.49	12,270.0	-9,800.0	-147.0	0.04	0.00	-0.04	-90.07	PBHL(Ruthless 11 Fe

# eog resources

### **Planning Report**

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Ruthless 11 Fed Com

 Well:
 #713H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #713H

kb = 26' @ 3514.0usft kb = 26' @ 3514.0usft

Grid

esign:	1 ΙαΙΙ #0.2	Plan #U.2												
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	2.00	343.51	1,100.0	1.7	-0.5	-1.7	2.00	2.00	0.00					
1,200.0	4.00	343.51	1,199.8	6.7	-2.0	-6.7	2.00	2.00	0.00					
1,304.2	6.08	343.51	1,303.6	15.5	-4.6	-15.4	2.00	2.00	0.00					
1,400.0	6.08	343.51	1,398.9	25.2	-7.5	-25.1	0.00	0.00	0.00					
1,400.0	0.00	J <del>4</del> J.J1	1,080.8	20.2	-1.3	-20.1	0.00	0.00	0.00					
1,500.0	6.08	343.51	1,498.3	35.4	-10.5	-35.2	0.00	0.00	0.00					
1,600.0	6.08	343.51	1,597.8	45.5	-13.5	-45.3	0.00	0.00	0.00					
1,700.0														
	6.08	343.51	1,697.2	55.7	-16.5	-55.4	0.00	0.00	0.00					
1,800.0	6.08	343.51	1,796.6	65.9	-19.5	-65.6	0.00	0.00	0.00					
1,900.0	6.08	343.51	1,896.1	76.0	-22.5	-75.7	0.00	0.00	0.00					
2,000.0	6.08	343.51	1,995.5	86.2	-25.5	-85.8	0.00	0.00	0.00					
2,100.0	6.08	343.51	2,094.9	96.3	-28.5	-95.9	0.00	0.00	0.00					
2,200.0	6.08	343.51	2,194.4	106.5	-31.5	-106.0	0.00	0.00	0.00					
2,300.0	6.08	343.51	2,293.8	116.7	-34.5	-116.1	0.00	0.00	0.00					
2,400.0	6.08	343.51	2,393.3	126.8	-37.5	-126.2	0.00	0.00	0.00					
2,500.0	6.08	343.51	2,492.7	137.0	-40.6	-136.4	0.00	0.00	0.00					
2,600.0	6.08	343.51	2,592.1	147.1	-43.6	-146.5	0.00	0.00	0.00					
2,700.0	6.08	343.51	2,691.6	157.3	-46.6	-156.6	0.00	0.00	0.00					
2,800.0	6.08	343.51	2,791.0	167.5	-49.6	-166.7	0.00	0.00	0.00					
2,900.0	6.08	343.51	2,890.4	177.6	-52.6	-176.8	0.00	0.00	0.00					
3,000.0	6.08	2/2 51	2,989.9	107 0	55.6	-186.9	0.00	0.00	0.00					
,		343.51	,	187.8	-55.6									
3,100.0	6.08	343.51	3,089.3	198.0	-58.6	-197.1	0.00	0.00	0.00					
3,200.0	6.08	343.51	3,188.8	208.1	-61.6	-207.2	0.00	0.00	0.00					
3,300.0	6.08	343.51	3,288.2	218.3	-64.6	-217.3	0.00	0.00	0.00					
3,400.0	6.08	343.51	3,387.6	228.4	-67.6	-227.4	0.00	0.00	0.00					
			,											
3,500.0	6.08	343.51	3,487.1	238.6	-70.6	-237.5	0.00	0.00	0.00					
3,600.0	6.08	343.51	3,586.5	248.8	-73.6	-247.6	0.00	0.00	0.00					
3,700.0	6.08	343.51	3,685.9	258.9	-76.7	-257.7	0.00	0.00	0.00					
3,800.0	6.08	343.51	3,785.4	269.1	-79.7	-267.9	0.00	0.00	0.00					
,			,											
3,900.0	6.08	343.51	3,884.8	279.2	-82.7	-278.0	0.00	0.00	0.00					
4,000.0	6.08	343.51	3,984.2	289.4	-85.7	-288.1	0.00	0.00	0.00					
4,100.0			4,083.7	299.6	-88.7	-298.2		0.00	0.00					
	6.08	343.51					0.00							
4,200.0	6.08	343.51	4,183.1	309.7	-91.7	-308.3	0.00	0.00	0.00					
4,300.0	6.08	343.51	4,282.6	319.9	-94.7	-318.4	0.00	0.00	0.00					
4,400.0	6.08	343.51	4,382.0	330.1	-97.7	-328.6	0.00	0.00	0.00					
4 500 0	0.00	242.54		240.0	400 7	220.7	0.00	0.00	0.00					
4,500.0	6.08	343.51	4,481.4	340.2	-100.7	-338.7	0.00	0.00	0.00					
4,600.0	6.08	343.51	4,580.9	350.4	-103.7	-348.8	0.00	0.00	0.00					
4,700.0	6.08	343.51	4,680.3	360.5	-106.7	-358.9	0.00	0.00	0.00					
4,800.0	6.08	343.51	4,779.7	370.7	-109.7	-369.0	0.00	0.00	0.00					
4,900.0	6.08	343.51	4,879.2	380.9	-112.8	-379.1	0.00	0.00	0.00					
5,000.0	6.08	343.51	4,978.6	391.0	-115.8	-389.2	0.00	0.00	0.00					
5,100.0	6.08	343.51	5,078.1	401.2	-118.8	-399.4	0.00	0.00	0.00					
5,200.0	6.08	343.51	5,177.5	411.4	-121.8	-409.5	0.00	0.00	0.00					
5,300.0	6.08	343.51	5,276.9	421.5	-124.8	-419.6	0.00	0.00	0.00					



