Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMEN	5. Lease Serial No. NMNM26079			
SUNDRY NOTICES AND REPORTS ON Do not use this form for proposals to drill or abandoned well. Use Form 3160-3 (APD) for s	6. If Indian, Allottee of	or Tribe Name		
SUBMIT IN TRIPLICATE - Other instructions on pa	age 2	7. If Unit of CA/Agre	ement, Name and/or No.	
1. Type of Well ✓ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No	STREETCAR 15 FED COM/581H	
2. Name of Operator EOG RESOURCES INCORPORATED		9. API Well No. 30-0	25-47496	
3a. Address 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77(3b. Phone N. (713) 651-7		10. Field and Pool or DRAPER MILL/BC	Exploratory Area	
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 15/T25S/R33E/NMP		11. Country or Parish	, State	
12. CHECK THE APPROPRIATE BOX(ES) TO I	NDICATE NATURE OF NOT	ICE, REPORT OR OTI	HER DATA	
TYPE OF SUBMISSION	TYPE OF AC	TION		
Notice of Intent =	• =	luction (Start/Resume)	Water Shut-Off Well Integrity	
Subsequent Report		omplete porarily Abandon	Other	
Final Abandonment Notice Convert to Injection Plu	g Back Wate	er Disposal		
the proposal is to deepen directionally or recomplete horizontally, give subsurthe Bond under which the work will be perfonned or provide the Bond No. or completion of the involved operations. If the operation results in a multiple of completed. Final Abandonment Notices must be filed only after all requirements ready for final inspection.) EOG respectfully requests an amendment to our approved APD for the Streetcar 15 Fed 581H API #: 30-025-47496 Change name from Streetcar 15 Fed Com 581H to Streetcar 15 Fed Change BHL from T-25-S, R-33-E, Sec 10, 100' FNL, 1060' FEL, Le to T-25-S, R-33-E, Sec 15, 100' FNL, 1062' FEL, Lea Co., N.M. Update HSU to 320 acres.	n file with BLM/BIA. Required ompletion or recompletion in a nts, including reclamation, have this well to reflect the following the same than the same that	I subsequent reports munew interval, a Form 3 te been completed and	ast be filed within 30 days following 160-4 must be filed once testing has been	
14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) STAR HARRELL / Ph: (432) 848-9161	Regulatory Speciali	ist		
Signature (Electronic Submission)	Date	02/29/2	024	
THE SPACE FOR FE	DERAL OR STATE OF	ICE USE		
Approved by				
KEITH P IMMATTY / Ph: (575) 988-4722 / Approved	Title		03/05/2024 Date	
Conditions of approval, if any, are attached. Approval of this notice does not warr certify that the applicant holds legal or equitable title to those rights in the subject which would entitle the applicant to conduct 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 wil	lfully to make to any de	epartment or agency of the United States	

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, 3162.3-4.

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: \ SESE\ /\ 190\ FSL\ /\ 736\ FEL\ /\ TWSP: \ 25S\ /\ RANGE: \ 33E\ /\ SECTION: \ 15\ /\ LAT: \ 32.1238168\ /\ LONG: \ -103.5540384\ (\ TVD: \ 0\ feet\ ,\ MD: \ 0\ feet\)$ $PPP: \ SESE\ /\ 100\ FSL\ /\ 750\ FEL\ /\ TWSP: \ 25S\ /\ RANGE: \ 33E\ /\ SECTION: \ 15\ /\ LAT: \ 32.1235694\ /\ LONG: \ -103.5540853\ (\ TVD: \ 9271\ feet\ ,\ MD: \ 9280\ feet\)$ $BHL: \ NENE\ /\ 100\ FNL\ /\ 1060\ FEL\ /\ TWSP: \ 25S\ /\ RANGE: \ 33E\ /\ SECTION: \ 15\ /\ LAT: \ 32.1375329\ /\ LONG: \ -103.5540775\ (\ TVD: \ 9536\ feet\ ,\ MD: \ 14462\ feet\)$



DISTRICT I 6161 Fax: (575) 393-0720 DISTRICT II DISTRICT III DISTRICT IV 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, New Mexico 87505

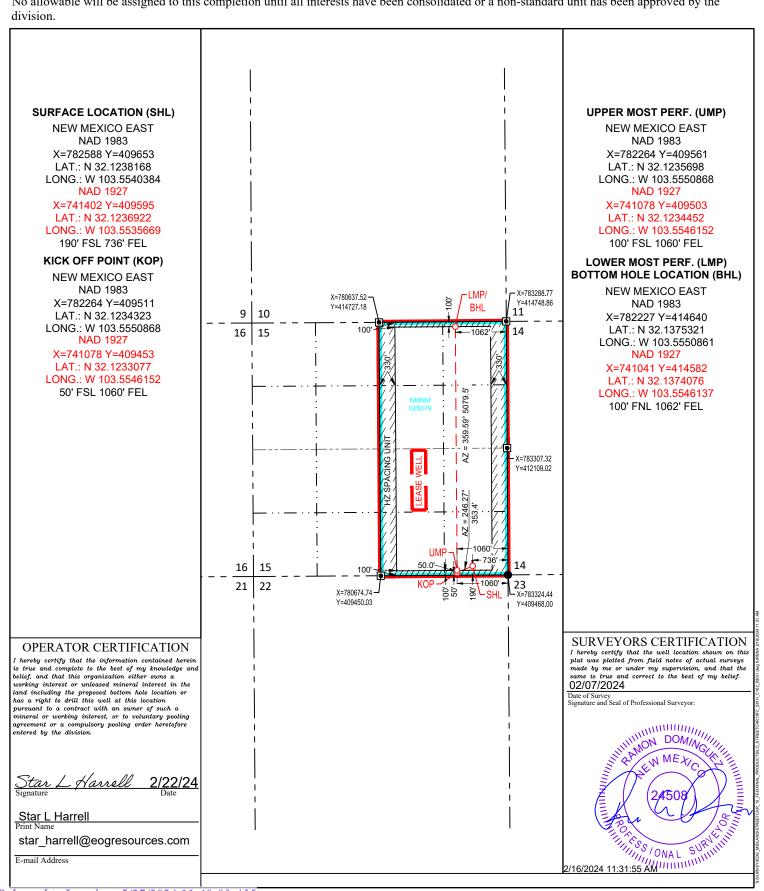
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Number									
	Property Code Property Name 315310 STREETCAR 15 FED							Well Number 581H		
OGRID No. 7377		Operator Name Elevation EOG RESOURCES, INC. 3350'								
	Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Р	15	25-S	S 33-E - 190' SOUTH		SOUTH	736'	EAST	LEA		
			Bott	om Hole	Location If Diff	erent From Surfac	ee	•	•	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
A	15	25-S	33-E -		100'	D' NORTH 1062'		EAST	LEA	
Dedicated Acres	Joint or	Infill	Consolidated Coo	de Ore	der No.					
320.00					LEASE WELL					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the





Revised Permit Information 09/28/2023:

Well Name: Streetcar 15 Fed 581H

Location: SHL: 190' FSL & 736' FEL, Section 15, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 1062' FEL, Section 15, T-25-S, R-33-E, Lea Co., N.M.

