k

Received by OCI	D: 8/28/2023 7:	33:59 PM						Page 1 of
Form 3160-5 (June 2019)		UNITED STATES PARTMENT OF THE IN EAU OF LAND MANA	TERIOR			C Exp	ORM APPRO MB No. 1004- ires: October 3 MNM121490	0137
						6. If Indian, Allottee o		
	SUBMIT IN	TRIPLICATE - Other instruc	tions on page	e 2		7. If Unit of CA/Agree	ement, Name a	nd/or No.
1. Type of Well	Well 🗌 Gas V	Well Other				8. Well Name and No.	RATTLESNA	KE 28 FED COM/742H
2. Name of Operato		CES INCORPORATED				9. API Well No. 3002	548351	
3a. Address 1111	BAGBY SKY LOB		b. Phone No. 713) 651-700	(include area co)0	de)	10. Field and Pool or WC025 G08 S253	1 5	
4. Location of Well SEC 28/T26S/R		R.,M., or Survey Description)				11. Country or Parish, LEA/NM	State	
	12. CHE	CK THE APPROPRIATE BO	X(ES) TO INI	DICATE NATUR	RE OF NOT	ICE, REPORT OR OTH	IER DATA	
TYPE OF SU	UBMISSION			Т	YPE OF AC	TION		
✓ Notice of Int		Acidize Alter Casing Casing Repair		en aulic Fracturing Construction	Rec	duction (Start/Resume) lamation omplete	Water S Well In Other	Shut-Off tegrity
	Report onment Notice	Change Plans		and Abandon	Tem	porarily Abandon er Disposal		
the Bond under completion of t completed. Fina is ready for fina	which the work wil he involved operatic al Abandonment No al inspection.)	ally or recomplete horizontally, Il be perfonned or provide the l ons. If the operation results in a tices must be filed only after al amendment to our approved	Bond No. on fi a multiple com Il requirements	le with BLM/BI pletion or recom s, including recla	A. Required appletion in a amation, hav	l subsequent reports mu new interval, a Form 3	st be filed with 160-4 must be	in 30 days following filed once testing has been
Rattlesnake	28 Fed Com 215	H (FKA 742H) API #: 30-025	5-48351					
Change nan	ne from Rattlesnal	ke 28 Fed Com 742H to Rat	ttlesnake 28 I	Fed Com 215H	l.			
•		33-E, Sec 33, 2446' FNL, 13 48' FNL, 990' FWL, Lea Co.		a Co., NM,				
Change targ	get formation to Le	onard B.						
	n page 3 additiona							
	that the foregoing is / Ph: (432) 848-9	s true and correct. Name (Print	ted/Typed)	Regulato Title	ory Special	ist		
Signature				Date		08/21/2	023	
		THE SPACE	FOR FED	ERAL OR S		FICE USE		
Approved by								
		8-4722 / Approved		Title	GINEER]	Date	08/28/2023
Conditions of approval, if any, are attached. Approval of this notice does not warrant or								

certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

Update casing and cement program to current design.

Update the Pool as reflected in the C-102.

Location of Well

0. SHL: NENW / 1075 FNL / 2097 FWL / TWSP: 26S / RANGE: 33E / SECTION: 28 / LAT: 32.0187823 / LONG: -103.5789755 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 100 FNL / 1308 FWL / TWSP: 26S / RANGE: 33E / SECTION: 28 / LAT: 32.0214736 / LONG: -103.5815123 (TVD: 12218 feet, MD: 12516 feet) PPP: SWNW / 1320 FNL / 1308 FWL / TWSP: 26S / RANGE: 33E / SECTION: 28 / LAT: 32.018123 / LONG: -103.5815115 (TVD: 12695 feet, MD: 13837 feet) BHL: LOT 4 / 2450 FNL / 1308 FWL / TWSP: 26S / RANGE: 33E / SECTION: 33 / LAT: 32.0005199 / LONG: -103.581507 (TVD: 12575 feet, MD: 20191 feet)

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-0612 Bax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410 Phone: (505) 343-46178 Fax: (505) 343-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

