Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM85937 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone **NEVER BETTER 14 FED COM** 705H 2. Name of Operator 9. API Well No. EOG RESOURCES INCORPORATED 30-025-55491 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77002 (713) 651-7000 WC-025 G-09 S233216K/UPPER WOLFC 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 14/T22S/R32E/NMP At surface TR B / 770 FNL / 2468 FWL / LAT 32.396941 / LONG -103.644923 At proposed prod. zone TR O / 100 FSL / 2310 FEL / LAT 32.370284 / LONG -103.644387 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State LEA NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 100 feet location to nearest property or lease line, ft. 1280.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 12150 feet / 22412 feet FED: NM2308 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3713 feet 01/25/2025 25 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date SHEA BAILEY / Ph: (713) 651-7000 (Electronic Submission) 05/08/2024 Title Regulatory Contractor Approved by (Signature) Name (Printed/Typed) Date 03/05/2025 (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. 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

APPROVED WITH CONDITIONS Released to Imaging: 11/24/2025 9:49:34 AM Approval Date: 03/05/2025

(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: TR B / 770 FNL / 2468 FWL / TWSP: 22S / RANGE: 32E / SECTION: 14 / LAT: 32.396941 / LONG: -103.644923 (TVD: 0 feet, MD: 0 feet) PPP: TR B / 100 FNL / 2310 FEL / TWSP: 22S / RANGE: 32E / SECTION: 14 / LAT: 32.398784 / LONG: -103.644415 (TVD: 11885 feet, MD: 11942 feet) PPP: TR J / 2640 FSL / 2310 FEL / TWSP: 22S / RANGE: 32E / SECTION: 14 / LAT: 32.391786 / LONG: -103.644407 (TVD: 12150 feet, MD: 14590 feet) BHL: TR O / 100 FSL / 2310 FEL / TWSP: 22S / RANGE: 32E / SECTION: 23 / LAT: 32.370284 / LONG: -103.644387 (TVD: 12150 feet, MD: 22412 feet)

BLM Point of Contact

Name: MARIAH HUGHES Title: Land Law Examiner Phone: (575) 234-5972 Email: mhughes@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

C-102					State of N	ew Mexico			Revis	ed July 9, 2024
Submit Electronic	cally		Energy	z Mine			Resources Department		▼Initial Submittal	
Via OCD Permitt						ATION DIV		Submittal Type:	Amended Report	
				- L	01,021,1	22201, 22	, 12101	Type.	As Drilled	
Property Name and	Well Number									
				NE	VER BETTE	R 14 FED C	ОМ 705Н			
		W	ELL LO	CATIO	ON AND A	CREAGE	DEDICATION	N PLAT		
API Number Pool Code Pool Name										
30-025-5	5491	Property N		98166		'	WC-025 G-09 S2	33216K, L	Vell Number	MP
Property Code 336529		Property N	ame	1	NEVED BET	TER 14 FED	COM)5H
OGRID No.		Operator N	lame		NEVEN DE I	ILK 141 LD	CON		Ground Level Ele	
73	77				EOG RES	OURCES, II	NC.		37	713'
Surface Owner:	State Fee [Tribal X Fed	eral			Mineral Owner:	State Fee Tribal	Federal	•	
					Surfa	ce Location				
UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County
В	14	22 S	32 E		770 FNL	2468 FEL	N 32.396941°	W 10	3.644923°	LEA
				3ottom			From Surface			
UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County
0	23	22 S	32 E		100 FSL	2310 FEL	N 32.370284°	W 10	3.644387°	LEA
Dedicated Acres	Infill or Def	ning Well Defi	ning Well API			Overlapping Spa	acing Unit (Y/N)	Consolidate	ed Code	
1280	-DEFII			PENDI	NG		N		С	
Order Numbers	NSP OF	RDER 223	3: COM F	PENDIN	IG	 	Well Setback	s are under Comm	on Ownership: Ye	s No
					Kick Of	f Point (KOP	<u>'</u>)			
UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County
В	14	22 S	32 E		50 FNL	2310 FEL	N 32.398922°	W 10	3.644416°	LEA
First Take Point (FTP)										
UL or lot no.	Section	Township	Range	Lot	Feet from the N/S		Latitude		Longitude	County
В	14	22 S	32 E		100 FNL	2310 FEL	N 32.398784°	W 10	3.644415°	LEA
III 1.	g .:	T 1:	D	т.		ce Point (LTF			T 2 1	
UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	W 46	Longitude	County
0	23	22 S	32 E		100 FSL	2310 FEL	N 32.370284°	W 10	3.644387°	LEA
Unitized Area or A				Spacing	Unity Type	zontal Vertical	Ground I	Floor Elevation		
	UNITIZE	DAREA			Anon	zoniai verticai			3738'	
OPERATOR CERTIFICATION			SURVEY	ORS CERTIFICA	ΓΙΟΝ					
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.										
Star A	L Har	rell	9/22/2 Date	25			Signature and Seal of Professional Surveyor Date I hereby certify that the well location shown on this plat was plotted from field			
Star L H	arrel					notes of act	notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.			
star_har	rell@eo	aresoura	es.com				LL L. MCDONAL		L.S.	
E-mail Address		J				Certificate Nur	Certificate Number 29821 Date of Survey MARCH 13, 2025			

Note: 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.

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Submit Electronically Via OCD Permitting

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

	Revised July 9, 202
a 1 1 1 1	Initial Submittal
Submittal Type:	Amended Report
71	As Drilled

Property Name and Well Number

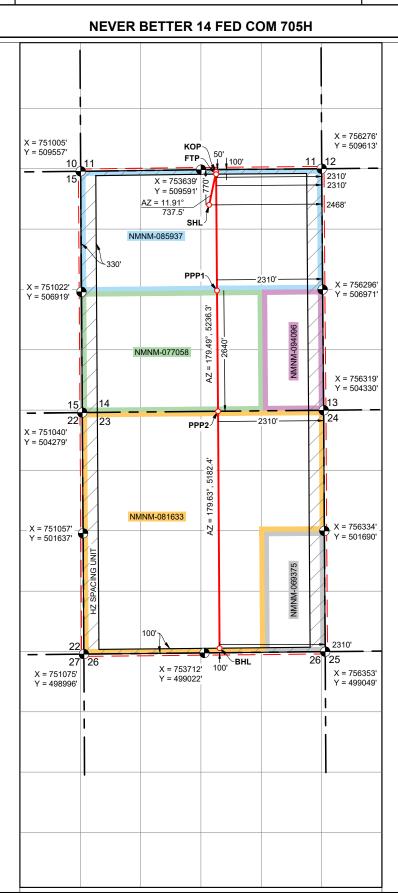
SURFACE LOCATION NEW MEXICO EAST NAD 1983 X=753814' Y=508822' LAT=N32.396941° LONG=W103.644923° NAD 1927 X=712632' Y=508762' LAT=N32.396818° LONG=W103.644437° 770' FNL 2468' FEL

KOP LOCATION

NEW MEXICO EAST NAD 1983 X=753966' Y=509544' LAT=N32.398922° LONG=W103.644416° NAD 1927 X=712784' Y=509483' LAT=N32.398799° LONG=W103.643929° 50' FNL 2310' FEL

FIRST TAKE POINT

NEW MEXICO EAST NAD 1983 X=753967' Y=509494' LAT=N32.398784° LONG=W103.644415° NAD 1927 X=712784' Y=509433' LAT=N32.398661° LONG=W103.643929° 100' FNL 2310' FEL



PROPOSED PENETRATION POINT 1

NEW MEXICO EAST NAD 1983 X=753986' Y=506948' LAT=N32.391786° LONG=W103.644407° NAD 1927 X=712803' Y=506888' LAT=N32.391663° LONG=W103.643920° 2640' FSL 2310' FEL

PROPOSED PENETRATION POINT 2

NEW MEXICO EAST NAD 1983 X=754009' Y=504308' LAT=N32.384529° LONG=W103.644386° NAD 1927 X=712826' Y=504247' LAT=N32.384406°

LAT=N32.384406° LONG=W103.643900°

0' FSL 2310' FEL

LOWER MOST PERF./ BOTTOM HOLE LOCATION

NEW MEXICO EAST NAD 1983 X=754042' Y=499126' LAT=N32.370284° LONG=W103.644387° NAD 1927 X=712860' Y=499065' LAT=N32.370161° LONG=W103.643901° 100' FSL 2310' FEL

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator:EOG R	desources, Inc	eOGRID	: 7377		Da	te: 9/22	/2025	
II. Type: ⊠ Original	□ Amendm	ent due to \square 19.15.2	27.9.D(6)(a) N	MAC □ 19.15.27.	9.D(6)(b) NMAC	C□ Otl	ner.
If Other, please describe:								
III. Well(s): Provide the be recompleted from a sin					wells pro	oposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D		Anticipated roduced Water BBL/D
NEVER BETTER 14 FED COM 705H		B-14-22S-32E	770' FNL & 2468' FEL	+/- 1000	+/- 350	00	+/- 30	000
V. Anticipated Schedu or proposed to be recomp	le: Provide th	e following informa	tion for each no	ew or recompleted	well or s		lls prop Flow	-
NEVER BETTER 14 FED COM 705H		11/10/25	11/25/25	2/01/26		3/01/26		4/01/26
VII. Operational Practi Subsection A through F of VIII. Best Management during active and planned	ces: Attac	ch a complete descri NMAC. ⊠ Attach a complete	ption of the ac	tions Operator wi	ll take to	comply	with t	he requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

🗓 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system	\square will \square will not have capaci	city to gather 100% of the	anticipated natural gas
production volume from the well prior to the date of first	st production.		

VIII I : Programme Outside of the control of the	'(1
	its existing well(s) connected to the same segment, or portion, of the
natural gas gathering system(s) described above will continue to m	neet anticipated increases in line pressure caused by the new well(s)

Attach Operator's plan to manage production in respons	se to the increased line pressure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides the information provide	led in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific inform	nation
for which confidentiality is asserted and the basis for such assertion.	

Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; (c) compression on lease; (d) liquids removal on lease;

- (e) reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Star L Harrell
Printed Name: Star L Harrell
Title: Regulatory Advisor
E-mail Address: Star_Harrell@eogresources.com
Date: 9/22/2025
Phone: (432) 848-9161
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan Items VI-VIII

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release
 gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All plunger lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 Mcfd.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses with be installed.

• When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, EOG will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.



1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	976'
Tamarisk Anhydrite	1,079'
Top of Salt	1,288'
Base of Salt	4,543'
Lamar	4,855'
Bell Canyon	4,906'
Cherry Canyon	5,790'
Brushy Canyon	6,991'
Bone Spring Lime	8,764'
Leonard Shale	8,918'
1 st Bone Spring Sand	9,923'
2 nd Bone Spring Shale	10,185'
2 nd Bone Spring Sand	10,453'
3 rd Bone Spring Carb	10,998'
3 rd Bone Spring Sand	11,673'
Wolfcamp	12,019'
TD	12,150'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	4,906'	Oil
Cherry Canyon	5,790'	Oil
Brushy Canyon	6,991'	Oil
Leonard (Avalon) Shale	8,918'	Oil
1 st Bone Spring Sand	9,923'	Oil
2 nd Bone Spring Shale	10,185'	Oil
2 nd Bone Spring Sand	10,453'	Oil
3 rd Bone Spring Carb	10,998'	Oil
3 rd Bone Spring Sand	11,673'	Oil
Wolfcamp	12,019'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" or 10-3/4" casing at 1,100' and circulating cement back to surface.



4. CASING PROGRAM - Design A

Hole	Interv	al MD	Interval TVD		Csg	Csg		
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
12-1/4"	0	1,100	0	1,100	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,149	0	11,098	7-5/8"	29.7#	ICYP-110	MO FXL
6-3/4"	0	10,649	0	10,600	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,649	11,149	10,600	11,100	5-1/2"	20#	P110-EC	VAM Sprint SF
6-3/4"	11,149	22,412	11,100	12,150	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:

Comen	ing i rug		T	
	No.	Wt.	Yld	Slurry Description
Depth	Sacks	ppg	Ft3/sk	Sidily Description
1,100'	310	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
9-5/8"				Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 900')
11,098'	510	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3%
7-5/8"				Microbond (TOC @ 6,790')
	1160	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M +
				6% Bentonite Gel (TOC @ surface)
22,412'	1513	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond
5-1/2"				(TOC @ 10,598')



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 (6,991') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 160 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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

Cement integrity tests will be performed immediately following plug bump.

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.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000 psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top.



EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows:

1 1 1				
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,100'	Fresh - Gel	8.6-8.8	28-34	N/c
1,100' – 11,098'	Brine	10.0-10.2	28-34	N/c
11,098' – 11,722'	Oil Base	8.7-9.4	58-68	N/c - 6
11,722' – 22,412'	Oil Base	10.0-14.0	58-68	4 - 6
Lateral				

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.



8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR-CCL Will be run in cased hole during completions phase of operations.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 192 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8,845 psig and a maximum anticipated surface pressure of 6,172 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 6,991' to intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1,500 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 9-5/8" surface casing, a 9-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.



The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5,000 psi.

Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

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"



12. 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.



770' FNL 2468' FEL **Proposed Wellbore**

KB: 3738' GL: 3713'

Section 14

T-22-S, R-32-E

API: 30-025-****

Bit Size: 12-1/4"

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

@ 0' - 1,100'

Bit Size: 8-3/4"

7-5/8", 29.7#, ICYP-110, MO FXL

@ 0' - 11,098'

Bit Size: 6-3/4"

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

@ 0' - 10,598'

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

@ 10,598' - 11,098'

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

@ 11,098' - 22,412'

KOP: 11,722' MD, 11,673' TVD

EOC: 12,471' MD, 12,150' TVD

TOC: 10,649' MD, 10,598' TVD

Lateral: 22,412' MD, 12,150' TVD

Upper Most Perf:

100' FNL & 2310' FEL Sec. 14

Lower Most Perf:

100' FSL & 2310' FEL Sec. 23

BH Location:

100' FSL & 2310' FEL,

Sec. 23, T-22-S R-32-E



Design B

4. CASING PROGRAM

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	From (ft) To (ft)		Weight	Grade	Conn
13"	0	1,100	0	1,100	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,149	0	11,098	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	22,412	0	12,150	6"	24.5#	P110-EC	VAM Sprint-SF

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:

Come	ungitu	51 44111								
Depth	No. Sacks	Wt.	Slurry Description							
1,100' 10-3/4"	290	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 @ 900')						
11,098' 8-3/4"	570	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,790')						
	1320	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)						
22,412'	1650	13.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,598')						



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 (6,991') 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 320 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.

Cement integrity tests will be performed immediately following plug bump.

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.

Wellhead:

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 20 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"



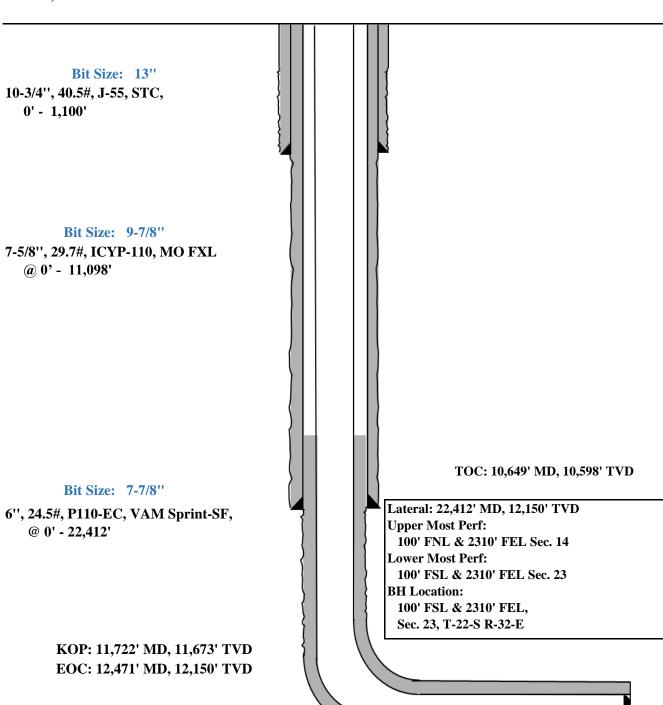
GL: 3713'

Never Better 14 Fed Com 705H

770' FNL Proposed Wellbore KB: 3738'

2468' FEL Section 14

T-22-S, R-32-E API: 30-025-*****



eog resources

1600

2000

2800

3200

3600

4400

4800

5200

10000

10400

10800

12000

12400

Azimuths to Grid North True North: -0.37° Magnetic North: 5.89°

> **Magnetic Field** Strength: 47294.8nT Dip Angle: 59.95° Date: 4/2/2024 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 5.89° To convert a Magnetic Direction to a True Direction, Add 6.26° East To convert a True Direction to a Grid Direction, Subtract 0.37°

Lea County, NM (NAD 83 NME)

Never Better 14 Fed Com #705H

Plan #0.1 RT

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

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

System Datum: Mean Sea Level

WELL DETAILS: #705H

3713.0

kb = 26' @ 3739.0usft Northing 508822.00

Easting **753814.00**

Latittude 32° 23' 48.983 N

Longitude 103° 38' 41.725 W

								SECTIO	ON DETAIL	_S	
- +	Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1	2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
- + +	3	1588.9	7.78	11.89	1587.7	25.8	5.4	2.00	11.89	-25.7	
1	4	6651.0	7.78	11.89	6603.3	696.2	146.6	0.00	0.00	-692.6	
1	5	7040.0	0.00	0.00	6991.0	722.0	152.0	2.00	180.00	-718.2	
- + +	6	11721.5	0.00	0.00	11672.5	722.0	152.0	0.00	0.00	-718.2	KOP(Never Better 14 Fed Com #705H)
1	7	11941.9	26.46	178.85	11885.2	672.0	153.0	12.00	178.85	-668.2	FTP(Never Better 14 Fed Com #705H)
+	8	12471.4	90.00	179.61	12149.9	244.6	157.6	12.00	0.85	-240.8	
- - +	9	14590.0	90.00	179.61	12150.0	-1874.0	172.0	0.00	0.00	1877.5	Fed Perf 1(Never Better 14 Fed Com #705H)
1	10	17230.1	90.00	179.39	12150.0	-4514.0	195.0	0.01	-88.83	4517.3	Fed Perf 2(Never Better 14 Fed Com #705H)
	11	22412.3	90.00	179.88	12150.0	-9696.0	228.0	0.01	90.53	9698.7	PBHL(Never Better 14 Fed Com #705H)

