Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

Form C-101 August 1, 2011

Permit 390721

2353

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

		ALLIO	AHOHTO	IVI LIZIVII	I IO DIVILL	-, I \L-L	ITILIT, DELI	LIN, I LOOL	AON, ON	ADD A ZO	··		
	ime and Address									2. OGF	RID Number		
EOG RESOURCES INC											7377		
	09 Champions Driv	/e								3. API	Number		
Mic	lland, TX 79706										30-015-56	915	
4. Property Co	de		5. Property N	Name						6. Well	No.		
322	2721		G	OLDEN GR	AHAM 1 STAT	E COM					581H		
					-	7. Surfa	ce Location						
UL - Lot	Section	Township	Rang	e	Lot Idn		Feet From	N/S Line	Feet Fro	m	E/W Line	Count	у
M	1	268		28E		M	285	S	;	1170	W		Eddy
	•	•	·		8. Propo	sed Bo	ttom Hole Locat	tion	*		•	•	
UL - Lot	Section	Township	Ran	ge	Lot Idn		Feet From	N/S Line	Feet Fro	m	E/W Line	Count	У
С	36	25	5S	28E		С	100	1	1	1579	W		Eddy
						9 Pool	Information						
RED BLUFF	;BONE SPRING, S	OUTH				0.1 001	mormation				5101	0	
					Add	itional \	Well Information						
11. Work Type		12. Well Typ	oe .	13	B. Cable/Rotary			14. Lease Type	•	15. Ground L	evel Elevation		
Ne	w Well	Ċ	DIL		State			2937					
16. Multiple		17. Propose	d Depth	18	3. Formation			19. Contractor		20. Spud Dat	te		
N		1	9329		Bone Spring				6/	6/9/2025			
Depth to Ground water					Distance from nearest fresh water well Dista				Distance to n	stance to nearest surface water			
⊠ We will be	using a closed-loo	p system in li	eu of lined p	oits						•			
					21. Propose	d Casir	g and Cement P	Program					
Type	Hole Size	Casin	g Size	С	asing Weight/ft		Setting		Sac	ks of Cement		Estimat	ed TOC
Surf	13	10	.75		40.5		30	0		160		()
Surt Int1	13 9.875		.75 325		40.5 32		280			160 340		(

Casing/Cement Program: Additional Comments
 ·

20

22. Proposed Blowout Prevention Program									
Туре	Working Pressure	Test Pressure	Manufacturer						
Double Ram	5000	3000							

19329

2160

knowledge and be	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATI	ON DIVISION	
Signature:						
Printed Name:	Electronically filed by Kristina Age	ee	Approved By:	Jeffrey Harrison		
Title:	Senior Regulatory Administrator		Title:	Petroleum Specialist III		
Email Address:	Kristina_agee@eogresources.co	om	Approved Date:	6/25/2025	Expiration Date: 6/25/2027	
Date:	6/25/2025	Phone: 432-686-6996	Conditions of Approval Attached			

ceived by O	CD: 6/25/	2025 9	9:12:	10 AM								Page 2 o	
C-102						State of New Mexico				Revised July 9, 2024			
Submit Electroni	cally			Energy	v Mine		iral Resourc	es De	nartment		Initial Submittal		
Via OCD Permit	ting			·			ATION DI			Submittal Type:	Amended Repor	t	
					OIL C	OTIBLICIT	IIIOI V DI	, 151	J1 (Type.	As Drilled		
Property Name and	l Well Number				GOLE	DEN GRAHA	M 1 STATE	СОМ	581H	l.			
			WE	ELL LO	CATIO	ON AND A	CREAGE	DED	ICATION	PLAT			
API Number		Poo	ol Code				Pool Name						
30-015- 5	6915			7323	2			Tgf	'Dnwhh='Dqp	g''Urtkpi.	'Uqwj		
Property Code		Pro	perty Na	ame							Well Number		
	322721				GC	LDEN GRA	HAM 1 STA	TE C	OM		5	81H	
OGRID No.		Ope	erator Na	ame							Ground Level El	evation	
73	377					EOG RES	OURCES, II	NC.			29	937'	
Surface Owner:	State Fee	Tribal	Fede	ral			Mineral Owner	State	Fee Tribal	Federal			
						Surfa	ce Location						
UL or Lot No.	Section	Town	ship	Range	Lot	Feet from the N/S	Feet from the E/W		Latitude	I	ongitude	County	
М	1	26	s	28 E		285 FSL	1170 FWL	N 3	32.065152°	W 10	4.045494°	EDDY	
		1		I	Bottom 1	Hole Locatio	n If Different	From	Surface				
UL or Lot No.	Section	Town	ship	Range	Lot	Feet from the N/S	Feet from the E/W		Latitude	I	ongitude	County	
С	36	25	S	28 E		100 FNL	1579 FWL	N 3	32.093399°	W 10	4.044021°	EDDY	
Dedicated Acres	Infill or Det	fining Wel	l Defin	ing Well API			Overlapping Sp	acing Unit	(Y/N)	Consolidate	d Code		
640	INF	ILL		I	PENDIN	NG		Υ	/		С		
Order Numbers	PEN	DING	CON	/ AGREE	MENT		•		Well Setbacks	are under Commo	n Ownership: Ye	s No	
						Kick Of	f Point (KOF	<u>')</u>	•				

Feet from the N/S Feet from the E/W Latitude UL or lot no. Section Township Range Lot Longitude County Ν 1 26 S 28 E 50 FSL 1579 FWL N 32.064497° W 104.044169° **EDDY** First Take Point (FTP) Feet from the N/S Feet from the E/W Latitude UL or lot no. Section Lot Longitude Township Range County 26 S 28 E 100 FSL N 32.064635° W 104.044170° **EDDY** 1 1579 FWL Ν Last Take Point (LTP)

UL or lot no. Section Township Range Lot Feet from the N/S Feet from the E/W Latitude Longitude County C 36 25 S 28 E 100 FNL 1579 FWL N 32.093399° W 104.044021° EDDY		Last rake rount (LTI)										
C 36 25 S 28 E 100 FNL 1579 FWL N 32.093399° W 104.044021° EDDY	UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County		
	С	36		28 E		100 FNL	1579 FWL	N 32.093399°	W 104.044021°	EDDY		

Unitized Area or Area of Uniform Interest Spacing Unity Type Ground Floor Elevation | Horizontal | Vertical 2962' COM AGREEMENT

OPERATOR CERTIFICATION

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.

2713; 14247

MC[NC'OEEQPPGNN

MC | NCaO EEQP P GNNB GQI TGUQWTEGUEQO

E-mail Address

SURVEYORS CERTIFICATION



Signature and Seal of Professional Surveyor

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

MITCHELL L. MCDONALD, N.M. P.L.S.

Certificate Number 29821 Date of Survey MAY 3, 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.

Revised July 9, 2024

Received by OCD: 6/25/2025 9:12:10 AM C-102 State of New Mexico Energy, Minerals & Natural Resources Department Initial Submittal Submit Electronically Submittal OIL CONSERVATION DIVISION Via OCD Permitting Amended Report Type: As Drilled Property Name and Well Number **GOLDEN GRAHAM 1 STATE COM 581H** SURFACE LOCATION R.28E R.29E **NEW MEXICO EAST** NAD 1983 X = 629352 100' Y = 397921 X=630501' Y=387559' 100 26 25 LAT=N32.065152° 1579 X = 632015'36 31 LONG=W104.045494° Y = 397945' BHL NAD 1927 X=589316' Y=387501' ST NM VB-0807-1 LAT=N32.065028° LONG=W104.045008° 285' FSL 1170' FWL **KOP LOCATION NEW MEXICO EAST**

NAD 1983

X=630912' Y=387322'

LAT=N32.064497°

LONG=W104.044169°

NAD 1927

X=589727' Y=387264'

LAT=N32.064373°

LONG=W104 043683°

50' FSL 1579' FWL

FIRST TAKE POINT

NEW MEXICO EAST

NAD 1983

X=630912' Y=387372'

LAT=N32.064635°

LONG=W104.044170°

NAD 1927

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

Form APD Comments

Permit 390721

PERMIT COMMENTS

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377]	30-015-56915
5509 Champions Drive	Well:
Midland, TX 79706	GOLDEN GRAHAM 1 STATE COM #581H

Created By	Comment	Comment Date
jeffrey.harrison	Out of compliance with Rule 19.15.5.9 Financial Compliance. Resubmit when Rule 19.15.5.9 Compliant.	6/23/2025
	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.	6/25/2025
, ,	Permit Application contains variance requests and multiple design options. In reviewing subsequent submittals for this well, please be sure to review the entire application for information that may be needed for processing and reporting.	6/25/2025

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

Form APD Conditions

Permit 390721

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377]	30-015-56915
5509 Champions Drive	Well:
Midland, TX 79706	GOLDEN GRAHAM 1 STATE COM #581H

OCD Reviewer	Condition
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
	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.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
	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.
jeffrey.harrison	Administrative order required for non-standard spacing unit prior to production.
	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.



EOG Batch Casing

Pad Name: Golden Graham 1 State Com SHALLOW

SHL: Section 1, Township 26-S, Range 28-E, EDDY County, NM

EOG requests for the below wells to be approved for all designs listed in the Blanket Casing Design ('EOG BLM Variance 5a - Alternate Shallow Casing Designs.pdf' OR 'EOG BLM Variance 5b - Alternate Deep Casing Designs.pdf') document. The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions. The directional plans for the wells are attached separately.

Well Name	API#	Sur	face	Intermediate		Production	
wen Name	AFI#	MD	TVD	MD	TVD	MD	TVD
Golden Graham 1 Fed Com #504H	30-025-****	300	300	2,974	2,772	18,730	8,246
Golden Graham 1 Fed Com #582H	30-025-****	300	300	2,878	2,772	19,391	8,990
Golden Graham 1 State Com #501H	30-025-****	300	300	2,897	2,772	18,648	8,246
Golden Graham 1 State Com #502H	30-025-****	300	300	2,779	2,772	18,558	8,246
Golden Graham 1 State Com #503H	30-025-****	300	300	2,948	2,772	18,714	8,246
Golden Graham 1 State Com #581H	30-025-****	300	300	2,803	2,772	19,329	8,990
Golden Graham 1 State Com #591H	30-025-****	300	300	2,820	2,772	19,331	8,990



Variances r



EOG BLANKET CASING DESIGN VARIANCE

EOG respectfully requests the drill plans in the attached document 'EOG BLM Variance 5a - Alternate Shallow Casing Designs' 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	Max Inc	Max DLS							
	MD (ft)	TVD (ft)	(deg)	(°/100usft)						
Surface	2030	2030	0	0						
Intermediate	7793	5650	40	8						
Production	28578	12000	90	25						



Shallow Design A

4. CASING PROGRAM

Hole	Interva	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	2,161	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,951	0	5,650	9-5/8"	40#	J-55	LTC
6-3/4"	0	29,353	0	12,000	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.

		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Sidily Description
2,030' 13-3/8''	570	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
8,050' 9-5/8"	760	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	250	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6360')
29,353 ['] 5-1/2"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	1480	13.2	1.52	Tail: Class C/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 @ Top of Brushy)



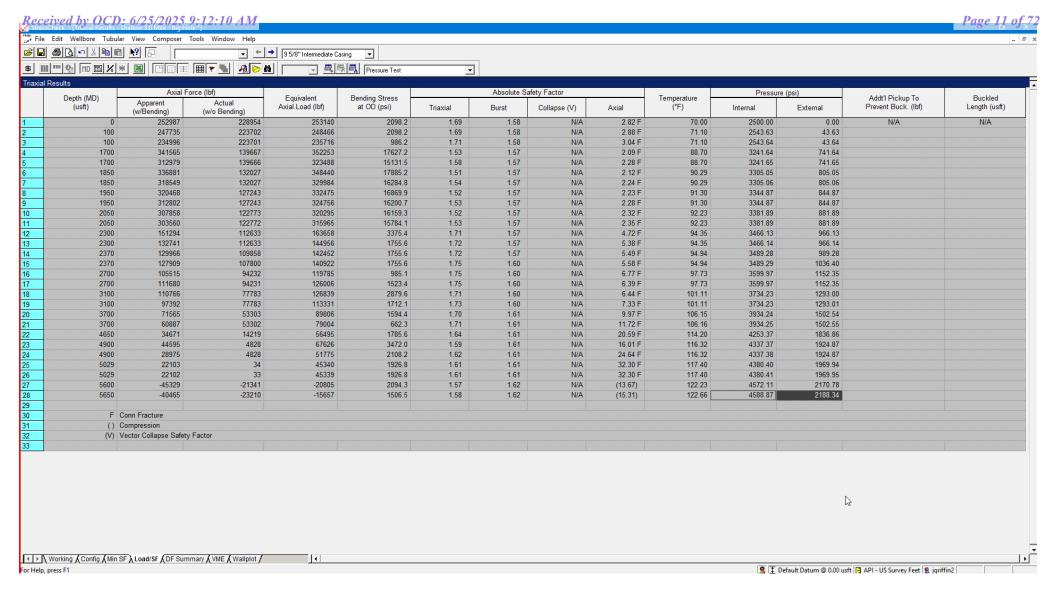
Shallow Design A

Proposed Wellbore

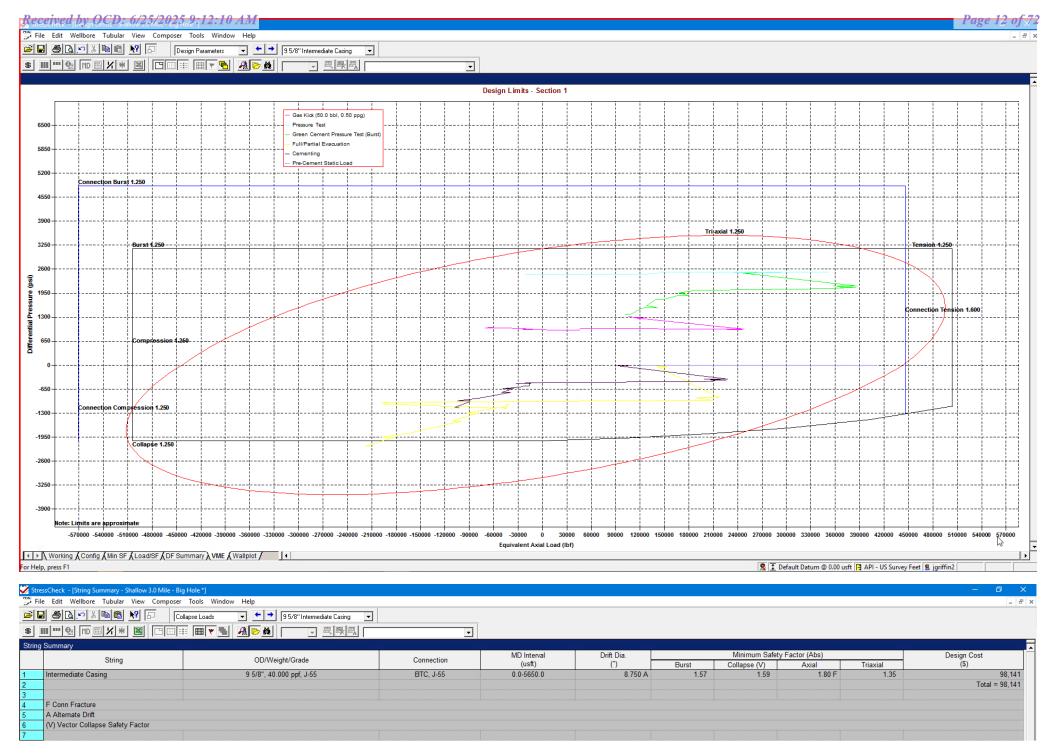
KB: 3558' GL: 3533'

Bit Size: 16'' 13-3/8", 54.5#, J-55, STC @ 0' - 2,030' If production Bradenhead is performed, TOC will be surface TOC: 7,460', if performed conventionally. Bit Size: 11" 9-5/8", 40.#, J-55, LTC @ 0' - 7,960' Lateral: 29,353' MD, 12,000' TVD Bit Size: 6-3/4" 5-1/2", 20.#, P110-EC, DWC/C IS MS @ 0' - 29,353' KOP: 13,378' MD, 11,771' TVD EOC: 13,738' MD, 12,000' TVD