Database: PEDM Company: Midland

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 Design:
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Local Co-ordinate Reference:

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Survey Calculation Method:

Well #713H

kb = 26' @ 3514.0usft kb = 26' @ 3514.0usft

Grid

isign:	FIAII #0.2								
anned 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)
5,400.0	6.08	343.51	5,376.4	431.7	-127.8	-429.7	0.00	0.00	0.00
5,500.0	6.08	343.51	5,475.8	441.8	-130.8	-439.8	0.00	0.00	0.00
5,600.0	6.08	343.51	5,575.2	452.0	-133.8	-449.9	0.00	0.00	0.00
5,700.0	6.08	343.51	5,674.7	462.2	-136.8	-460.1	0.00	0.00	0.00
5,800.0	6.08	343.51	5,774.1	472.3	-139.8	-470.2	0.00	0.00	0.00
5,900.0	6.08	343.51	5,873.5	482.5	-142.8	-480.3	0.00	0.00	0.00
6,000.0	6.08	343.51	5,973.0	492.6	-145.8	-490.4	0.00	0.00	0.00
6,100.0	6.08	343.51	6,072.4	502.8	-148.9	-500.5	0.00	0.00	0.00
6,200.0	6.08	343.51	6,171.9	513.0	-151.9	-510.6	0.00	0.00	0.00
6,300.0	6.08	343.51	6,271.3	523.1	-154.9	-520.7	0.00	0.00	0.00
6,400.0	6.08	343.51	6,370.7	533.3	-157.9	-530.9	0.00	0.00	0.00
6,500.0	6.08	343.51	6,470.2	543.5	-160.9	-541.0	0.00	0.00	0.00
6,600.0	6.08	343.51	6,569.6	553.6	-163.9	-551.1	0.00	0.00	0.00
6,700.0	6.08	343.51	6,669.0	563.8	-166.9	-561.2	0.00	0.00	0.00
6,800.0	6.08	343.51	6,768.5	573.9	-169.9	-571.3	0.00	0.00	0.00
6,900.0	6.08	343.51	6,867.9	584.1	-172.9	-581.4	0.00	0.00	0.00
6,982.9	6.08	343.51	6,950.4	592.5	-175.4	-589.8	0.00	0.00	0.00
7,000.0	5.74	343.51	6,967.4	594.2	-175.9	-591.5	2.00	-2.00	0.00
7,100.0	3.74	343.51	7,067.0	602.1	-178.3	-599.4	2.00	-2.00	0.00
7,200.0	1.74	343.51	7,166.9	606.7	-179.6	-604.0	2.00	-2.00	0.00
7,287.1	0.00	0.00	7,254.0	608.0	-180.0	-605.2	2.00	-2.00	0.00
7,300.0	0.00	0.00	7,266.9	608.0	-180.0	-605.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,366.9	608.0	-180.0	-605.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,466.9	608.0	-180.0	-605.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,566.9	608.0	-180.0	-605.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,666.9	608.0	-180.0	-605.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,766.9	608.0	-180.0	-605.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,866.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,966.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,066.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,166.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,266.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,366.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,466.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,566.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,666.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,766.9	608.0	-180.0	-605.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,866.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,966.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,066.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,166.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,266.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,366.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,466.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,566.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,666.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,766.9	608.0	-180.0	-605.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,866.9	608.0	-180.0	-605.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,966.9	608.0	-180.0	-605.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,066.9	608.0	-180.0	-605.2 -605.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,066.9	608.0	-180.0	-605.2 -605.2	0.00	0.00	0.00
10,300.0	0.00	0.00	10,266.9	608.0	-180.0	-605.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,366.9	608.0	-180.0	-605.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,466.9	608.0	-180.0	-605.2	0.00	0.00	0.00