CASING DETAILS 6000 No casing data is available

· + + + + • + + + + +

WELLBORE TAR	GET DETAILS	6 (MAP CO-OR	DINATES)			
Name	TVD	+N/-S	+E/-W	Northing	Easting	
KOP(Never Better 14 Fed Com #705H)	11672.5	722.0	152.0	509544.00	753966.00	
FTP(Never Better 14 Fed Com #705H)	11885.2	672.0	153.0	509494.00	753967.00	
Fed Perf 1(Never Better 14 Fed Com #705H)	12150.0	-1874.0	172.0	506948.00	753986.00	
Fed Perf 2(Never Better 14 Fed Com #705H)	12150.0	-4514.0	195.0	504308.00	754009.00	
PBHL(Never Better 14 Fed Com #705H)	12150.0	-9696.0	228.0	499126.00	754042.00	

350 -1050 -1400 -1750 -2450 -2800 -3150 -3500 -3850 -4200 တ် -4900--5250 -5600 -5950 -7350 West(-)/East(+)

++++++

Midland

Lea County, NM (NAD 83 NME) Never Better 14 Fed Com #705H

OH

Plan: Plan #0.1 RT

Standard Planning Report

02 April, 2024

PEDMB Database: Company: Midland

Project: Lea County, NM (NAD 83 NME) Never Better 14 Fed Com Site:

Well: #705H Wellbore: OH Plan #0.1 RT

Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:** Well #705H

kb = 26' @ 3739.0usft kb = 26' @ 3739.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

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

System Datum:

Mean Sea Level

Never Better 14 Fed Com Site

Northing: 508,809.00 usft Site Position: Latitude: 32° 23' 49.009 N From: Мар Easting: 751,376.00 usft Longitude: 103° 39' 10.161 W

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

Well #705H **Well Position** +N/-S 0.0 usft Northing: 508,822.00 usft Latitude: 32° 23' 48.983 N +E/-W 0.0 usft Easting: 753,814.00 usft Longitude: 103° 38' 41.725 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,713.0 usft 0.37 **Grid Convergence:**

ОН Wellbore Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,294.82962127 IGRF2020 4/2/2024 6.26 59.95

Design Plan #0.1 RT Audit Notes: Version: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 178.65 0.0 0.0 0.0

Plan Survey Tool Program Date 4/2/2024 **Depth From** Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 22,412.3 Plan #0.1 RT (OH) EOG MWD+IFR1 0.0 MWD + IFR1

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)
Site: Never Better 14 Fed Com

 Well:
 #705H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #705H kb = 26' @ 3739.0usft kb = 26' @ 3739.0usft

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	
1,588.9	7.78	11.89	1,587.7	25.8	5.4	2.00	2.00	0.00	11.89	
6,651.0	7.78	11.89	6,603.3	696.2	146.6	0.00	0.00	0.00	0.00	
7,040.0	0.00	0.00	6,991.0	722.0	152.0	2.00	-2.00	0.00	180.00	
11,721.5	0.00	0.00	11,672.5	722.0	152.0	0.00	0.00	0.00	0.00	KOP(Never Better 14
11,941.9	26.46	178.85	11,885.2	672.0	153.0	12.00	12.00	81.13	178.85	FTP(Never Better 14
12,471.4	90.00	179.61	12,149.9	244.6	157.6	12.00	12.00	0.14	0.85	
14,590.0	90.00	179.61	12,150.0	-1,874.0	172.0	0.00	0.00	0.00	0.00	Fed Perf 1(Never Betl
17,230.1	90.00	179.39	12,150.0	-4,514.0	195.0	0.01	0.00	-0.01	-88.83	Fed Perf 2(Never Betl
22,412.3	90.00	179.88	12,150.0	-9,696.0	228.0	0.01	0.00	0.01	90.53	PBHL(Never Better 14

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)
Site: Never Better 14 Fed Com

 Well:
 #705H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #705H

kb = 26' @ 3739.0usft kb = 26' @ 3739.0usft

Grid

Design:	Plan #0.1 RT								
Planned Survey									
riailileu Suivey									
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		400.0				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
,			,	0.0				0.00	
1,100.0	0.00	0.00	1,100.0		0.0	0.0	0.00		0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	11.89	1,300.0	1.7	0.4	-1.7	2.00	2.00	0.00
1,400.0	4.00	11.89	1,399.8	6.8	1.4	-6.8	2.00	2.00	0.00
1,500.0	6.00	11.89	1,499.5	15.4	3.2	-15.3	2.00	2.00	0.00
1,588.9	7.78	11.89	1,587.7	25.8	5.4	-25.7	2.00	2.00	0.00
1,600.0	7.78	11.89	1,598.7	27.3	5.7	-27.1	0.00	0.00	0.00
1,700.0	7.78	11.89	1,697.8	40.5	8.5	-40.3	0.00	0.00	0.00
1,800.0	7.78	11.89	1,796.9	53.7	11.3	-53.5	0.00	0.00	0.00
1,900.0	7.78	11.89	1,895.9	67.0	14.1	-66.6	0.00	0.00	0.00
2,000.0	7.78	11.89	1,995.0	80.2	16.9	-79.8	0.00	0.00	0.00
2,100.0	7.78	11.89	2,094.1	93.5	19.7	-93.0	0.00	0.00	0.00
2,200.0	7.78	11.89	2,193.2	106.7	22.5	-106.2	0.00	0.00	0.00
2,300.0	7.78	11.89	2,292.3	120.0	25.3	-119.3	0.00	0.00	0.00
2,400.0	7.78	11.89	2,391.3	133.2	28.0	-132.5	0.00	0.00	0.00
2,500.0	7.78	11.89	2,490.4	146.5	30.8	-145.7	0.00	0.00	0.00
2,600.0	7.78	11.89	2,589.5	159.7	33.6	-158.9	0.00	0.00	0.00
2,700.0	7.78	11.89	2,688.6	172.9	36.4	-172.0	0.00	0.00	0.00
2,800.0	7.78	11.89	2,787.7	186.2	39.2	-185.2	0.00	0.00	0.00
2,900.0	7.78	11.89	2,886.7	199.4	42.0	-198.4	0.00	0.00	0.00
3,000.0	7.78	11.89	2,985.8	212.7	44.8	-211.6	0.00	0.00	0.00
3,100.0	7.78	11.89	3,084.9	225.9	47.6	-224.7	0.00	0.00	0.00
3,200.0	7.78	11.89	3,184.0	239.2	50.3	-237.9	0.00	0.00	0.00
3,300.0	7.78	11.89	3,283.1	252.4	53.1	-251.1	0.00	0.00	0.00
3,400.0	7.78	11.89	3,382.1	265.6	55.9	-264.3	0.00	0.00	0.00
3.500.0	7.78	11.89	3,481.2	278.9	58.7	-277.4	0.00	0.00	0.00
3,600.0	7.78	11.89	3,580.3	292.1	61.5	-290.6	0.00	0.00	0.00
3,700.0	7.78	11.89	3,679.4	305.4	64.3	-303.8	0.00	0.00	0.00
3,800.0	7.78	11.89	3,778.5	318.6	67.1	-317.0	0.00	0.00	0.00
3,900.0	7.78	11.89	3,877.5	331.9	69.9	-330.1	0.00	0.00	0.00
4,000.0	7.78	11.89	3,976.6	345.1	72.7	-343.3	0.00	0.00	0.00
4,100.0	7.78	11.89	4,075.7	358.4	75.4	-356.5	0.00	0.00	0.00
4,200.0	7.78	11.89	4,174.8	371.6	78.2	-369.7	0.00	0.00	0.00
4,300.0	7.78	11.89	4,273.9	384.8	81.0	-382.8	0.00	0.00	0.00
4,400.0	7.78	11.89	4,372.9	398.1	83.8	-396.0	0.00	0.00	0.00
4,500.0	7.78	11.89	4,472.0	411.3	86.6	-409.2	0.00	0.00	0.00
4,600.0	7.78	11.89	4,571.1	424.6	89.4	-422.4	0.00	0.00	0.00
4,700.0	7.78	11.89	4,670.2	437.8	92.2	-435.5	0.00	0.00	0.00
4,800.0	7.78	11.89	4,769.3	451.1	95.0	-448.7	0.00	0.00	0.00
4,900.0	7.78	11.89	4,868.3	464.3	97.7	-461.9	0.00	0.00	0.00
5,000.0	7.78	11.89	4,967.4	477.5	100.5	-475.1	0.00	0.00	0.00
5,100.0	7.78	11.89	5,066.5	490.8	103.3	-488.2	0.00	0.00	0.00
5,200.0	7.78	11.89	5,165.6	504.0	106.1	-501.4	0.00	0.00	0.00
0,200.0	1.10	11.00	5,100.0	507.0	100.1	301.7	0.00	0.00	0.00

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)
Site: Never Better 14 Fed Com

 Well:
 #705H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #705H kb = 26' @ 3739.0usft kb = 26' @ 3739.0usft Grid

Design:	Plan #0.1 RT								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	7.78	11.89	5,264.7	517.3	108.9	-514.6	0.00	0.00	0.00
5,400.0	7.78	11.89	5,363.7	530.5	111.7	-527.7	0.00	0.00	0.00
5,500.0	7.78	11.89	5,462.8	543.8	114.5	-540.9	0.00	0.00	0.00
5,600.0	7.78	11.89	5,561.9	557.0	117.3	-554.1	0.00	0.00	0.00
5,700.0	7.78	11.89	5,661.0	570.3	120.1	-567.3	0.00	0.00	0.00
5,800.0	7.78	11.89	5,760.1	583.5	122.8	-580.4	0.00	0.00	0.00
5,900.0	7.78	11.89	5,859.1	596.7	125.6	-593.6	0.00	0.00	0.00
6,000.0	7.78	11.89	5,958.2	610.0	128.4	-606.8	0.00	0.00	0.00
6,100.0	7.78	11.89	6,057.3	623.2	131.2	-620.0	0.00	0.00	0.00
6,200.0	7.78	11.89	6,156.4	636.5	134.0	-633.1	0.00	0.00	0.00
6,300.0	7.78	11.89	6,255.5	649.7	136.8	-646.3	0.00	0.00	0.00
6,400.0	7.78	11.89	6,354.5	663.0	139.6	-659.5	0.00	0.00	0.00
6,500.0	7.78	11.89	6,453.6	676.2	142.4	-672.7	0.00	0.00	0.00
6,600.0	7.78	11.89	6,552.7	689.4	145.1	-685.8	0.00	0.00	0.00
6,651.0	7.78	11.89	6,603.3	696.2	146.6	-692.6	0.00	0.00	0.00
6,700.0	6.80	11.89	6,651.8	702.3	147.8	-698.6	2.00	-2.00	0.00
6,800.0	4.80	11.89	6,751.3	712.2	149.9	-708.4	2.00	-2.00	0.00
6,900.0	2.80	11.89	6,851.1	718.7	151.3	-714.9	2.00	-2.00	0.00
7,000.0	0.80	11.89	6,951.0	721.7	151.9	-718.0	2.00	-2.00	0.00
7,040.0	0.00	0.00	6,991.0	722.0	152.0	-718.2	2.00	-2.00	0.00
7,100.0	0.00	0.00	7,051.0	722.0	152.0	-718.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,151.0	722.0	152.0	-718.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,251.0	722.0	152.0	-718.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,351.0	722.0	152.0	-718.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,451.0	722.0	152.0	-718.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,551.0	722.0	152.0	-718.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,651.0	722.0	152.0	-718.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,751.0	722.0	152.0	-718.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,851.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,951.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,051.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,151.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,251.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,351.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,451.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,551.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,651.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,751.0	722.0	152.0	-718.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,851.0	722.0	152.0	-718.2	0.00	0.00	0.00
9,000.0 9,100.0	0.00 0.00	0.00 0.00	8,951.0 9,051.0	722.0 722.0	152.0 152.0	-718.2 -718.2	0.00 0.00	0.00 0.00	0.00 0.00
,									
9,200.0	0.00	0.00	9,151.0	722.0	152.0	-718.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,251.0	722.0	152.0	-718.2	0.00	0.00	0.00
9,400.0 9,500.0	0.00 0.00	0.00 0.00	9,351.0 9,451.0	722.0 722.0	152.0 152.0	-718.2 -718.2	0.00 0.00	0.00 0.00	0.00 0.00
9,500.0	0.00	0.00	9,451.0 9,551.0	722.0 722.0	152.0	-718.2 -718.2	0.00	0.00	0.00
9,700.0 9,800.0	0.00 0.00	0.00 0.00	9,651.0 9,751.0	722.0	152.0 152.0	-718.2 -718.2	0.00 0.00	0.00 0.00	0.00 0.00
9,800.0	0.00	0.00	9,751.0 9,851.0	722.0 722.0	152.0 152.0	-718.2 -718.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,851.0 9,951.0	722.0 722.0	152.0	-718.2 -718.2	0.00	0.00	0.00
10,000.0	0.00	0.00	10,051.0	722.0	152.0	-718.2 -718.2	0.00	0.00	0.00
10,200.0 10,300.0	0.00 0.00	0.00 0.00	10,151.0 10,251.0	722.0 722.0	152.0 152.0	-718.2 -718.2	0.00 0.00	0.00 0.00	0.00 0.00
10,400.0	0.00	0.00	10,351.0	722.0	152.0	-718.2 -718.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,001.0	122.0	102.0	-1 10.2	0.00	0.00	0.00

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)
Site: Never Better 14 Fed Com

 Well:
 #705H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
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North Reference:
Survey Calculation Method:

Well #705H

kb = 26' @ 3739.0usft kb = 26' @ 3739.0usft

Grid

Design:	Plan #0.1 RT								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,451.0	722.0	152.0	-718.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,551.0	722.0	152.0	-718.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,651.0	722.0	152.0	-718.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,751.0	722.0	152.0	-718.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,851.0	722.0	152.0	-718.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,951.0	722.0	152.0	-718.2	0.00	0.00	0.00
11,100.0	0.00	0.00	11,051.0	722.0	152.0	-718.2	0.00	0.00	0.00
11,200.0	0.00	0.00	11,151.0	722.0	152.0	-718.2	0.00	0.00	0.00
11,300.0 11,400.0 11,500.0	0.00 0.00 0.00	0.00 0.00 0.00	11,251.0 11,351.0 11,451.0	722.0 722.0 722.0 722.0	152.0 152.0 152.0	-718.2 -718.2 -718.2	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,600.0 11,700.0	0.00 0.00	0.00	11,551.0 11,651.0	722.0 722.0	152.0 152.0	-718.2 -718.2	0.00	0.00	0.00 0.00
11,721.5	0.00	0.00	11,672.5	722.0	152.0	-718.2	0.00	0.00	0.00
11,725.0	0.42	178.85	11,676.0	722.0	152.0	-718.2	12.00	12.00	0.00
11,750.0	3.43	178.85	11,701.0	721.1	152.0	-717.4	12.00	12.00	0.00
11,775.0	6.43	178.85	11,725.9	719.0	152.1	-715.2	12.00	12.00	0.00
11,800.0	9.43	178.85	11,750.7	715.6	152.1	-711.8	12.00	12.00	0.00
11,825.0	12.43	178.85	11,775.2	710.8	152.2	-707.0	12.00	12.00	0.00
11,850.0	15.43	178.85	11,799.5	704.8	152.3	-701.0	12.00	12.00	0.00
11,875.0	18.43	178.85	11,823.4	697.5	152.5	-693.7	12.00	12.00	0.00
11,900.0	21.43	178.85	11,846.9	689.0	152.7	-685.2	12.00	12.00	0.00
11,925.0	24.43	178.85	11,869.9	679.3	152.9	-675.5	12.00	12.00	0.00
11,941.9	26.46	178.85	11,885.2	672.0	153.0	-668.2	12.00	12.00	0.00
11,950.0	27.43	178.89	11,892.4	668.3	153.1	-664.6	12.00	12.00	0.38
11,950.0 11,975.0 12,000.0	30.43 33.43	178.97 179.04	11,914.3 11,935.5	656.2 643.0	153.3 153.5	-652.5 -639.2	12.00 12.00 12.00	12.00 12.00 12.00	0.34 0.28
12,025.0	36.43	179.10	11,956.0	628.7	153.8	-624.9	12.00	12.00	0.24
12,050.0	39.43	179.15	11,975.7	613.4	154.0	-609.6	12.00	12.00	0.21
12,075.0	42.43	179.20	11,994.6	597.0	154.2	-593.2	12.00	12.00	0.18
12,100.0	45.43	179.24	12,012.6	579.6	154.5	-575.8	12.00	12.00	0.16
12,125.0	48.43	179.28	12,029.7	561.4	154.7	-557.6	12.00	12.00	0.15
12,150.0	51.43	179.31	12,045.8	542.2	154.9	-538.5	12.00	12.00	0.13
12,175.0 12,200.0 12,225.0	54.43 57.43 60.43	179.34 179.37 179.40	12,060.8 12,074.8 12,087.7	522.3 501.6 480.2	155.2 155.4 155.6	-518.5 -497.8 -476.4	12.00 12.00 12.00	12.00 12.00 12.00	0.12 0.12 0.12 0.11
12,250.0	63.43	179.42	12,099.5	458.1	155.9	-454.3	12.00	12.00	0.10
12,275.0	66.43	179.45	12,110.1	435.5	156.1	-431.7	12.00	12.00	0.10
12,300.0	69.43	179.47	12,119.5	412.3	156.3	-408.5	12.00	12.00	0.09
12,325.0	72.43	179.49	12,127.6	388.7	156.5	-384.9	12.00	12.00	0.09
12,350.0	75.43	179.51	12,134.6	364.7	156.7	-360.9	12.00	12.00	0.09
12,375.0	78.43	179.53	12,140.2	340.3	156.9	-336.6	12.00	12.00	0.08
12,400.0	81.43	179.55	12,144.6	315.7	157.1	-311.9	12.00	12.00	0.08
12,425.0	84.43	179.57	12,147.7	290.9	157.3	-287.1	12.00	12.00	0.08
12,450.0	87.43	179.59	12,149.4	266.0	157.5	-262.2	12.00	12.00	0.08
12,471.4	90.00	179.61	12,149.9	244.6	157.6	-240.8	12.00	12.00	0.08
12,500.0	90.00	179.61	12,149.9	216.0	157.8	-212.2	0.00	0.00	0.00
12,600.0	90.00	179.61	12,149.9	116.0	158.5	-112.2	0.00	0.00	0.00
12,700.0	90.00	179.61	12,149.9	16.0	159.2	-12.3	0.00	0.00	0.00
12,800.0	90.00	179.61	12,149.9	-84.0	159.9	87.7	0.00	0.00	0.00
12,900.0	90.00	179.61	12,149.9	-184.0	160.5	187.7	0.00	0.00	0.00
13,000.0	90.00	179.61	12,149.9	-284.0	161.2	287.7	0.00	0.00	0.00
13,100.0	90.00	179.61	12,149.9	-384.0	161.9	387.7	0.00	0.00	0.00
13,200.0	90.00	179.61	12,149.9	-484.0	162.6	487.7	0.00	0.00	0.00