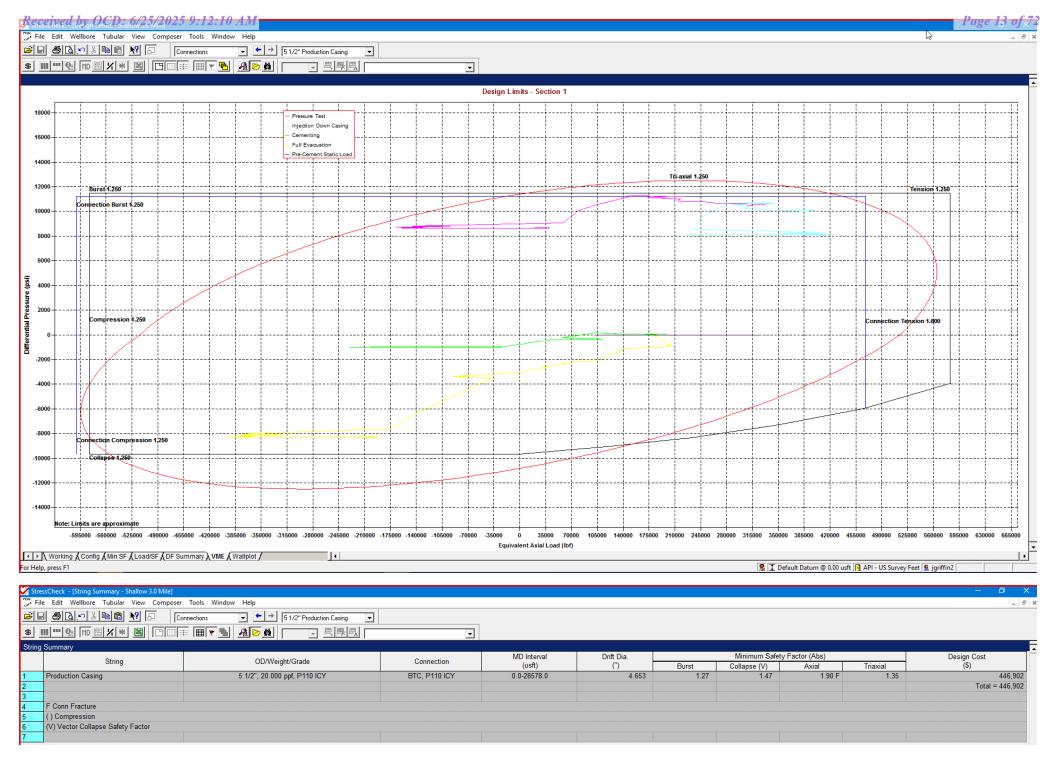
Bit Size: 6-3/4"



Internal Profile based off Surface Pressure + Hydrostatic: 4589 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.

Page 6 of 31



Shallow Design B

4. CASING PROGRAM

Hole	Interva	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13-1/2"	0	2,161	0	2,030	10-3/4"	40.5#	J-55	STC
9-7/8"	0	7,951	0	5,650	8-5/8"	32#	J-55	BTC-SC
6-3/4"	0	29,353	0	12,000	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:

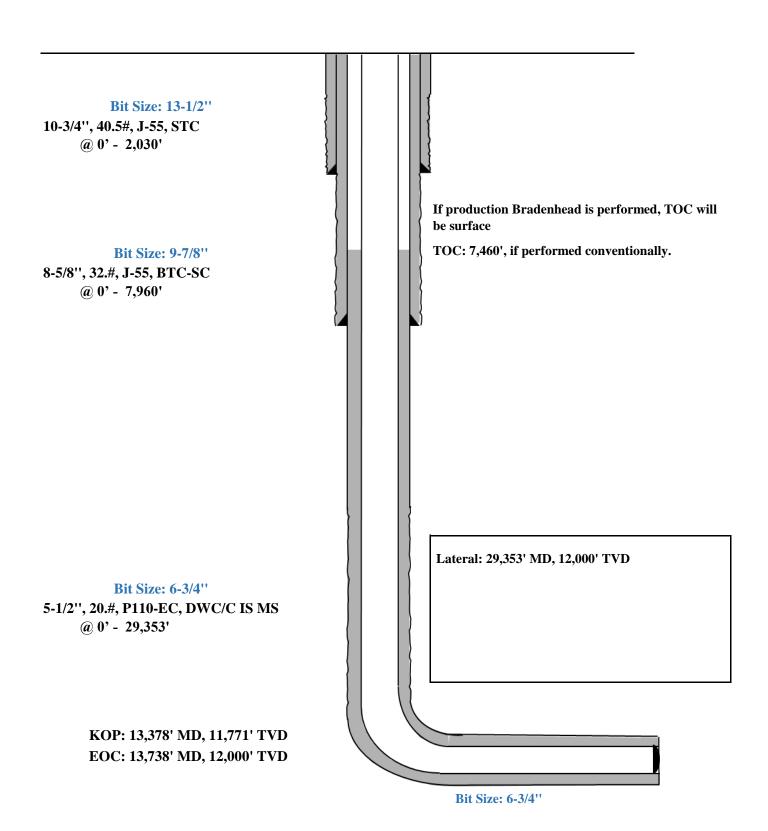
- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues.

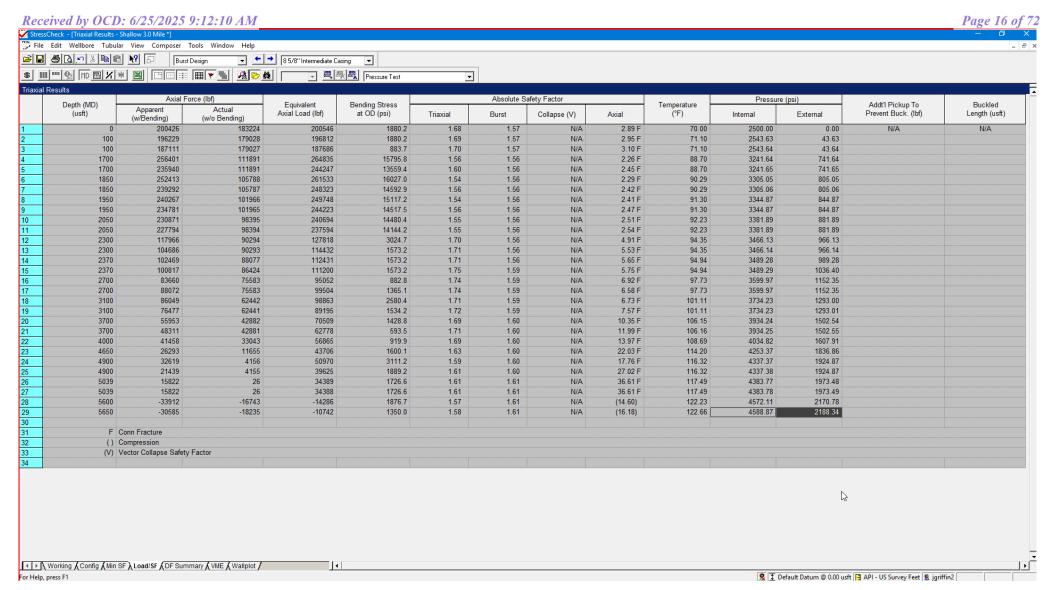
		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Sidify Description
2,030' 10-3/4''	530	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface)
	140	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
8,050' 8-5/8"	470	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	210	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6360')
29,353' 5-1/2"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	1480	13.2	1.52	Tail: Class C/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 @ Top of Brushy)

Shallow Casing Design B

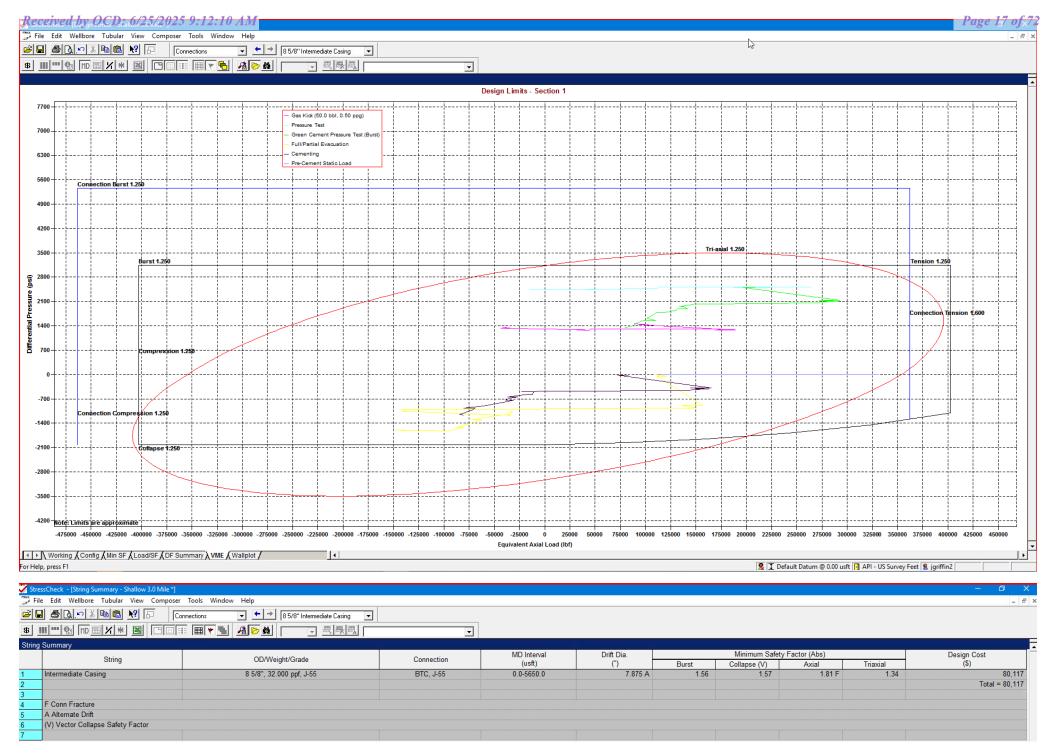
Proposed Wellbore

KB: 3558' GL: 3533'

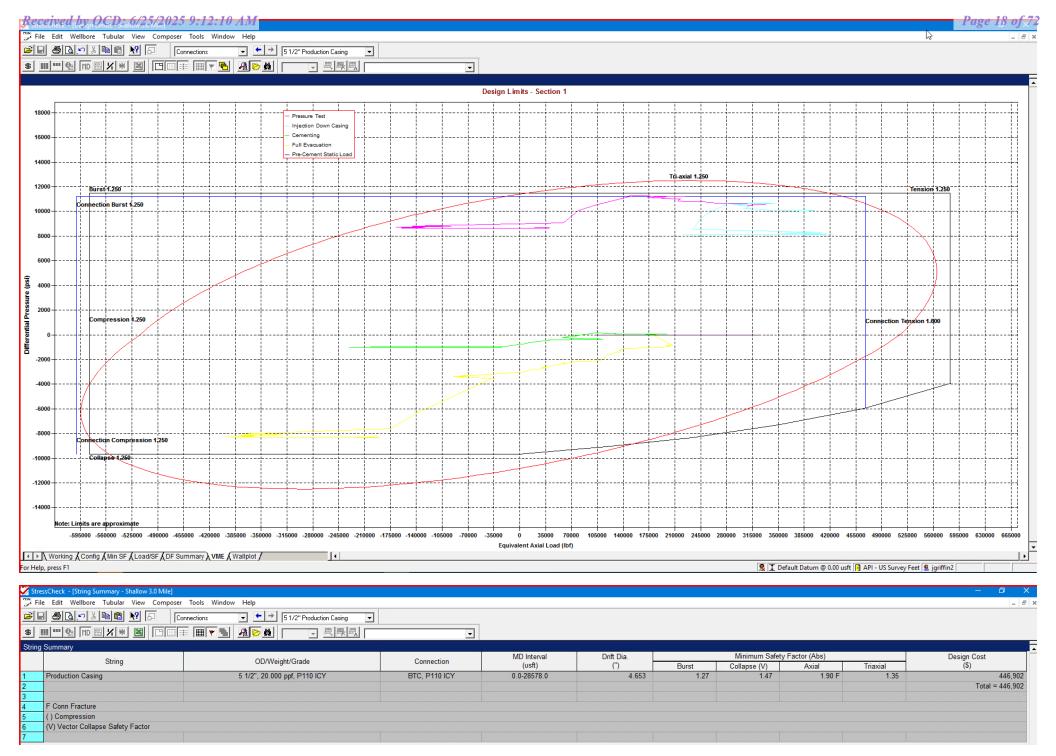




Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi



^{*}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.

Page 11 of 31



Shallow Design C

4. CASING PROGRAM

Hole	Interv	al MD	Interva	ıl TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	2,161	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,951	0	5,650	9-5/8"	40#	J-55	LTC
7-7/8"	0	29,353	0	12,000	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.

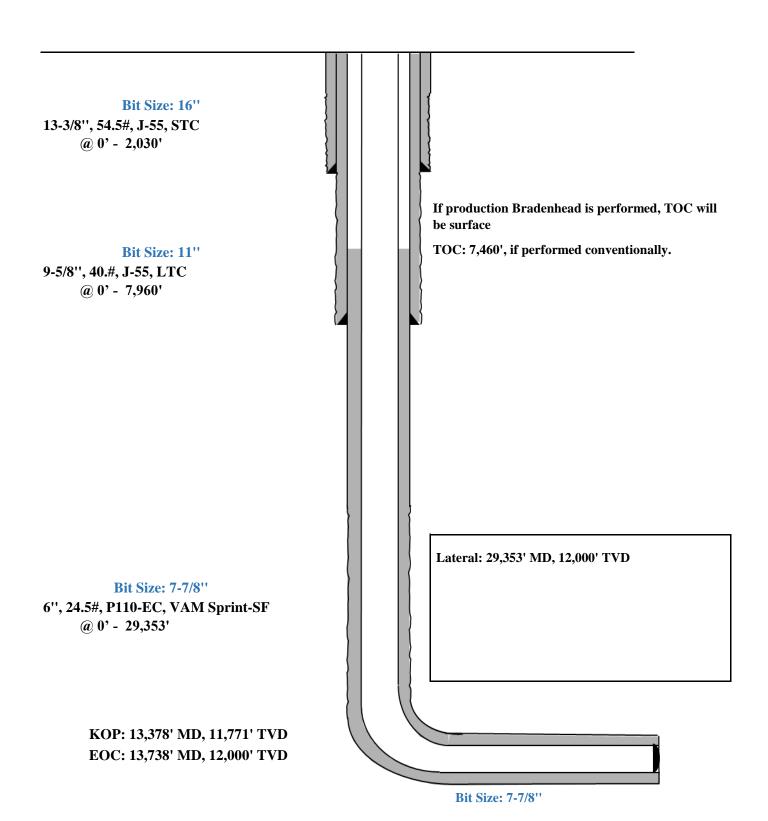
		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Sidify Description
2,030' 13-3/8"	570	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
8,050' 9-5/8"	760	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	250	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6360')
29,353' 6"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	2500	13.2	1.52	Tail: Class C/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 @ Top of Brushy)