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Survey Calculation Method:

Well #713H

kb = 26' @ 3514.0usft

kb = 26' @ 3514.0usft

Grid Minimum Curvature

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)
10,600.0	0.00	0.00	10,566.9	608.0	-180.0	-605.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,666.9	608.0	-180.0	-605.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,766.9	608.0	-180.0	-605.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,866.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,966.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,100.0	0.00	0.00	11,066.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,200.0	0.00	0.00	11,166.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,300.0	0.00	0.00	11,266.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,400.0	0.00	0.00	11,366.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,500.0	0.00	0.00	11,466.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,600.0	0.00	0.00	11,566.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,700.0	0.00	0.00	11,666.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,800.0	0.00	0.00	11,766.9	608.0	-180.0	-605.2	0.00	0.00	0.00
11,825.6	0.00	0.00	11,792.5	608.0	-180.0	-605.2	0.00	0.00	0.00
11,850.0	2.93	180.00	11,816.9	607.4	-180.0	-604.6	12.00	12.00	0.00
11,875.0	5.93	180.00	11,841.8	605.4	-180.0	-602.7	12.00	12.00	0.00
11,900.0	8.93	180.00	11,866.6	602.2	-180.0	-599.5	12.00	12.00	0.00
11,925.0	11.93	180.00	11,891.2	597.7	-180.0	-594.9	12.00	12.00	0.00
11,950.0	14.93	180.00	11,915.5	591.9	-180.0	-589.1	12.00	12.00	0.00
11,975.0	17.93	180.00	11,939.5	584.8	-180.0	-582.1	12.00	12.00	0.00
12,000.0	20.93	180.00	11,963.0	576.5	-180.0	-573.7	12.00	12.00	0.00
12,025.0	23.93	180.00	11,986.1	567.0	-180.0	-564.2	12.00	12.00	0.00
12,046.1	26.46	180.00	12,005.2	558.0	-180.0	-555.2	12.00	12.00	0.00
12,050.0	26.93	179.99	12,008.7	556.2	-180.0	-553.5	12.00	12.00	-0.22
12,075.0	29.93	179.94	12,030.7	544.3	-180.0	-541.6	12.00	12.00	-0.19
12,100.0	32.93	179.90	12,052.0	531.3	-180.0	-528.5	12.00	12.00	-0.16
12,125.0	35.93	179.87	12,072.6	517.2	-179.9	-514.4	12.00	12.00	-0.14
12,150.0	38.93	179.84	12,092.5	502.0	-179.9	-499.2	12.00	12.00	-0.12
12,175.0	41.93	179.81	12,111.5	485.8	-179.9	-483.0	12.00	12.00	-0.10
12,200.0	44.93	179.79	12,129.7	468.6	-179.8	-465.8	12.00	12.00	-0.09
12,225.0	47.93	179.77	12,146.9	450.5	-179.7	-447.7	12.00	12.00	-0.08
12,250.0	50.93	179.75	12,163.2	431.5	-179.6	-428.7	12.00	12.00	-0.08
12,275.0	53.93	179.73	12,178.4	411.7	-179.6	-408.9	12.00	12.00	-0.07
12,300.0	56.93	179.72	12,192.6	391.1	-179.5	-388.4	12.00	12.00	-0.06
12,325.0	59.93	179.70	12,205.7	369.8	-179.4	-367.1	12.00	12.00	-0.06
12,350.0	62.93	179.69	12,217.6	347.8	-179.2	-345.1	12.00	12.00	-0.06
12,375.0	65.93	179.67	12,228.4	325.3	-179.1	-322.6	12.00	12.00	-0.05
12,400.0	68.93	179.66	12,238.0	302.2	-179.0	-299.5	12.00	12.00	-0.05
12,425.0	71.93	179.65	12,246.4	278.7	-178.8	-275.9	12.00	12.00	-0.05
12,450.0	74.93	179.64	12,253.5	254.7	-178.7	-252.0	12.00	12.00	-0.05
12,475.0	77.93	179.62	12,259.4	230.4	-178.5	-227.7	12.00	12.00	-0.05
12,500.0	80.93	179.61	12,264.0	205.8	-178.4	-203.1	12.00	12.00	-0.05
12,525.0	83.93	179.60	12,267.3	181.1	-178.2	-178.4	12.00	12.00	-0.04
12,550.0	86.93	179.59	12,269.3	156.1	-178.0	-153.4	12.00	12.00	-0.04
12,575.6	90.00	179.58	12,269.9	130.5	-177.8	-127.9	12.00	12.00	-0.04
12,600.0 12,700.0	90.00	179.58 170.58	12,269.9	106.1	-177.7 -176.9	-103.5	0.00	0.00	0.00
,	90.00	179.58	12,269.9	6.1		-3.5	0.00	0.00	0.00
12,800.0	90.00	179.58	12,269.9	-93.8	-176.2	96.5	0.00	0.00	0.00
12,900.0	90.00	179.58	12,269.9	-193.8	-175.5	196.5	0.00	0.00	0.00
13,000.0	90.00	179.58	12,270.0	-293.8	-174.7	296.4	0.00	0.00	0.00
13,100.0	90.00	179.58 170.58	12,270.0	-393.8 403.8	-174.0	396.4 406.4	0.00	0.00	0.00
13,200.0	90.00	179.58	12,270.0	-493.8	-173.3	496.4	0.00	0.00	0.00
13,300.0	90.00	179.58	12,270.0	-593.8	-172.5	596.4	0.00	0.00	0.00
13,400.0	90.00	179.58	12,270.0	-693.8	-171.8	696.3	0.00	0.00	0.00