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)
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 Well:
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Survey Calculation Method:

Well #705H

kb = 26' @ 3739.0usft kb = 26' @ 3739.0usft

Grid

sign:	Flail #U. I KI								
inned 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)
13,300.0	90.00	179.61	12,149.9	-584.0	163.3	587.7	0.00	0.00	0.00
13,400.0	90.00	179.61	12,150.0	-684.0	163.9	687.7	0.00	0.00	0.00
13,500.0	90.00	179.61	12,150.0	-784.0	164.6	787.6	0.00	0.00	0.00
13,300.0	90.00	179.01	12,130.0	-704.0	104.0	707.0	0.00	0.00	0.00
13,600.0	90.00	179.61	12,150.0	-884.0	165.3	887.6	0.00	0.00	0.00
13,700.0	90.00	179.61	12,150.0	-984.0	166.0	987.6	0.00	0.00	0.00
13,800.0	90.00	179.61	12,150.0	-1,084.0	166.6	1,087.6	0.00	0.00	0.00
13,900.0	90.00	179.61	12,150.0	-1,184.0	167.3	1,187.6	0.00	0.00	0.00
14,000.0	90.00	179.61	12,150.0	-1,284.0	168.0	1,287.6	0.00	0.00	0.00
14,100.0	90.00	179.61	12,150.0	-1,384.0	168.7	1,387.6	0.00	0.00	0.00
14,200.0	90.00	179.61	12,150.0	-1,484.0	169.4	1,487.5	0.00	0.00	0.00
14,300.0	90.00	179.61	12,150.0	-1,584.0	170.0	1,587.5	0.00	0.00	0.00
14,400.0	90.00	179.61	12,150.0	-1,684.0	170.7	1,687.5	0.00	0.00	0.00
14,500.0	90.00	179.61	12,150.0	-1,784.0	171.4	1,787.5	0.00	0.00	0.00
14,590.0	90.00	179.61	12,150.0	-1,874.0	172.0	1,877.5	0.00	0.00	0.00
14,600.0	90.00	179.61	12,150.0	-1,884.0	172.1	1,887.5	0.01	0.00	-0.01
14,700.0	90.00	179.60	12,150.0	-1,984.0	172.1	1,987.5	0.01	0.00	-0.01
14,800.0	90.00	179.59	12,150.0	-2,084.0	173.5	2,087.5	0.01	0.00	-0.01
14,900.0	90.00	179.59	12,150.0	-2,184.0	174.2	2,187.4	0.01	0.00	-0.01
15,000.0	90.00	179.58	12,150.0	-2,283.9	174.9	2,287.4	0.01	0.00	-0.01
15,100.0	90.00	179.57	12,150.0	-2,383.9	175.6	2,387.4	0.01	0.00	-0.01
15,200.0	90.00		12,150.0	-2,483.9		2,487.4		0.00	
		179.56			176.4		0.01		-0.01
15,300.0	90.00	179.55	12,150.0	-2,583.9	177.2	2,587.4	0.01	0.00	-0.01
15,400.0	90.00	179.54	12,150.0	-2,683.9	178.0	2,687.4	0.01	0.00	-0.01
15,500.0	90.00	179.54	12,150.0	-2,783.9	178.8	2,787.4	0.01	0.00	-0.01
15,600.0	90.00	179.53	12,150.0	-2,883.9	179.6	2,887.4	0.01	0.00	-0.01
15,700.0	90.00	179.52	12,150.0	-2,983.9	180.4	2,987.3	0.01	0.00	-0.01
15,800.0	90.00	179.51	12,150.0	-3,083.9	181.3	3,087.3	0.01	0.00	-0.01
15,900.0	90.00	179.50	12,150.0	-3,183.9	182.1	3,187.3	0.01	0.00	-0.01
16,000.0	90.00	179.49	12,150.0	-3,283.9	183.0	3,287.3	0.01	0.00	-0.01
16,100.0	90.00	179.48	12,150.0	-3,383.9	183.9	3,387.3	0.01	0.00	-0.01
16,200.0	90.00	179.48	12,150.0	-3,483.9	184.8	3,487.3	0.01	0.00	-0.01
16,300.0	90.00	179.47	12,150.0	-3,583.9	185.7	3,587.3	0.01	0.00	-0.01
16,400.0	90.00	179.46	12,150.0	-3,683.9	186.7	3,687.3	0.01	0.00	-0.01
16,500.0	90.00	179.45	12,150.0	-3,783.9	187.6	3,787.3	0.01	0.00	-0.01
16,600.0	90.00	179.44	12,150.0	-3,883.9	188.6	3,887.3	0.01	0.00	-0.01
16,700.0	90.00	179.44	12,150.0	-3,983.9		3,987.2	0.01	0.00	-0.01
					189.6				
16,800.0	90.00	179.43	12,150.0	-4,083.9	190.6	4,087.2	0.01	0.00	-0.01
16,900.0	90.00	179.42	12,150.0	-4,183.9	191.6	4,187.2	0.01	0.00	-0.01
17,000.0	90.00	179.41	12,150.0	-4,283.9	192.6	4,287.2	0.01	0.00	-0.01
17,100.0	90.00	179.40	12,150.0	-4,383.9	193.6	4,387.2	0.01	0.00	-0.01
17,100.0	90.00	179.40	12,150.0	-4,483.9	193.0	4,487.2	0.01	0.00	-0.01
17,230.1	90.00	179.39	12,150.0	-4,514.0	195.0	4,517.3	0.01	0.00	-0.01
17,300.0	90.00	179.40	12,150.0	-4,583.9	195.7	4,587.2	0.01	0.00	0.01
17,400.0	90.00	179.41	12,150.0	-4,683.8	196.8	4,687.2	0.01	0.00	0.01
17,500.0	90.00	179.42	12,150.0	-4,783.8	190.8	4,787.2	0.01	0.00	0.01
						4,767.2			
17,600.0	90.00	179.43	12,150.0	-4,883.8	198.8	,	0.01	0.00	0.01
17,700.0	90.00	179.43	12,150.0	-4,983.8	199.8	4,987.2	0.01	0.00	0.01
17,800.0	90.00	179.44	12,150.0	-5,083.8	200.8	5,087.1	0.01	0.00	0.01
17,900.0	90.00	179.45	12,150.0	-5,183.8	201.8	5,187.1	0.01	0.00	0.01
18,000.0	90.00	179.46	12,150.0	-5,283.8	201.0	5,287.1	0.01	0.00	0.01
			,	,					
18,100.0	90.00	179.47	12,150.0	-5,383.8	203.6	5,387.1	0.01	0.00	0.01
18,200.0	90.00	179.48	12,150.0	-5,483.8	204.5	5,487.1	0.01	0.00	0.01
18,300.0	90.00	179.49	12,150.0	-5,583.8	205.4	5,587.1	0.01	0.00	0.01

Database: PEDMB Company: Midland

Project: Lea County, NM (NAD 83 NME)
Site: Never Better 14 Fed Com

 Well:
 #705H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #705H kb = 26' @ 3739.0usft kb = 26' @ 3739.0usft

Grid

Measured Depth (usft) 18,500.0 18,600.0 18,700.0 18,800.0 18,900.0 19,000.0 19,100.0 19,200.0 19,300.0 19,500.0 19,500.0 19,600.0 19,700.0 19,800.0 20,000.0 20,100.0 20,200.0 20,300.0 20,400.0 20,500.0 20,600.0 20,700.0 20,800.0 20,900.0 21,100.0 21,200.0 21,300.0 21,300.0	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	Azimuth (°) 179.51 179.52 179.53 179.54 179.55 179.56 179.57 179.58 179.59 179.60 179.60 179.61 179.62 179.63 179.64 179.65 179.66 179.67	Vertical Depth (usft) 12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9	+N/-S (usft) -5,783.8 -5,883.8 -5,983.8 -6,083.8 -6,183.8 -6,283.8 -6,383.8 -6,483.8 -6,583.8 -6,683.8 -6,783.8 -6,983.8 -7,183.8 -7,183.8 -7,283.8 -7,283.8 -7,383.8 -7,483.8	+E/-W (usft) 207.2 208.0 208.9 209.7 210.5 211.3 212.0 212.8 213.5 214.2 214.9 215.6 216.3 216.9 217.5 218.2 218.8	Vertical Section (usft) 5,787.1 5,887.1 5,987.0 6,087.0 6,187.0 6,387.0 6,487.0 6,587.0 6,786.9 6,886.9 6,986.9 7,086.9 7,186.9 7,186.9 7,286.9 7,386.9	Dogleg Rate (°/100usft) 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.	Build Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Turn Rate (°/100usft) 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.
18,600.0 18,700.0 18,800.0 18,900.0 19,000.0 19,100.0 19,200.0 19,300.0 19,500.0 19,500.0 19,600.0 19,800.0 19,900.0 20,000.0 20,100.0 20,200.0 20,300.0 20,500.0 20,500.0 20,500.0 20,600.0 20,700.0 20,800.0 21,000.0 21,100.0 21,200.0	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	179.52 179.53 179.54 179.55 179.56 179.57 179.58 179.59 179.60 179.61 179.62 179.63 179.64 179.65 179.66	12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,150.0 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9 12,149.9	-5,883.8 -5,983.8 -6,083.8 -6,183.8 -6,283.8 -6,383.8 -6,483.8 -6,583.8 -6,683.8 -6,783.8 -6,883.8 -7,083.8 -7,083.8 -7,183.8 -7,283.8 -7,283.8 -7,383.8	208.0 208.9 209.7 210.5 211.3 212.0 212.8 213.5 214.2 214.9 215.6 216.3 216.9 217.5 218.2 218.8	5,887.1 5,987.0 6,087.0 6,187.0 6,287.0 6,387.0 6,487.0 6,587.0 6,786.9 6,886.9 6,986.9 7,086.9 7,186.9 7,286.9	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
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20,200.0 20,300.0 20,400.0 20,500.0 20,600.0 20,700.0 20,800.0 20,900.0 21,000.0 21,100.0 21,200.0	90.00	179.67					0.01	0.00	0.01
20,300.0 20,400.0 20,500.0 20,600.0 20,700.0 20,800.0 20,900.0 21,000.0 21,200.0			12,143.3		219.3	7,386.8	0.01	0.00	0.01
20,400.0 20,500.0 20,600.0 20,700.0 20,800.0 20,900.0 21,000.0 21,100.0 21,200.0	90.00	179.68	12,150.0	-7,583.8	219.9	7,586.8	0.01	0.00	0.01
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20,600.0 20,700.0 20,800.0 20,900.0 21,000.0 21,100.0 21,200.0	90.00	179.69	12,150.0	-7,683.8	220.5	7,686.8	0.01	0.00	0.01
20,700.0 20,800.0 20,900.0 21,000.0 21,100.0 21,200.0	90.00	179.70	12,150.0	-7,783.8	221.0	7,786.8	0.01	0.00	0.01
20,800.0 20,900.0 21,000.0 21,100.0 21,200.0	90.00	179.71	12,150.0	-7,883.7	221.5	7,886.8	0.01	0.00	0.01
20,900.0 21,000.0 21,100.0 21,200.0	90.00	179.72	12,150.0	-7,983.7	222.0	7,986.8	0.01	0.00	0.01
21,000.0 21,100.0 21,200.0	90.00	179.73	12,150.0	-8,083.7	222.5	8,086.7	0.01	0.00	0.01
21,100.0 21,200.0	90.00	179.74	12,150.0	-8,183.7	223.0	8,186.7	0.01	0.00	0.01
21,200.0	90.00	179.75	12,150.0	-8,283.7	223.4	8,286.7	0.01	0.00	0.01
	90.00	179.76	12,150.0	-8,383.7	223.8	8,386.7	0.01	0.00	0.01
21,300.0	90.00	179.77	12,150.0	-8,483.7	224.3	8,486.7	0.01	0.00	0.01
	90.00	179.78	12,150.0	-8,583.7	224.7	8,586.7	0.01	0.00	0.01
21,400.0	90.00	179.78	12,150.0	-8,683.7	225.0	8,686.6	0.01	0.00	0.01
21,500.0	90.00	179.79	12,150.0	-8,783.7	225.4	8,786.6	0.01	0.00	0.01
21,600.0	90.00	179.80	12,150.0	-8,883.7	225.8	8,886.6	0.01	0.00	0.01
21,700.0	90.00	179.81	12,150.0	-8,983.7	226.1	8,986.6	0.01	0.00	0.01
21,800.0	90.00	179.82	12,150.0	-9,083.7	226.4	9,086.6	0.01	0.00	0.01
21,900.0	90.00	179.83	12,150.0	-9,183.7	226.7	9,186.5	0.01	0.00	0.01
22,000.0	90.00	179.84	12,150.0	-9,283.7	227.0	9,286.5	0.01	0.00	0.01
22,100.0	90.00	179.85	12,150.0	-9,383.7	227.3	9,386.5	0.01	0.00	0.01
22,100.0	90.00	179.86	12,150.0	-9,483.7	227.5 227.5	9,366.5	0.01	0.00	0.01
22,300.0	90.00	179.86	12,150.0	-9,463.7 -9,583.7	227.8	9,466.5	0.01	0.00	0.01
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PEDMB Database: Company: Midland

Project: Lea County, NM (NAD 83 NME) Site: Never Better 14 Fed Com

Well: #705H ОН Wellbore: Design: Plan #0.1 RT

Survey Calculation Method:

Well #705H Local Co-ordinate Reference:

TVD Reference: kb = 26' @ 3739.0usft MD Reference: kb = 26' @ 3739.0usft North Reference:

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(Never Better 14 Fe - plan hits target cent - Point	0.00 er	0.00	11,672.5	722.0	152.0	509,544.00	753,966.00	32° 23' 56.118 N	103° 38' 39.898 W
FTP(Never Better 14 Fe - plan hits target cent - Point	0.00 er	0.00	11,885.2	672.0	153.0	509,494.00	753,967.00	32° 23' 55.623 N	103° 38' 39.890 W
PBHL(Never Better 14 F - plan hits target cent - Point	0.00 er	0.00	12,150.0	-9,696.0	228.0	499,126.00	754,042.00	32° 22′ 13.026 N	103° 38' 39.794 W
Fed Perf 1(Never Better - plan hits target cent - Point	0.00 er	0.00	12,150.0	-1,874.0	172.0	506,948.00	753,986.00	32° 23′ 30.429 N	103° 38' 39.860 W
Fed Perf 2(Never Better - plan hits target cent - Point	0.00 er	0.00	12,150.0	-4,514.0	195.0	504,308.00	754,009.00	32° 23' 4.304 N	103° 38' 39.790 W

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: EOG RESOURCES INCORPORATED
WELL NAME & NO.: NEVER BETTER 14 FED COM 705H
LOCATION: Section 14, T.22 S., R.32 E., NMP
COUNTY: Lea County, New Mexico

COA

H2S	• Yes	C No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	• Low	© Medium	C High
Cave/Karst Potential	Critical Critical		
Variance	© None	• Flex Hose	Other
Wellhead	Conventional	Multibowl	© Both
Wellhead Variance	O Diverter		
Other	□4 String	☐ Capitan Reef	□WIPP
Other	☐Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	□ Contingency	▼ EchoMeter	✓ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	▼ COM	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	Break Testing	✓ Offline	
Variance	_	Cementing	Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Casing Design A:

- 1. The 9-5/8 inch surface casing shall be set at approximately 1100 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 12-1/4 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall

be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst or potash.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string due to operator not meeting casing clearance requirement per 43 CFR 3170. Operator shall provide method of verification.

Casing Design B:

- 4. The 10-3/4 inch surface casing shall be set at approximately 1100 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 12-1/4 inch in diameter.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall

be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 5. The minimum required fill of cement behind the 8-3/4 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst or potash.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

Operator has proposed to pump down 10-3/4" X 8-3/4" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 8-3/4" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 6. The minimum required fill of cement behind the 6 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string due to operator not meeting casing clearance requirement per 43 CFR 3170. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 9-5/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Casing Clearance:

Operator casing variance is approved for the utilization of

- 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.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

Offline Cementing:

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ⊠ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement

- reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material

or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 3/4/2025



Never Better 14 Fed Com #705H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- **C.** Required Emergency Equipment:
- **■** Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator

■ Protective equipment for essential personnel:

- a. Breathing Apparatus:
 - i. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
 - ii. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
 - iii. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.
- b. Auxiliary Rescue Equipment:
 - i. Stretcher
 - ii. Two OSHA full body harness
 - iii. 100 ft 5/8 inch OSHA approved rope
 - iv. 1-20# class ABC fire extinguisher

■ H2S Detection and Monitoring Equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged. (Gas sample tubes will be stored in the safety trailer)

■ Visual Warning System:

- a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
- b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
- c. Two wind socks will be placed in strategic locations, visible from all angles.