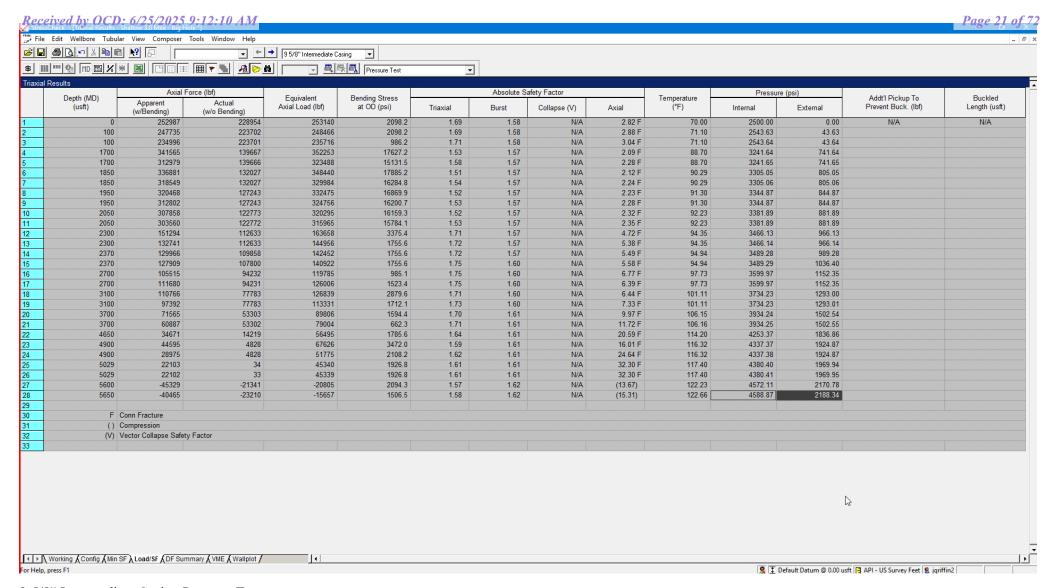


Shallow Design C

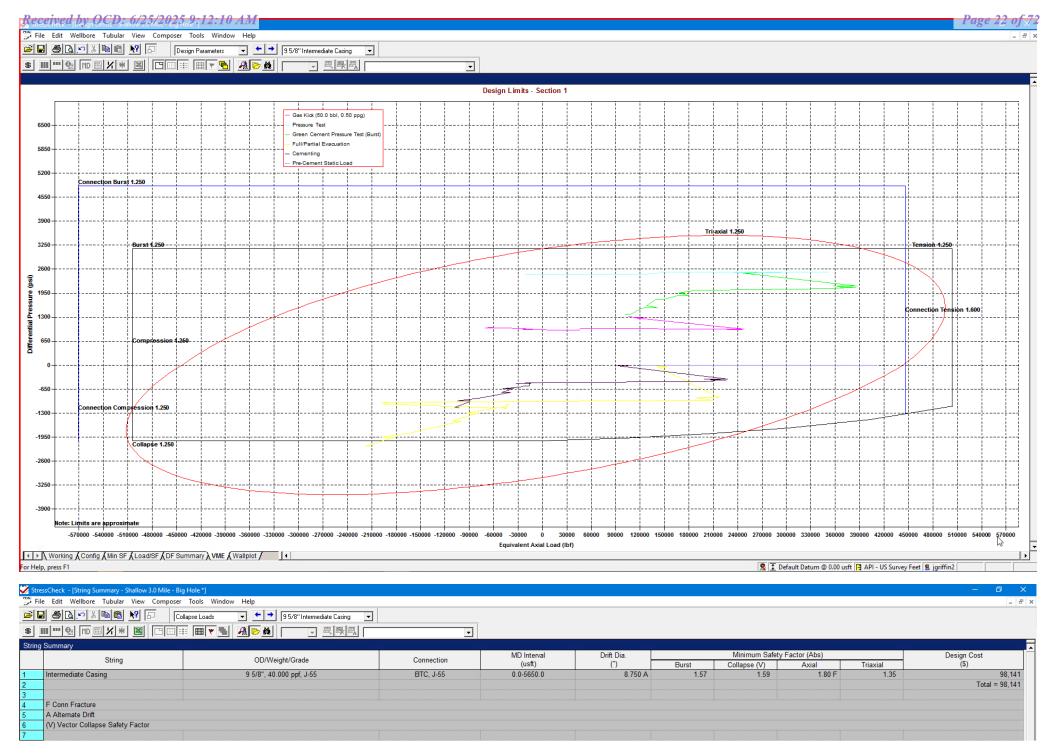
Proposed Wellbore

KB: 3558' GL: 3533'

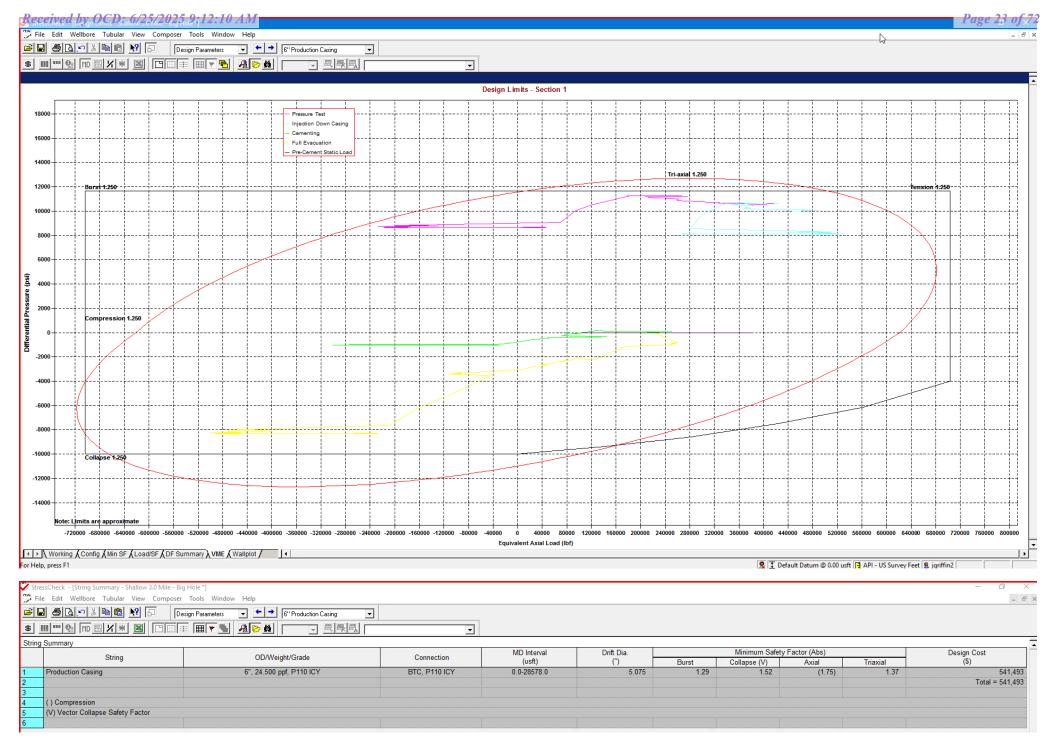




Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi



^{*}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	ıl TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	2,161	0	2,030	13-3/8"	54.5#	J-55	STC
11"	0	7,951	0	5,650	9-5/8"	40#	J-55	LTC
7-7/8"	0	13,278	0	11,671	6"	22.3#	P110-EC	DWC/C IS
6-3/4"	13,278	29,353	11,671	12,000	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.

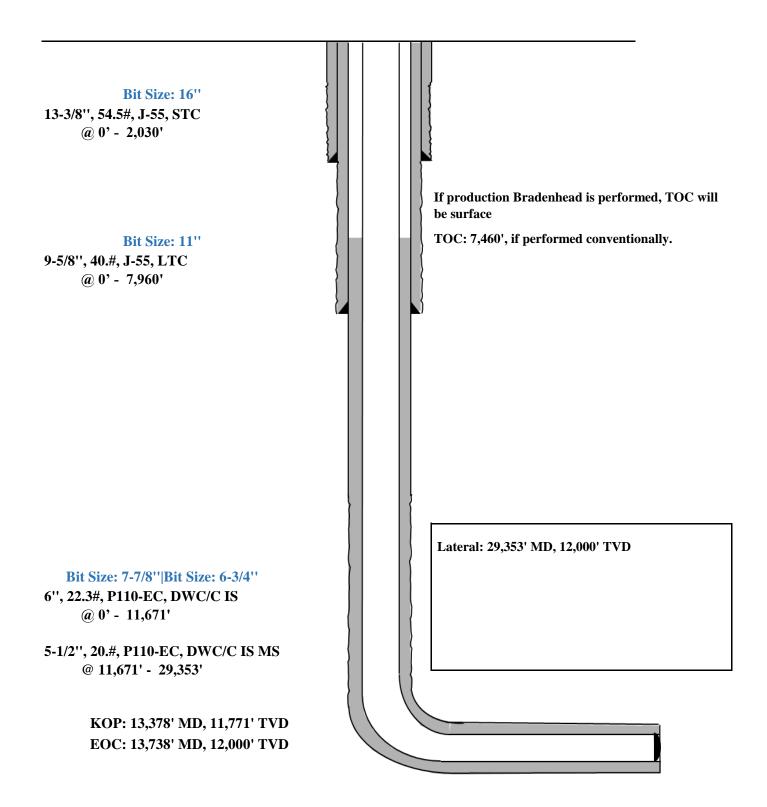
		Wt.	Yld	Slurry Description
Depth	No. Sacks	ppg	Ft3/sk	Sidify Description
2,030' 13-3/8"	570	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1830')
8,050' 9-5/8"	760	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	250	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6360')
29,353' 6"	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
	2500	13.2	1.52	Tail: Class C/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 @ Top of Brushy)

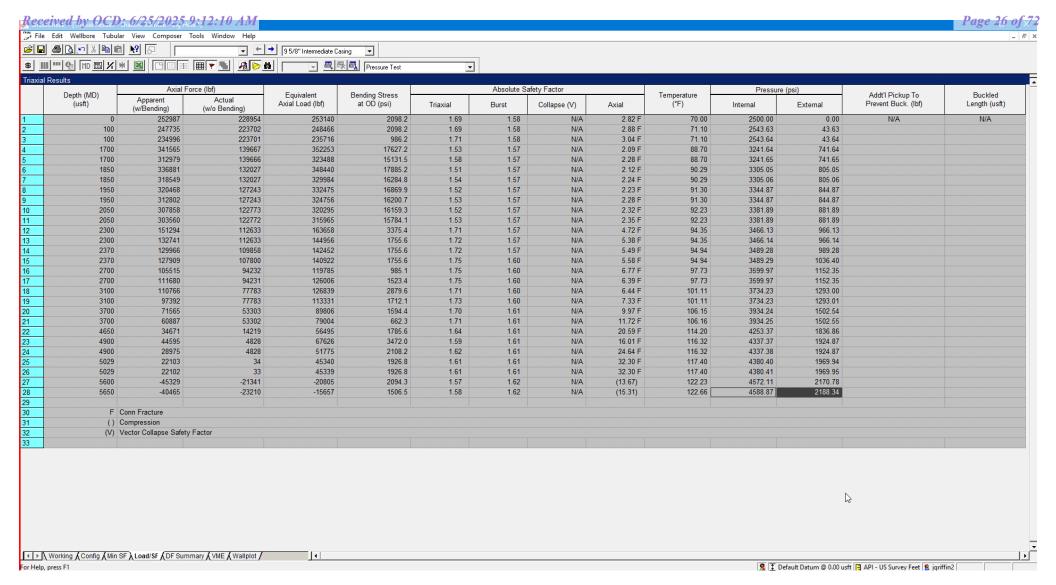


Shallow Design D

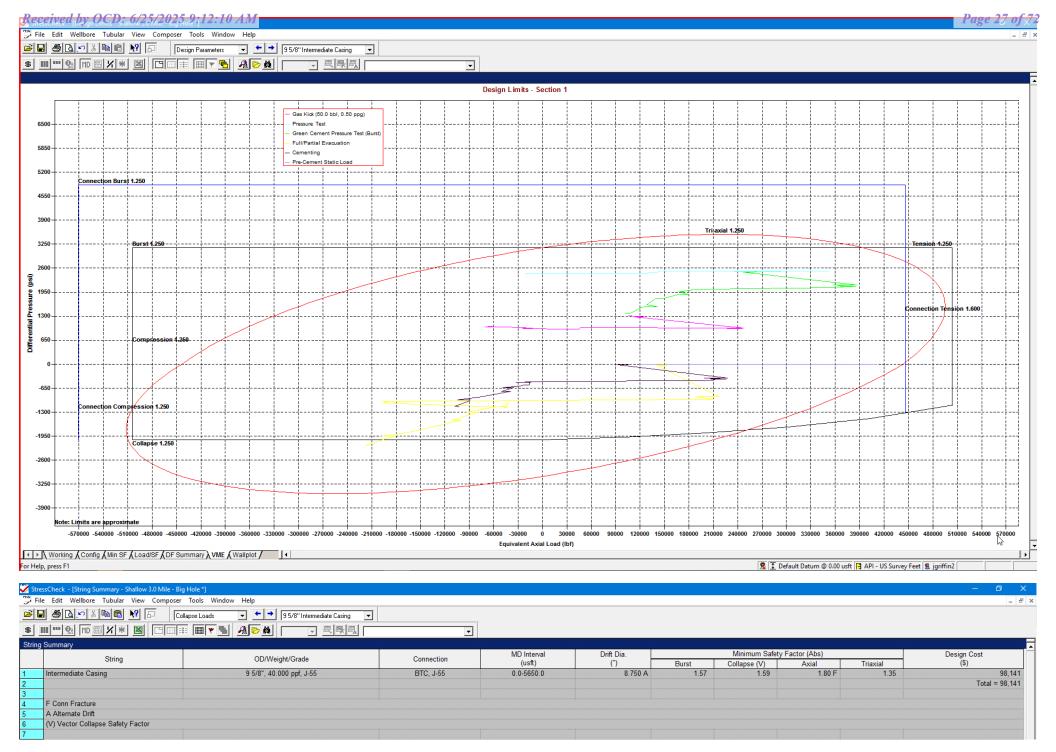
Proposed Wellbore

KB: 3558' GL: 3533'