1. CASING PROGRAM A:

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	1,270	0	1,270	13-3/8"	54.5#	J-55	STC
11"	0	4,953	0	4,930	9-5/8"	40#	J-55	LTC
6-3/4"	0	16,380	0	11,490	5-1/2"	20#	P110-EC	DWC/C IS MS

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 11" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 11" 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.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Title 43 CFR Part 3170 under the following conditions:

- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues.

2. CEMENTING PROGRAM:

Depth	No. Sacks	Wt.	Yld Ft3/sk	Slurry Description
1,270'	340	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,070')
4,930' 9-5/8''	480	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	170	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 3,960')
16,380' 5-1/2''	380	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,452')
	390	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 10940')



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			

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

3. MUD PROGRAM:

Depth (TVD)	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,270'	Fresh - Gel	8.6-8.8	28-34	N/c
1,270' – 4,930'	Brine	9.0-10.5	28-34	N/c
4,930' – 16,380'	Oil Base	8.8-9.5	58-68	N/c - 6

4. VARIANCE REQUESTS:

EOG requests the additional variance(s) in the attached document(s):

Variances requested include (supporting documents attached):

- BOP Break Testing for 5M Intermediate Intervals (EOG BLM Variance 3a_b)
- Offline Cementing for Surface and Intermediate Intervals (EOG BLM Variance 3a_b)
- Salt Interval Washout Annular Clearnace (EOG BLM Variance 4a)



5. 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."

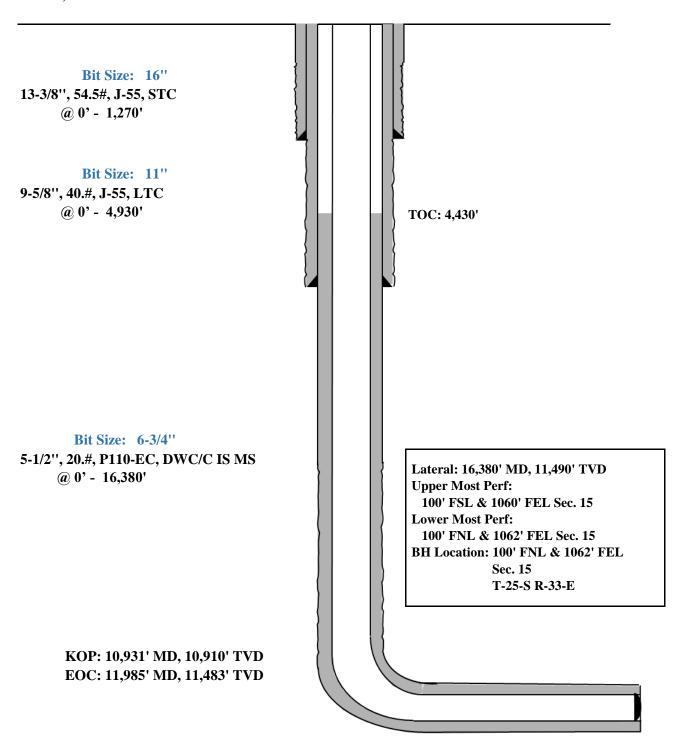
With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher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



190' FSL Revised Wellbore A: KB: 3375' 736' FEL GL: 3350'

Section 15

T-25-S, R-33-E API: 30-025-47496





Revised Permit Information 09/28/2023:

Well Name: Streetcar 15 Fed 581H

Location: SHL: 190' FSL & 736' FEL, Section 15, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 1062' FEL, Section 15, T-25-S, R-33-E, Lea Co., N.M.

1. CASING PROGRAM B:

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13-1/2"	0	1,270	0	1,270	10-3/4"	40.5#	J-55	STC
9-7/8"	0	4,953	0	4,930	8-5/8"	32#	J-55	BTC-SC
6-3/4"	0	16,380	0	11,490	5-1/2"	20#	P110-EC	DWC/C IS MS

Variance is requested to waive the centralizer requirements for the 8-5/8" 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 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.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Title 43 CFR Part 3170 under the following conditions:

- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues.

2. CEMENTING PROGRAM:

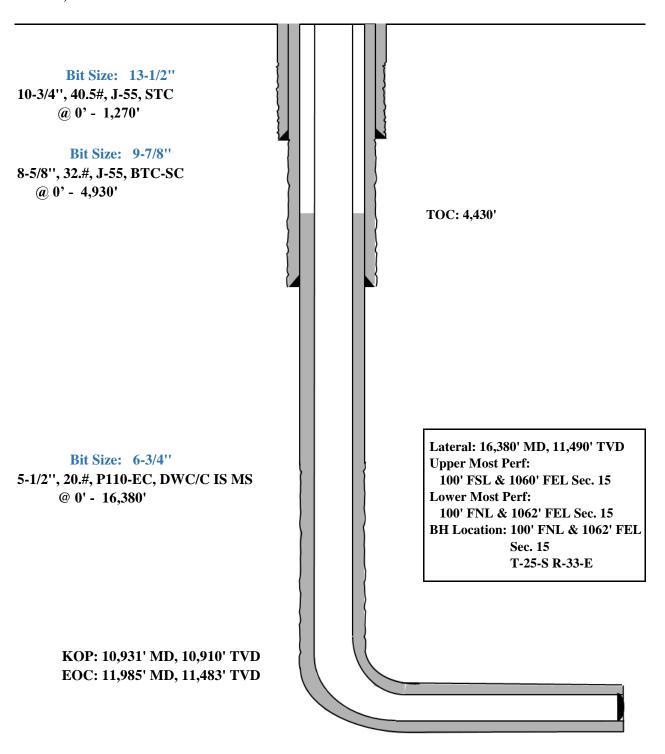
		Wt.	Yld	
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description
1,270' 10-3/4''	410	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface)
	110	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,070')
4,930' 8-5/8"	390	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	630	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 3,960')
16,380' 5-1/2"	570	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,452')
	550	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 10940')



190' Revised Wellbore B: KB: 3375' GL: 3350'

Section 15

T-25-S, R-33-E API: 30-025-47496





GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,160'
Tamarisk Anhydrite	1,241'
Top of Salt	1,434'
Base of Salt	4,831'
Lamar	5,084'
Bell Canyon	5,106'
Cherry Canyon	6,172'
Brushy Canyon	7,675'
Bone Spring Lime	9,239'
Leonard (Avalon) Shale	9,299'
1st Bone Spring Sand	10,781'
2nd Bone Spring Shale	10,376'
2nd Bone Spring Sand	10,752'
3rd Bone Spring Carb	11,219'
TD	11,490'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Wa
Bell Canyon	5,106'	Oil
Cherry Canyon	6,172'	Oil
Brushy Canyon	7,675'	Oil
Leonard (Avalon) Shale	9,299'	Oil
1st Bone Spring Sand	10,781'	Oil
2nd Bone Spring Shale	10,376'	Oil
2nd Bone Spring Sand	10,752'	Oil



Midland

Lea County, NM (NAD 83 NME) Streetcar 15 Fed #581H 140633 OH

Plan: Plan #1

Standard Planning Report

23 February, 2024



Planning Report

Database: Company: PEDM

Midland

Lea County, NM (NAD 83 NME)