Never Better 14 Fed Com #705H

■ Mud Program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

■ Communication:

Communication will be via cell phones and land lines where available.



Never Better 14 Fed Com #705H

Emergency Assistance Telephone List

PUBLIC SAFETY:	911 or
Lea County Sheriff's Department	(575) 396-3611
Corey Helton	
Fire Department	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
U.S. Department of Labor	(575) 887-1174
Bureau of Land Management - Hobbs (Lea Co)	(575) 393-3612
PET On Call - Hobbs	(575) 706-2779
Bureau of Land Management - Carlsbad (Eddy Co)	(575) 234-5972
PET On Call - Carlsbad	(575) 706-2779
New Mexico Oil Conservation Division - Artesia	(575) 748-1283
Inspection Group South - Gilbert Gordero	(575) 626-0830
EOG Resources, Inc.	
EOG Midland	(432) 686-3600
Company Drilling Consultants:	
Jett Dueitt	(432) 230-4840
Blake Burney	
Drilling Engineers	
Stephen Davis	(432) 235-9789
Matt Day	(210) 296-4456
Drilling Managers	
Branden Keener	(210) 294-3729
Drilling Superintendents	
Lance Hardy	(432) 215-8152
Ryan Reynolds	(432) 215-5978
Steve Kelly	(210) 416-7894
H&P Drilling	
H&P Drilling	(432) 563-5757
Nabors Drilling	(132) 303 3131
Nabors Drilling	(432) 363-8180
Patterson UTI	(152) 505 0100
Patterson UTI	(432) 561-9382
EOG Safety	(152) 501 7502
Brian Chandler (HSE Manager)	(817) 239-0251
Time Commerce (11012 1110110501)	(017, 23) 0231



EOG Batch Casing

Pad Name: Never Better 14 Fed Com

SHL: Section 14, Township 22-S, Range 32-E, Lea County, NM

Well Name	A DI #	Surface		Intermediate		Production	
vven Name	API#	MD	TVD	MD	TVD	MD	TVD
Never Better 14 Fed Com #601H	30-025-****	1,100	1,100	11,195	11,098	22,252	11,950
Never Better 14 Fed Com #602H	30-025-****	1,100	1,100	11,139	11,098	22,202	11,950
Never Better 14 Fed Com #603H	30-025-****	1,100	1,100	11,174	11,098	22,236	11,950
Never Better 14 Fed Com #604H	30-025-****	1,100	1,100	11,354	11,098	22,391	11,950
Never Better 14 Fed Com #701H	30-025-****	1,100	1,100	11,169	11,098	22,425	12,150
Never Better 14 Fed Com #702H	30-025-****	1,100	1,100	11,235	11,098	22,487	12,150
Never Better 14 Fed Com #703H	30-025-****	1,100	1,100	11,145	11,098	22,408	12,150
Never Better 14 Fed Com #704H	30-025-****	1,100	1,100	11,155	11,098	22,418	12,150
Never Better 14 Fed Com #705H	30-025-****	1,100	1,100	11,149	11,098	22,412	12,150
Never Better 14 Fed Com #706H	30-025-****	1,100	1,100	11,228	11,098	22,485	12,150
Never Better 14 Fed Com #707H	30-025-****	1,100	1,100	11,301	11,098	22,547	12,150
Never Better 14 Fed Com #708H	30-025-****	1,100	1,100	11,430	11,098	22,650	12,150
Never Better 14 Fed Com #721H	30-025-****	1,100	1,100	11,192	11,098	22,568	12,270
Never Better 14 Fed Com #722H	30-025-****	1,100	1,100	11,120	11,098	22,502	12,270
Never Better 14 Fed Com #723H	30-025-****	1,100	1,100	11,185	11,098	22,566	12,270
Never Better 14 Fed Com #724H	30-025-****	1,100	1,100	11,199	11,098	22,580	12,270
Never Better 14 Fed Com #725H	30-025-****	1,100	1,100	11,179	11,098	22,561	12,270
Never Better 14 Fed Com #726H	30-025-****	1,100	1,100	11,305	11,098	22,670	12,270
Never Better 14 Fed Com #727H	30-025-****	1,100	1,100	11,354	11,098	22,710	12,270



EOG Batch Casing

Variances

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

- EOG BLM Variance 3a_b BOP Break-test and Offline Intermediate Cement
- EOG BLM Variance 2a Inermediate Bradenhead Cement



EOG Batch Casing

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	976'
Tamarisk Anhydrite	1,079'
Top of Salt	1,288'
Base of Salt	4,543'
Capitan	4,855'
Bell Canyon	4,906'
Cherry Canyon	5,790'
Brushy Canyon	6,991'
Bone Spring Lime	8,764'
Leonard (Avalon) Shale	8,918'
1st Bone Spring Sand	9,923'
2nd Bone Spring Shale	10,185'
2nd Bone Spring Sand	10,453'
3rd Bone Spring Carb	10,998'
3rd Bone Spring Sand	11,673'
Wolfcamp	12,019'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	4,906'	Oil
Cherry Canyon	5,790'	Oil
Brushy Canyon	6,991'	Oil
Leonard (Avalon) Shale	8,918'	Oil
1st Bone Spring Sand	9,923'	Oil
2nd Bone Spring Shale	10,185'	Oil
2nd Bone Spring Sand	10,453'	Oil

two outer rottmations are expected to give up on, gas of fresh water in measurable quantities. Surface fresh water sands will be protected by setting surface casing at 1,100' and circulating cement back to surface.



Never Better 14 Fed Com 705H API #: 30-025-**** Variances

EOG respectfully requests the below variances to be applied to the above well:

- Variance is requested to waive the centralizer requirements for the intermediate casing in the intermediate hole. An expansion additive will be utilized, in the cement slurry, for the entire length of the intermediate interval to maximize cement bond and zonal isolation.
- Variance is also requested to waive the centralizer requirements for the production casing in the production hole. An expansion additive will be utilized, in the cement slurry, for the entire length of the production interval to maximize cement bond and zonal isolation.
- Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).
 - Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.
- EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1,500 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

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

- EOG BLM Variance 3a b BOP Break-test and Offline Intermediate Cement
- EOG BLM Variance 2a Inermediate Bradenhead Cement

10,000 PSI BOP Annular Variance Request

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

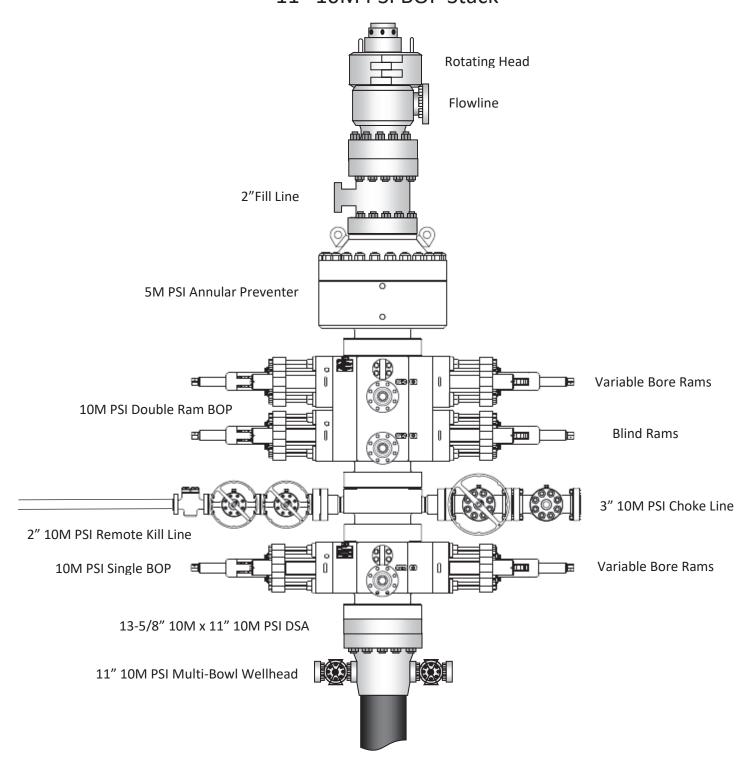
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

9-7/8" & 8-3/4" Intermediate Hole Section 10M psi requirement					
					RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M
				Lower 3.5 - 5.5" VBR	10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M
				Lower 3.5 - 5.5" VBR	10M
Jars	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M
				Lower 3.5 - 5.5" VBR	10M
DCs and MWD tools	6.500 - 8.000"	Annular	5M	-	-
Mud Motor	6.750 - 8.000"	Annular	5M	-	-
Intermediate casing	7.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

6-3/4" Production Hole Section					
10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M
				Lower 3.5 - 5.5" VBR	10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M
				Lower 3.5 - 5.5" VBR	10M
DCs and MWD tools	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M
				Lower 3.5 - 5.5" VBR	10M
Mud Motor	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M
				Lower 3.5 - 5.5" VBR	10M
Mud Motor	5.500 – 5.750"	Annular	5M	-	-
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR	10M
				Lower 3.5 - 5.5" VBR	10M
Open-hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

EOG Resources 11" 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string

- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams.
 - e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams.
 - d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram.
 - f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



Intermediate Bradenhead Cement:

EOG requests variance from minimum standards to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting 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 of cement 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.



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.

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Blind Rams

Roadside Kill

Test plug

Break Test Diagram (HCR valve)

2. 3.

HCR

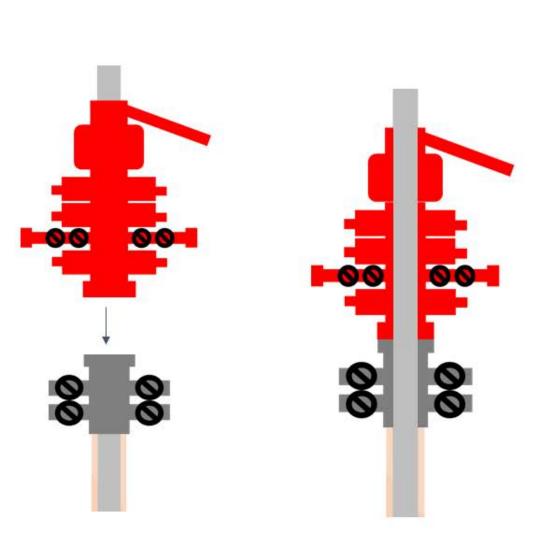
Testing this break

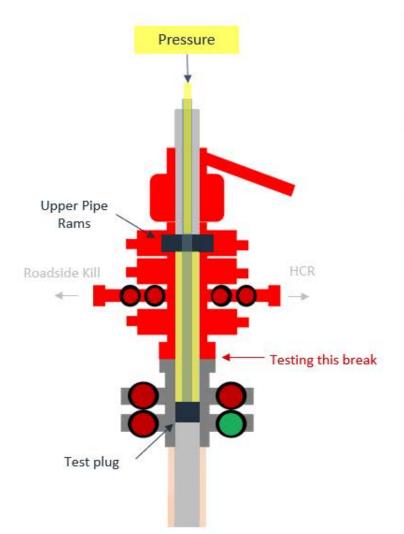
Steps

Pressure

- 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



2/24/2022

Cement Program

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

Summarized Operational Procedure for Intermediate Casing

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



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



2/24/2022

Example Well Control Plan Content

A. Well Control Component Table

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

Intermediate hole section, 5M requirement

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

B. Well Control Procedures

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

General Procedure While Circulating

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

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2/24/2022

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

General Procedure While Cementing

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

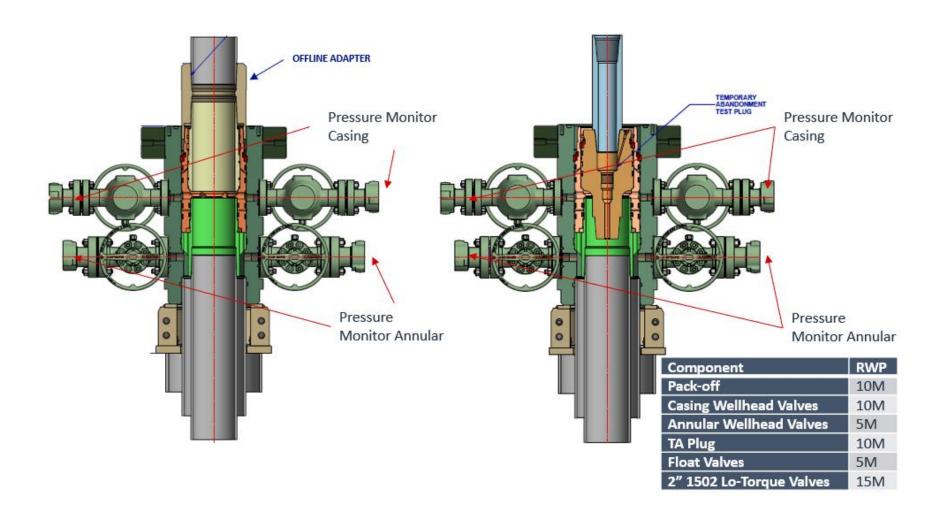
General Procedure After Cementing

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



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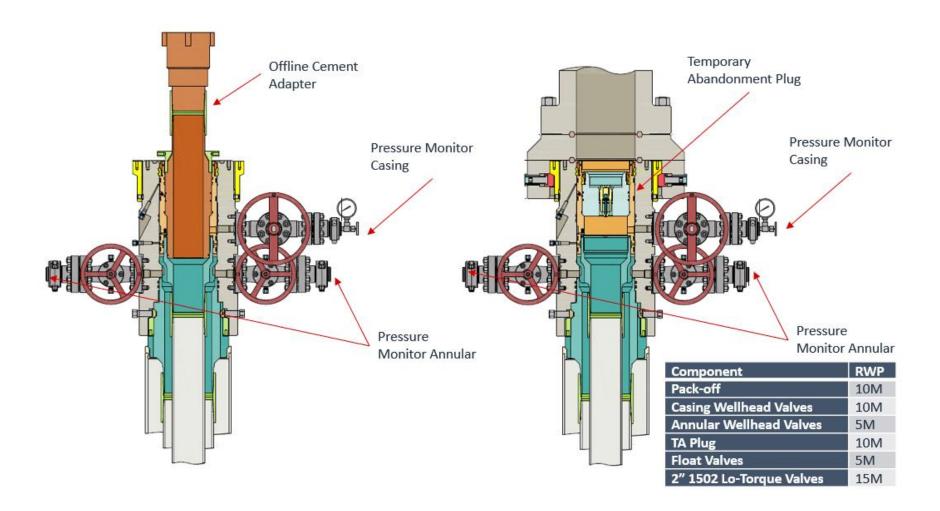
Figure 1: Cameron TA Plug and Offline Adapter Schematic





2/24/2022

Figure 2: Cactus TA Plug and Offline Adapter Schematic

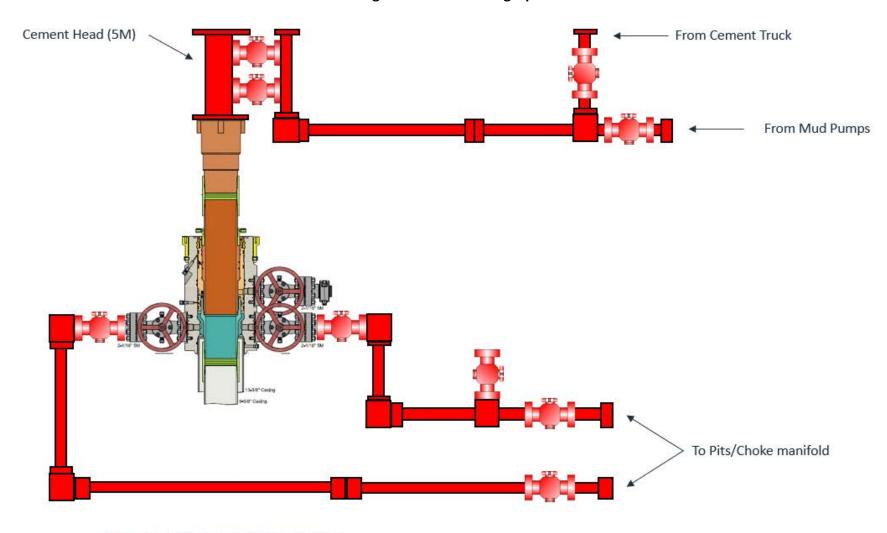


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Figure 3: Back Yard Rig Up



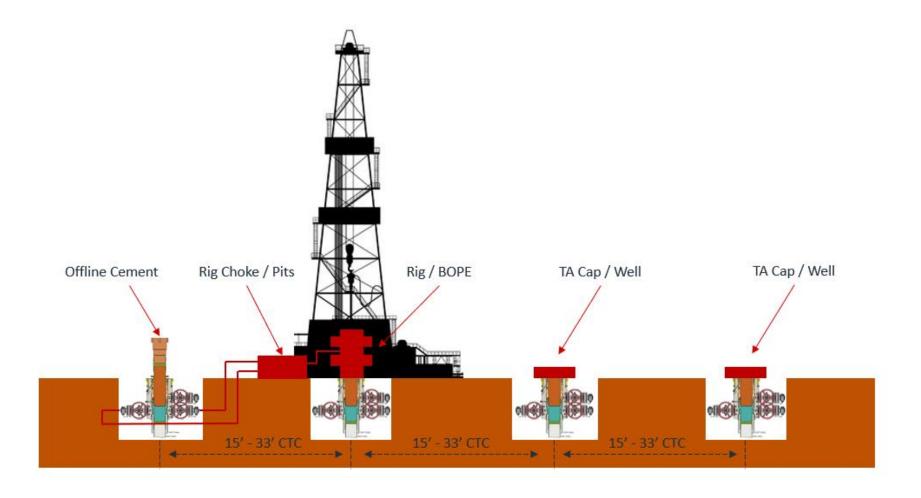
*** All Lines 10M rated working pressure