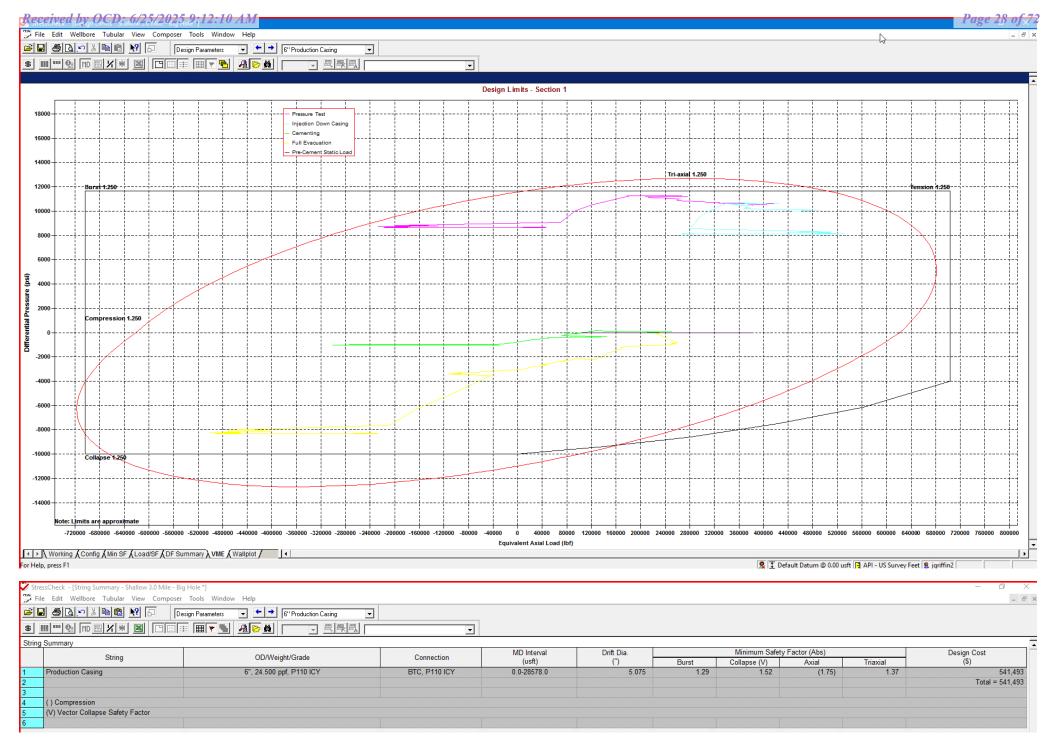




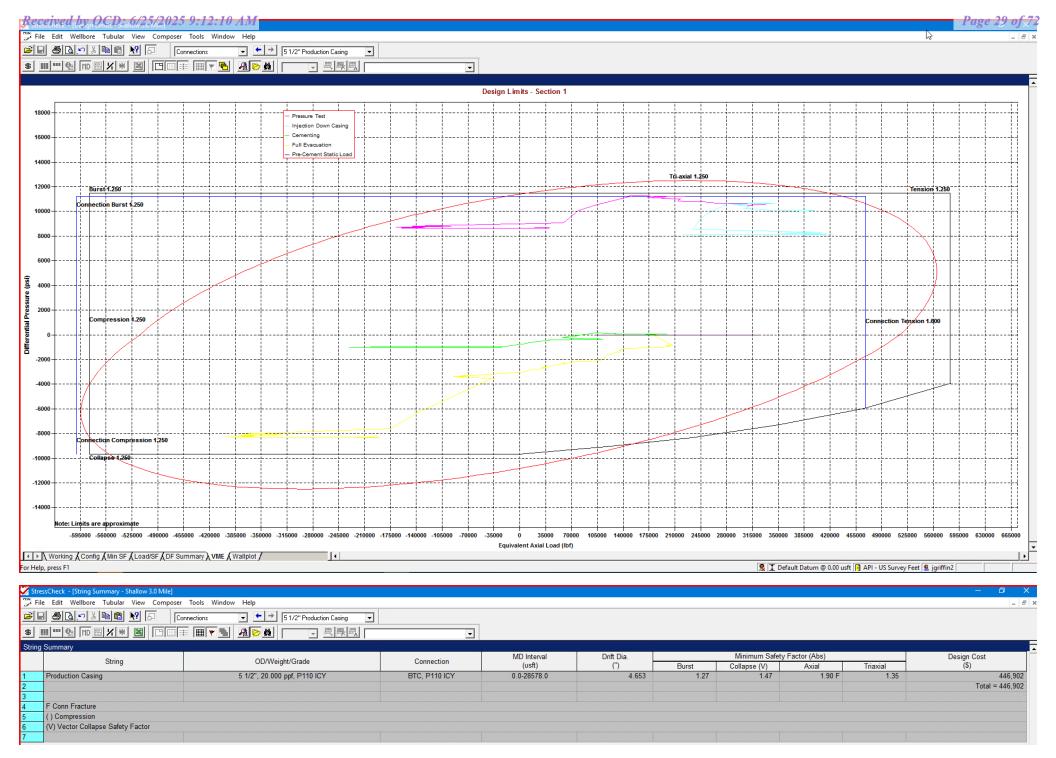
Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi



^{*}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 31



Shallow Casing Design E

1. CASING PROGRAM

Hole	Interv	al MD	Interva	l TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	2,025	0	2,025	10-3/4"	40.5#	J-55	STC
9-7/8"	0	7,793	0	5,645	8-5/8"	32#	J-55	BTC-SC
7-7/8"	0	12,626	0	10,896	6"	24.5#	P110-EC	VAM Sprint-TC
6-3/4"	12,626	28,578	10,896	11,225	5-1/2"	20#	P110-EC	VAM Sprint SF

^{**}For highlighted rows above, variance is requested to run entire string of either 6" or 5-1/2" casing string above due to availablility.

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 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.

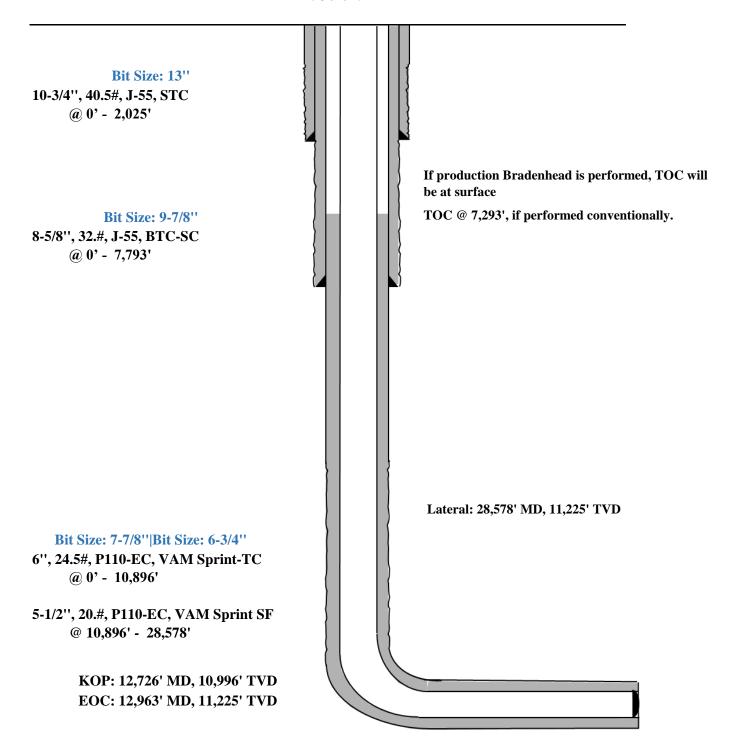
Domáh	No.	Wt.	Yld E42/ala	Slurry Description
Depth	Sacks	ppg	Ft3/sk	I and Class C/II + 4.00/ Portonite C-1 + 0.50/ CoCl2 + 0.25 lb/cl-Colla
2,030'	450	13.5	1.73	Lead: Class C/H + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface)
10-3/4"				, , , , , , , , , , , , , , , , , , ,
	120	14.8	1.34	Tail: Class C/H + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium
				Metasilicate (TOC @ 1830')
7,890'	460	12.7	2.22	Lead: Class C/H + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @
8-5/8"				Surface)
	210	14.8	1.32	Tail: Class C/H + 10% NaCL + 3% MagOx (TOC @ 6234')
28,578'	1000	14.8	1.32	Bradenhead squeeze: Class C/H + 3% Salt + 1% PreMag-M + 6%
6"				Bentonite Gel (TOC @ surface)
	2410	13.2	1.52	Tail: Class C/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 @ 8140')

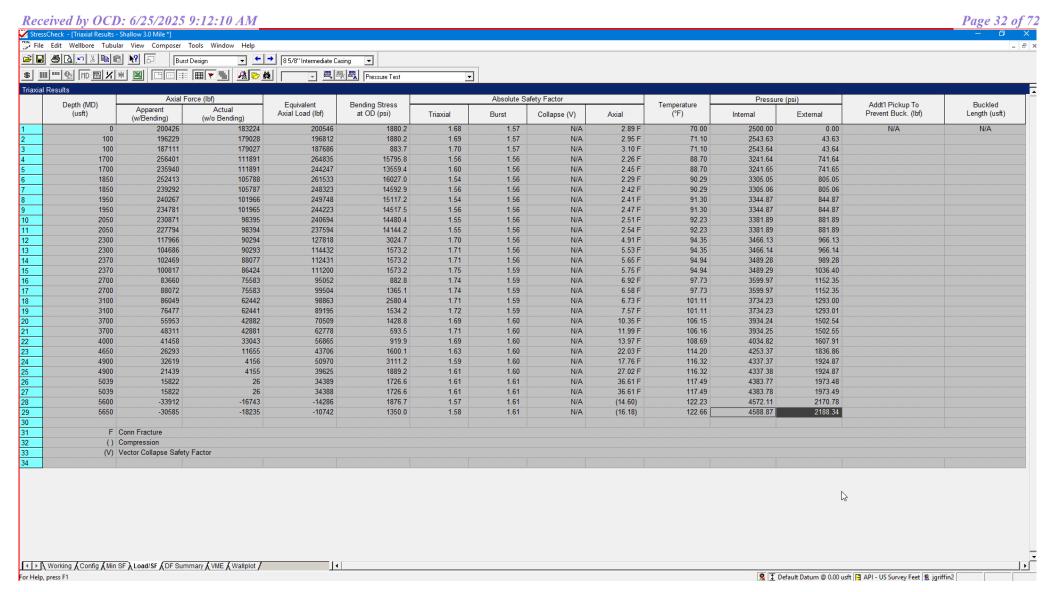
Shallow Casing Design E

Proposed Wellbore

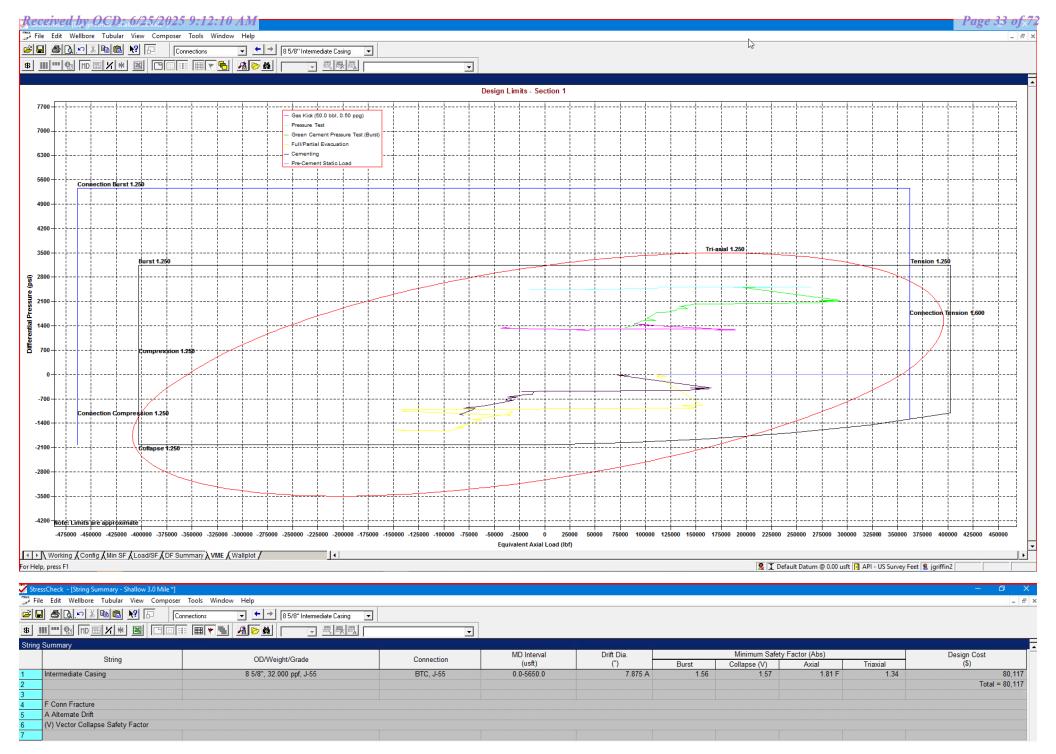
KB: 3558' GL: 3533'

API: 30-025-****

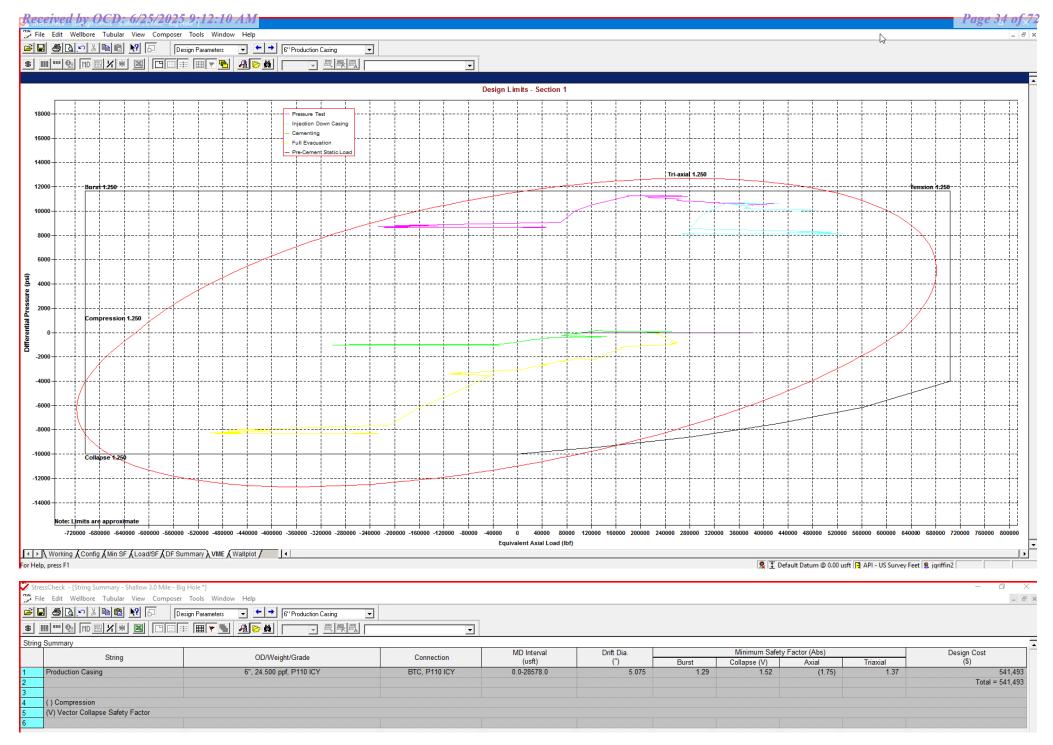




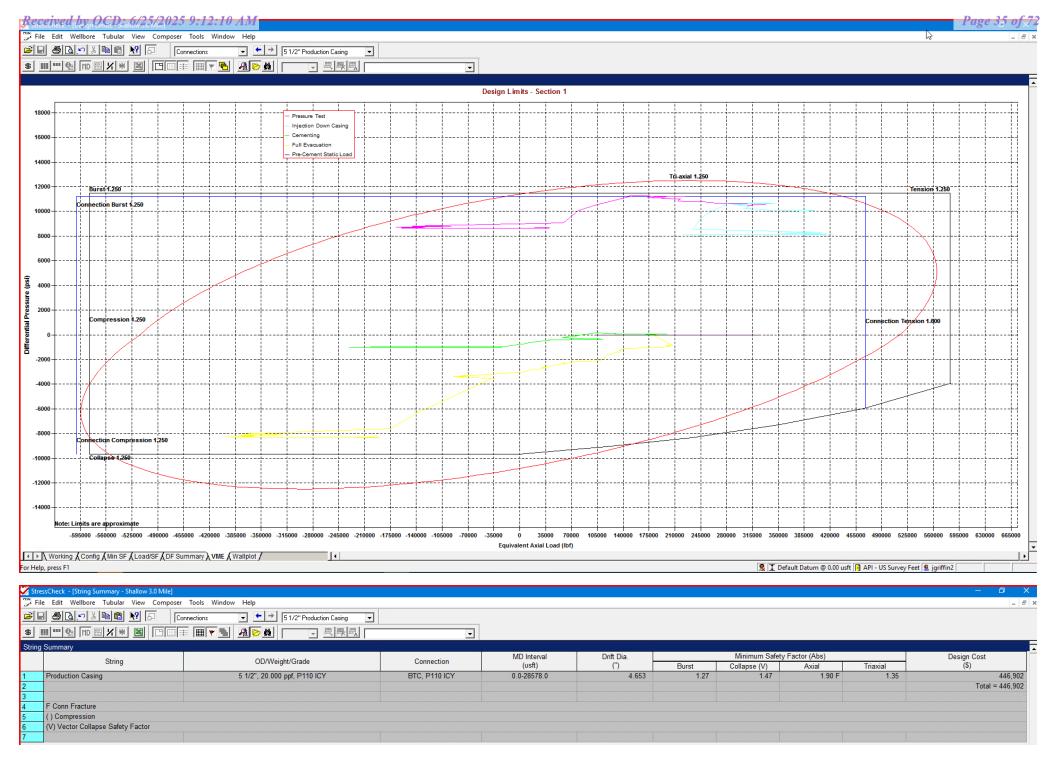
Internal Profile based off Surface Pressure + Hydrostatic: 4589 psi



^{*}Modelling done with 8-5/8" 32# 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.

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Shallow Casing Design 501H

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.