Project: Site: Streetcar 15 Fed

Well: #581H Wellbore: OH Plan #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #581H

KB = 26' @ 3377.0usft KB = 26' @ 3377.0usft

Grid

Minimum Curvature

Project

Map Zone:

Well

Lea County, NM (NAD 83 NME)

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Streetcar 15 Fed Site

Site Position: From: Мар

Northing: Easting: 0.0 usft Slot Radius:

0.0 usft

0.0 usft

0.0 usft

409,714.00 usft 782,680.00 usft

Latitude: Longitude:

32° 7' 26.337 N 103° 33' 13.460 W

13-3/16 "

Position Uncertainty:

Position Uncertainty

Northing:

Wellhead Elevation:

Easting:

409,653.00 usft 782,588.00 usft Latitude: Longitude:

32° 7' 25.740 N 103° 33' 14.535 W

usft **Ground Level:** 3,351.0 usft

0.41° **Grid Convergence:**

#581H

+N/-S

+E/-W

Wellbore

Well Position

ОН

Plan #1

Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,154.76525298 IGRF2020 2/28/2024 6.21 59.72

Design

Audit Notes:

Version:

Phase: Vertical Section: Depth From (TVD) PLAN

Tie On Depth: +N/-S

0.0

+E/-W Direction (usft) (usft) (usft) (°) 359.59 0.0 0.0 0.0

Plan Survey Tool Program

Date 2/23/2024

Depth From (usft)

0.0

Depth To (usft) 16,380.2

Survey (Wellbore)

Plan #1 (OH)

Tool Name

EOG MWD+IFR1

Remarks

MWD + IFR1



Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Streetcar 15 Fed

 Well:
 #581H

 Wellbore:
 OH

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #581H

KB = 26' @ 3377.0usft KB = 26' @ 3377.0usft

Grid

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,492.8	5.86	250.18	1,492.2	-5.1	-14.1	2.00	2.00	0.00	250.18	
5,305.2	5.86	250.18	5,284.8	-136.9	-379.9	0.00	0.00	0.00	0.00	
5,597.9	0.00	0.00	5,577.0	-142.0	-394.0	2.00	-2.00	0.00	180.00	
10,930.9	0.00	0.00	10,910.0	-142.0	-394.0	0.00	0.00	0.00	0.00	KOP(Streetcar 15 Fed
11,829.3	89.84	5.79	11,483.0	426.4	-336.4	10.00	10.00	0.00	5.79	
11,984.5	89.85	359.58	11,483.4	581.4	-329.1	4.00	0.00	-4.00	-89.96	
13,695.2	89.85	359.58	11,488.0	2,292.0	-341.5	0.00	0.00	0.00	0.00	TGT#1(Streetcar 15 F
13,700.8	89.96	359.58	11,488.0	2,297.6	-341.6	2.00	2.00	0.04	1.10	
16,380.2	89.96	359.58	11,490.0	4,977.0	-361.0	0.00	0.00	0.00	0.00	PBHL(Streetcar 15 F€

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Streetcar 15 Fed

 Well:
 #581H

 Wellbore:
 OH

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #581H

KB = 26' @ 3377.0usft KB = 26' @ 3377.0usft

Grid

sigii.	T IGIT π I								
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)
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
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
0.008	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
952.0	0.00	0.00	952.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSTLER									
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,030.0	0.00	0.00	1,030.0	0.0	0.0	0.0	0.00	0.00	0.00
TAMARISK A	NHYDRITE								
1,100.0		0.00	1 100 0	0.0	0.0	0.0	0.00	0.00	0.00
,	0.00		1,100.0						
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4 000 0	4.04	250.40	4 000 0	0.5		0.5	0.00	0.00	0.00
1,292.0	1.84	250.18	1,292.0	-0.5	-1.4	-0.5	2.00	2.00	0.00
SALT TOP									
1,300.0	2.00	250.18	1,300.0	-0.6	-1.6	-0.6	2.00	2.00	0.00
1,400.0	4.00	250.18	1,399.8	-2.4	-6.6	-2.3	2.00	2.00	0.00
1,492.8	5.86	250.18	1,492.2	-5.1	-14.1	-5.0	2.00	2.00	0.00
1,500.0	5.86	250.18	1,499.5	-5.3	-14.8	-5.2	0.00	0.00	0.00
4 000 0		050.40	4 500 0		0.4.4		0.00	0.00	0.00
1,600.0	5.86	250.18	1,598.9	-8.8	-24.4	-8.6	0.00	0.00	0.00
1,700.0	5.86	250.18	1,698.4	-12.2	-33.9	-12.0	0.00	0.00	0.00
1,800.0	5.86	250.18	1,797.9	-15.7	-43.5	-15.4	0.00	0.00	0.00
1,900.0	5.86	250.18	1,897.4	-19.2	-53.1	-18.8	0.00	0.00	0.00
2,000.0	5.86	250.18	1,996.8	-22.6	-62.7	-22.2	0.00	0.00	0.00
2,100.0	5.86	250.18	2,096.3	-26.1	-72.3	-25.6	0.00	0.00	0.00
2,200.0	5.86	250.18	2,195.8	-29.5	-81.9	-28.9	0.00	0.00	0.00
2,300.0	5.86	250.18	2,295.3	-33.0	-91.5	-32.3	0.00	0.00	0.00
2,400.0	5.86	250.18	2,394.8	-36.4	-101.1	-35.7	0.00	0.00	0.00
2,500.0	5.86	250.18	2,494.2	-39.9	-110.7	-39.1	0.00	0.00	0.00
		200.10			110.7		0.00		0.00
2,600.0	5.86	250.18	2,593.7	-43.4	-120.3	-42.5	0.00	0.00	0.00
2,700.0	5.86	250.18	2,693.2	-46.8	-129.9	-45.9	0.00	0.00	0.00
,				-50.3	-139.5				
2,800.0	5.86	250.18	2,792.7			-49.3	0.00	0.00	0.00
2,900.0	5.86	250.18	2,892.1	-53.7	-149.1	-52.7	0.00	0.00	0.00
3,000.0	5.86	250.18	2,991.6	-57.2	-158.7	-56.1	0.00	0.00	0.00
0.400.0	- 00	050.46	0.004.4	22.7	100.0		2.22	2.22	2.22
3,100.0	5.86	250.18	3,091.1	-60.7	-168.3	-59.5	0.00	0.00	0.00
3,200.0	5.86	250.18	3,190.6	-64.1	-177.9	-62.8	0.00	0.00	0.00
3,300.0	5.86	250.18	3,290.1	-67.6	-187.5	-66.2	0.00	0.00	0.00
3,400.0	5.86	250.18	3,389.5	-71.0	-197.1	-69.6	0.00	0.00	0.00
3,500.0	5.86	250.18	3,489.0	-74.5	-206.7	-73.0	0.00	0.00	0.00
3,600.0	E 06	250 10	3 E00 E	70 N	216.2	76 /	0.00	0.00	0.00
	5.86	250.18	3,588.5	-78.0	-216.3	-76.4		0.00	
3,700.0	5.86	250.18	3,688.0	-81.4	-225.9	-79.8	0.00	0.00	0.00
3,800.0	5.86	250.18	3,787.5	-84.9	-235.5	-83.2	0.00	0.00	0.00
3,900.0	5.86	250.18	3,886.9	-88.3	-245.1	-86.6	0.00	0.00	0.00
4,000.0	5.86	250.18	3,986.4	-91.8	-254.7	-90.0	0.00	0.00	0.00
4,000.0	0.00	∠30.16	3,900.4	-91.0	-234.7	-90.0	0.00	0.00	0.00
4,100.0	5.86	250.18	4,085.9	-95.2	-264.3	-93.4	0.00	0.00	0.00
,									
4,200.0	5.86	250.18	4,185.4	-98.7	-273.9	-96.7	0.00	0.00	0.00
4,300.0	5.86	250.18	4,284.8	-102.2	-283.5	-100.1	0.00	0.00	0.00
								0.00	
4,400.0	5.86	250.18	4,384.3	-105.6	-293.1	-103.5	0.00	0.00	0.00