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Figure 4: Rig Placement Diagram



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Salt Section Annular Clearance Variance Request

Daniel Moose

Current Design (Salt Strings)

0.422" Annular clearance requirement

- Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
- 12.25" Hole x 9.625"40# J55/HCK55 LTC Casing
 - 1.3125" Clearance to casing OD
 - 0.8125" Clearance to coupling OD
- 9.875" Hole x 8.75" 38.5# P110 Sprint-SF Casing
 - 0.5625" Clearance to casing OD
 - 0.433" Clearance to coupling OD

Annular Clearance Variance Request

EOG request permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Onshore Order #2 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

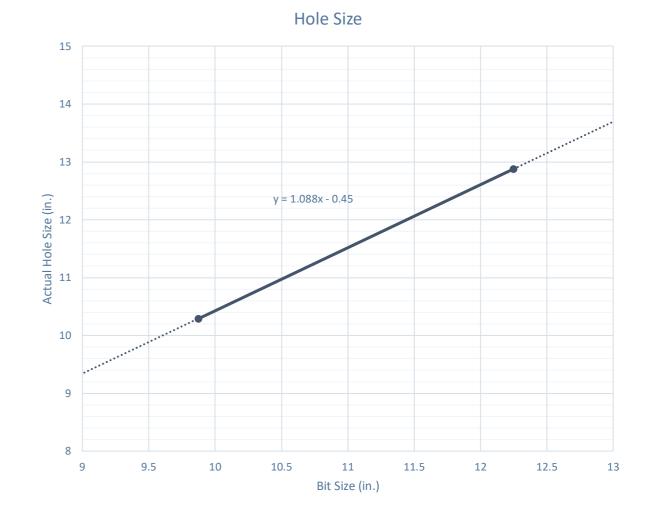
Volumetric Hole Size Calculation

Hole Size Calculations Off Cement Volumes

- Known volume of cement pumped
- Known volume of cement returned to surface
- Must not have had any losses
- Must have bumped plug

Average Hole Size

- 12.25" Hole
 - 12.88" Hole
 - 5.13% diameter increase
 - 10.52% area increase
 - 0.63" Average enlargement
 - 0.58" Median enlargement
 - 179 Well Count
- 9.875" Hole
 - 10.30" Hole
 - 4.24% diameter increase
 - 9.64% area increase
 - 0.42" Average enlargement
 - 0.46" Median enlargement
 - 11 Well Count

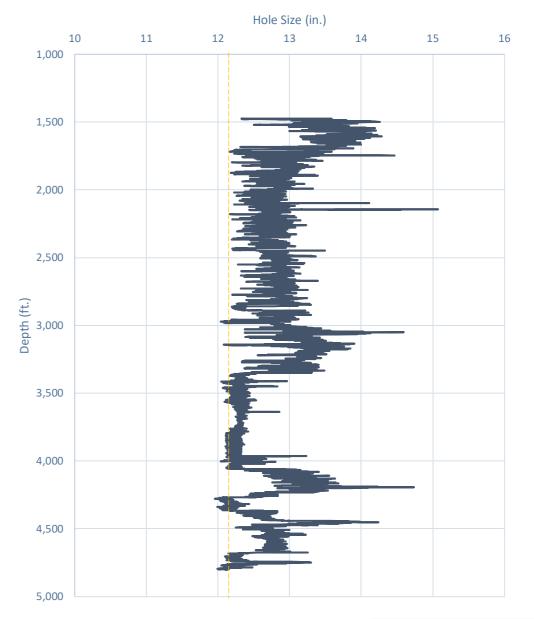


Modelo 10 Fed Com #501H

Caliper Hole Size (12.25")

Average Hole Size

- 12.25" Bit
 - 12.76" Hole
 - 4.14% diameter increase
 - 8.44% area increase
 - 0.51" Average enlargement
 - 0.52" Median enlargement
 - Brine

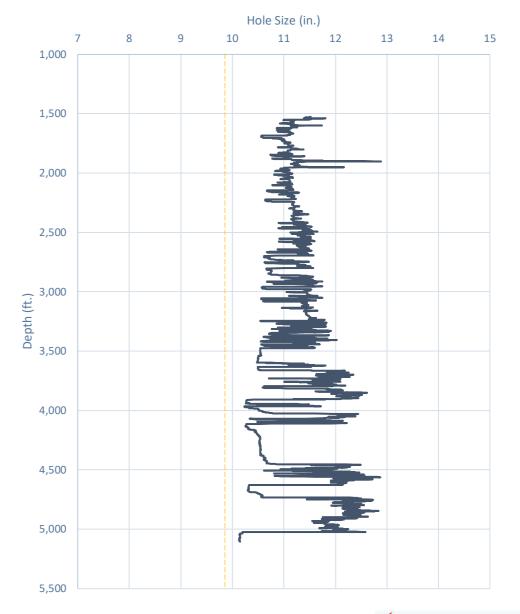


Caliper Hole Size (9.875")

Average Hole Size

- 9.875" Hole
 - 11.21" Hole
 - 13.54% diameter increase
 - 28.92% area increase
 - 1.33" Average enlargement
 - 1.30" Median enlargement
 - EnerLite

Whirling Wind 11 Fed Com #744H



Design A

Proposed 11" Hole with 9.625" 40# J55/HCK55 LTC Casing

- 11" Bit + 0.52" Average hole enlargement = 11.52" Hole Size
 - 0.9475" Clearance to casing OD

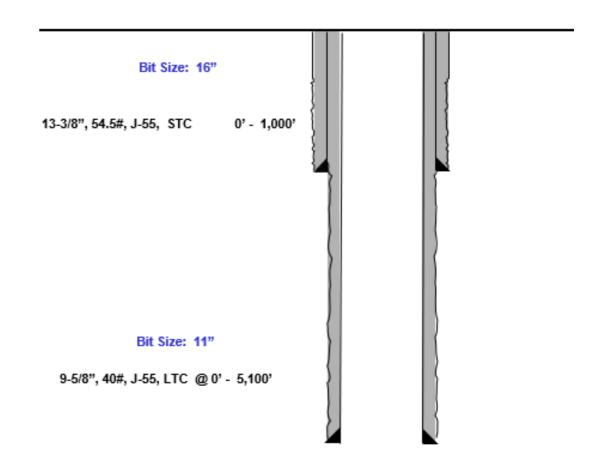
$$=\frac{11.52-9.625}{2}$$

• 0.4475" Clearance to coupling OD

$$=\frac{11.52-10.625}{2}$$

- Previous Shoe 13.375" 54.5# J55 STC
 - 0.995" Clearance to coupling OD (~1,200' overlap)

$$=\frac{12.615-10.625}{2}$$



Design B

Proposed 9.875" Hole with 8.625" 32# J55/P110 BTC-SC Casing

- 9.875" Bit + 0.42" Average hole enlargement = 10.295" Hole Size
 - 0.835" Clearance to casing OD

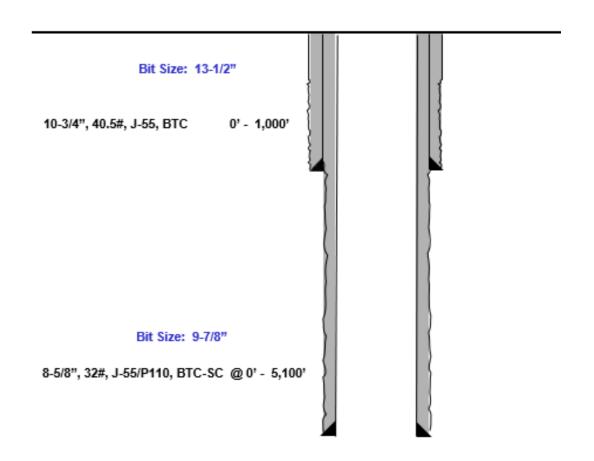
$$=\frac{10.295-8.625}{2}$$

• 0.585" Clearance to coupling OD

$$=\frac{10.295-9.125}{2}$$

- Previous Shoe 10.75" 40.5# J55 STC
 - 0.4625" Clearance to coupling OD (~1,200' overlap)

$$=\frac{10.05-9.125}{2}$$



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Casing Spec Sheets

PERFORMANCE DATA

API LTC 9.625 in 40.00 lbs/ft K55 HC Technical Data Sheet

Tubular Parameters					
Size	9.625	in	Minimum Yield	55	ksi
Nominal Weight	40.00	lbs/ft	Minimum Tensile	95	ksi
Grade	K55 HC		Yield Load	629	kips
PE Weight	38.94	lbs/ft	Tensile Load	1088	kips
Wall Thickness	0.395	in	Min. Internal Yield Pressure	3,950	psi
Nominal ID	8.835	in	Collapse Pressure	3600	psi
Drift Diameter	8.750	in			

Connection Parameters								
Connection OD	10.625	in						
Coupling Length	10.500	in						
Threads Per Inch	8	tpi						
Standoff Thread Turns	3.50	turns						
Make-Up Loss	4.750	in						
Min. Internal Yield Pressure	3,950	psi						

11.454

Pipe Body and API Connections Performance Data

13.375 54.50/0.380 J55 PDF

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Minimum Collapse Pressure

Maximum Make-Up Torque



22010 10.0 1.01 7411					
Aechanical Properties	Ptpe	втс	LTC	STC	
Minimum \field Strength	55,000	-	-	-	psi
Maximum Yield Strength	80,000	-	-	-	psi
Minimum Tensile Strength	75,000	-	-	-	psi
dimensions	Pipe	втс	LTC	STC	
Dutside Diameter	13.375	14.375	-	14.375	in.
Wall Thickness	0.380	-	-	-	in.
inside Diameter	12.615	12.615	-	12.615	in.
Standard Drift	12.459	12.459	-	12.459	in.
Alternate Drift	-	-	-	-	in.
Nominal Linear Weight, T&C	54.50	-	-	-	lbs/ft
Plain End Weight	52.79	-	-	-	lbs/ft
Performance	Pipe	втс	LTC	STC	

Minimum Internal Yield Pressure	2,740	2,740	-	2,740	psi
Minimum Pipe Body Yield Strength	853.00	-	-	-	1000 lbs
Joint Strength	-	909	-	514	1000 lbs
Reference Length	-	11,125	-	6,290	ft
Make-Up Data	Ptpe	втс	LTC	STC	
Make-Up Loss	-	4.81	-	3.50	in.
Minimum Make-Up Torque	_		-	3,860	ft-lbs

6,430

Nom. Pipe Body Area

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5,250

ft-lbs

Casing Spec Sheets

Pipe Body and API Connections Performance Data

10.750 40.50/0.350 J55 PDF

New Search » « Back to Previous List USC Metric 6/8/2015 10:14:05 AM BTC STC Ptpe Mechanical Properties Minimum Yield Strength 55,000 psi Maximum Yield Strength 80,000 Minimum Tensile Strength 75,000 psi BTC LTC STC Pipe 11.750 Outside Diameter 10.750 11.750 in. Wall Thickness 0.350 Inside Diameter 10.050 10.050 10.050 Standard Drift 9.894 9.894 in. Alternate Drift in. Nominal Linear Weight, T&C 40.50 lbs/ft Plain End Weight 38.91 lbs/ft Performance Ptpe BTC STC Minimum Collapse Pressure psi Minimum Internal Yield Pressure 3,130 3,130 3.130 Minimum Pipe Body Yield Strength 629.00 1000 lbs 700 420 Joint Strength 1000 lbs Reference Length 11,522 6,915 BTC STC Make-Up Data Ptpe 4.81 Make-Up Loss 3.50 in. Minimum Make-Up Torque 3,150 ft-lbs

								V	val	loui	rec
						AP	1 5CT,	10th Ed.	Connect	ion Dat	a Sheet
EB LB	O.D. (in)	WEIGHT (II	,	WALL (in)	GR	ADE	*API DR	IFT (in)	RBV	٧ %
ᄩ	8.625	Nominal: Plain End:	32.00 31.13	0.352		J	55	7.7	96	87	.5
MADE IN USA		Material Properti	es (PE)					Pipe Bod	v Data (I	PE)	
DE IN		Pipe	,						metry	_,	
_	Minimum `	Yield Strength:	55	ksi		Nomir	nal ID:			7.92	inch
#O4	Maximum	Yield Strength:	80	ksi		Nomir	nal Area	1 :		9.149	in ²
**	Minimum ¹	Tensile Strength:	75	ksi		*Spec	ial/Alt. [Drift:		7.875	inch
SLN		Coupling						Perfo	rmance		
#0/M	Minimum `	Yield Strength:	55	ksi		Pipe Body Yield Strength: 503 kip			kips		
	Maximum	80	ksi		Collapse Resistance: 2,530 psi			psi			
DA 7.875	Minimum [*]	Tensile Strength:	75	ksi		Internal Yield Pressure: (API Historical) 3,930 ps			psi		
2 DA											
S2L2		API Connection Coupling OD: 9.					Al	PI Conne	ction To	rque	
S S		STC Performa	ance					STC Tor	que (ft-lk	os)	
350 #	STC Inter	nal Pressure:	3,930	psi		Min:	2,793	Opti:	3,724	Max:	4,655
5 32#	STC Joint	Strength:		kips							
8.625		LTC Performa	ince					LTC Tor	que (ft-lk	os)	
AR 3	LTC Intern	nal Pressure:	3,930	psi		Min:	3,130	Opti:	4,174	Max:	5,217
SST	LTC Joint	•		kips							
JREC	SC-BTC F	Performance - Cp	olg OD =	9.125"				BTC Tor	que (ft-ll	os)	
VALLOUREC STAR	BTC Interr	nal Pressure:	3,930	psi		follo	w API gu	iidelines reg	garding po	sitional ma	ake up
\A\	BTC Joint	Strength:	503	kips							
		*,	Alt. Drift will	be used unl	ess	API Drift	is specifie	ed on order.			
	**	f above API connecti	ons do not	suit your ne 100% of				m connection	ons are av	ailable up	to
	AND ON AN "A	ON IS PROVIDED BY VALLOUREC O AS IS" BASIS WITHOUT WARRANT LITY. FITNESS FOR PURPOSE, ACC	TY OR REPRESENT	ATION OF ANY KI	IND, V	VHETHER EX	PRESS OR IMP	PLIED, INCLUDING	WITHOUT LIMIT	TATION ANY WA	ARRANTY OF

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Maximum Make-Up Torque



EOG BLANKET CASING DESIGN VARIANCE

EOG respectfully requests the drill plans in the attached document 'EOG Alternate Casing Designs – BLM APPROVED' be added to the COA's for this well. These designs have been approved by the BLM down to the TVDs listed below and will allow EOG to run alternate casing designs for this well if necessary.

The designs and associated details listed are the "worst case scenario" boundaries for design safety factors. Location and lithology have NOT been accounted for in these designs. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program will not change from the original design for this well. Summary of the mud programs for both shallow and deep targets are listed at the end of this document. If the target is changing, a sundry will be filed to update the casing design and mud/cement programs.

Cement volumes listed in this document are for reference only. The cement volumes for the specific well will be adjusted to ensure cement tops meet BLM requirements as listed in the COA and to allow bradenhead cementing when applicable.

This blanket document only applies to wells with three string designs outside of Potash and Capitan Reef boundaries.

Shallow Design Boundary Conditions								
	Deepest	Deepest	Max Inc	Max DLS				
	MD (ft)	TVD (ft)	(deg)	(°/100usft)				
Surface	2030	2030	0	0				
Intermediate	7793	5650	40	8				
Production	28578	11225	90	25				



Shallow Design A

1. CASING PROGRAM

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	2,030	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,793	0	5,650	9-5/8"	40#	J-55	LTC
6-3/4"	0	28,578	0	11,225	5-1/2"	20#	P110-EC	DWC/C IS MS

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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:

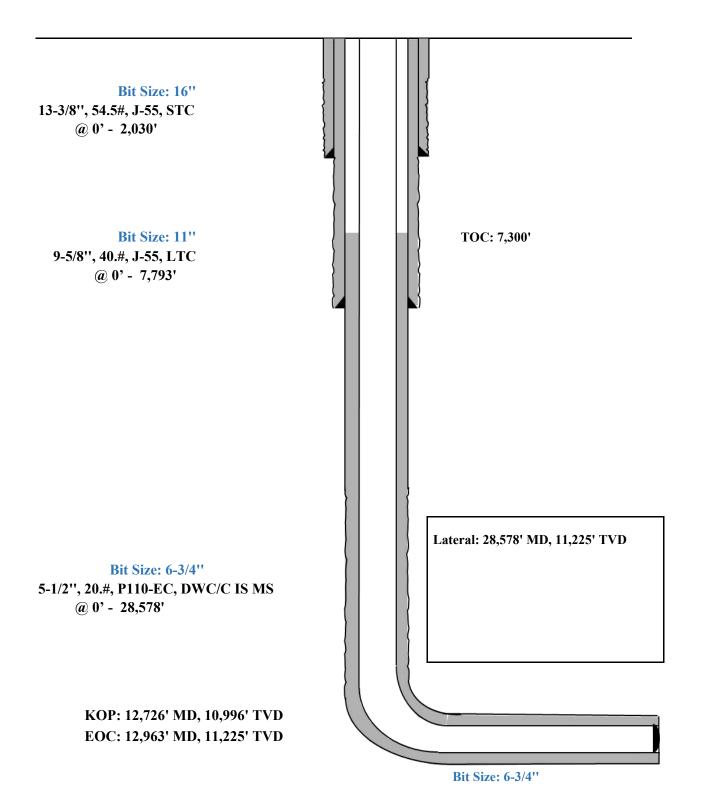
		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Sidily Description
2,030'	570	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
13-3/8''				Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 1830')
7,793'	770	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @
9-5/8''				Surface)
	250	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 6238')
28,578'	410	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC
5-1/2"				@ 7300')
	1110	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 @
				12730')