EOG requests variance from minimum standards to pump a two stage cement job on the production casing string with the first stage being pumped conventionally with the calculated top of cement at the top of the Brushy Canyon 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 400 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (1.32 yld, 14.8 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

Bradenhead will be the primary option for production cementing. EOG also requests to have the conventional option in place to accommodate for logistical or wellbore conditions. The tie back requirements will be met if the cement is pumped conventionally, and cement volumes will be adjusted accordingly. TOC will be verified by CBL.



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.



Appendix A - Spec Sheets

New Search » u Back to Previous List USC AMetric 6/8/2015 10:04:37 AM **Mechanical Properties** Pipe BTC LTC STC Minimum Yield Strength 55,000 psi 80,000 Maximum Yield Strength psi 75,000 Minimum Tensile Strength psi Dimensions Pipe BTC LTC STC **Outside Diameter** 13.375 14.375 14.375 in. Wall Thickness 0.380 in. Inside Diameter 12.615 12.615 12.615 in. 12.459 12.459 12.459 Standard Drift in. Alternate Drift in. Nominal Linear Weight, T&C 54.50 lbs/ft --Plain End Weight 52.79 lbs/ft Performance Pipe BTC 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 1000 lbs Joint Strength 909 1000 lbs 514 11,125 6,290 Reference Length ft Make-Up Data BTC Pipe LTC STC 4.81 Make-Up Loss 3.50 in. Minimum Make-Up Torque 3,860 ft-lbs Released to Imaging: 6/25/2025 4:21:37 PM Maximum Make-Up Torque 6,430 ft-lbs

Dimensions

Outside Diameter

Wall Thickness

Inside Diameter

Standard Drift

Maximum Make-Up Torque

« Back to Previous List USC Metric

psi

psi

in.

in.

in.

in.

/8/2015 10:23:27 AM						
Mechanical Properties	Pipe	втс	LTC	STC		
Minimum Yield Strength	55,000	=	-	_	psi	

Pipe

9.625

0.395

8.835

8.679

BTC

10.625

8.835

8.679

LTC

10.625

8.835

8.679

6,500

STC

10.625

8.835

8.679

5,650

Maximum Yield Strength 80,000

Minimum Tensile Strength 75,000

> psi psi 1000 lbs 1000 lbs ft in. ft-lbs ft-lbs

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 BTC Performance Pipe LTC STC Minimum Collapse Pressure 2,570 2,570 2,570 2,570 Minimum Internal Yield Pressure 3,950 3,950 3,950 3.950 Minimum Pipe Body Yield Strength 630.00 Joint Strength 714 520 452 Reference Length 11,898 8,665 7,529 Make-Up Data Pipe BTC LTC STC Make-Up Loss 4.81 4.75 3.38 Minimum Make-Up Torque 3,900 3,390 Released to Imaging: 6/25/2025 4:21:37 PM





Connection Data Sheet

OD (in.) WEIGHT (lbs./ft.) 5.500 Nominal: 20.00 WALL (in.) 0.361 GRADE VST P110EC API DRIFT (in.) 4.653 RBW% 87.5

CONNECTION
DWC/C-IS MS

.500 | Nominal: 20.00 | Plain End: 19.83

PIPE PROF	PERTIES	
Outside Diameter	5.500	in.
Inside Diameter	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield	14,360	psi
Collapse	12.090	nsi

	CONNECTION PROPERTIES					
۱.	Connection Type	Semi-Prem	ium T&C			
۱.	Connection O.D. (nom)	6.115	in.			
۱.	Connection I.D. (nom)	4.778	in.			
	Make-Up Loss	4.125	in.			
si	Coupling Length	9.250	in.			
i	Critical Cross Section	5.828	sq.in.			
si	Tension Efficiency	100.0%	of pipe			
b	Compression Efficiency	100.0%	of pipe			
b	Internal Pressure Efficiency	100.0%	of pipe			
si	External Pressure Efficiency	100.0%	of pipe			
si						

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 VALUES					
י	Min. Make-up torque	16,100	ft.lb			
)	Opti. Make-up torque	17,350	ft.lb			
י	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 2107 CityWest Boulevard Suite 1300 Houston, TX 77042

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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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PDF

10.750 40.50/0.350 J55

New Search »

« Back to Previous List

USC Metric

6/8/2015 10:14:05 AM

Mechanical Properties	Pipe	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	Pipe	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	Ріре	втс	LTC	STC	
Make-Up Loss		4.81	-	3.50	in.
Minimum Make-Up Torque	-	-	-	3,150	ft-lbs
Released to Imaging: 6/25/2025 4:21:37 PM Maximum Make-Up Torque	-	-	-	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				
Performa	nce				
Pipe Body Yield Strength:	503 kips				
Collapse Resistance:	2,530 psi				
Internal Yield Pressure: (API Historical)	3,930 psi				

API Connection Data Coupling OD: 9.625"						
STC Perform	ance					
STC Internal Pressure:	3,930 psi					
STC Joint Strength:	372 kips					
LTC Perform	ance					
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	
	L	TC Tor	que (ft-lb	s)		
Min:	3,130	Opti:	4,174	Max:	5,217	
	_	.TO T.	(6) 11.	- 1		
		31C for	que (ft-lk	os)		
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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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

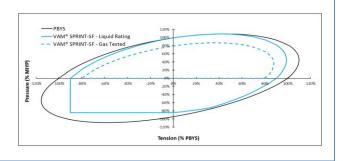
PI PE PROPERTI ES		
Nominal OD	6.000	in.
Nominal ID	5.200	in.
Nominal Cross Section Area	7.037	sqin.
Grade Type	Hig	jh Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

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

CONNECTI ON PERFORMAN	ICES	
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

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®

uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com

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

china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com



^{* 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		
New trad OD		
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 PERFORMAN	NCES	
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	VALUES	
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.

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.



VAM USA

2107 CityWest Boulevard Suite 1300

Houston, TX 77042 Phone: 713-479-3200 Fax: 713-479-3234

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

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 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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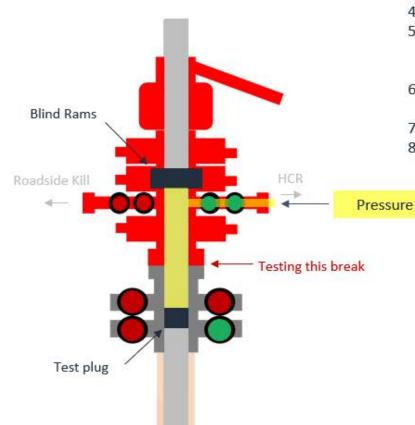


Break-test BOP & Offline Cementing:

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 30 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular **à** during each full BOPE test
 - Upper Pipe Rams **à** On trip ins where FIT required
 - Blind Rams **à** Every trip
 - Lower Pipe Rams à during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the
 casing will be monitored via the valve on the TA cap as per standard batch drilling
 ops.

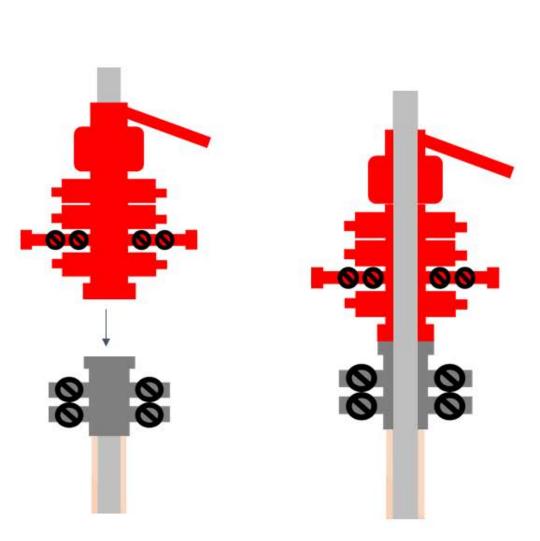
Break Test Diagram (HCR valve)

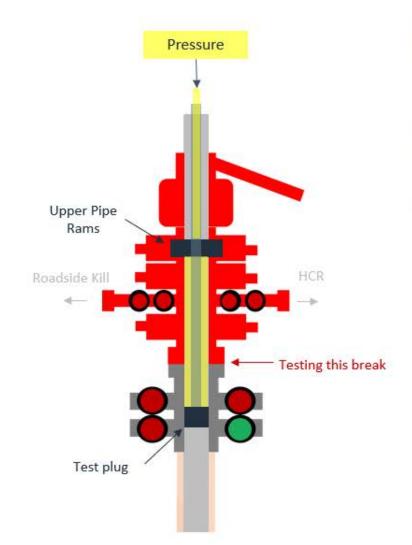


Steps

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

Break Test Diagram (Test Joint)





Steps

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

KB: 2962'

GL: 2937'



Golden Graham 1 State Com #581H EDDY County, New Mexico Proposed Wellbore

285' FSL 1170' FWL Section 1

T-26-S, R-28-E

API: 30-025-****

Bit Size: 13" 10-3/4", 40.5#, J-55, STC @ 0' - 300' MD @ 0' - 300' TVD If production Bradenhead is performed, **TOC** will be at surface TOC @ 2,353', if performed conventionally. Bit Size: 9-7/8" 8-5/8", 32.#, J-55, BTC-SC @ 0' - 2,803' MD @ 0' - 2,772' TVD Bit Size: 7-7/8"|Bit Size: 6-3/4" 6", 24.5#, P110-EC, VAM Sprint-TC @ 0' - 8,442' MD @ 0' - 8,413' TVD 5-1/2", 20.#, P110-EC, VAM Sprint SF @ 8,442' - 19,329' MD @ 8,413' - 8,990' TVD Lateral: 19,329' MD, 8,990' TVD BH Location: 100' FNL & 1579' FWL Sec. 36 T-25-S R-28-E KOP: 8,542' MD, 8,513' TVD EOC: 9,292' MD, 8,990' TVD



Permit Information:

Well Name: Golden Graham 1 State Com 581H

Location: SHL: 285' FSL & 1170' FWL, Section 1, T-26-S, R-28-E, EDDY Co., N.M.

BHL: 100' FNL & 1579' FWL, Section 36, T-25-S, R-28-E, EDDY Co., N.M.

Casing Program:

Hole	Interv	al MD	Interva	l TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13"	0	300	0	300	10-3/4"	40.5#	J-55	STC
9-7/8"	0	2,803	0	2,772	8-5/8"	32#	J-55	BTC-SC
7-7/8"	0	8,442	0	8,413	6"	24.5#	P110-EC	VAM Sprint-TC
6-3/4"	8,442	19,329	8,413	8,990	5-1/2"	20#	P110-EC	VAM Sprint SF

^{**}For highlighted rows above, variance is requested to run entire string of either or casing string above due to availablility.

Cement Program:

Depth	No.	Wt.	Yld	Slurry Description
MD	Sacks	ppg	Ft3/sk	Starry Description
300'	120	13.5	1.73	Class C/H + additives (TOC @ Surface)
300	40	14.8	1.34	Class C/H + additives
2,803'	240	12.7	1.11	Tail: Class C/H + additives + expansion additives (TOC @ 2000')
2,003	100	14.8	1.5	Lead: Class C/H + additives (TOC @ Surface)
19,329'	1280	13.2	1.52	Tail: Class C/H + additives (TOC @ 8,542')
	880	10.5	3.21	Lead: Class C/H + additives (TOC @ 2,353')

Mud Program:

Section	Depth	Type	Weight (ppg)	Viscosity	Water Loss
Surface	0 - 300'	Fresh - Gel	8.6-9.2	28-34	N/c
Intermediate	300' – 2,330'	Brine	9.0-10.5	28-34	N/c
Production	2,330' – 19,329' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6



TUBING REQUIREMENTS:

EOG respectively requests an exception to the following NMOCD rule:

19.15.16.10 Casing AND TUBING REQUIREMENTS:
 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.



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.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 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 systems.
 - 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.



■ 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.



Golden Graham 1 State Com #581H Emergency Assistance Telephone List

PUBLIC SAFETY:	e receptione dist	911 or
Lea County Sheriff's Department		(575) 396-3611
Rod Coffman		
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
New Mexico Oil Conservation		(575) 476-3440
NMOCD Inspection Group - South		(575) 626-0830
U.S. Dept. of Labor		(575) 887-1174
EOG Resources, Inc.		
EOG / Midland	Office	(432) 686-3600
Company Drilling Consultants:		
David Dominque	Cell	(985) 518-5839
Mike Vann	Cell	(817) 980-5507
Drilling Engineer		
Stephen Davis	Cell	(432) 235-9789
Matt Day	Cell	(432) 296-4456
Drilling Manager		, ,
Branden Keener	Office	(432) 686-3752
	Cell	(210) 294-3729
Drilling Superintendent		` ,
Steve Kelly	Office	(432) 686-3706
•	Cell	(210) 416-7894
H&P Drilling		
H&P Drilling	Office	(432) 563-5757
H&P 651 Drilling Rig	Rig	(903) 509-7131
		,
Tool Pusher:		
Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		
Safety:		
Brian Chandler (HSE Manager)	Office	(432) 686-3695
	Cell	(817) 239-0251



GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Castile	981'
Base of Salt	2,227'
Lamar	2,722'
Bell Canyon	2,743'
Cherry Canyon	3,595'
Brushy Canyon	5,185'
Bone Spring Lime	6,429'
Leonard (Avalon) Shale	6,509'
1st Bone Spring Sand	7,342'
2nd Bone Spring Shale	7,578'
2nd Bone Spring Sand	8,033'
3rd Bone Spring Carb	8,534'
3rd Bone Spring Sand	9,125'
TD	8,990'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0 - 50' Fresh Water
Lamar	2,722' Oil
Cherry Canyon	3,595' Oil
Brushy Canyon	5,185' Oil
Bone Spring Lime	6,429' Oil
Leonard (Avalon) Shale	6,509' Oil
1st Bone Spring Sand	7,342' Oil
2nd Bone Spring Shale	7,578' Oil
2nd Bone Spring Sand	8,033' Oil



Midland

Eddy County, NM (NAD 83 NME) Golden Graham 1 State Com #581H

OH

Plan: Plan #0.1 RT

Standard Planning Report

15 May, 2025

2,937.0 usft



Planning Report

PEDMB Database: Company: Midland

Project: Eddy County, NM (NAD 83 NME) Site: Golden Graham 1 State Com

Well: #581H Wellbore: OH Plan #0.1 RT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #581H

kb = 26' @ 2963.0usft kb = 26' @ 2963.0usft

Grid

Minimum Curvature

Project Eddy County, NM (NAD 83 NME)

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

System Datum:

Mean Sea Level

Ground Level:

Golden Graham 1 State Com Site

Northing: 387,494.00 usft Site Position: Latitude: 32° 3' 53.919 N From: Мар Easting: 630,031.00 usft Longitude: 104° 2' 49.246 W

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

0.0 usft

Well #581H **Well Position** +N/-S 0.0 usft Northing: 387,559.00 usft Latitude: 32° 3' 54.549 N 630,501.00 usft +E/-W 0.0 usft Easting: Longitude: 104° 2' 43.782 W

usft

Remarks

0.15° **Grid Convergence:**

Depth To

Position Uncertainty

Plan Survey Tool Program

Depth From

ОН Wellbore Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 46,897.29922846 IGRF2025 5/15/2025 6.46 59.55

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) (°) 0.0 0.0 0.0 2.39

Wellhead Elevation:

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

Date 5/15/2025

19,329.0 Plan #0.1 RT (OH) EOG MWD+IFR1 0.0

MWD + IFR1



PEDMB Database: Company: Midland

Project: Eddy County, NM (NAD 83 NME) Golden Graham 1 State Com Site:

Well: #581H Wellbore: ОН

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

kb = 26' @ 2963.0usft kb = 26' @ 2963.0usft

Grid

Well #581H

lan 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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,173.8	7.48	119.97	1,172.7	-12.2	21.1	2.00	2.00	0.00	119.97	
4,446.2	7.48	119.97	4,417.3	-224.8	389.9	0.00	0.00	0.00	0.00	
4,819.9	0.00	0.00	4,790.0	-237.0	411.0	2.00	-2.00	0.00	180.00	
8,542.4	0.00	0.00	8,512.5	-237.0	411.0	0.00	0.00	0.00	0.00	KOP(Golden Graham
8,762.9	26.46	0.00	8,725.2	-187.0	411.0	12.00	12.00	0.00	0.00	FTP(Golden Graham
9,292.4	90.00	0.10	8,989.9	240.5	411.5	12.00	12.00	0.02	0.11	
14,074.0	90.00	0.10	8,990.0	5,022.0	420.0	0.00	0.00	0.00	0.00	Fed Perf 1(Golden G
16,741.0	90.00	0.11	8,990.0	7,689.0	425.0	0.00	0.00	0.00	83.22	Fed Perf 2(Golden G
19,329.0	90.00	0.06	8,990.0	10,277.0	429.0	0.00	0.00	0.00	-91.61	PBHL(Golden Graha



Database: PEDMB Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 State Com

 Well:
 #581H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #581H

kb = 26' @ 2963.0usft kb = 26' @ 2963.0usft

Grid

esign:	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	2.00	119.97	900.0	-0.9	1.5	-0.8	2.00	2.00	0.00
300.0		113.37				-0.0			
1,000.0	4.00	119.97	999.8	-3.5	6.0	-3.2	2.00	2.00	0.00
1,100.0	6.00	119.97	1,099.5	-7.8	13.6	-7.3	2.00	2.00	0.00
1,173.8	7.48	119.97	1,172.7	-12.2	21.1	-11.3	2.00	2.00	0.00
1,200.0	7.48	119.97	1,198.7	-13.9	24.0	-12.9	0.00	0.00	0.00
1,300.0	7.48	119.97	1,297.9	-20.4	35.3	-18.9	0.00	0.00	0.00
1,400.0	7.48	119.97	1,397.0	-26.9	46.6	-24.9	0.00	0.00	0.00
1,500.0	7.48	119.97	1,496.2	-33.4	57.9	-30.9	0.00	0.00	0.00
1,600.0	7.48	119.97	1,595.3	-39.9	69.1	-36.9	0.00	0.00	0.00
1,700.0	7.48	119.97	1,694.5	-46.4	80.4	-43.0	0.00	0.00	0.00
1,800.0	7.48	119.97	1,793.6	-52.9	91.7	-49.0	0.00	0.00	0.00
1 000 0	7 10	110.07	1 000 0	-59.4	102.0	-55.0	0.00	0.00	0.00
1,900.0	7.48	119.97	1,892.8		102.9				
2,000.0	7.48	119.97	1,991.9	-65.9	114.2	-61.0	0.00	0.00	0.00
2,100.0	7.48	119.97	2,091.1	-72.4	125.5	-67.1	0.00	0.00	0.00
2,200.0	7.48	119.97	2,190.2	-78.9	136.8	-73.1	0.00	0.00	0.00
2,300.0	7.48	119.97	2,289.4	-85.4	148.0	-79.1	0.00	0.00	0.00
2,400.0	7.48	119.97	2,388.5	-91.9	159.3	-85.1	0.00	0.00	0.00
2,500.0	7.48	119.97	2,487.7	-98.4	170.6	-91.2	0.00	0.00	0.00
2,600.0	7.48	119.97	2,586.8	-104.9	181.8	-97.2	0.00	0.00	0.00
2,700.0	7.48	119.97	2,686.0	-111.4	193.1	-103.2	0.00	0.00	0.00
2,800.0	7.48	119.97	2,785.1	-117.9	204.4	-109.2	0.00	0.00	0.00
2,900.0	7.48	119.97	2,884.3	-124.4	215.6	-115.2	0.00	0.00	0.00
3,000.0	7.48	119.97	2,983.4	-130.9	226.9	-121.3	0.00	0.00	0.00
	7.48 7.48	119.97	3,082.6		238.2	-121.3			
3,100.0				-137.3			0.00	0.00	0.00
3,200.0	7.48	119.97	3,181.7	-143.8	249.5	-133.3	0.00	0.00	0.00
3,300.0	7.48	119.97	3,280.9	-150.3	260.7	-139.3	0.00	0.00	0.00
3,400.0	7.48	119.97	3,380.0	-156.8	272.0	-145.4	0.00	0.00	0.00
3,500.0	7.48	119.97	3,479.2	-163.3	283.3	-151.4	0.00	0.00	0.00
3,600.0	7.48	119.97	3,578.3	-169.8	294.5	-157.4	0.00	0.00	0.00
3,700.0	7.48	119.97	3.677.5	-176.3	305.8	-163.4	0.00	0.00	0.00
3,800.0	7.48	119.97	3,776.6	-170.3	317.1	-169.5	0.00	0.00	0.00
3,900.0	7.48	119.97	3,875.8	-189.3	328.4	-175.5	0.00	0.00	0.00
4,000.0	7.48	119.97	3,974.9	-195.8	339.6	-181.5	0.00	0.00	0.00
4,100.0	7.48	119.97	4,074.1	-202.3	350.9	-187.5	0.00	0.00	0.00
4,200.0	7.48	119.97	4,173.2	-208.8	362.2	-193.6	0.00	0.00	0.00
4,300.0	7.48	119.97	4,272.4	-215.3	373.4	-199.6	0.00	0.00	0.00
4,400.0	7.48	119.97	4,371.5	-221.8	384.7	-205.6	0.00	0.00	0.00
4,446.2	7.48	119.97	4,417.3	-224.8	389.9	-208.4	0.00	0.00	0.00
4,500.0	6.40	119.97	4,470.7	-228.1	395.5	-211.4	2.00	-2.00	0.00
4,600.0	4.40	119.97	4,570.3	-232.8	403.7	-215.7	2.00	-2.00	0.00
4,700.0	2.40	119.97	4,670.1	-235.7	408.8	-218.5	2.00	-2.00	0.00
4,800.0	0.40	119.97	4,770.1	-237.0	410.9	-219.6	2.00	-2.00	0.00
		0.00							
4,819.9	0.00		4,790.0	-237.0	411.0	-219.7	2.00	-2.00	0.00
4,900.0	0.00	0.00	4,870.1	-237.0	411.0	-219.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,970.1	-237.0	411.0	-219.7	0.00	0.00	0.00



Database: PEDMB Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 State Com

 Well:
 #581H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #581H

kb = 26' @ 2963.0usft kb = 26' @ 2963.0usft

Grid

isign:	Flall #0.1 K1								
anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	0.00	0.00	5,070.1	-237.0	411.0	-219.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,170.1	-237.0	411.0	-219.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,270.1	-237.0	411.0	-219.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,370.1	-237.0	411.0	-219.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,470.1	-237.0	411.0	-219.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,570.1	-237.0	411.0	-219.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,670.1	-237.0	411.0	-219.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,770.1	-237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,870.1	-237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,970.1	-237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,070.1	-237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
0,100.0	0.00		0,070.1						
6,200.0	0.00	0.00	6,170.1	-237.0	411.0	-219.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,270.1	-237.0	411.0	-219.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,370.1	-237.0	411.0	-219.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,470.1	-237.0	411.0	-219.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,570.1	-237.0	411.0	-219.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,670.1	-237.0	411.0	-219.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,770.1	-237.0 -237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,870.1	-237.0 -237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,970.1	-237.0 -237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
7,000.0	0.00	0.00	7,070.1	-237.0 -237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,170.1	-237.0	411.0	-219.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,270.1	-237.0	411.0	-219.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,370.1	-237.0	411.0	-219.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,470.1	-237.0	411.0	-219.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,570.1	-237.0	411.0	-219.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,670.1	-237.0	411.0	-219.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,770.1	-237.0	411.0	-219.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,870.1	-237.0	411.0	-219.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,970.1	-237.0	411.0	-219.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,070.1	-237.0	411.0	-219.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,170.1	-237.0	411.0	-219.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,270.1	-237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,370.1	-237.0	411.0	-219.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,470.1	-237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
8,542.4	0.00	0.00	8,512.5	-237.0	411.0	-219.7 -219.7	0.00	0.00	0.00
,			,						
8,550.0	0.91	0.00	8,520.1	-236.9	411.0	-219.6	12.00	12.00	0.00
8,575.0	3.91	0.00	8,545.0	-235.9	411.0	-218.5	12.00	12.00	0.00
8,600.0	6.91	0.00	8,569.9	-233.5	411.0	-216.2	12.00	12.00	0.00
8,625.0	9.91	0.00	8,594.7	-229.9	411.0	-212.5	12.00	12.00	0.00
8,650.0	12.91	0.00	8,619.2	-224.9	411.0	-207.6	12.00	12.00	0.00
8,675.0	15.91	0.00	8,643.4	-218.7	411.0	-201.4	12.00	12.00	0.00
8,700.0	18.91	0.00	8,667.2	-211.2	411.0	-193.9	12.00	12.00	0.00
8,725.0	21.91	0.00	8,690.7	-202.5	411.0	-185.2	12.00	12.00	0.00
8,750.0	24.91	0.00	8,713.6	-192.6	411.0	-175.3	12.00	12.00	0.00
8,762.9	26.46	0.00	8,725.2	-187.0	411.0	-169.7	12.00	12.00	0.00
8,775.0	27.91	0.01	8,736.0	-181.5	411.0	-164.2	12.00	12.00	0.05
8,800.0	30.91	0.02	8,757.8	-169.2	411.0	-151.9	12.00	12.00	0.04
8,825.0	33.91	0.03	8,778.9	-155.8	411.0	-138.5	12.00	12.00	0.04
8,850.0	36.91	0.03	8,799.2	-141.3	411.0	-124.0	12.00	12.00	0.03
8,875.0	39.91	0.04	8,818.8	-125.8	411.0	-108.5	12.00	12.00	0.03
8,900.0	42.91	0.05	8,837.6	-109.2	411.0	-92.0	12.00	12.00	0.02
8,925.0	45.91	0.05	8,855.4	-91.7	411.1	-74.5	12.00	12.00	0.02
8,950.0	48.91	0.06	8,872.3	-73.3	411.1	-56.1	12.00	12.00	0.02