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Ruthless 11 Fed Com

 Well:
 #713H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #713H

kb = 26' @ 3514.0usft kb = 26' @ 3514.0usft

Grid

isign:	FIAII #U.Z								
anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.00	179.58	12,270.0	-793.8	-171.1	796.3	0.00	0.00	0.00
13,600.0	90.00	179.58	12,270.0	-893.8	-170.3	896.3	0.00	0.00	0.00
13,700.0	90.00	179.58	12,270.0	-993.8	-169.6	996.3	0.00	0.00	0.00
13,700.0	90.00	179.56	12,270.0	-993.0	-109.0	996.3	0.00	0.00	0.00
13,800.0	90.00	179.58	12,270.0	-1,093.8	-168.9	1,096.2	0.00	0.00	0.00
13,900.0	90.00	179.58	12,270.0	-1,193.8	-168.1	1,196.2	0.00	0.00	0.00
14,000.0	90.00	179.58	12,270.0	-1,293.8	-167.4	1,296.2	0.00	0.00	0.00
			12,270.0						
14,100.0	90.00	179.58		-1,393.8	-166.7	1,396.2	0.00	0.00	0.00
14,200.0	90.00	179.58	12,270.0	-1,493.8	-165.9	1,496.1	0.00	0.00	0.00
14,300.0	90.00	179.58	12,270.0	-1,593.8	-165.2	1,596.1	0.00	0.00	0.00
14,400.0	90.00	179.58	12,270.0	-1,693.8	-164.5	1,696.1	0.00	0.00	0.00
14,500.0	90.00	179.58	12,270.0	-1,793.8	-163.7	1,796.1	0.00	0.00	0.00
14,600.0	90.00	179.58	12,270.0	-1,893.8	-163.0	1,896.0	0.00	0.00	0.00
14,700.0	90.00	179.58	12,270.0	-1,993.8	-162.3	1,996.0	0.00	0.00	0.00
14,800.0	90.00	179.58	12,270.0	-2,093.8	-161.5	2,096.0	0.00	0.00	0.00
14,900.0	90.00	179.58	12,270.0	-2,193.8	-160.8	2,196.0	0.00	0.00	0.00
15,000.0	90.00	179.58	12,270.0	-2,293.8	-160.1	2,295.9	0.00	0.00	0.00
15,100.0	90.00	179.58	12,270.0	-2,393.8	-159.3	2,395.9	0.00	0.00	0.00
15,200.0	90.00	179.58	12,270.0	-2,493.8	-158.6	2,495.9	0.00	0.00	0.00
15,300.0	90.00	179.58	12,270.0	-2,593.8	-157.9	2,595.9	0.00	0.00	0.00
	90.00		12,270.0						
15,400.0		179.58		-2,693.8	-157.1	2,695.8	0.00	0.00	0.00
15,500.0	90.00	179.58	12,270.0	-2,793.8	-156.4	2,795.8	0.00	0.00	0.00
15,600.0	90.00	179.58	12,270.0	-2,893.8	-155.7	2,895.8	0.00	0.00	0.00
15,700.0	90.00	179.58	12,270.0	-2,993.8	-154.9	2,995.8	0.00	0.00	0.00
15,800.0	90.00	179.58	12,270.0	-3,093.8	-154.2	3,095.7	0.00	0.00	0.00
15,900.0	90.00	179.58	12,270.0	-3,193.8	-153.5	3,195.7	0.00	0.00	0.00
16,000.0	90.00	179.58	12,270.0	-3,293.8	-152.7	3,295.7	0.00	0.00	0.00