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Streetcar 15 Fed

Well: #581H Wellbore: OH Design: Plan #1 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #581H

KB = 26' @ 3377.0usft KB = 26' @ 3377.0usft

Grid

n:	ridii #1								
ed Survey									
Measured Depth (usft)	d Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600	0.0 5.86	250.18	4,583.3	-112.5	-312.3	-110.3	0.00	0.00	0.00
4,700		250.18	4,682.8	-116.0	-321.9	-113.7	0.00	0.00	0.00
4,800		250.18	4,782.2	-119.5	-331.5	-117.1	0.00	0.00	0.00
4,817		250.18	4,800.0	-120.1	-333.2	-117.7	0.00	0.00	0.00
BASE O		200.10	4,000.0	-120.1	-000.2	-117.7	0.00	0.00	0.00
		250.40	4 004 7	122.0	244.4	100 F	0.00	0.00	0.00
4,900	0.0 5.86	250.18	4,881.7	-122.9	-341.1	-120.5	0.00	0.00	0.00
5,000	0.0 5.86	250.18	4,981.2	-126.4	-350.7	-123.9	0.00	0.00	0.00
5,043	3.0 5.86	250.18	5,024.0	-127.9	-354.8	-125.3	0.00	0.00	0.00
LAMAR	LIMESTONE								
5,058		250.18	5,039.0	-128.4	-356.2	-125.8	0.00	0.00	0.00
BELL CA		2000	0,000.0	.20	555.2	.20.0	0.00	0.00	0.00
		250.18	5,080.7	120.0	260.2	127.2	0.00	0.00	0.00
5,100 5,200			,	-129.8	-360.3	-127.3 130.6	0.00	0.00	0.00
5,200	0.0 5.86	250.18	5,180.1	-133.3	-369.8	-130.6	0.00	0.00	0.00
5,305	5.2 5.86	250.18	5,284.8	-136.9	-379.9	-134.2	0.00	0.00	0.00
5,400		250.18	5,379.2	-139.7	-387.6	-136.9	2.00	-2.00	0.00
5,500		250.18	5,479.1	-141.4	-392.4	-138.6	2.00	-2.00	0.00
5,597		0.00	5,577.0	-142.0	-394.0	-139.2	2.00	-2.00	0.00
5,600		0.00	5,579.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
5,700		0.00	5,679.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
5,800		0.00	5,779.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
5,900		0.00	5,879.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,000		0.00	5,979.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,100	0.00	0.00	6,079.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,125	5.9 0.00	0.00	6,105.0	-142.0	-394.0	-139.2	0.00	0.00	0.00
	CANYON								
6,200	0.00	0.00	6,179.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,300	0.00	0.00	6,279.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,400	0.00	0.00	6,379.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,500		0.00	6,479.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,600		0.00	6,579.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,700		0.00	6,679.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,800		0.00	6,779.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
6,900		0.00	6,879.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,000	0.00	0.00	6,979.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,100	0.00	0.00	7,079.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,100		0.00	7,179.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,300		0.00	7,173.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,400		0.00	7,379.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,500		0.00	7,479.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,597		0.00	7,577.0	-142.0	-394.0	-139.2	0.00	0.00	0.00
	POROSITY								
7,600		0.00	7,579.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,700		0.00	7,679.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,800		0.00	7,779.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
7,900	0.00	0.00	7,879.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
8,000	0.00	0.00	7,979.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
8,100		0.00	8,079.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
8,200		0.00	8,179.1	-142.0 -142.0	-394.0	-139.2	0.00	0.00	0.00
8,300		0.00	8,279.1	-142.0 -142.0	-394.0	-139.2	0.00	0.00	0.00
8,400	0.00	0.00	8,379.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
8,500	0.00	0.00	8,479.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
8,600	0.00	0.00	8,579.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
8,700		0.00	8,679.1	-142.0	-394.0	-139.2	0.00	0.00	0.00
8,800		0.00	8,779.1	-142.0	-394.0	-139.2	0.00	0.00	0.00

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Streetcar 15 Fed

Well: #581H Wellbore: OH Design: Plan #1 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #581H