Database: PEDMB Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 State Com

 Well:
 #581H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #581H

kb = 26' @ 2963.0usft kb = 26' @ 2963.0usft

Grid

Measured	Design:	Plan #0.1 RT								
Measured Depth Inclination Lazimuth Depth Userth Usert	Planned Survey									
9,000.0	Measured Depth			Depth			Section	Rate	Rate	Rate
9.025.0	8,975.0	51.91	0.06	8,888.3	-54.1	411.1	-36.9	12.00	12.00	0.02
9,050.0 60.91 0.07 8,262.7 8.3 411.2 25.5 12.00 12.00 0.01 9,075.0 63.91 0.08 8,941.3 30.5 411.2 47.6 12.00 12.00 0.01 9,125.0 69.91 0.08 8,945.7 53.2 411.2 70.3 12.00 12.00 0.01 9,125.0 69.91 0.08 8,960.9 76.5 411.3 30.5 12.00 12.00 0.01 9,125.0 69.91 0.08 8,960.9 76.5 411.3 19.5 12.00 12.00 0.01 9,125.0 69.91 0.08 8,960.9 10.0 2 411.3 117.2 12.00 12.00 0.01 9,175.0 75.91 0.09 8,075.6 124.2 411.3 117.2 12.00 12.00 0.01 9,175.0 75.91 0.09 8,075.6 124.2 411.3 117.2 12.00 12.00 0.01 9,255.0 81.91 0.09 8,085.1 186.6 411.4 165.7 12.00 12.00 0.01 9,255.0 81.91 0.09 8,085.1 186.1 411.5 215.1 12.00 12.00 0.01 9,255.0 84.91 0.10 8,868.1 186.1 411.5 215.1 12.00 12.00 0.01 9,255.0 84.91 0.10 8,868.1 186.1 411.5 215.1 12.00 12.00 0.01 9,255.0 84.91 0.10 8,868.1 186.1 411.5 215.1 12.00 12.00 0.01 9,250.0 84.91 0.10 8,868.9 240.5 441.5 257.4 412.00 12.00 0.01 9,250.0 84.91 0.10 8,868.9 240.5 441.5 257.4 12.00 12.00 0.00 0.00 9,250.0 90.00 0.10 8,869.9 348.1 441.5 257.4 12.00 12.00 10.00 9,400.0 90.00 0.10 8,869.9 348.1 441.5 257.4 12.00 12.00 0.00 0.00 9,400.0 90.00 0.10 8,869.9 348.1 441.7 364.9 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 348.1 411.9 464.8 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 411.5 564.8 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 412.1 564.8 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 412.1 142.4 74.6 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 412.1 142.4 74.6 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 412.1 142.4 74.6 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 412.1 142.4 644.8 0.00 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 412.1 142.4 74.6 0.00 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 412.1 142.4 644.8 0.00 0.00 0.00 0.00 9,500.0 90.00 0.10 8,869.9 548.1 412.4 142.4 74.6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	9,000.0	54.91	0.07	8,903.2	-34.0	411.1	-16.8	12.00	12.00	0.02
9,050,0 60,91 0.07 8,929.7 8.3 411,2 25.5 12.00 12.00 0.01 9,075.0 63.91 0.08 8,941.3 30.5 411,2 47.6 12.00 12.00 0.01 9,100.0 66,91 0.08 8,941.7 53.2 411,2 70.3 12.00 12.00 0.01 9,125.0 69.91 0.08 8,960.9 76.5 411.3 30.5 12.00 12.00 0.01 9,125.0 69.91 0.08 8,960.9 76.5 411.3 19.5 12.00 12.00 0.01 9,175.0 75.91 0.09 8,976.6 124.2 411.3 117.2 12.00 12.00 0.01 9,175.0 75.91 0.09 8,976.6 124.2 411.3 117.2 12.00 12.00 0.01 9,255.0 81.91 0.09 8,976.6 124.2 411.3 117.2 12.00 12.00 0.01 9,255.0 81.91 0.09 8,981.0 148.6 411.4 165.7 12.00 12.00 0.01 9,255.0 81.91 0.09 8,981.0 148.6 411.4 190.3 12.00 12.00 0.01 9,255.0 81.91 0.09 8,985.2 173.3 411.4 190.3 12.00 12.00 0.01 9,255.0 81.91 0.09 8,985.2 173.3 411.4 190.3 12.00 12.00 0.01 9,255.0 84.91 0.10 8,886.1 198.1 411.5 251.1 12.00 12.00 0.01 9,250.0 84.91 0.10 8,889.9 240.5 411.5 257.4 12.00 12.00 0.01 9,380.0 90.0 0.10 8,889.9 240.5 411.5 257.4 12.00 12.00 12.00 0.01 9,380.0 90.0 0.10 8,889.9 348.1 411.5 257.4 12.00 12.00 10.00 9,500.0 90.00 0.10 8,889.9 348.1 411.7 364.9 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 348.1 411.9 464.8 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 348.1 411.9 464.8 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 548.1 411.2 564.8 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 548.1 411.2 564.8 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 548.1 412.1 564.8 0.00 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 548.1 412.1 564.8 0.00 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 548.1 412.1 1564.8 0.00 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 548.1 412.1 1564.8 0.00 0.00 0.00 0.00 9,500.0 90.00 0.10 8,889.9 548.1 412.1 1564.8 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	9.025.0	57 01	0.07	8 017 0	-13.2	111 1	4.0	12.00	12.00	0.02
9,075.0 63.91 0.08 8.941.3 30.5 411.2 47.6 12.00 12.00 0.01 9,100.0 66.91 0.08 8.951.7 53.2 411.2 70.3 12.00 12.00 0.01 9,125.0 69.91 0.08 8.960.9 76.5 411.3 93.5 12.00 12.00 0.01 9,150.0 72.91 0.09 8.968.9 100.2 411.3 93.5 12.00 12.00 0.01 9,175.0 75.91 0.09 8.968.9 100.2 411.3 117.2 12.00 12.00 0.01 9,200.0 78.91 0.09 8.967.6 124.2 411.3 141.3 12.00 12.00 0.01 9,200.0 78.91 0.09 8.967.6 124.2 411.3 141.3 12.00 12.00 0.01 9,205.0 81.91 0.09 8.965.2 173.3 411.4 190.3 12.00 12.00 0.01 9,205.0 84.91 0.09 8.965.2 173.3 411.4 190.3 12.00 12.00 0.01 9,205.0 84.91 0.10 8.968.1 198.1 411.5 1251.1 12.00 12.00 0.01 9,205.0 84.91 0.10 8.968.1 198.1 411.5 1251.1 12.00 12.00 0.01 9,205.0 84.91 0.10 8.968.1 198.1 411.5 1251.1 12.00 12.00 0.01 9,205.0 84.91 0.10 8.968.9 241.5 198.1 411.5 1251.1 12.00 12.00 0.01 9,205.0 80.00 0.00 0.10 8.969.9 241.5 411.5 257.4 12.00 12.00 0.01 9,205.0 9.00 0.10 8.969.9 241.5 411.5 257.4 12.00 12.00 0.01 9,205.0 9.00 0.00 0.00 8.969.9 241.5 411.5 257.4 12.00 0.00 0.00 9.00 9.00 0.00 0.00 8.969.9 448.1 411.7 364.9 0.00 0.00 0.00 9.00 9.00 0.10 8.969.9 448.1 411.9 464.8 0.00 0.00 0.00 9.00 9.00 0.10 8.969.9 448.1 411.9 464.8 0.00 0.00 0.00 9.00 9.00 0.10 8.969.9 548.1 411.7 548.9 0.00 0.00 0.00 9.00 9.00 0.10 8.969.9 548.1 411.9 444.8 0.00 0.00 0.00 0.00 9.00 9.00 0.10 8.969.9 548.1 412.1 564.8 0.00 0.00 0.00 0.00 9.00 9.00 0.10 8.969.9 548.1 412.1 564.8 0.00 0.00 0.00 0.00 9.00 9.00 0.10 8.969.9 548.1 412.1 564.8 0.00 0.00 0.00 0.00 9.00 9.00 0.10 8.969.9 548.1 412.1 564.8 0.00 0.00 0.00 0.00 9.00 0.00 0.00 8.969.9 548.1 412.1 564.8 0.00 0.00 0.00 0.00 9.00 0.00 0.00 8.969.9 548.1 412.4 564.0 0.00 0.00 0.00 0.00 9.00 0.00 0.00 8.969.9 548.1 412.4 564.0 0.00 0.00 0.00 0.00 0.00 9.00 0.00 0										
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11,700.0 90.00 0.10 8,990.0 2,648.0 415.8 2,663.1 0.00 0.00 0.00 11,800.0 90.00 0.10 8,990.0 2,748.0 416.0 2,763.0 0.00 0.00 0.00 11,900.0 90.00 0.10 8,990.0 2,848.0 416.1 2,862.9 0.00 0.00 0.00 12,000.0 90.00 0.10 8,990.0 3,048.0 416.3 2,962.8 0.00 0.00 0.00 12,100.0 90.00 0.10 8,990.0 3,048.0 416.5 3,062.8 0.00 0.00 0.00 12,200.0 90.00 0.10 8,990.0 3,148.0 416.7 3,162.7 0.00 0.00 0.00 12,300.0 90.00 0.10 8,990.0 3,248.0 416.9 3,262.6 0.00 0.00 0.00 12,400.0 90.00 0.10 8,990.0 3,348.0 417.0 3,362.5 0.00 0.00 0.00 12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 <td>11,500.0</td> <td>90.00</td> <td>0.10</td> <td>8,990.0</td> <td>2,448.0</td> <td>415.4</td> <td>2,463.2</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	11,500.0	90.00	0.10	8,990.0	2,448.0	415.4	2,463.2	0.00	0.00	0.00
11,800.0 90.00 0.10 8,990.0 2,748.0 416.0 2,763.0 0.00 0.00 0.00 11,900.0 90.00 0.10 8,990.0 2,848.0 416.1 2,862.9 0.00 0.00 0.00 12,000.0 90.00 0.10 8,990.0 2,948.0 416.3 2,962.8 0.00 0.00 0.00 12,100.0 90.00 0.10 8,990.0 3,048.0 416.5 3,062.8 0.00 0.00 0.00 12,200.0 90.00 0.10 8,990.0 3,148.0 416.7 3,162.7 0.00 0.00 0.00 12,300.0 90.00 0.10 8,990.0 3,248.0 416.9 3,262.6 0.00 0.00 0.00 12,400.0 90.00 0.10 8,990.0 3,348.0 417.0 3,362.5 0.00 0.00 0.00 12,500.0 90.00 0.10 8,990.0 3,548.0 417.2 3,462.4 0.00 0.00 0.00 12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 <td>11,600.0</td> <td>90.00</td> <td>0.10</td> <td>8,990.0</td> <td>2,548.0</td> <td>415.6</td> <td>2,563.2</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	11,600.0	90.00	0.10	8,990.0	2,548.0	415.6	2,563.2	0.00	0.00	0.00
11,900.0 90.00 0.10 8,990.0 2,848.0 416.1 2,862.9 0.00 0.00 0.00 12,000.0 90.00 0.10 8,990.0 2,948.0 416.3 2,962.8 0.00 0.00 0.00 12,100.0 90.00 0.10 8,990.0 3,048.0 416.5 3,062.8 0.00 0.00 0.00 12,200.0 90.00 0.10 8,990.0 3,148.0 416.7 3,162.7 0.00 0.00 0.00 12,300.0 90.00 0.10 8,990.0 3,248.0 416.9 3,262.6 0.00 0.00 0.00 12,400.0 90.00 0.10 8,990.0 3,348.0 417.0 3,362.5 0.00 0.00 0.00 12,500.0 90.00 0.10 8,990.0 3,548.0 417.2 3,462.4 0.00 0.00 0.00 12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,748.0 417.6 3,662.3 <td>11,700.0</td> <td>90.00</td> <td>0.10</td> <td>8,990.0</td> <td>2,648.0</td> <td>415.8</td> <td>2,663.1</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	11,700.0	90.00	0.10	8,990.0	2,648.0	415.8	2,663.1	0.00	0.00	0.00
12,000.0 90.00 0.10 8,990.0 2,948.0 416.3 2,962.8 0.00 0.00 0.00 12,100.0 90.00 0.10 8,990.0 3,048.0 416.5 3,062.8 0.00 0.00 0.00 12,200.0 90.00 0.10 8,990.0 3,148.0 416.7 3,162.7 0.00 0.00 0.00 12,300.0 90.00 0.10 8,990.0 3,248.0 416.9 3,262.6 0.00 0.00 0.00 12,400.0 90.00 0.10 8,990.0 3,348.0 417.0 3,362.5 0.00 0.00 0.00 12,500.0 90.00 0.10 8,990.0 3,548.0 417.2 3,462.4 0.00 0.00 0.00 12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 0.00 0.00 0.00 12,700.0 90.00 0.10 8,990.0 3,748.0 417.6 3,662.3 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 <td></td> <td>90.00</td> <td></td> <td>8,990.0</td> <td>2,748.0</td> <td>416.0</td> <td>2,763.0</td> <td>0.00</td> <td>0.00</td> <td></td>		90.00		8,990.0	2,748.0	416.0	2,763.0	0.00	0.00	
12,100.0 90.00 0.10 8,990.0 3,048.0 416.5 3,062.8 0.00 0.00 0.00 12,200.0 90.00 0.10 8,990.0 3,148.0 416.7 3,162.7 0.00 0.00 0.00 12,300.0 90.00 0.10 8,990.0 3,248.0 416.9 3,262.6 0.00 0.00 0.00 12,400.0 90.00 0.10 8,990.0 3,348.0 417.0 3,362.5 0.00 0.00 0.00 12,500.0 90.00 0.10 8,990.0 3,448.0 417.2 3,462.4 0.00 0.00 0.00 12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 0.00 0.00 0.00 12,700.0 90.00 0.10 8,990.0 3,648.0 417.6 3,662.3 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,748.0 417.7 3,762.2 0.00 0.00 0.00 12,900.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 <td></td>										
12,200.0 90.00 0.10 8,990.0 3,148.0 416.7 3,162.7 0.00 0.00 0.00 12,300.0 90.00 0.10 8,990.0 3,248.0 416.9 3,262.6 0.00 0.00 0.00 12,400.0 90.00 0.10 8,990.0 3,348.0 417.0 3,362.5 0.00 0.00 0.00 12,500.0 90.00 0.10 8,990.0 3,448.0 417.2 3,462.4 0.00 0.00 0.00 12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 0.00 0.00 0.00 12,700.0 90.00 0.10 8,990.0 3,648.0 417.6 3,662.3 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,748.0 417.7 3,762.2 0.00 0.00 0.00 12,900.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 0.00 0.00 0.00 13,000.0 90.00 0.10 8,990.0 3,948.0 418.1 3,962.0 <td>12,000.0</td> <td>90.00</td> <td>0.10</td> <td>8,990.0</td> <td>2,948.0</td> <td>416.3</td> <td>2,962.8</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	12,000.0	90.00	0.10	8,990.0	2,948.0	416.3	2,962.8	0.00	0.00	0.00
12,200.0 90.00 0.10 8,990.0 3,148.0 416.7 3,162.7 0.00 0.00 0.00 12,300.0 90.00 0.10 8,990.0 3,248.0 416.9 3,262.6 0.00 0.00 0.00 12,400.0 90.00 0.10 8,990.0 3,348.0 417.0 3,362.5 0.00 0.00 0.00 12,500.0 90.00 0.10 8,990.0 3,448.0 417.2 3,462.4 0.00 0.00 0.00 12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 0.00 0.00 0.00 12,700.0 90.00 0.10 8,990.0 3,648.0 417.6 3,662.3 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,748.0 417.7 3,762.2 0.00 0.00 0.00 12,900.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 0.00 0.00 0.00 13,000.0 90.00 0.10 8,990.0 3,948.0 418.1 3,962.0 <td>12,100.0</td> <td>90.00</td> <td>0.10</td> <td>8,990.0</td> <td>3,048.0</td> <td>416.5</td> <td>3,062.8</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	12,100.0	90.00	0.10	8,990.0	3,048.0	416.5	3,062.8	0.00	0.00	0.00
12,400.0 90.00 0.10 8,990.0 3,348.0 417.0 3,362.5 0.00 0.00 0.00 12,500.0 90.00 0.10 8,990.0 3,448.0 417.2 3,462.4 0.00 0.00 0.00 12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 0.00 0.00 0.00 12,700.0 90.00 0.10 8,990.0 3,648.0 417.6 3,662.3 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,748.0 417.7 3,762.2 0.00 0.00 0.00 12,900.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 0.00 0.00 0.00 13,000.0 90.00 0.10 8,990.0 3,948.0 418.1 3,962.0 0.00 0.00 0.00 13,100.0 90.00 0.10 8,990.0 4,048.0 418.3 4,062.0 0.00 0.00 0.00										
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12,600.0 90.00 0.10 8,990.0 3,548.0 417.4 3,562.4 0.00 0.00 0.00 12,700.0 90.00 0.10 8,990.0 3,648.0 417.6 3,662.3 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,748.0 417.7 3,762.2 0.00 0.00 0.00 12,900.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 0.00 0.00 0.00 13,000.0 90.00 0.10 8,990.0 3,948.0 418.1 3,962.0 0.00 0.00 0.00 13,100.0 90.00 0.10 8,990.0 4,048.0 418.3 4,062.0 0.00 0.00 0.00										
12,700.0 90.00 0.10 8,990.0 3,648.0 417.6 3,662.3 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,748.0 417.7 3,762.2 0.00 0.00 0.00 12,900.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 0.00 0.00 0.00 13,000.0 90.00 0.10 8,990.0 3,948.0 418.1 3,962.0 0.00 0.00 0.00 13,100.0 90.00 0.10 8,990.0 4,048.0 418.3 4,062.0 0.00 0.00 0.00	12,500.0	90.00	0.10	8,990.0	3,448.0	417.2	3,462.4	0.00	0.00	0.00
12,700.0 90.00 0.10 8,990.0 3,648.0 417.6 3,662.3 0.00 0.00 0.00 12,800.0 90.00 0.10 8,990.0 3,748.0 417.7 3,762.2 0.00 0.00 0.00 12,900.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 0.00 0.00 0.00 13,000.0 90.00 0.10 8,990.0 3,948.0 418.1 3,962.0 0.00 0.00 0.00 13,100.0 90.00 0.10 8,990.0 4,048.0 418.3 4,062.0 0.00 0.00 0.00	12.600.0	90.00	0.10	8,990.0	3,548.0	417.4	3,562.4	0.00	0.00	0.00
12,800.0 90.00 0.10 8,990.0 3,748.0 417.7 3,762.2 0.00 0.00 0.00 12,900.0 90.00 0.10 8,990.0 3,848.0 417.9 3,862.1 0.00 0.00 0.00 13,000.0 90.00 0.10 8,990.0 3,948.0 418.1 3,962.0 0.00 0.00 0.00 13,100.0 90.00 0.10 8,990.0 4,048.0 418.3 4,062.0 0.00 0.00 0.00										
13,000.0 90.00 0.10 8,990.0 3,948.0 418.1 3,962.0 0.00 0.00 0.00 13,100.0 90.00 0.10 8,990.0 4,048.0 418.3 4,062.0 0.00 0.00 0.00										
13,100.0 90.00 0.10 8,990.0 4,048.0 418.3 4,062.0 0.00 0.00 0.00	· ·	90.00				417.9		0.00	0.00	
	13,000.0	90.00	0.10	8,990.0	3,948.0	418.1	3,962.0	0.00	0.00	0.00
	13.100.0	90.00	0.10	8,990.0	4.048.0	418.3	4,062.0	0.00	0.00	0.00
13,200.0 90.00 0.10 8,990.0 4,148.0 418.5 4,161.9 0.00 0.00 0.00				,						