16,100.0	90.00	179.58	12,270.0	-3,393.8	-152.0	3,395.7	0.00	0.00	0.00
16,200.0	90.00	179.58	12,270.0	-3,493.8	-151.3	3,495.6	0.00	0.00	0.00
40,000,0	00.00	470.50	40.070.0	0.500.0	450.5	0.505.0	0.00	0.00	0.00
16,300.0	90.00	179.58	12,270.0	-3,593.8	-150.5	3,595.6	0.00	0.00	0.00
16,400.0	90.00	179.58	12,270.0	-3,693.8	-149.8	3,695.6	0.00	0.00	0.00
16,500.0	90.00	179.58	12,270.0	-3,793.7	-149.1	3,795.6	0.00	0.00	0.00
16,600.0	90.00	179.58	12,270.0	-3,893.7	-148.3	3,895.5	0.00	0.00	0.00
16,700.0	90.00	179.58	12,270.0	-3,993.7	-147.6	3,995.5	0.00	0.00	0.00
16,800.0	90.00	179.58	12,270.0	-4,093.7	-146.9	4,095.5	0.00	0.00	0.00
16,900.0	90.00	179.58	12,270.0	-4,193.7	-146.1	4,195.5	0.00	0.00	0.00
17,000.0	90.00	179.58	12,270.0	-4,293.7	-145.4	4,295.4	0.00	0.00	0.00
17,100.0	90.00	179.58	12,270.0	-4,393.7	-144.7	4,395.4	0.00	0.00	0.00
17,200.0	90.00	179.58	12,270.0	-4,493.7	-143.9	4,495.4	0.00	0.00	0.00
17,300.0	90.00	179.58	12,270.0	-4,593.7	-143.2	4,595.4	0.00	0.00	0.00
17,327.3	90.00	179.58	12,270.0	-4,621.0	-143.0	4,622.6	0.00	0.00	0.00
17,400.0	90.00	179.61	12,270.0	-4,693.7	-142.5	4,695.3	0.04	0.00	0.04
17,500.0	90.00	179.64	12,270.0	-4,793.7	-141.8	4,795.3	0.04	0.00	0.04
17,600.0	90.00	179.68	12,270.0	-4,893.7	-141.2	4,895.3	0.04	0.00	0.04
			,						
17,700.0	90.00	179.72	12,270.0	-4,993.7	-140.7	4,995.3	0.04	0.00	0.04
17,800.0	90.00	179.75	12,270.0	-5,093.7	-140.3	5,095.2	0.04	0.00	0.04
17,900.0	90.00	179.79	12,270.0	-5,193.7	-139.9	5,195.2	0.04	0.00	0.04
18,000.0	90.00	179.83	12,270.0	-5,293.7	-139.5	5,295.2	0.04	0.00	0.04
18,100.0	90.00	179.86	12,270.0	-5,393.7	-139.2	5,395.2	0.04	0.00	0.04
			,						
18,200.0	90.00	179.90	12,270.0	-5,493.7	-139.0	5,495.2	0.04	0.00	0.04
18,300.0	90.00	179.94	12,270.0	-5,593.7	-138.9	5,595.2	0.04	0.00	0.04
18,400.0	90.00	179.97	12,270.0	-5,693.7	-138.8	5,695.2	0.04	0.00	0.04
18,500.0	90.00	180.01	12,270.0	-5,793.7	-138.8	5,795.1	0.04	0.00	0.04
18,600.0	90.00	180.05	12,270.0	-5,893.7	-138.9	5,895.1	0.04	0.00	0.04
18,700.0	90.00	180.08	12,270.0	-5,993.7	-139.0	5,995.1	0.04	0.00	0.04



Database: Company:

Project:

PEDM Midland

Lea County, NM (NAD 83 NME)