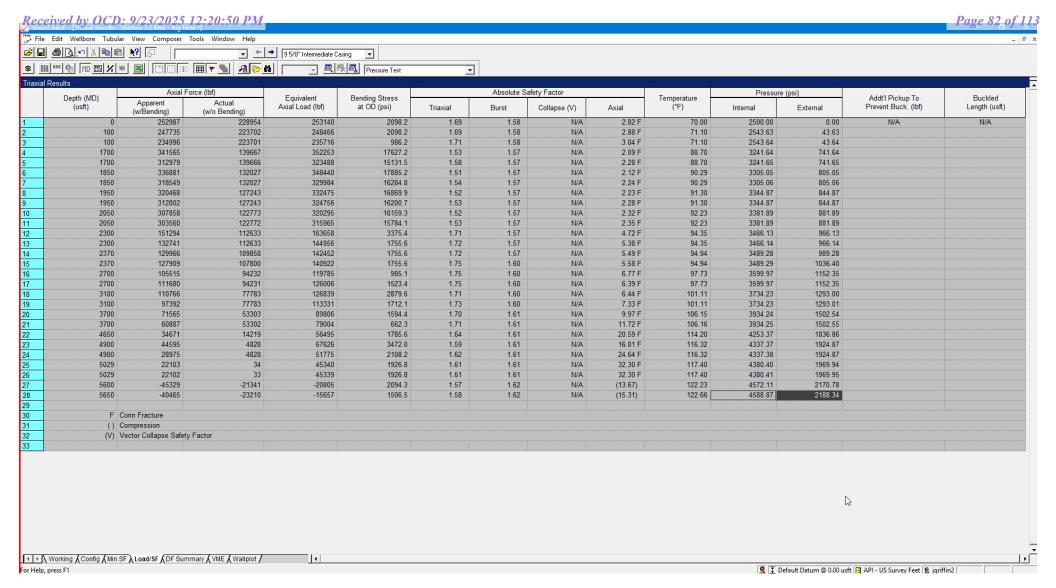


Shallow Design A

Proposed Wellbore

KB: 3558' GL: 3533'

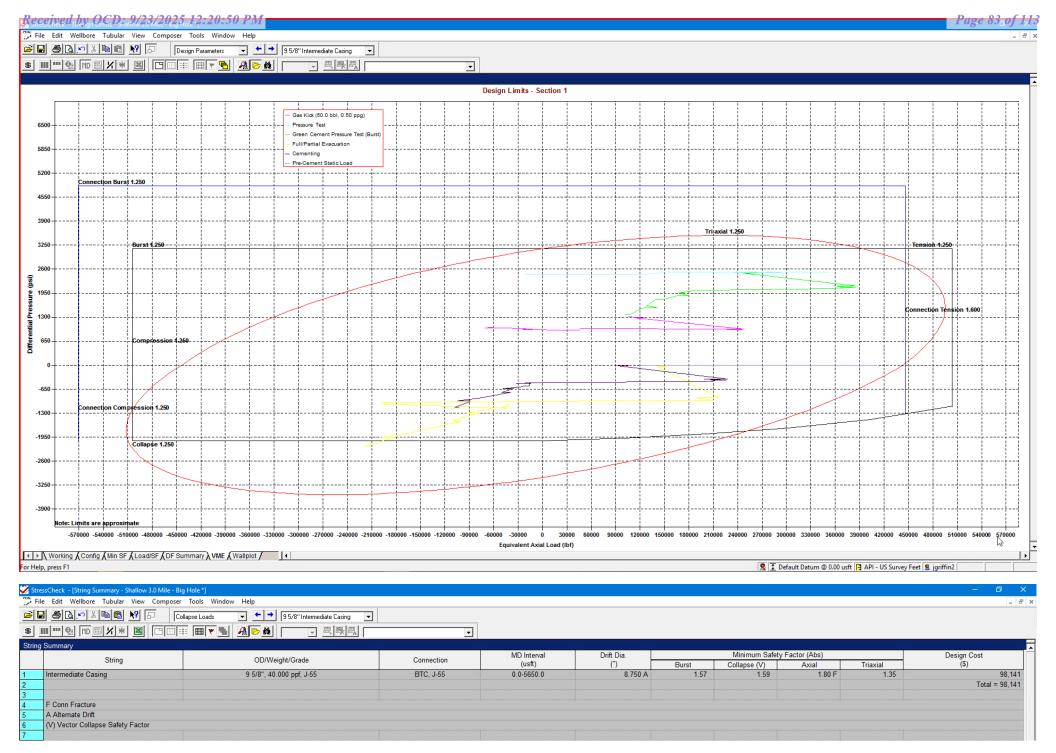




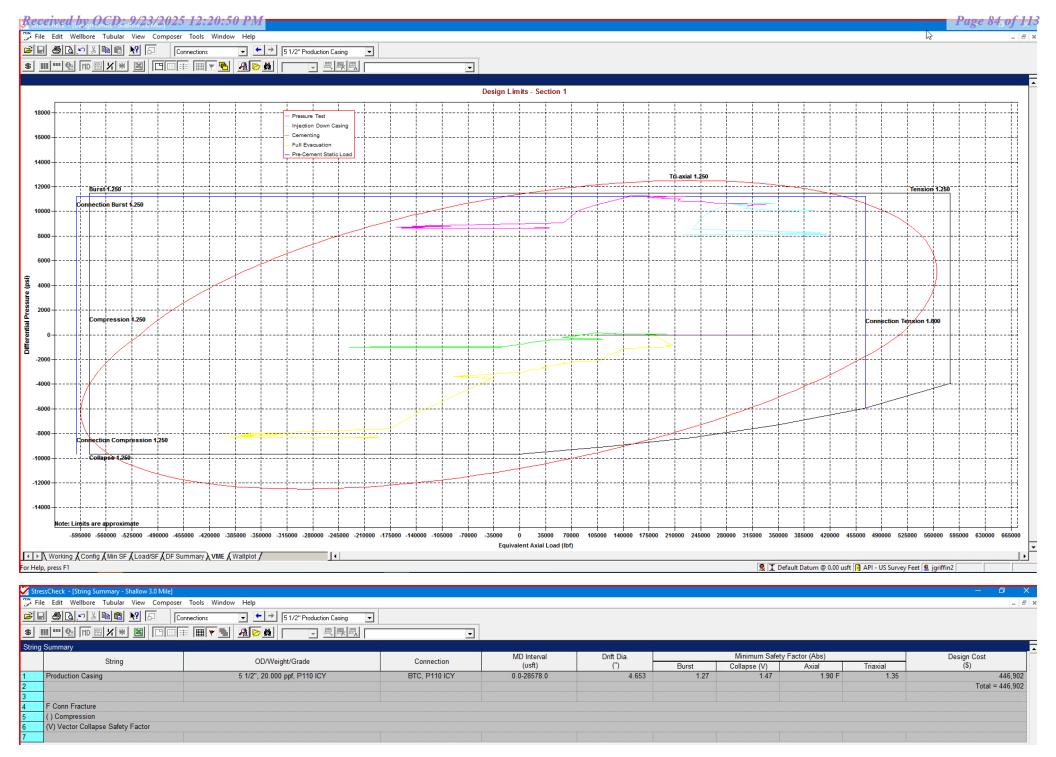
9-5/8" Intermediate Casing Pressure Test:

Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi

External Profile based off Pore Pressure: 2188 psi



^{*}Modelling done with 9-5/8" 40# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.



^{*}Modelling done with 5-1/2" 20# Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.

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Shallow Design B

1. CASING PROGRAM

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13-1/2"	0	2,030	0	2,030	10-3/4"	40.5#	J-55	STC
9-7/8"	0	7,793	0	5,650	8-5/8"	32#	J-55	BTC-SC
6-3/4"	0	28,578	0	11,225	5-1/2"	20#	P110-EC	DWC/C IS MS

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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:

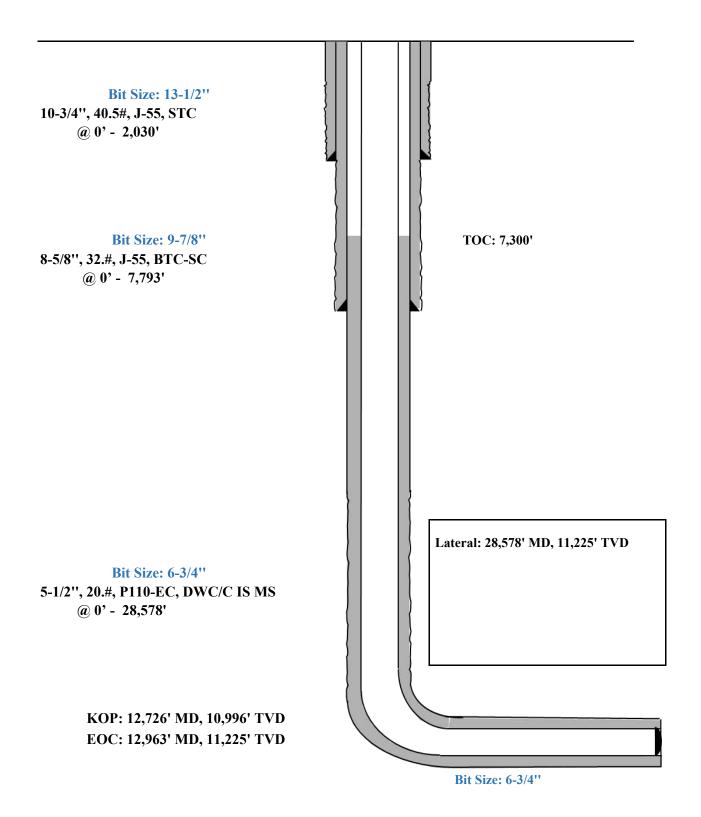
		Wt.	Yld	
Depth	No. Sacks		Ft3/sk	Slurry Description
2,030'	530	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
10-3/4''				Flake (TOC @ Surface)
	140	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 1830')
7,793'	460	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @
8-5/8''				Surface)
	210	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 6238')
28,578'	400	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC
5-1/2''				@ 7300')
	1110	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 @
				12730')

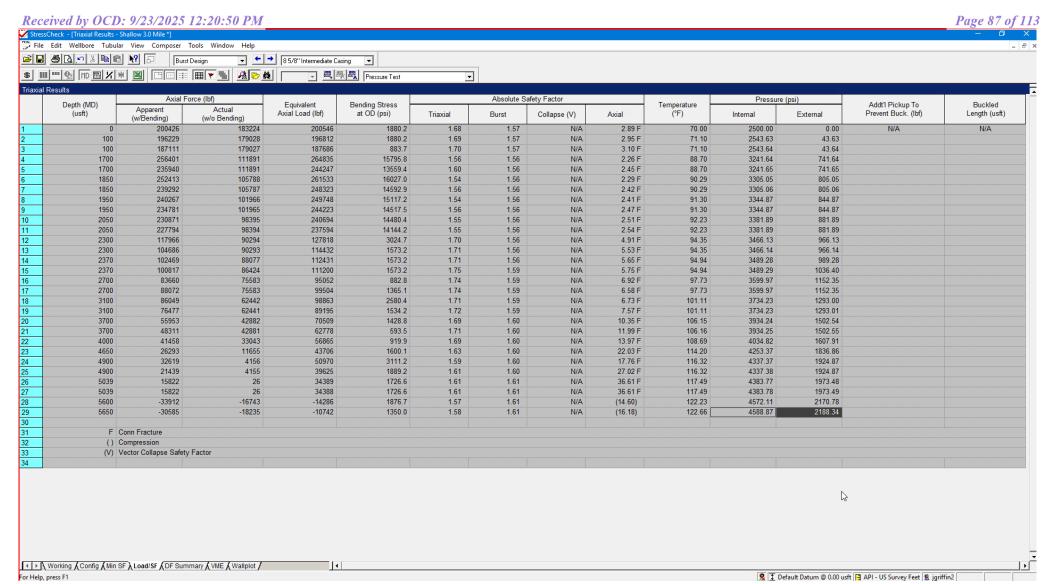


Shallow Design B

Proposed Wellbore

KB: 3558' GL: 3533'

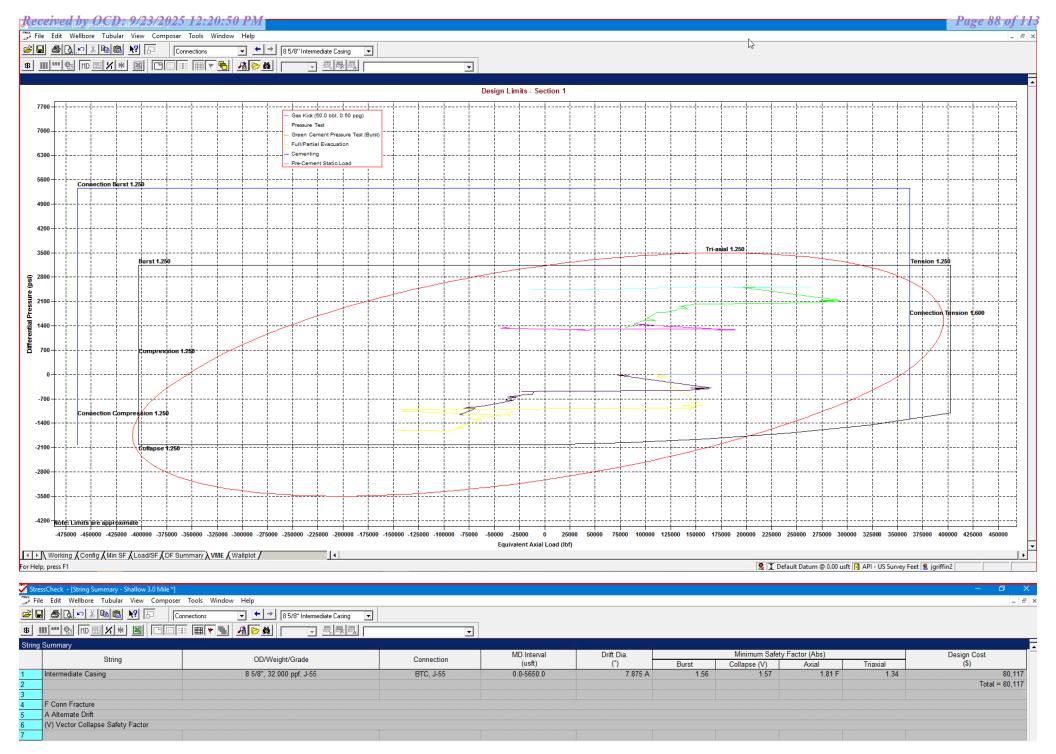




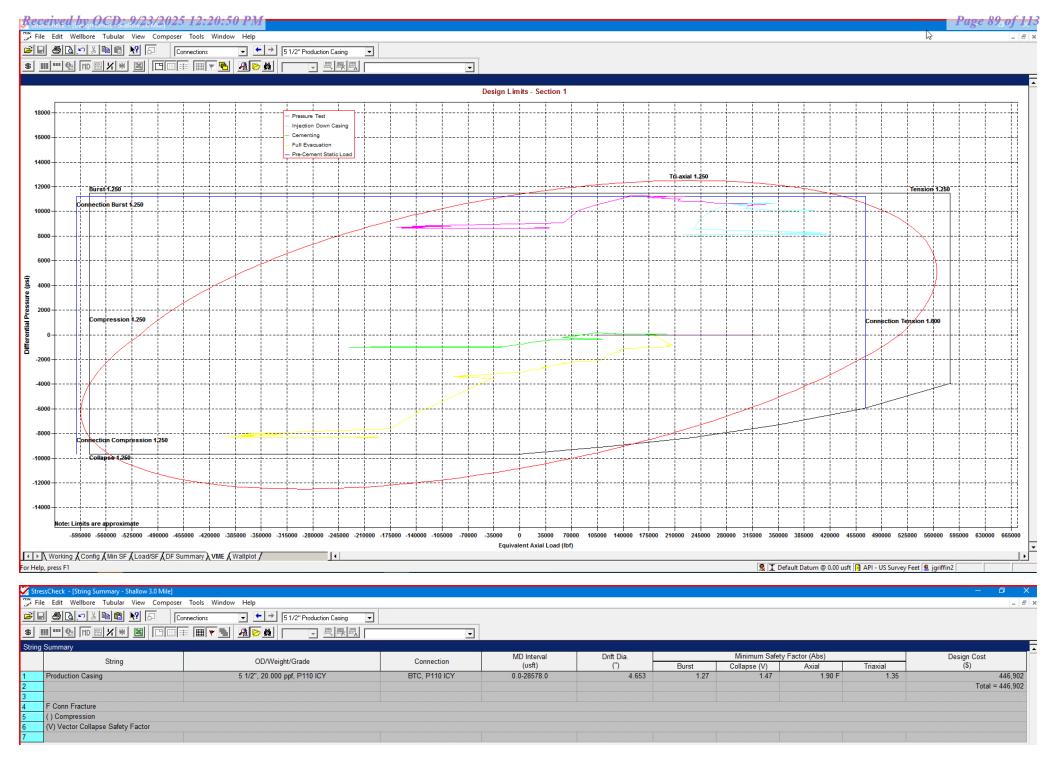
8-5/8" Intermediate Casing Pressure Test:

Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi

External Profile based off Pore Pressure: 2188 psi



^{*}Modelling done with 8-5/8" 32# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.



^{*}Modelling done with 5-1/2" 20# Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.

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Shallow Design C

1. CASING PROGRAM

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	2,030	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,793	0	5,650	9-5/8"	40#	J-55	LTC
7-7/8"	0	28,578	0	11,225	6"	24.5#	P110-EC	VAM Sprint-SF

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 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.