KB = 26' @ 3377.0usft KB = 26' @ 3377.0usft

Grid

ned S	Survey										
N	Measured Depth Inclination Azimuth (usft) (°) (°)			Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
	0.000.0			0.070.4			100.0		0.00		
	8,900.0	0.00	0.00	8,879.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,000.0	0.00	0.00	8,979.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,100.0	0.00	0.00	9,079.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,190.9	0.00	0.00	9,170.0	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	BONE SPRIN	G LIME									
	9,200.0	0.00	0.00	9,179.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,236.9	0.00	0.00	9,216.0	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	LEONARD A	SHALE									
	9,300.0	0.00	0.00	9,279.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,400.0	0.00	0.00	9,379.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,500.0	0.00	0.00	9,479.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,560.9	0.00	0.00	9,540.0	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	LEONARD B		0.00	0,0.0.0		000		0.00	0.00	0.00	
	9,600.0	0.00	0.00	9,579.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
				•							
	9,700.0	0.00	0.00	9,679.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,800.0	0.00	0.00	9,779.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	9,900.0	0.00	0.00	9,879.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,000.0	0.00	0.00	9,979.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,100.0	0.00	0.00	10,079.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,183.9	0.00	0.00	10,163.0	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	1ST BONE SI	PRING SAND									
	10,200.0	0.00	0.00	10,179.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,300.0	0.00	0.00	10,279.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,391.9	0.00	0.00	10,371.0	-142.0	-394.0	-139.2	0.00	0.00	0.00	
:	2ND BONE S	PRING SHALE									
	10,400.0	0.00	0.00	10,379.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,500.0	0.00	0.00	10,479.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,600.0	0.00	0.00	10,479.1	-142.0 -142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,700.0	0.00	0.00	10,679.1	-142.0 -142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,756.9	0.00	0.00	10,736.0	-142.0	-394.0	-139.2	0.00	0.00	0.00	
		PRING SAND	0.00	10,700.0	112.0	001.0	100.2	0.00	0.00	0.00	
•	10,800.0	0.00	0.00	10,779.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,900.0	0.00	0.00	10,879.1	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,930.9	0.00	0.00	10,910.0	-142.0	-394.0	-139.2	0.00	0.00	0.00	
	10,950.0	1.91	5.79 5.70	10,929.1	-141.7	-394.0	-138.9	10.00	10.00	0.00	
	11,000.0 11,050.0	6.91 11.91	5.79 5.79	10,978.9 11,028.2	-137.9 -129.7	-393.6 -392.8	-135.0 -126.9	10.00 10.00	10.00 10.00	0.00 0.00	
	11,100.0	16.91	5.79	11,076.6	-117.4	-391.5	-114.6	10.00	10.00	0.00	
	11,150.0	21.91	5.79	11,123.8	-100.8	-389.8	-98.0	10.00	10.00	0.00	
	11,200.0	26.91	5.79	11,169.3	-80.3	-387.7	-77.5	10.00	10.00	0.00	
	11,247.8	31.69	5.79	11,211.0	-57.0	-385.4	-54.2	10.00	10.00	0.00	
		PRING CARBOI					_				
	11,250.0	31.91	5.79	11,212.9	-55.9	-385.3	-53.1	10.00	10.00	0.00	
	11,300.0	36.91	5.79	11,254.1	-27.8	-382.4	-25.0	10.00	10.00	0.00	
	11,350.0	41.91	5.79	11,292.7	3.8	-379.2	6.5	10.00	10.00	0.00	
	11,400.0	46.91	5.79	11,328.4	38.6	-375.7	41.3	10.00	10.00	0.00	
	11,450.0	51.91	5.79	11,360.9	76.4	-371.9	79.0	10.00	10.00	0.00	
	11,500.0	56.91	5.79	11,390.0	116.8	-367.8	119.4	10.00	10.00	0.00	
	11,550.0	61.91	5.79	11,415.5	159.6	-363.4	162.2	10.00	10.00	0.00	
	11,600.0	66.91	5.79 5.79	11,415.5	204.5	-363.4 -358.9	207.0	10.00	10.00	0.00	
	11,650.0	71.91	5.79 5.79	11,454.6	204.5 251.0	-356.9 -354.1	253.6	10.00	10.00	0.00	
	11,695.4	71.91 76.45	5.79	11,454.0	294.4	-349.7	296.9	10.00	10.00	0.00	
	11,000.4		NATE TOW	11,401.0	207.7	0-10.1	200.0	10.00	10.00	0.00	



Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Streetcar 15 Fed

Well: #581H Wellbore: OH Design: Plan #1 Local Co-ordinate Reference:

TVD Reference:
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North Reference:

Survey Calculation Method:

Well #581H

KB = 26' @ 3377.0usft KB = 26' @ 3377.0usft

Grid

76.91 81.91 86.91 89.84 89.85 89.85 89.85	Azimuth (°) 5.79 5.79 5.79	Vertical Depth (usft) 11,468.1	+N/-S (usft)	+E/-W	Vertical Section	Dogleg Rate	Build	Turn
76.91 81.91 86.91 89.84 89.84 89.85 89.85 89.85 89.85	(°) 5.79 5.79	Depth (usft)						
76.91 81.91 86.91 89.84 89.85 89.85 89.85 89.85	5.79 5.79		(usft)				Rate	Rate
81.91 86.91 89.84 89.84 89.85 89.85 89.85 89.85	5.79	11,468.1		(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
86.91 89.84 89.84 89.85 89.85 89.85			298.9	-349.3	301.4	10.00	10.00	0.00
86.91 89.84 89.84 89.85 89.85 89.85		11,477.3	347.8	-344.3	350.3	10.00	10.00	0.00
89.84 89.84 89.85 89.85 89.85 89.85	ວ./ ອ	11,482.1	397.3	-339.3	399.7	10.00	10.00	0.00
89.84 89.85 89.85 89.85 89.85	5.79	11,483.0	426.4	-336.4	428.8	10.00	10.00	0.00
89.85 89.85 89.85 89.85	2.96	11,483.2	496.9	-331.0	499.3	4.00	0.00	-4.00
89.85 89.85	359.58	11,483.4	581.4	-329.1	583.7	4.00	0.00	-4.00
89.85 89.85	359.58	11,483.4	596.9	-329.2	599.2	0.00	0.00	0.00
89.85	359.58	11,483.7	696.9	-329.9	699.2	0.00	0.00	0.00
	359.58	11,484.0	796.9	-330.7	799.2	0.00	0.00	0.00
89.85	359.58	11,484.2	896.9	-331.4	899.2	0.00	0.00	0.00
89.85	359.58	11,484.5	996.9	-332.1	999.2	0.00	0.00	0.00
89.85	359.58	11,484.8	1,096.9	-332.8	1,099.2	0.00	0.00	0.00
89.85	359.58	11,485.0	1,196.9	-333.6	1,199.2	0.00	0.00	0.00
89.85	359.58	11,485.3	1,296.9	-334.3	1,299.2	0.00	0.00	0.00
89.85	359.58	11,485.6	1,396.9	-335.0	1,399.2	0.00	0.00	0.00
89.85	359.58	11,485.9	1,496.9	-335.8	1,499.2	0.00	0.00	0.00
89.85	359.58	11,486.1	1,596.9	-336.5	1,599.2	0.00	0.00	0.00
89.85	359.58	11,486.4	1,696.9	-337.2	1,699.2	0.00	0.00	0.00
89.85	359.58	11,486.7	1,796.9	-337.9	1,799.2	0.00	0.00	0.00
89.85	359.58	11,486.9	1,896.8	-338.7	1,899.2	0.00	0.00	0.00
89.85	359.58	11,487.2	1,996.8	-339.4	1,999.2	0.00	0.00	0.00
89.85	359.58	11,487.5	2,096.8	-340.1	2,099.2	0.00	0.00	0.00
89.85	359.58	11,487.7	2,196.8	-340.9	2,199.2	0.00	0.00	0.00
89.85	359.58	11,488.0	2,190.0	-341.5	2,199.2	0.00	0.00	0.00
89.96	359.58	11,488.0	2,297.6	-341.6	2,300.0	2.00	2.00	0.04
89.96	359.58	11,488.1	2,396.8	-342.3	2,399.2	0.00	0.00	0.00
89.96	359.58	11,488.2	2,496.8	-343.0	2,499.2	0.00	0.00	0.00
89.96	359.58	11,488.2	2,596.8	-343.8	2,599.2	0.00	0.00	0.00
89.96	359.58	11,488.3	2,696.8	-344.5	2,699.2	0.00	0.00	0.00
89.96	359.58	11,488.4	2,796.8	-345.2	2,799.2	0.00	0.00	0.00
89.96	359.58	11,488.5	2,896.8	-345.9	2,899.2	0.00	0.00	0.00
89.96	359.58	11,488.5	2,996.8	-346.7	2,999.2	0.00	0.00	0.00
89.96	359.58	11,488.6	3,096.8	-347.4	3,099.2	0.00	0.00	0.00
89.96	359.58	11,488.7	3,196.8	-348.1	3,199.2	0.00	0.00	0.00
89.96	359.58	11,488.8	3,296.8	-348.8	3,299.2	0.00	0.00	0.00
89.96	359.58	11,488.8	3,396.8	-349.6	3,399.2	0.00	0.00	0.00
89.96	359.58	11,488.9	3.496.8	-350.3	3,499.2	0.00	0.00	0.00
89.96	359.58	11,489.0	3,596.8	-350.3 -351.0	3,599.2	0.00	0.00	0.00
89.96	359.58	11,489.0	3,696.8	-351.0	3,699.2	0.00	0.00	0.00
89.96	359.58	11,489.1	3,796.8	-352.4	3,799.2	0.00	0.00	0.00
89.96	359.58	11,489.2	3,896.8	-353.2	3,899.2	0.00	0.00	0.00
89.96	359.58	11,489.3	3,996.8	-353.9	3,999.2	0.00	0.00	0.00
89.96	359.58	11,489.3	4,096.8	-354.6	4,099.2	0.00	0.00	0.00
89.96	359.58	11,489.4	4,196.8	-355.3	4,199.2	0.00	0.00	0.00
89.96	359.58 350.58	11,489.5 11,489.6	4,296.8	-356.1	4,299.2	0.00	0.00	0.00
	309.58					0.00		0.00
80 0e	359.58	11,489.6	4,496.8	-357.5	4,499.2	0.00	0.00	0.00
09.90	359.58	11,489.7	4,596.8	-358.2	4,599.2	0.00	0.00	0.00
89.96 89.96	359.58	11,489.8	4,696.8	-359.0	4,699.2	0.00	0.00	0.00
	359.58	11,489.9	4,796.8	-359.7	4,799.2	0.00	0.00	0.00
89.96	359.58	11,489.9	4,896.8	-360.4	4,899.2	0.00	0.00	0.00
89.96 89.96	350 58	11 / QO O	4 077 N	-361 N	⊿ 070 5	0.00	0.00	0.00
	89.96 89.96	89.96 359.58 89.96 359.58 89.96 359.58 89.96 359.58 89.96 359.58	89.96 359.58 11,489.6 89.96 359.58 11,489.7 89.96 359.58 11,489.8 89.96 359.58 11,489.9 89.96 359.58 11,489.9	89.96 359.58 11,489.6 4,496.8 89.96 359.58 11,489.7 4,596.8 89.96 359.58 11,489.8 4,696.8 89.96 359.58 11,489.9 4,796.8 89.96 359.58 11,489.9 4,896.8	89.96 359.58 11,489.6 4,496.8 -357.5 89.96 359.58 11,489.7 4,596.8 -358.2 89.96 359.58 11,489.8 4,696.8 -359.0 89.96 359.58 11,489.9 4,796.8 -359.7 89.96 359.58 11,489.9 4,896.8 -360.4	89.96 359.58 11,489.6 4,496.8 -357.5 4,499.2 89.96 359.58 11,489.7 4,596.8 -358.2 4,599.2 89.96 359.58 11,489.8 4,696.8 -359.0 4,699.2 89.96 359.58 11,489.9 4,796.8 -359.7 4,799.2 89.96 359.58 11,489.9 4,896.8 -360.4 4,899.2	89.96 359.58 11,489.6 4,496.8 -357.5 4,499.2 0.00 89.96 359.58 11,489.7 4,596.8 -358.2 4,599.2 0.00 89.96 359.58 11,489.8 4,696.8 -359.0 4,699.2 0.00 89.96 359.58 11,489.9 4,796.8 -359.7 4,799.2 0.00 89.96 359.58 11,489.9 4,896.8 -360.4 4,899.2 0.00	89.96 359.58 11,489.6 4,496.8 -357.5 4,499.2 0.00 0.00 89.96 359.58 11,489.7 4,596.8 -358.2 4,599.2 0.00 0.00 89.96 359.58 11,489.8 4,696.8 -359.0 4,699.2 0.00 0.00 89.96 359.58 11,489.9 4,796.8 -359.7 4,799.2 0.00 0.00 89.96 359.58 11,489.9 4,896.8 -360.4 4,899.2 0.00 0.00



Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Streetcar 15 Fed

 Well:
 #581H

 Wellbore:
 OH

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference: Survey Calculation Method: Well #581H

KB = 26' @ 3377.0usft KB = 26' @ 3377.0usft

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(Streetcar 15 Fed C - plan hits target cen - Polygon		0.00	10,910.0	-142.0	-394.0	409,511.00	782,194.00	32° 7′ 24.363 N	103° 33' 19.128 W
Point 1 Point 2			10,910.0 10,910.0	50.0 50.0	-30.0 30.0	409,561.00 409,561.00	782,164.00 782,224.00		
Point 3			10,910.0	-30.0	30.0	409,481.00	782,224.00		
Point 4			10,910.0	-30.0	-30.0	409,481.00	782,164.00		
FTP(Streetcar 15 Fed C	0.00	0.00	11,483.0	-92.0	-324.0	409,561.00	782,264.00	32° 7' 24.853 N	103° 33' 18.310 W
- plan misses target - Point	center by 208	.6usft at 114	05.9usft MD	(11332.4 TVD), 42.9 N, -375	.3 E)			
TGT#1(Streetcar 15 Fed - plan hits target cen - Point		0.00	11,488.0	2,292.0	-341.5	411,945.00	782,246.45	32° 7′ 48.445 N	103° 33' 18.314 W
PBHL(Streetcar 15 Fed - plan hits target cen - Rectangle (sides W		359.59	11,490.0	4,977.0	-361.0	414,630.00	782,227.00	32° 8′ 15.015 N	103° 33' 18.314 W

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	952.0	952.0	RUSTLER				
	1,030.0	1,030.0	TAMARISK ANHYDRITE				
	1,292.0	1,292.0	SALT TOP				
	4,817.9	4,800.0	BASE OF SALT				
	5,043.0	5,024.0	LAMAR LIMESTONE				
	5,058.1	5,039.0	BELL CANYON				
	6,125.9	6,105.0	CHERRY CANYON				
	7,597.9	7,577.0	BRUSHYPOROSITY				
	9,190.9	9,170.0	BONE SPRING LIME				
	9,236.9	9,216.0	LEONARD A SHALE				
	9,560.9	9,540.0	LEONARD B SHALE				
	10,183.9	10,163.0	1ST BONE SPRING SAND				
	10,391.9	10,371.0	2ND BONE SPRING SHALE				
	10,756.9	10,736.0	2ND BONE SPRING SAND				
	11,247.8	11,211.0	3RD BONE SPRING CARBONATE				
	11,695.4	11,467.0	3RD BONE SPRING CARBONATE TOV				