Site: Ruthless 11 Fed Com

 Well:
 #713H

 Wellbore:
 OH

 Design:
 Plan #0.2

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #713H

kb = 26' @ 3514.0usft kb = 26' @ 3514.0usft

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)
18,800.0	90.00	180.12	12,270.0	-6,093.7	-139.2	6,095.1	0.04	0.00	0.04
18,900.0	90.00	180.16	12,270.0	-6,193.7	-139.4	6,195.1	0.04	0.00	0.04
19,000.0	90.00	180.19	12,270.0	-6,293.7	-139.7	6,295.1	0.04	0.00	0.04
19,100.0	90.00	180.23	12,270.0	-6,393.7	-140.1	6,395.1	0.04	0.00	0.04
19,200.0	90.00	180.27	12,270.0	-6,493.7	-140.5	6,495.1	0.04	0.00	0.04
19,300.0	90.00	180.30	12,270.0	-6,593.7	-141.0	6,595.1	0.04	0.00	0.04
19,400.0	90.00	180.34	12,270.0	-6,693.7	-141.6	6,695.1	0.04	0.00	0.04
19,500.0	90.00	180.38	12,270.0	-6,793.7	-142.2	6,795.1	0.04	0.00	0.04
19,600.0	90.00	180.41	12,270.0	-6,893.7	-142.9	6,895.1	0.04	0.00	0.04
19,700.0	90.00	180.45	12,270.0	-6,993.7	-143.7	6,995.1	0.04	0.00	0.04
19,800.0	90.00	180.49	12,270.0	-7,093.7	-144.5	7,095.1	0.04	0.00	0.04
19,900.0	90.00	180.53	12,270.0	-7,193.7	-145.4	7,195.1	0.04	0.00	0.04
19,968.3	90.00	180.55	12,270.0	-7,262.0	-146.0	7,263.4	0.04	0.00	0.04
20,000.0	90.00	180.54	12,270.0	-7,293.7	-146.3	7,295.1	0.04	0.00	-0.04
20,100.0	90.00	180.50	12,270.0	-7,393.7	-147.2	7,395.1	0.04	0.00	-0.04
20,200.0	90.00	180.45	12,270.0	-7,493.7	-148.0	7,495.1	0.04	0.00	-0.04
20,300.0	90.00	180.41	12,270.0	-7,593.7	-148.8	7,595.1	0.04	0.00	-0.04
20,400.0	90.00	180.37	12,270.0	-7,693.7	-149.5	7,695.1	0.04	0.00	-0.04
20,500.0	90.00	180.33	12,270.0	-7,793.7	-150.1	7,795.1	0.04	0.00	-0.04
20,600.0	90.00	180.29	12,270.0	-7,893.7	-150.6	7,895.0	0.04	0.00	-0.04
20,700.0	90.00	180.25	12,270.0	-7,993.7	-151.1	7,995.0	0.04	0.00	-0.04
20,800.0	90.00	180.20	12,270.0	-8,093.7	-151.5	8,095.0	0.04	0.00	-0.04
20,900.0	90.00	180.16	12,270.0	-8,193.7	-151.8	8,195.0	0.04	0.00	-0.04
21,000.0	90.00	180.12	12,270.0	-8,293.7	-152.0	8,295.0	0.04	0.00	-0.04
21,100.0	90.00	180.08	12,270.0	-8,393.7	-152.2	8,395.0	0.04	0.00	-0.04
21,200.0	90.00	180.04	12,270.0	-8,493.7	-152.3	8,495.0	0.04	0.00	-0.04
21,300.0	90.00	180.00	12,270.0	-8,593.7	-152.4	8,595.0	0.04	0.00	-0.04
21,400.0	90.00	179.95	12,270.0	-8,693.7	-152.3	8,695.0	0.04	0.00	-0.04
21,500.0	90.00	179.91	12,270.0	-8,793.7	-152.2	8,795.0	0.04	0.00	-0.04
21,600.0	90.00	179.87	12,270.0	-8,893.7	-152.0	8,895.0	0.04	0.00	-0.04
21,700.0	90.00	179.83	12,270.0	-8,993.7	-151.7	8,994.9	0.04	0.00	-0.04
21,800.0	90.00	179.79	12,270.0	-9,093.7	-151.4	9,094.9	0.04	0.00	-0.04
21,900.0	90.00	179.75	12,270.0	-9,193.7	-151.0	9,194.9	0.04	0.00	-0.04
22,000.0	90.00	179.71	12,270.0	-9,293.7	-150.5	9,294.9	0.04	0.00	-0.04
22,100.0	90.00	179.66	12,270.0	-9,393.7	-150.0	9,394.9	0.04	0.00	-0.04
22,200.0	90.00	179.62	12,270.0	-9,493.7	-149.4	9,494.8	0.04	0.00	-0.04
22,300.0	90.00	179.58	12,270.0	-9,593.7	-148.7	9,594.8	0.04	0.00	-0.04
22,400.0	90.00	179.54	12,270.0	-9,693.7	-147.9	9,694.8	0.04	0.00	-0.04
22,506.3	90.00	179.49	12,270.0	-9,800.0	-147.0	9,801.1	0.04	0.00	-0.04



PEDM Database:

Company: Midland

Project: Lea County, NM (NAD 83 NME) Ruthless 11 Fed Com Site:

Well: #713H ОН Wellbore: Design: Plan #0.2 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well #713H

kb = 26' @ 3514.0usft kb = 26' @ 3514.0usft

Grid

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(Ruthless 11 Fed Control - plan hits target centres - Point	0.00 er	0.00	11,792.5	608.0	-180.0	419,750.00	751,835.00	32° 9' 7.716 N	103° 39' 11.392 W
FTP(Ruthless 11 Fed Cc - plan hits target cent - Point	0.00 er	0.00	12,005.2	558.0	-180.0	419,700.00	751,835.00	32° 9' 7.221 N	103° 39' 11.396 W
PBHL(Ruthless 11 Fed ( - plan hits target cent - Point	0.00 er	0.00	12,270.0	-9,800.0	-147.0	409,342.00	751,868.00	32° 7′ 24.721 N	103° 39' 11.773 W
Fed Perf 2(Ruthless 11 F - plan hits target cent - Point	0.00 er	0.00	12,270.0	-7,262.0	-146.0	411,880.00	751,869.00	32° 7′ 49.836 N	103° 39' 11.575 W
Fed Perf 1(Ruthless 11 F - plan hits target cent - Point	0.00 er	0.01	12,270.0	-4,621.0	-143.0	414,521.00	751,872.00	32° 8′ 15.970 N	103° 39' 11.346 W



1600-

2800-

7600-

10000-

10400

11200-

12000-

12400-

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**Azimuths to Grid North** True North: -0.36° Magnetic North: 6.13°

> **Magnetic Field** Strength: 47367.6nT Dip Angle: 59.80° Date: 3/2/2022 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.13° To convert a Magnetic Direction to a True Direction, Add 6.49° East To convert a True Direction to a Grid Direction, Subtract 0.36°

Lea County, NM (NAD 83 NME)

**Ruthless 11 Fed Com** #713H

**Plan #0.2** 

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: #713H

3488.0

kb = 26' @ 3514.0usft Northing Latittude 32° 9' 1.688 N **Easting** 419142.00

752015.00

Longitude 103° 39' 9.343 W

	SECTION 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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0		
3	1304.2	6.08	343.51	1303.6	15.5	-4.6	2.00	343.51	-15.4		
4	6982.9	6.08	343.51	6950.4	592.5	-175.4	0.00	0.00	-589.8		
5	7287.1	0.00	0.00	7254.0	608.0	-180.0	2.00	180.00	-605.2		
6	11825.6	0.00	0.00	11792.5	608.0	-180.0	0.00	0.00	-605.2	KOP(Ruthless 11 Fed Com #742H)	
7	12046.1	26.46	180.00	12005.2	558.0	-180.0	12.00	180.00	-555.2	FTP(Ruthless 11 Fed Com #742H)	
8	12575.6	90.00	179.58	12269.9	130.5	-177.8	12.00	-0.47	-127.9		
9	17327.3	90.00	179.58	12270.0	-4621.0	-143.0	0.00	0.00	4622.6	Fed Perf 1(Ruthless 11 Fed Com #742H)	
10	19968.3	90.00	180.55	12270.0	-7262.0	-146.0	0.04	89.92	7263.4	Fed Perf 2(Ruthless 11 Fed Com #742H)	
11	22506.3	90.00	179.49	12270.0	-9800.0	-147.0	0.04	-90.07	9801.1	PBHL(Ruthless 11 Fed Com #742H)	

PBHL(Ruthless 11 Fed Com #742H)

CASING DETAILS No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES) TVD +E/-W Northing **Easting** KOP(Ruthless 11 Fed Com #742H) 11792.5 608.0 419750.00 751835.00 FTP(Ruthless 11 Fed Com #742H) 12005.2 419700.00 751835.00 -4621.0 Fed Perf 1(Ruthless 11 Fed Com #742H) 12270.0 -143.0 414521.00 751872.00 Fed Perf 2(Ruthless 11 Fed Com #742H) -7262.0 -146.0 12270.0 411880.00 751869.00

-147.0

409342.00

751868.00

-9800.0

12270.0

700 -1400 -2450 -2800 -3150 -3500 -4200 ÷ 4-4550 둦-4900 -6650 -7000 -7350 -7700 -8400 -8750 -9100 -9450 -1400 -1050 West(-)/East(+)

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Vertical Section at 180.86°

Lea County, NM (NAD 83 NME) Ruthless 11 Fed Com #713H Plan #0.2 13:43, March 07 2023



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### **Cement Program**

1. No changes to the cement program will take place for offline cementing.

### **Summarized Operational Procedure for Intermediate Casing**

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
  - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
- 2. Land production casing on mandrel hanger through BOP.
  - a. If casing is unable to be landed with a mandrel hanger, then the casing will be cemented online.
- 3. Break circulation and confirm no restrictions.
  - a. Ensure no blockage of float equipment and appropriate annular returns.
  - b. Perform flow check to confirm well is static.
- 4. Set pack-off
  - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
  - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
- 5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
  - a. Minimum 4 hrs notice.
- 6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
  - a. Note, if any of the barriers fail to test, the BOP stack will not be nippled down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.
- 7. Skid/Walk rig off current well.
- 8. Confirm well is static before removing TA Plug.
  - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
  - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing.
  - c. Well control plan can be seen in Section B, Well Control Procedures.
  - d. If need be, rig can be moved back over well and BOP nippled back up for any further remediation.