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:

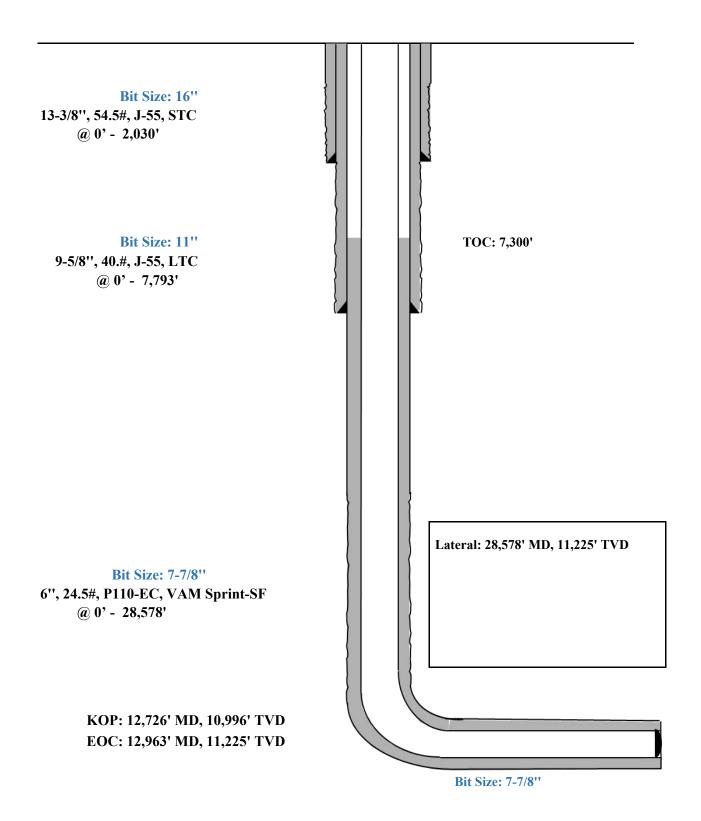
		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Sidily Description
2,030'	570	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
13-3/8''				Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 1830')
7,793'	770	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @
9-5/8''				Surface)
	250	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 6238')
28,578'	650	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC
6''				@ 7300')
	1870	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 @
				12730')

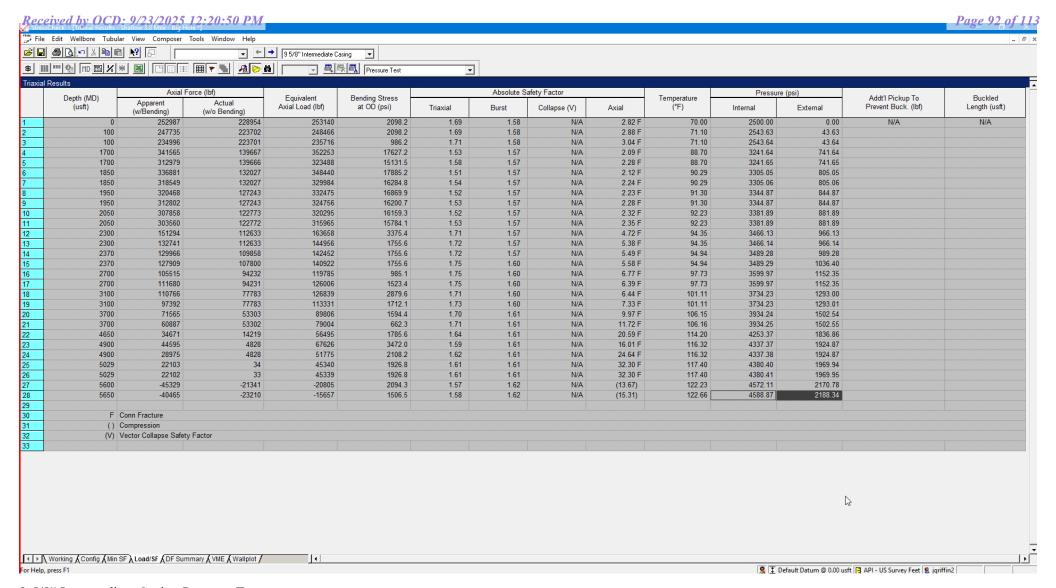


Shallow Design C

Proposed Wellbore

KB: 3558' GL: 3533'

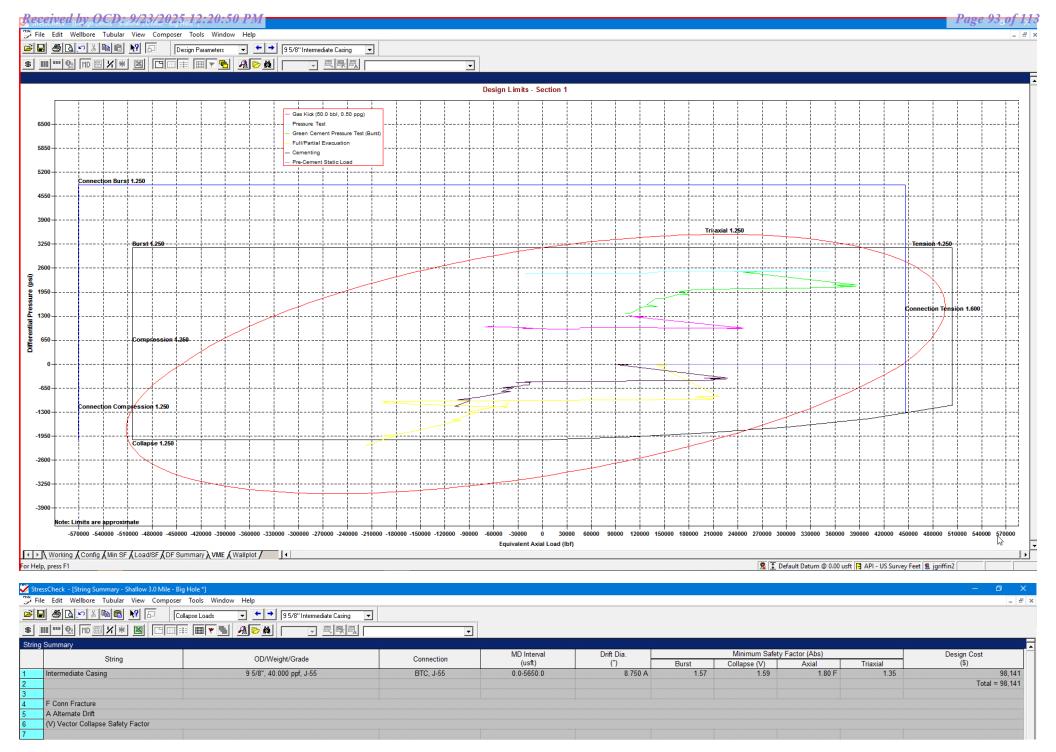




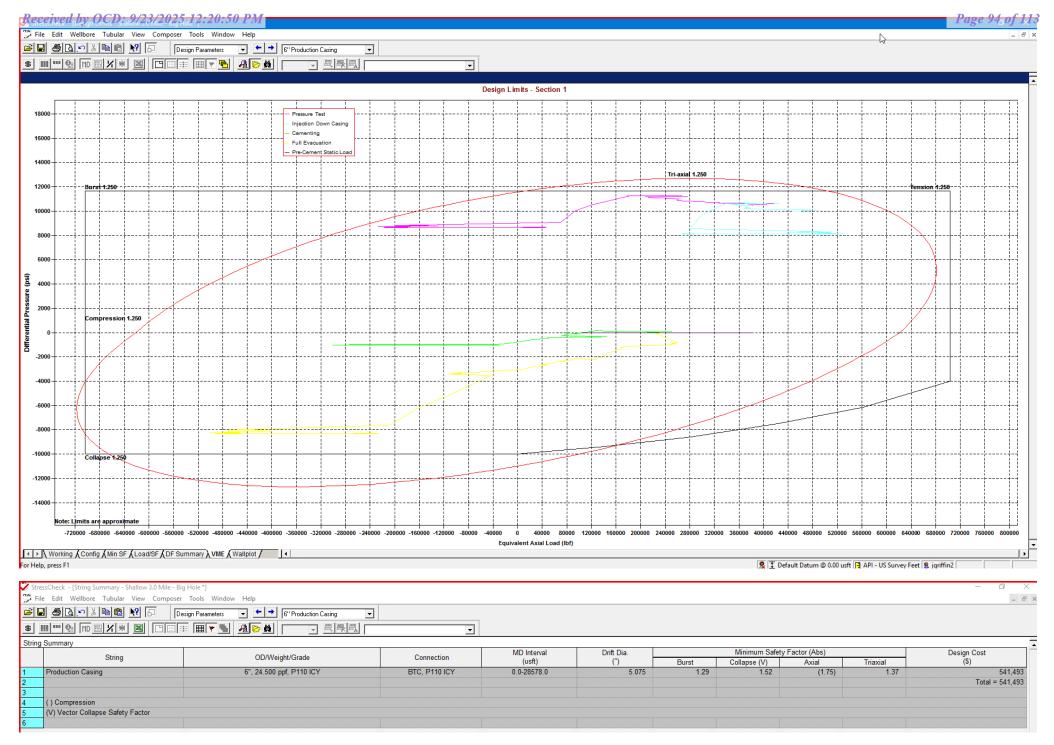
9-5/8" Intermediate Casing Pressure Test:

Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi

External Profile based off Pore Pressure: 2188 psi



^{*}Modelling done with 9-5/8" 40# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.



^{*}Modelling done with 6" Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.



Shallow Design D

4. CASING PROGRAM

Hole	Interv	al MD	Interva	Interval TVD				
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	2,030	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,793	0	5,650	9-5/8"	40#	J-55	LTC
7-7/8"	0	12,626	0	10,896	6"	22.3#	P110-EC	DWC/C IS
6-3/4"	12,626	28,578	10,896	11,225	5-1/2"	20#	P110-EC	DWC/C IS MS

Hole will be full during casing run for well control and tensile SF factor. Casing will be kept at least half full during run for this design to meet BLM collapse SF requirement. External pressure will be reviewed prior to conducting casing pressure tests to ensure that 70% of the yield is not exceeded.

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 6" and 5-1/2" casings in the 7-7/8" and 6-3/4" hole sizes. An expansion additive will be utilized in the cement slurry for the entire length of the 7-7/8" and 6-3/4" hole intervals 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.

5. CEMENTING PROGRAM:

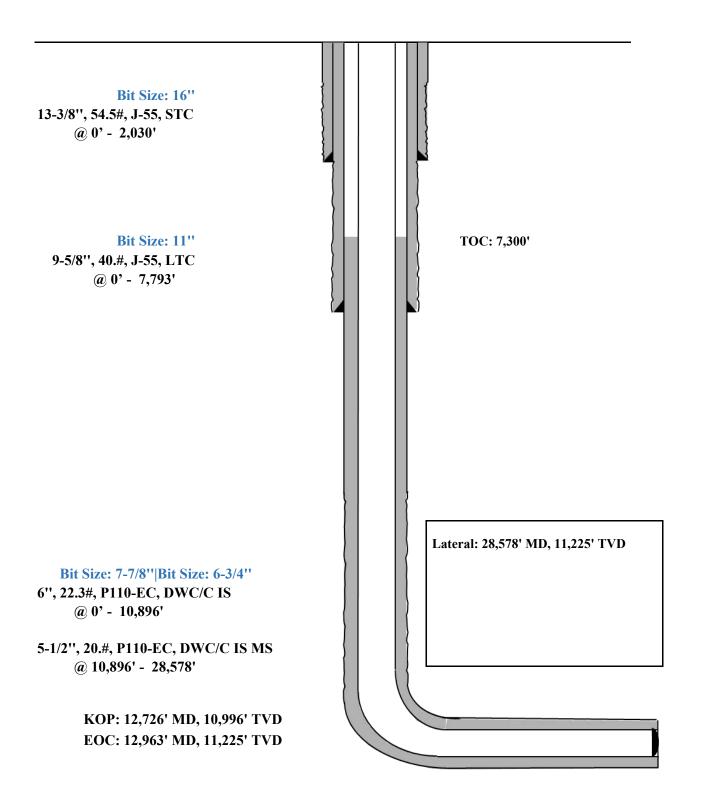
		Wt.	Yld	Clump, Description
Depth	No. Sacks	ppg	Ft3/sk	Slurry Description
2,030'	570	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-
13-3/8''				Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 1830')
7,793'	770	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @
9-5/8''				Surface)
	250	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 6238')
28,578'	650	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC
6''				@ 7300')
	1870	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 @
				12730')

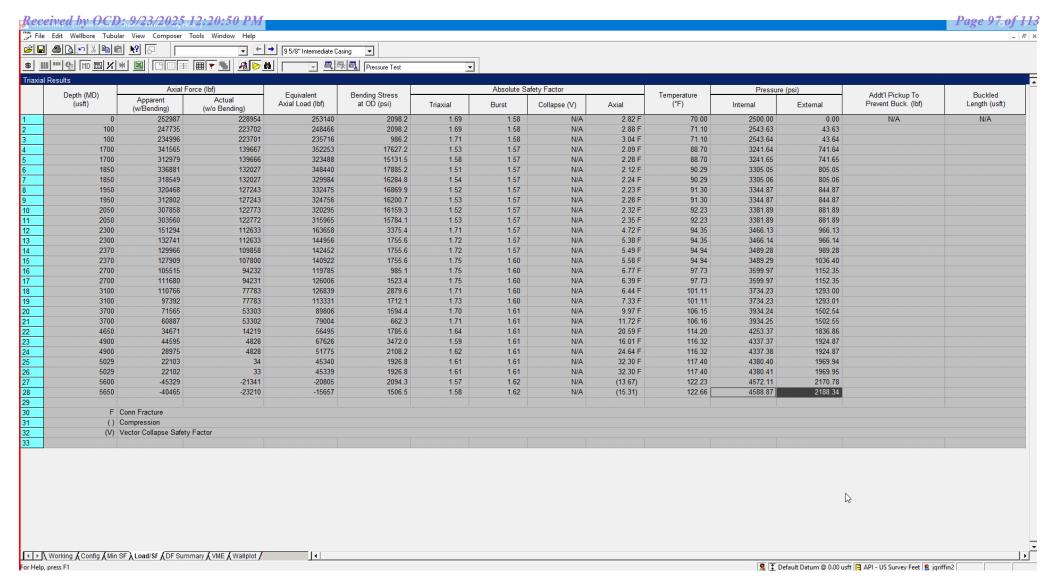


Shallow Design D

Proposed Wellbore

KB: 3558' GL: 3533'

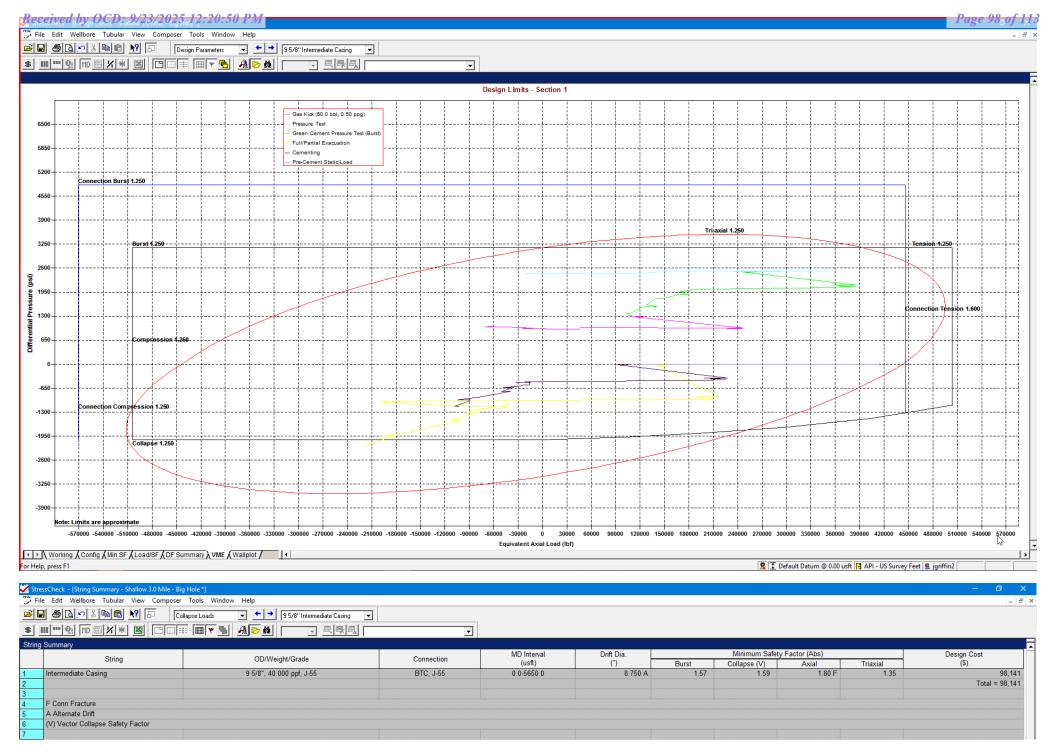




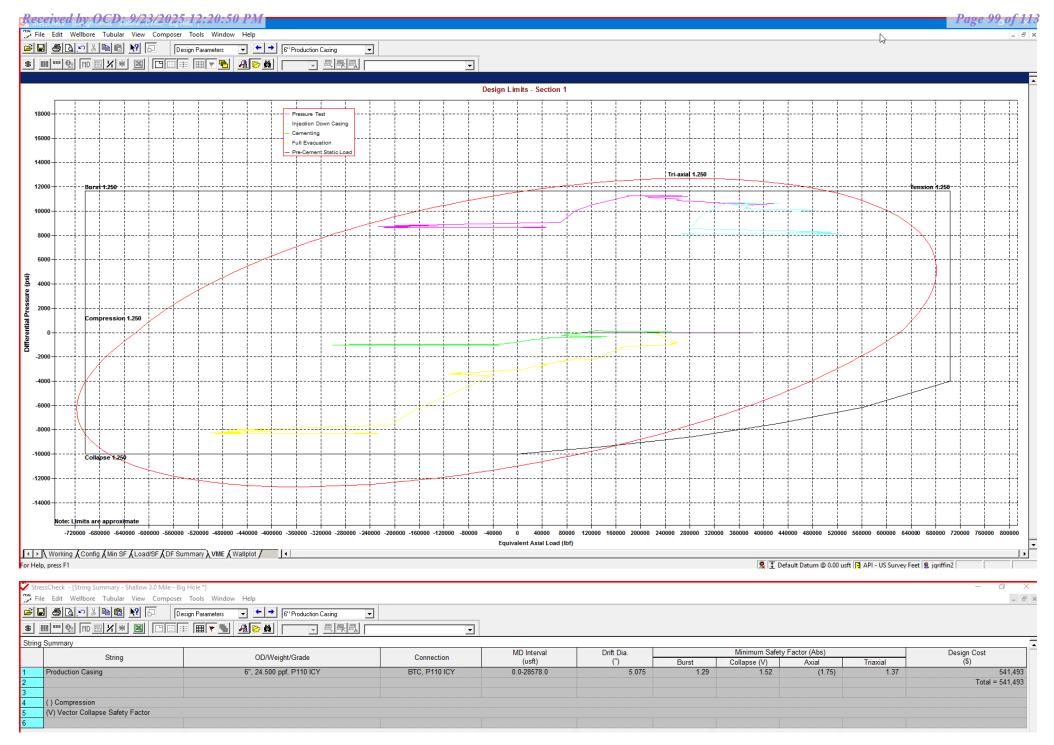
9-5/8" Intermediate Casing Pressure Test:

Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi

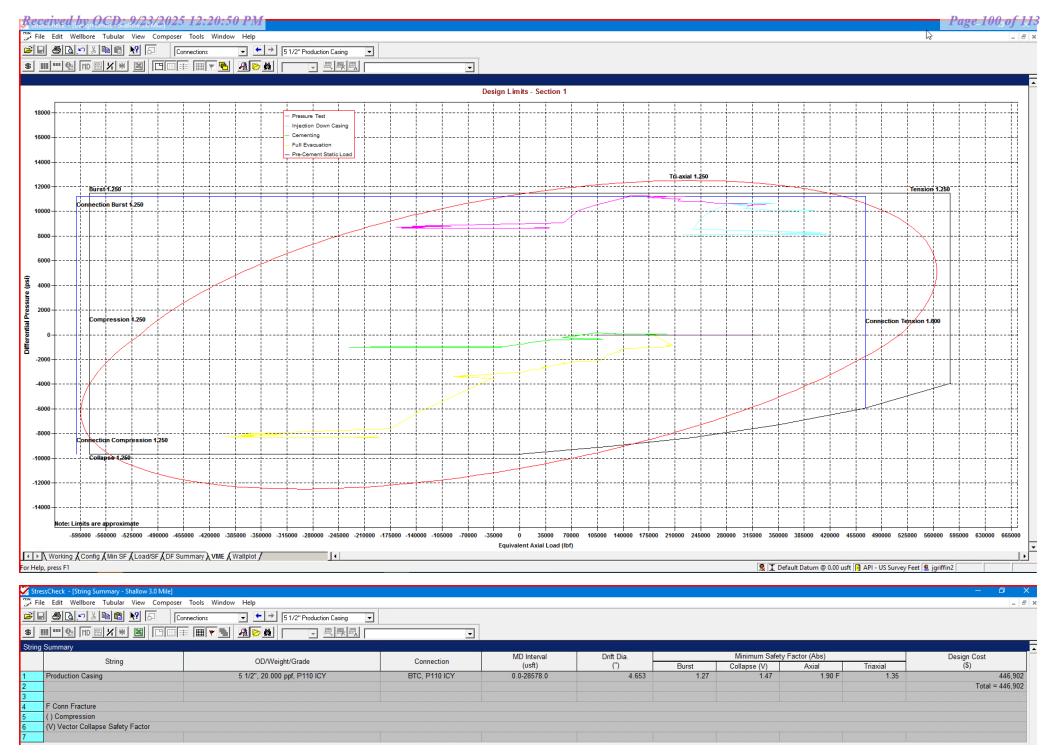
External Profile based off Pore Pressure: 2188 psi



^{*}Modelling done with 9-5/8" 40# Intermediate Casing. Passes all Burst, Collapse and Tensile design criteria.



^{*}Modelling done with 6" Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.



^{*}Modelling done with 5-1/2" 20# Production Casing with a 125ksi Control Yield. Passes all Burst, Collapse and Tensile design criteria.

Page 22 of 32



MUD PROGRAM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal. The applicable depths and properties of the drilling fluid systems are as follows:

Measured Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 2,030'	Fresh - Gel	8.6-8.8	28-34	N/c
2,030' – 7,793'	Brine	9-10.5	28-34	N/c
5,450' – 28,578' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

CEMENTING ADDITIVES:

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	

Cement integrity tests will be performed immediately following plug bump.

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.

Released to Imaging: 11/24/2025 9:49:34 AM Maximum Make-Up Torque

ft-lbs

6,430

New Search »					Back to Previous List
					USC Metric
6/8/2015 10:04:37 AM	50°	W2	2.	8 2	
Mechanical Properties	Ptpe	втс	LTC	STC	
Minimum Yield Strength	55,000	2.	_		psi
Maximum Yield Strength	80,000	=		=	psi
Minimum Tensile Strength	75,000		_	-	psi
Dimensions	Ріре	втс	LTC	STC	
Outside Diameter	13.375	14.375		14.375	in.
Wall Thickness	0.380	-	; - -::	2 - 2	in.
Inside Diameter	12.615	12.615		12.615	in.
Standard Drift	12.459	12.459		12.459	in.
Alternate Drift	-	2.1	-	_	in.
Nominal Linear Weight, T&C	54.50	-			lbs/ft
Plain End Weight	52.79			2	lbs/ft
Performance	Ріре	втс	LTC	STC	
Minimum Collapse Pressure	1,130	1,130		1,130	psi
Minimum Internal Yield Pressure	2,740	2,740		2,740	psi
Minimum Pipe Body Yield Strength	853.00	±1	_	-	1000 lbs
Joint Strength	-	909		514	1000 lbs
Reference Length	_	11,125		6,290	n
Make-Up Data	Ptpe	втс	LTC	STC	
Make-Up Loss	-	4.81	-	3.50	in.
Minimum Make-Up Torque	-	-	 3	3,860	ft-lbs

Page 24 of 32

« Back to Previous List USC Metric 6/8/2015 10:23:27 AM **Mechanical Properties** BTC LTC STC Pipe 55,000 Minimum Yield Strength psi Maximum Yield Strength 80.000 psi 75,000 Minimum Tensile Strength psi **Dimensions** Pipe BTC LTC STC **Outside Diameter** 9.625 10.625 10.625 10.625 in. Wall Thickness 0.395 in. Inside Diameter 8.835 8.835 8.835 8.835 in. Standard Drift 8.679 8.679 8.679 8.679 in. Alternate Drift 8.750 8.750 8.750 8.750 in. Nominal Linear Weight, T&C 40.00 lbs/ft Plain End Weight 38.97 lbs/ft Performance Pipe BTC LTC STC Minimum Collapse Pressure 2,570 2,570 2,570 2,570 psi Minimum Internal Yield Pressure 3,950 3,950 3,950 3.950 psi Minimum Pipe Body Yield Strength 630.00 1000 lbs

Joint Strength 714 520 452 1000 lbs Reference Length 11,898 8,665 7,529 ft Make-Up Data Pipe BTC LTC STC Make-Up Loss 4.81 4.75 3.38 in. Minimum Make-Up Torque 3,900 3,390 ft-lbs Page 25 of 32 Released to Imaging: 11/24/2025 9:49:34 AM Maximum Make-Up Torque 6,500 5,650 ft-lbs





Connection Data Sheet

OD (in.) WEIGHT (lbs./ft.) 5.500 Nominal: 20.00

WALL (in.) **GRADE** API DRIFT (in.) RBW% CONNECTION 0.361 VST P110EC 4.653 87.5 DWC/C-IS MS Plain End: 19.83

	PIPE PROPERTIES			CONNECTION PRO	PERTIES	
Outside Diameter		5.500	in.	Connection Type	Semi-Prem	ium T&C
Inside Diameter		4.778	in.	Connection O.D. (nom)	6.115	in.
Nominal Area		5.828	sq.in.	Connection I.D. (nom)	4.778	in.
Grade Type		API 5CT		Make-Up Loss	4.125	in.
Min. Yield Strength		125	ksi	Coupling Length	9.250	in.
Max. Yield Strength		140	ksi	Critical Cross Section	5.828	sq.in.
Min. Tensile Strength		135	ksi	Tension Efficiency	100.0%	of pipe
Yield Strength		729	klb	Compression Efficiency	100.0%	of pipe
Ultimate Strength		787	klb	Internal Pressure Efficiency	100.0%	of pipe
Min. Internal Yield		14,360	psi	External Pressure Efficiency	100.0%	of pipe
Collapse		12,090	psi			

CONNECTION PERFORMANCES					
Yield Strength	729	klb			
Parting Load	787	klb			
Compression Rating	729	klb			
Min. Internal Yield	14,360	psi			
External Pressure	12,090	psi			
Maximum Uniaxial Bend Rating	104.2	°/100 ft			
Reference String Length w 1.4 Design Factor	26,040	ft			

	FIELD END TORQUE VA	LUES	
ו	Min. Make-up torque	16,100	ft.lb
)	Opti. Make-up torque	17,350	ft.lb
)	Max. Make-up torque	18,600	ft.lb
i	Min. Shoulder Torque	1,610	ft.lb
i	Max. Shoulder Torque	12,880	ft.lb
t	Min. Delta Turn	-	Turns
t	Max. Delta Turn	0.200	Turns
	Maximum Operational Torque	21,100	ft.lb
	Maximum Torsional Value (MTV)	23,210	ft.lb

Need Help? Contact: tech.support@vam-usa.com Reference Drawing: 8136PP Rev.01 & 8136BP Rev.01

Date: 12/03/2019 Time: 06:19:27 PM

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

DWC Connection Data Sheet Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.



Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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10.750 40.50/0.350 J55 PDF

New Search »

« Back to Previous List

USC Metric

6/8/2015 10:14:05 AM

Mechanical Properties	Ptpe	втс	LTC	STC	
Minimum Yield Strength	55,000	-	-	-	psi
Maximum Yield Strength	80,000	-	-	-	psi
Minimum Tensile Strength	75,000	-	-	-	psi
Dimensions	Pipe	втс	LTC	STC	
Outside Diameter	10.750	11.750	-	11.750	in.
Wall Thickness	0.350	-	-	-	in.
Inside Diameter	10.050	10.050	-	10.050	in.
Standard Drift	9.894	9.894		9.894	in.
Alternate Drift	-	-	-	-	in.
Nominal Linear Weight, T&C	40.50		-	-	lbs/ft
Plain End Weight	38.91	-	-	-	lbs/ft
Performance	Ptpe	втс	LTC	STC	
Minimum Collapse Pressure	1,580	1,580	-	1,580	psi
Minimum Internal Yield Pressure	3,130	3,130	-	3,130	psi
Minimum Pipe Body Yield Strength	629.00	-	-	-	1000 lbs
Joint Strength	-	700	-	420	1000 lbs
Reference Length	-	11,522	-	6,915	ft
Make-Up Data	Ptpe	втс	LTC	STC	
Make-Up Loss	-	4.81	-	3.50	in.
Minimum Make-Up Torque		-		3,150	ft-lbs
Released to Imaging: 11/24/2025 9:49:34 AM Maximum Make-Up Torque	Page 28 of 32	-	-	5,250	ft-lbs



API 5CT, 10th Ed. Connection Data Sheet

O.D. (in)	WEIGHT	(lb/ft)	WALL (in)	GRADE	*API DRIFT (in)	RBW %
8.625	Nominal: Plain End:	32.00 31.13	0.352	J55	7.796	87.5

Material Properties (PE)				
Pipe				
Minimum Yield Strength:	55 ksi			
Maximum Yield Strength:	80 ksi			
Minimum Tensile Strength:	75 ksi			
Coupling				
Minimum Yield Strength:	55 ksi			
Maximum Yield Strength:	80 ksi			
Minimum Tensile Strength:	75 ksi			

Pipe Body Data (PE)		
Geomet	ry	
Nominal ID:	7.92 inch	
Nominal Area:	9.149 in ²	
*Special/Alt. Drift:	7.875 inch	
Performance		
Pipe Body Yield Strength:	503 kips	
Collapse Resistance:	2,530 psi	
Internal Yield Pressure: (API Historical)	3,930 psi	

Coupling OD: 9.625"		
STC Performan	се	
STC Internal Pressure:	3,930	psi
STC Joint Strength:	372	kips
LTC Performance		
LTC Internal Pressure:	3,930	psi
LTC Joint Strength:	417	kips
SC-BTC Performance - Cplg OD = 9.125"		
BTC Internal Pressure:	3,930	psi
BTC Joint Strength:	503	kips

API Connection Torque					
	5	STC Tor	que (ft-lb	s)	
Min:	2,793	Opti:	3,724	Max:	4,655
	LTC Torque (ft-lbs)				
Min:	3,130	Opti:	4,174	Max:	5,217
	DTO Tamura (# 11-a)				
BTC Torque (ft-lbs)					
follo	follow API guidelines regarding positional make up				

*Alt. Drift will be used unless API Drift is specified on order.

**If above API connections do not suit your needs, VAM® premium connections are available up to 100% of pipe body ratings.

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Rev 3, 7/30/2021 POSSIBILITY OF SUCH DAMAGES. 10/21/2022 15:24

Issued on: 10 Feb. 2021 by Wesley Ott



Connection Data Sheet

OD Weight (lb/ft) Wall Th. Grade API Drift: Connection

6 in. Nominal: 24.50 Plain End: 23.95

O.400 in. P110EC 5.075 in. VAM® SPRINT-SF

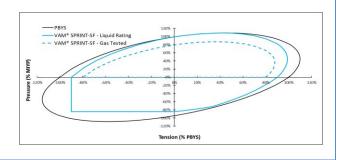
PI PE PROPERTI ES				
Nominal OD	6.000	in.		
Nominal ID	5.200	in.		
Nominal Cross Section Area	7.037	sqin.		
Grade Type	Hig	jh Yield		
Min. Yield Strength	125	ksi		
Max. Yield Strength	140	ksi		
Min. Ultimate Tensile Strength	135	ksi		

CONNECTION PROPERTIES		
Connection Type	Integral	Semi-Flush
Connection OD (nom):	6.277	in.
Connection ID (nom):	5.146	in.
Make-Up Loss	5.386	in.
Critical Cross Section	6.417	sqin.
Tension Efficiency	91.0	% of pipe
Compression Efficiency	91.0	% of pipe
Internal Pressure Efficiency	100	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES			
Tensile Yield Strength	801	klb	
Compression Resistance	801	klb	
Internal Yield Pressure	14,580	psi	
Collapse Resistance	12,500	psi	
Max. Structural Bending	83	°/100ft	
Max. Bending with ISO/API Sealability	30	°/100ft	

TORQUE VALUES		
Min. Make-up torque	21,750	ft.lb
Opt. Make-up torque	24,250	ft.lb
Max. Make-up torque	26,750	ft.lb
Max. Torque with Sealability (MTS)	53,000	ft.lb
Max. Torque with Scalability (W13)	33,000	1 (.

VAM® SPRINT-SF is a semi-flush connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections and tight clearance requirements.



canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com

Do you need help on this product? - Remember no one knows VAM® like VAM®

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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

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^{* 87.5%} RBW





Connection Data Sheet

 OD (in.)
 WEIGHT (lbs./ft.)
 WALL (in.)
 GRADE
 API DRIFT (in.)
 RBW%
 CONNECTION

 6.000
 Nominal: 22.30
 0.360
 VST P110EC
 5.155
 92.5
 DWC/C-IS

 Plain End: 21.70

PIPE PROPERTIES		
Nominal OD	6.000	in.
Nominal ID	5.280	in.
Nominal Area	6.379	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	797	klb
Ultimate Strength	861	klb
Min. Internal Yield Pressure	13,880	psi
Collapse Pressure	9,800	psi

CONNECTION PERFORMANCES			
Yield Strength	797	klb	
Parting Load	861	klb	
Compression Rating	797	klb	
Min. Internal Yield	13,880	psi	
External Pressure	9,800	psi	
Maximum Uniaxial Bend Rating	47.7	°/100 ft	
Reference String Length w 1.4 Design Factor	25,530	ft.	

Need Help? Contact: tech.support@vam-usa.com
Reference Drawing: 8135PP Rev.02 & 8135BP Rev.02

Date: 07/30/2020 Time: 07:50:47 PM

CONNECTION PRO	OPERTIES	
Connection Type	Semi-Pren	nium T&C
Connection OD (nom)	6.650	in.
Connection ID (nom)	5.280	in.
Make-Up Loss	4.313	in.
Coupling Length	9.625	in.
Critical Cross Section	6.379	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

FIELD END TORQUE VALU	JES	
Min. Make-up torque	17,000	ft.lb
Opti. Make-up torque	18,250	ft.lb
Max. Make-up torque	19,500	ft.lb
Min. Shoulder Torque	1,700	ft.lb
Max. Shoulder Torque	13,600	ft.lb
Min. Delta Turn	-	Turns
Max. Delta Turn	0.200	Turns
Maximum Operational Torque	24,200	ft.lb
Maximum Torsional Value (MTV)	26,620	ft.lb

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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DWC Connection Data Sheet Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

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Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

ACKNOWLEDGMENTS

Action 508455

ACKNOWLEDGMENTS

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	508455
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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COMMENTS

Action 508455

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COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Invalid defining well, multiple wells submitted as defining wells for same spacing unit within the same pool. Only 1 well can define any given spacing unit within a pool.	11/24/2025

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
sharrell1	Cement is required to circulate on both surface and intermediate1 strings of casing.	9/23/2025
sharrell1	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/23/2025
jeffrey.harrison	Directional survey reports the first take point is anticipated to occur within the Bone Spring formation. If production is desired to occur outside of the Wolfcamp formation, a second pool must be added via a [C-103] NOI Change of Plans (C-103A) and a DHC must be approved prior to producing the well.	11/24/2025
jeffrey.harrison	Approval is only granted for Casing Design A & Casing Design B.	11/24/2025
jeffrey.harrison	Approval is not granted for EOG Blanket Shallow Casing Designs.	11/24/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/24/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	11/24/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	11/24/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	11/24/2025