eived by OCD: 3/12/2024 9:29:55 AM Lea County, NM (NAD 83 NME) Streetcar 15 Fed #581H Plan #1 eog resources PROJECT DETAILS: Lea County, NM (NAD 83 NME) **Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Azimuths to Grid North** Ellipsoid: GRS 1980 True North: -0.41° **Zone: New Mexico Eastern Zone** Magnetic North: 5.80° System Datum: Mean Sea Level **Magnetic Field** Strength: 47154.8nT **⊈PBHL**(Stree car 15 Fed 35m #581H) Dip Angle: 59.72° **WELL DETAILS: #581H** Date: 2/28/2024 Model: IGRF2020 3351.0 KB = 26' @ 3377.0usft **Easting** Northing Latittude Longitude To convert a Magnetic Direction to a Grid Direction, Add 5.80° To convert a Magnetic Direction to a True Direction, Add 6.21° East To convert a True Direction to a Grid Direction, Subtract 0.41° 409653.00 782588.00 32° 7' 25.740 N 103° 33' 14.535 W 800 RUSTLER TAMARISK ANHYDRITE **SECTION DETAILS** 3900-1200 SALT TOP MD **TVD** +N/-S **VSect** Sec +E/-W Dleg **Target** Azi **TFace** Inc 1600 0.00 0.0 0.00 0.00 0.00 Start 3812.4 hold at 1492.8 MD 0.0 0.00 0.00 1200.0 1200.0 3300 -5.0 1492.2 -5.1 1492.8 250.18 250.18 -14.1 -379.9 5305.2 250.18 -136.9 -134.2 5284.8 0.00 0.00 5597.9 5577.0 -394.0 -139.2 0.00 -142.0 2.00 180.00 -142.0 -394.0 0.00 -139.2 KOP(Streetcar 15 Fed Com #581H) 0.00 10910.0 0.00 10930.9 5.79 11829.3 89.84 5.79 11483.0 426.4 -336.4 10.00 428.8 2800 -89.96 583.7 11984.5 359.58 11483.4 581.4 4.00 13695.2 89.85 359.58 11488.0 -341.5 0.00 2294.4 TGT#1(Streetcar 15 Fed Com #581H) 2292.0 0.00 2300.0 2297.6 -341.6 1.10 89.96 359.58 11488.0 2.00 13700.8 2400-89.96 359.58 -361.0 4979.5 11490.0 4977.0 0.00 0.00 PBHL(Streetcar 15 Fed Com #581H) 16380.2 TGT#1(Streetcar 15 Fec Com #581H) WELLBORE TARGET DETAILS (MAP CO-ORDINATES) +N/-S **Northing Easting KOP(Streetcar 15 Fed Com #581H)** -394.0 782194.00 10910.0 -142.0 409511.00 FTP(Streetcar 15 Fed Com #581H) BASE OF SALT 409561.00 11483.0 -92.0 -324.0 782264.00 TGT#1(Streetcar 15 Fed Com #581H) 2292.0 411945.00 782246.45 11488.0 Start Dropan PON PBHL(Streetcar 15 Fed Com #581H) 11490.0 4977.0 414630.00 782227.00 5200 LAMAR LIMESTONE Start 5333.0 hold at 5597.9 MD 600-5600 West(-)/East(+) (150 usft/in) West(-)/East(+) (100 usft/in) FTP(Streetcar 15 Fed Com #581H)
KOP(Streetcar 15 Fed Com #581H) #27H/OH Lease Line PBHL(Streetcar 15 Fed Com #581H) 100' Hardline 7200 Start 1710.7 hold at 11984 5 BRUSHYPOROSITY TD at 16380.2 -900 West(-)/East(+) (300 usft/in) treetcar 15 Fed/#406H/OH Start DLS 4.00 TFO -89.96 West(-)/East(+) (20 usft/in) Start Build 2.00 9200 FTP(Streetcar 15 Fed Com #581H) (OR(Streetcer #507#003010#581H) 100 Hardline Lease Line Start 5333.0 hold at 5597.9 MD Start Drop -2.00 /#209H West(-)/East(+) (100 usft/in) West(-)/East(+) (150 usft/in) -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 g 11000-KOP(Streetcar 15 Fed Com #581H) West(-)/East(+) (20 usft/in) Start DLS 4.00 TFO -89.96 Start DLS 2.00 TFO 1.10 3RD BONE SPRING CARBONATE PBHL(Streetcar 15 Fed Com #581H) Start 1710.7 hold at 11984.5 MD Start 2679.5 hold at 13700.8 MD **>** 11400 TD at 16380.2 reetcar 15 Fed/#581H/I 3RD BONE SPRING CAREONSTEE OW 15 Fed Com #581H)
3RD BONE SPRING CARBONATE BOW TGT#1(Streetcar 15 Fed Com #581H) Lea County, NM (NAD 83 NME) Streetcar 15 Fed 2600 2800 3200 3400 3800 4800 1000 1400 1600 4000 4200 Vertical Section at 359.59° (200 usft/in) 8:56, February 23 2024 Measured Depth (2500 usft/in) Released to Imaging: 5/27/2024 11:40:03 AM

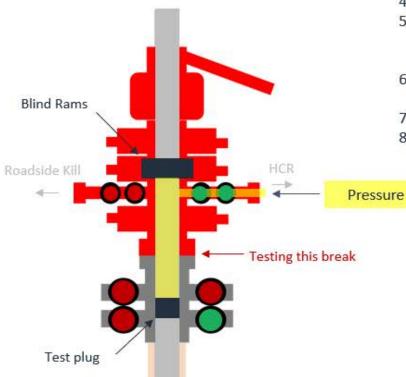


Break-test BOP & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) 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.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular à during each full BOPE test
 - Upper Pipe Rams à On trip ins where FIT required
 - Blind Rams à Every trip
 - Lower Pipe Rams à during each full BOPE test
- 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.

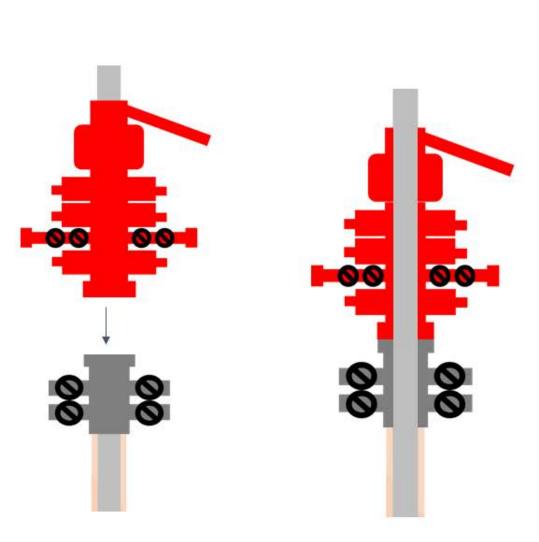
Break Test Diagram (HCR valve)

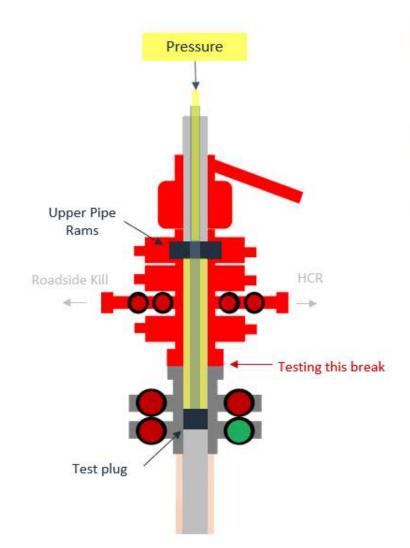


Steps

- 1. Set plug in wellhead (lower barrier)
- 2. Close Blind Rams (upper barrier)
- 3. Close roadside kill
- 4. Open HCR (pressure application)
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- Tie BOP testers high pressure line to main choke manifold crown valve
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit

Break Test Diagram (Test Joint)





Steps

- Set plug in with test joint wellhead (lower barrier)
- 2. Close Upper Pipe Rams (upper barrier)
- 3. Close roadside kill
- Close HCR
- Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
- Tie BOP testers high pressure line to top of test joint
- 7. Pressure up to test break
- Bleed test pressure from BOP testing unit



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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

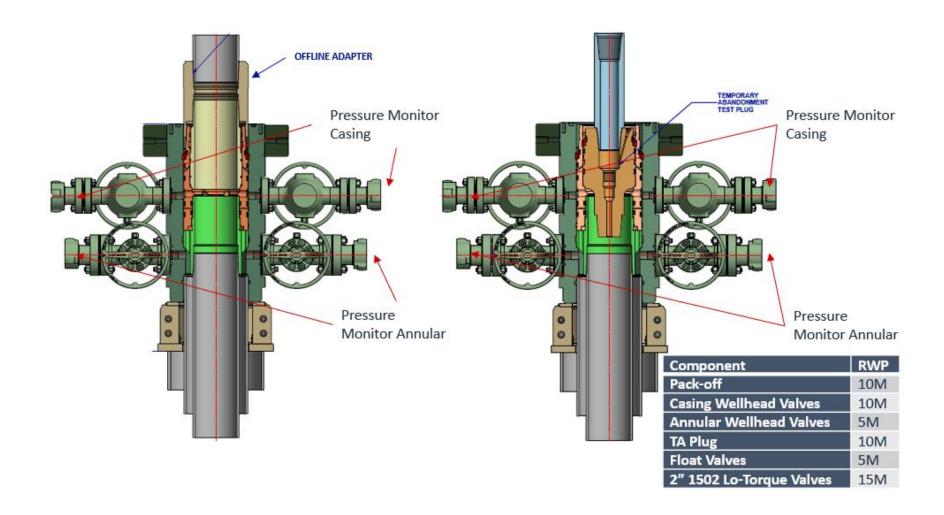
General Procedure After Cementing

- 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



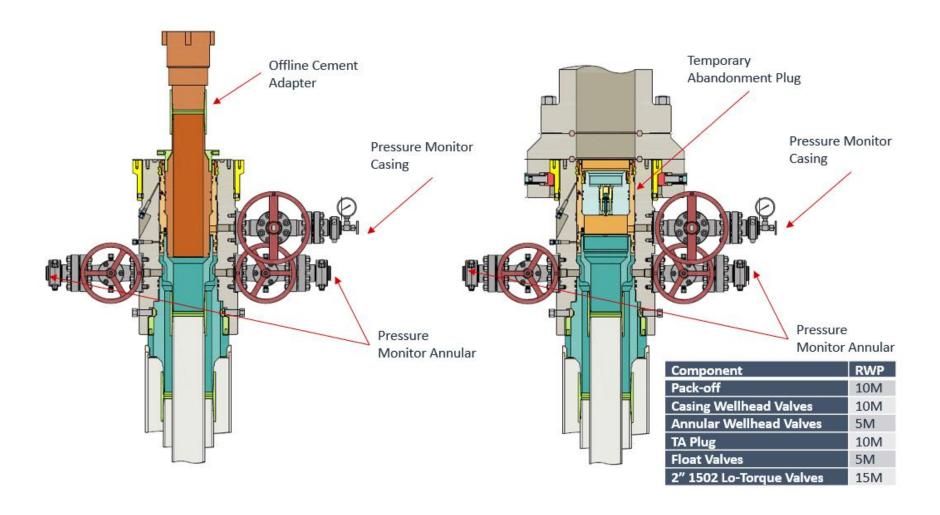
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Figure 1: Cameron TA Plug and Offline Adapter Schematic



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Figure 2: Cactus TA Plug and Offline Adapter Schematic

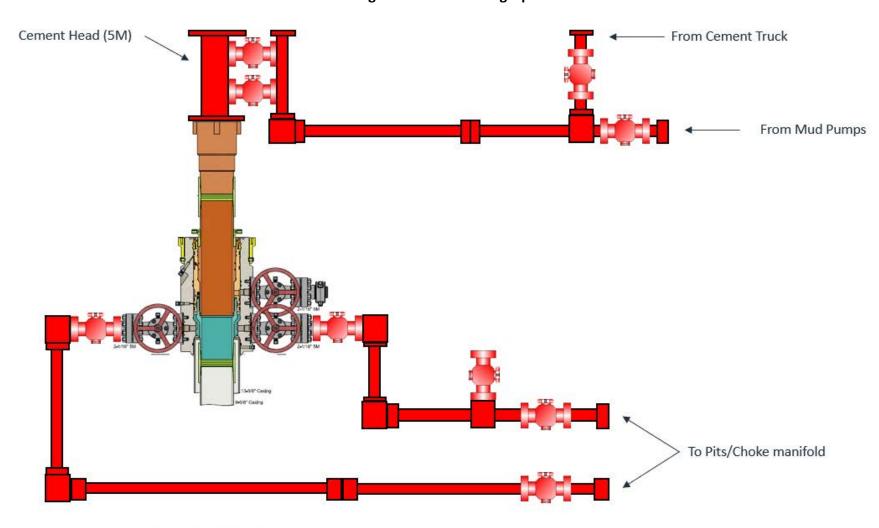


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Figure 3: Back Yard Rig Up



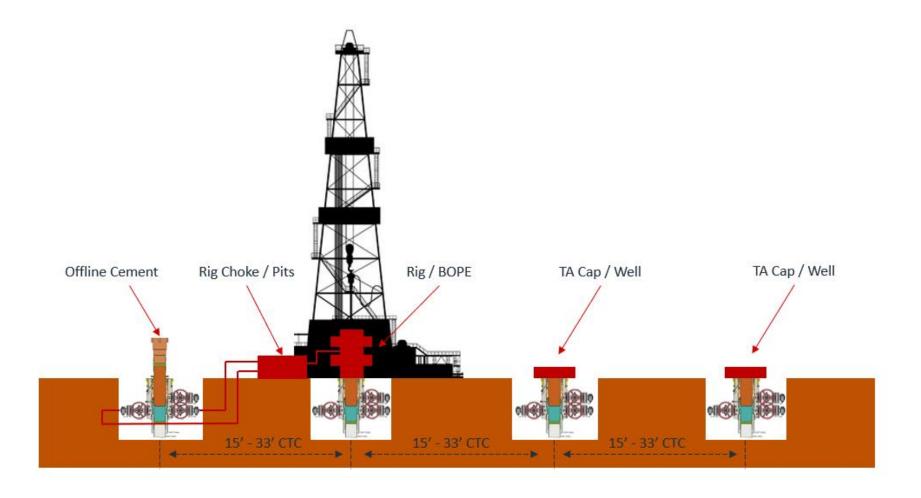
*** All Lines 10M rated working pressure

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Figure 4: Rig Placement Diagram



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District I
1625 N. French Dr., Hobbs, NM 88240
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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 322479

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	322479
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	5/27/2024