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- 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.
  - 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.



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### **Example Well Control Plan Content**

### A. Well Control Component Table

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

Intermediate hole section, 5M requirement

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

### **B.** Well Control Procedures

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

### **General Procedure While Circulating**

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

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- 6. Read and record the following:
  - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
  - b. Pit gain
  - c. Time
  - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

### **General Procedure While Cementing**

- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.
- 7. Continue to place cement until plug bumps.
- 8. At plug bump close rig choke and cement head.
- 9. Read and record the following
  - a. SICP and AP
  - b. Pit gain
  - c. Time
  - d. Shut-in annulus valves on wellhead

### **General Procedure After Cementing**

- 1. Sound alarm (alert crew).
- 2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 3. Confirm shut-in.
- 4. Notify tool pusher/company representative.
- 5. Read and record the following:
  - a. SICP and AP
  - b. Pit gain
  - c. Time
  - d. Shut-in annulus valves on wellhead



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Figure 1: Cameron TA Plug and Offline Adapter Schematic





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Figure 2: Cactus TA Plug and Offline Adapter Schematic

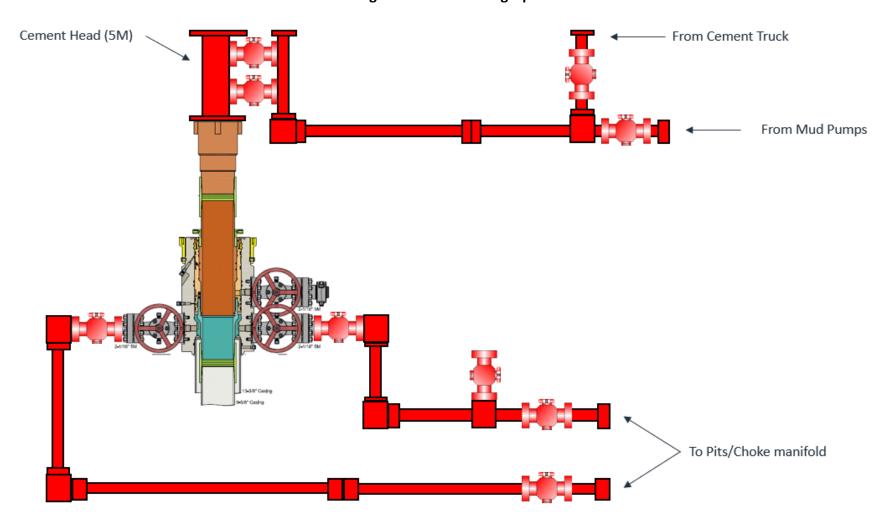


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Figure 3: Back Yard Rig Up



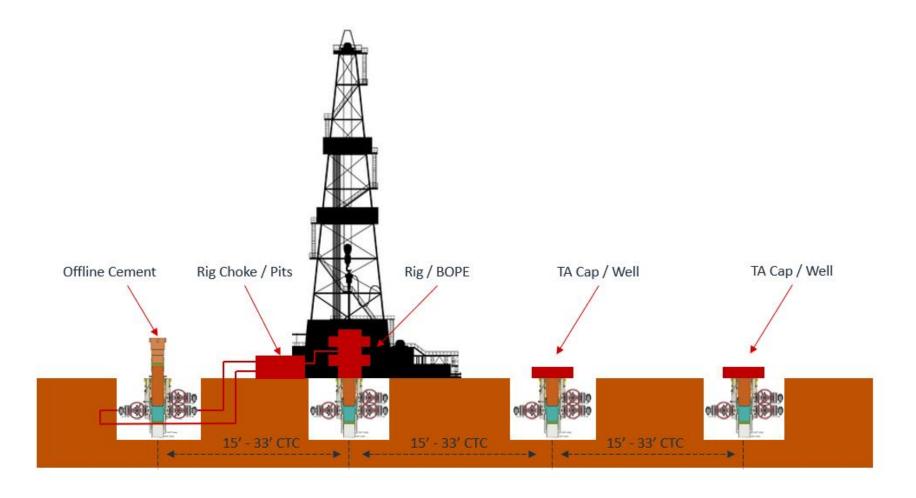
\*\*\* All Lines 10M rated working pressure

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Figure 4: Rig Placement Diagram



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### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 202259

### **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	202259
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

### CONDITIONS

Created By		Condition Date
pkautz	None	3/30/2023