Database: PEDMB Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 State Com

 Well:
 #581H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #581H

kb = 26' @ 2963.0usft kb = 26' @ 2963.0usft

Grid

esign:	Flail #U. I Ki								
lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,300.0	90.00	0.10	8,990.0	4,248.0	418.6	4,261.8	0.00	0.00	0.00
13,400.0	90.00	0.10	8,990.0	4,348.0	418.8	4,361.7	0.00	0.00	0.00
13,500.0	90.00	0.10	8,990.0	4,448.0	419.0	4,461.6	0.00	0.00	0.00
13,600.0	90.00	0.10	8,990.0	4,548.0	419.2	4,561.6	0.00	0.00	0.00
13,700.0	90.00	0.10	8,990.0	4,648.0	419.3	4,661.5	0.00	0.00	0.00
13,800.0	90.00	0.10	8,990.0	4,748.0	419.5	4,761.4	0.00	0.00	0.00
13,900.0	90.00	0.10	8,990.0	4,848.0	419.7	4,861.3	0.00	0.00	0.00
14,000.0	90.00	0.10	8,990.0	4,948.0	419.9	4,961.2	0.00	0.00	0.00
14,074.0	90.00	0.10	8,990.0	5,022.0	420.0	5,035.1	0.00	0.00	0.00
14,100.0	90.00	0.10	8,990.0	5,048.0	420.0	5,061.2	0.00	0.00	0.00
14,200.0	90.00	0.10	8,990.0	5,148.0	420.2	5,161.1	0.00	0.00	0.00
14,300.0	90.00	0.10	8,990.0	5,248.0	420.4	5,261.0	0.00	0.00	0.00
14,400.0	90.00	0.10	8,990.0	5,348.0	420.6	5,360.9	0.00	0.00	0.00
14,500.0	90.00	0.10	8,990.0	5,448.0	420.8	5,460.9	0.00	0.00	0.00
14,600.0	90.00	0.10	8,990.0	5,548.0	420.9	5,560.8	0.00	0.00	0.00
14,700.0	90.00	0.10	8,990.0	5,648.0	421.1	5,660.7	0.00	0.00	0.00
14,800.0	90.00	0.10	8,990.0	5,748.0	421.3	5,760.6	0.00	0.00	0.00
14,900.0	90.00	0.11	8,990.0	5,848.0	421.5	5,860.5	0.00	0.00	0.00
15,000.0	90.00	0.11	8,990.0	5,948.0	421.7	5,960.5	0.00	0.00	0.00
15,100.0	90.00	0.11	8,990.0	6,048.0	421.9	6,060.4	0.00	0.00	0.00
15,200.0	90.00	0.11	8,990.0	6,148.0	422.0	6,160.3	0.00	0.00	0.00
15,300.0	90.00	0.11	8,990.0	6,248.0	422.2	6,260.2	0.00	0.00	0.00
15,400.0	90.00	0.11	8,990.0	6,348.0	422.4	6,360.1	0.00	0.00	0.00
15,500.0	90.00	0.11	8,990.0	6,448.0	422.6	6,460.1	0.00	0.00	0.00
15,600.0	90.00	0.11	8,990.0	6,548.0	422.8	6,560.0	0.00	0.00	0.00
15,700.0	90.00	0.11	8,990.0	6,648.0	423.0	6,659.9	0.00	0.00	0.00
15,800.0	90.00	0.11	8,990.0	6,748.0	423.2	6,759.8	0.00	0.00	0.00
15,900.0	90.00	0.11	8,990.0	6,848.0	423.4	6,859.7	0.00	0.00	0.00
16,000.0	90.00	0.11	8,990.0	6,948.0	423.6	6,959.7	0.00	0.00	0.00
16,100.0	90.00	0.11	8,990.0	7,048.0	423.7	7,059.6	0.00	0.00	0.00
16,200.0	90.00	0.11	8,990.0	7,148.0	423.9	7,159.5	0.00	0.00	0.00
16,300.0	90.00	0.11	8,990.0	7,248.0	424.1	7,259.4	0.00	0.00	0.00
16,400.0	90.00	0.11	8,990.0	7,348.0	424.3	7,359.3	0.00	0.00	0.00
16,500.0	90.00	0.11	8,990.0	7,448.0	424.5	7,459.3	0.00	0.00	0.00
16,600.0	90.00	0.11	8,990.0	7,548.0	424.7	7,559.2	0.00	0.00	0.00
16,700.0	90.00	0.11	8,990.0	7,648.0	424.9	7,659.1	0.00	0.00	0.00
16,741.0	90.00	0.11	8,990.0	7,689.0	425.0	7,700.0	0.00	0.00	0.00
16,800.0	90.00	0.11	8,990.0	7,748.0	425.1	7,759.0	0.00	0.00	0.00
16,900.0	90.00	0.11	8,990.0	7,848.0	425.3	7,858.9	0.00	0.00	0.00
17,000.0	90.00	0.11	8,990.0	7,948.0	425.5	7,958.9	0.00	0.00	0.00
17,100.0	90.00	0.11	8,990.0	8,048.0	425.7	8,058.8	0.00	0.00	0.00
17,200.0	90.00	0.10	8,990.0	8,148.0	425.9	8,158.7	0.00	0.00	0.00
17,300.0	90.00	0.10	8,990.0	8,248.0	426.1	8,258.6	0.00	0.00	0.00
,				,					
17,400.0	90.00	0.10	8,990.0	8,348.0	426.2	8,358.6	0.00	0.00	0.00
17,500.0	90.00	0.10	8,990.0	8,448.0	426.4	8,458.5	0.00	0.00	0.00
17,600.0	90.00	0.10	8,990.0	8,548.0	426.6	8,558.4	0.00	0.00	0.00
17,700.0	90.00	0.09	8,990.0	8,648.0	426.7	8,658.3	0.00	0.00	0.00
17,800.0	90.00	0.09	8,990.0	8,748.0	426.9	8,758.2	0.00	0.00	0.00
17,900.0	90.00	0.09	8,990.0	8,848.0	427.1	8,858.1	0.00	0.00	0.00
18,000.0	90.00	0.09	8,990.0	8,948.0	427.2	8,958.1	0.00	0.00	0.00
18,100.0	90.00	0.09	8,990.0	9,048.0	427.4	9,058.0	0.00	0.00	0.00
18,200.0	90.00	0.09	8,990.0	9,148.0	427.5	9,157.9	0.00	0.00	0.00
18,300.0	90.00	0.08	8,990.0	9,248.0	427.7	9,257.8	0.00	0.00	0.00
18,400.0	90.00	0.08	8,990.0	9,348.0	427.8	9,357.7	0.00	0.00	0.00



Database: PEDMB Company: Midland

Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 State Com

 Well:
 #581H

 Wellbore:
 OH

 Design:
 Plan #0.1 RT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #581H

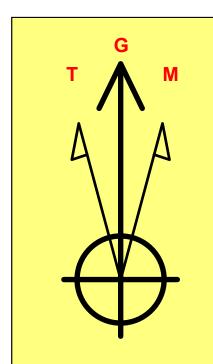
kb = 26' @ 2963.0usft kb = 26' @ 2963.0usft

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,500.0	90.00	0.08	8,990.0	9,448.0	428.0	9,457.7	0.00	0.00	0.00
18,600.0	90.00	0.08	8,990.0	9,548.0	428.1	9,557.6	0.00	0.00	0.00
18,700.0	90.00	0.08	8,990.0	9,648.0	428.2	9,657.5	0.00	0.00	0.00
18,800.0	90.00	0.07	8,990.0	9,748.0	428.4	9,757.4	0.00	0.00	0.00
18,900.0	90.00	0.07	8,990.0	9,848.0	428.5	9,857.3	0.00	0.00	0.00
19,000.0	90.00	0.07	8,990.0	9,948.0	428.6	9,957.3	0.00	0.00	0.00
19,100.0	90.00	0.07	8,990.0	10,048.0	428.7	10,057.2	0.00	0.00	0.00
19,200.0	90.00	0.07	8,990.0	10,148.0	428.9	10,157.1	0.00	0.00	0.00
19,300.0	90.00	0.06	8,990.0	10,248.0	429.0	10,257.0	0.00	0.00	0.00
19,329.0	90.00	0.06	8,990.0	10,277.0	429.0	10,285.9	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Golden Graham 1 : - plan hits target cent - Point	0.00 er	0.00	8,512.5	-237.0	411.0	387,322.00	630,912.00	32° 3′ 52.193 N	104° 2' 39.013 W
FTP(Golden Graham 1 5 - plan hits target cent - Point	0.00 eer	0.00	8,725.2	-187.0	411.0	387,372.00	630,912.00	32° 3′ 52.688 N	104° 2' 39.011 W
Fed Perf 2(Golden Grah - plan hits target cent - Point	0.00 er	0.00	8,990.0	7,689.0	425.0	395,248.00	630,926.00	32° 5′ 10.630 N	104° 2' 38.603 W
PBHL(Golden Graham 1 - plan hits target cent - Point	0.00 er	0.00	8,990.0	10,277.0	429.0	397,836.00	630,930.00	32° 5′ 36.241 N	104° 2' 38.476 W
Fed Perf 1(Golden Grah - plan hits target cent - Point	0.00 er	0.00	8,990.0	5,022.0	420.0	392,581.00	630,921.00	32° 4' 44.237 N	104° 2' 38.744 W





3000-

6000

8100

9000-

Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.31°

Magnetic Field Strength: 46897.3nT Dip Angle: 59.55° Date: 5/15/2025 Model: IGRF2025

To convert a Magnetic Direction to a Grid Direction, Add 6.31° To convert a Magnetic Direction to a True Direction, Add 6.46° East To convert a True Direction to a Grid Direction, Subtract 0.15°

Eddy County, NM (NAD 83 NME)

Golden Graham 1 State Com #581H

Plan #0.1 RT

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

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

System Datum: Mean Sea Level

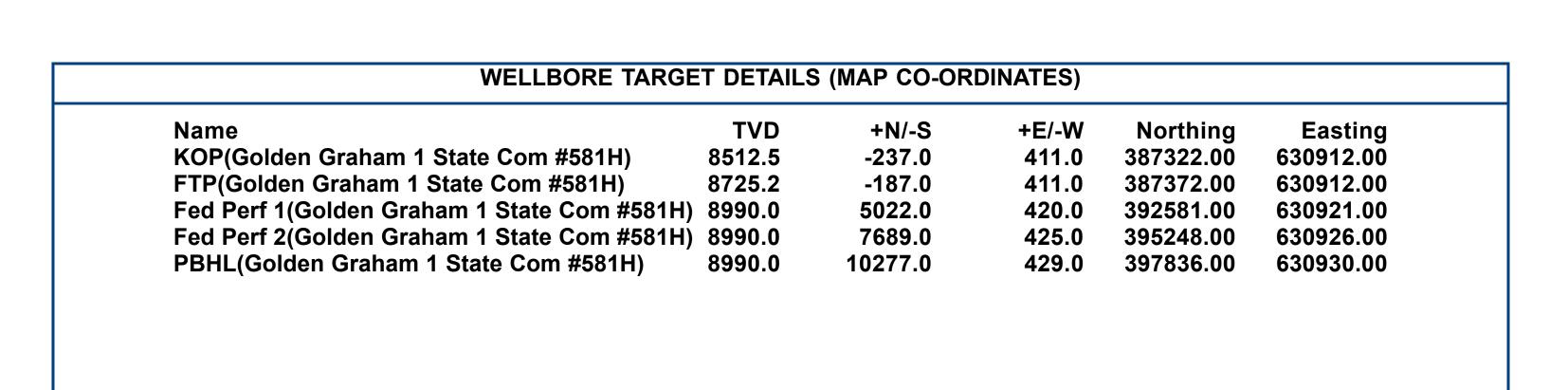
WELL DETAILS: #581H

2937.0

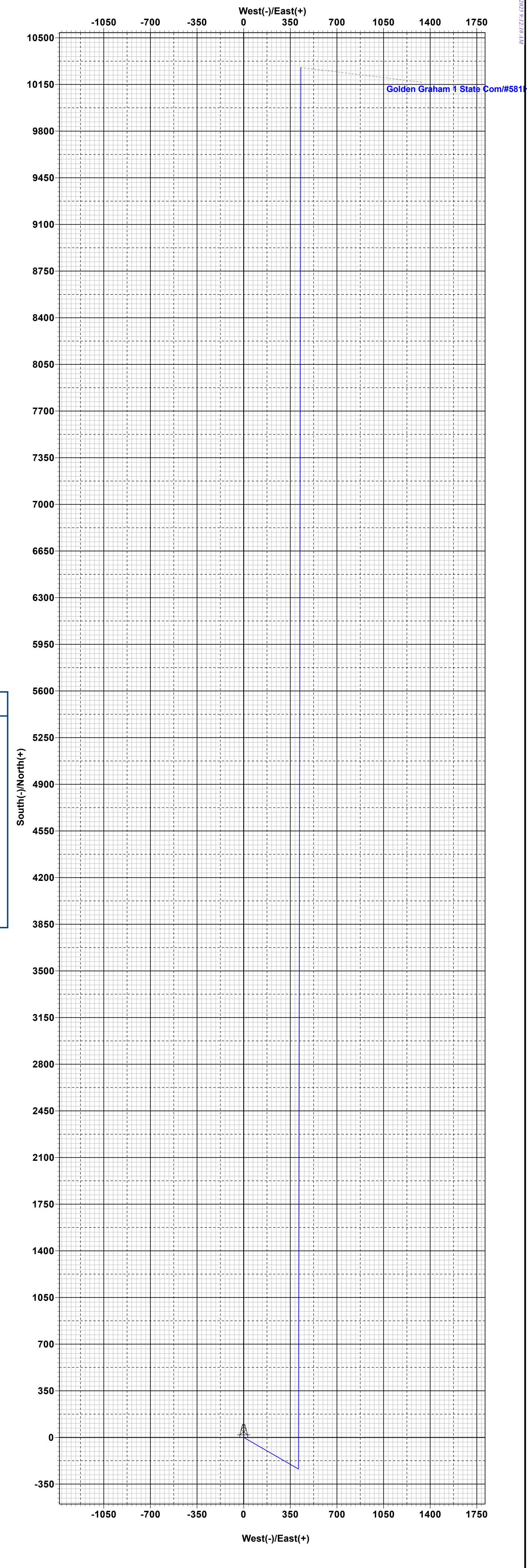
kb = 26' @ 2963.0usft
Northing Easting Latittude
387559.00 630501.00 32° 3' 54.549 N

Longitude 104° 2' 43.782 W

	SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	800.0	0.00	0.00	0.008	0.0	0.0	0.00	0.00	0.0	
3	1173.8	7.48	119.97	1172.7	-12.2	21.1	2.00	119.97	-11.3	
4	4446.2	7.48	119.97	4417.3	-224.8	389.9	0.00	0.00	-208.4	
5	4819.9	0.00	0.00	4790.0	-237.0	411.0	2.00	180.00	-219.7	
6	8542.4	0.00	0.00	8512.5	-237.0	411.0	0.00	0.00	-219.7	KOP(Golden Graham 1 State Com #581H)
7	8762.9	26.46	0.00	8725.2	-187.0	411.0	12.00	0.00	-169.7	FTP(Golden Graham 1 State Com #581H)
8	9292.4	90.00	0.10	8989.9	240.5	411.5	12.00	0.11	257.4	`
9	14074.0	90.00	0.10	8990.0	5022.0	420.0	0.00	0.00	5035.1	Fed Perf 1(Golden Graham 1 State Com #581H)
10	16741.0	90.00	0.11	8990.0	7689.0	425.0	0.00	83.22	7700.0	Fed Perf 2(Golden Graham 1 State Com #581H)
11	19329.0	90.00	0.06	8990.0	10277.0	429.0	0.00	-91.61	10286.0	PBHL(Golden Graham 1 State Com #581H)



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14:43, May 15 2025

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	esources, Inc	eOGRII	D: 7377		Date: (05/19/2025	5
II. Type: ⊠ Original Other.	☐ Amendm	nent due to □ 19.15	.27.9.D(6)(a) NI	MAC □ 19.15.27.	9.D(6)(b) NM	IAC □	
If Other, please describe:							
III. Well(s): Provide the be recompleted from a sin					wells propose	ed to be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipate Gas MCF/		Anticipated roduced Water BBL/D
GOLDEN GRAHAM 1 STATE COM 581H		M-1-26S-28E	285' FSL & 1170' FWL	+/- 1000	+/- 3500	+/- 3	
NMAC] V. Anticipated Schedul or proposed to be recomp						f wells pro	posed to be drilled
Well Name	API	Spud Date	TD Reached	Completion	n Init	ial Flow	First Production
			Date	Commencement	Date Ba	ck Date	Date
GOLDEN GRAHAM 1 STATE COM 581H		06/01/25	06/26/25	09/1/25	10/1	/25	10/15/25
VI. Separation Equipmo				•		•	0 1
VII. Operational Practi Subsection A through F of		-	ription of the ac	tions Operator wi	ll take to com	nply with t	he requirements of
VIII. Best Management during active and planned			te description of	f Operator's best i	nanagement p	practices to	minimize venting

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	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

XI. Map. 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 ca	apacity to gather 100% of t	he anticipated natural gas
production volume from the well prior to the date of first	st production.		

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment, or positive that its existing well(s) connected to the same segment, or positive that its existing well(s) connected to the same segment, or positive that its existing well(s) connected to the same segment, or positive that its existing well(s) connected to the same segment, or positive that its existing well(s) connected to the same segment, or positive that its existing well(s) connected to the same segment, or positive that its existing well(s) connected to the same segment, or positive that its existing well(s) connected to the same segment.	rtion, of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the no	ew well(s).

\neg	Attach Oper	otor's plan	o monoco	production	in rosponso	to the increase	sed line pressur	ra
	Affach Ubera	ator's blab i	o manage	production	in response	e to the increas	sea iine pressiii	re.

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides	ded 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; reinjection for underground storage; (e) **(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
- 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: Kayla McConnell
Printed Name: KAYLA MCCONNELL
Title: Regulatory Specialist
E-mail Address: KAYLA_MCCONNELL@EOGRESOURCES.COM
Date: 05/19/2025
Phone: (432) 265-6804
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.