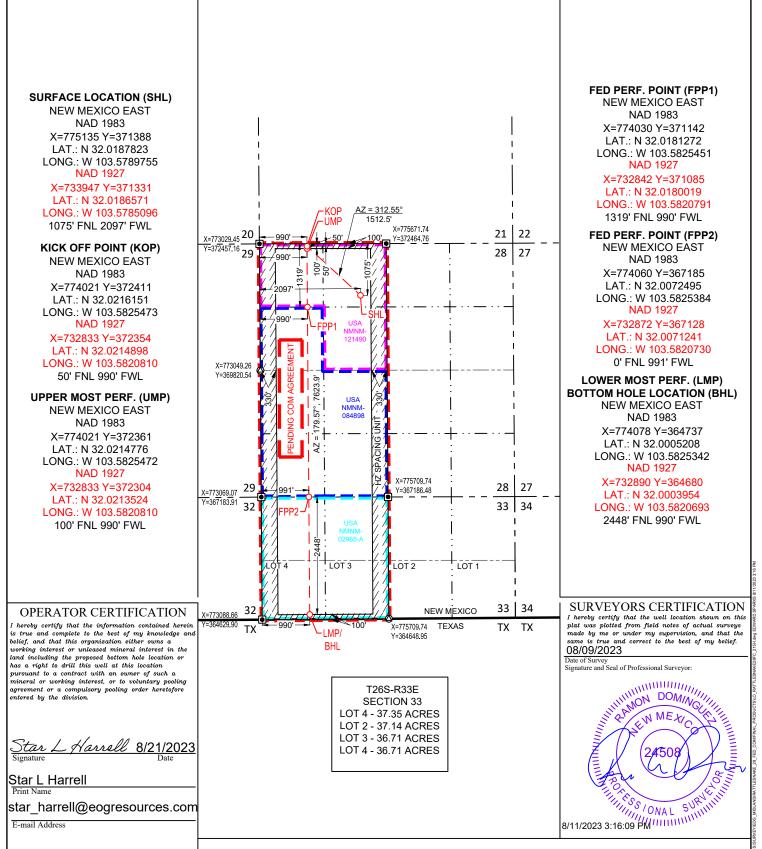
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

AMENDED REPORT

WFLL	LOCA	TION		ACREAGE	DEDICA	TION PI	. 1
VV ĽLL	LUCA		AND	AUNEAGE	DEDICA		

	PI Number 30-025-48						Pool Name				
Property Co 315317			Property Name RATTLESNAKE 28 FED COM						^{1ber}		
OGRID 1 7377			1					Elevati 32	^{on} 241'		
	Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
С	28	26-S	33-E	-	1075'	NORTH	2097'	WEST	LEA		
	-		Bottom Ho	le Locatio	n If Different I	From Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
4	33	26-S	33-E	-	2448'	NORTH	990'	WEST	LEA		
Dedicated Acres 474.49	Joint or I	nfill	Consolidated Code	nsolidated Code Order No. PENDING COM AGREEMENT							

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.



Seog resources

Rattlesnake 28 Fed Com 215H

Revised Permit Information 08/04/2023:

Well Name: Rattlesnake 28 Fed Com 215H Location: SHL: 1075' FNL & 2097' FWL, Section 28, T-26-S, R-33-E, Lea Co., N.M. BHL: 2448' FNL & 990' FWL, Section 33, T-26-S, R-33-E, Lea Co., N.M.

Casing Program A:

Hole	Interv	al MD	Interva	l TVD	Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	890	0	890	13-3/8"	54.5#	J-55	STC
11"	0	5,095	0	4,860	9-5/8"	40#	J-55	LTC
6-3/4"	0	17,648	0	9,965	5-1/2"	17#	HCP-110	LTC

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 Onshore Order #2 under the following conditions:

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

	inting 1108	<u> </u>		
Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
890' 13-3/8''	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 690')
4,860' 9-5/8''	440	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	100	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 3,890')
17,648' 5-1/2''	300	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,360')
	570	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9710')

Cementing Program:

Seog resources Rattlesnake 28 Fed Com 215H

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

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

Mud Program:

Depth (TVD)	Туре	Weight (ppg)	Viscosity	Water Loss
0 - 890'	Fresh - Gel	8.6-8.8	28-34	N/c
890'-4,860'	Brine	8.6-8.8	28-34	N/c
4,860' - 17,648'	Oil Base	8.8-9.5	58-68	N/c - 6

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"

Seog resources Rattlesnake 28 Fed Com 215H

TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

19.15.16.10 Casing AND TUBING RQUIREMENTS:
 J (3): "The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone."

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.

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Seog resources Rattlesnake 28 Fed Com 215H

1075' FNL 2097' FWL Section 28	Revised Wellbore A:	KB: 3266' GL: 3241'
T-26-S, R-33-E	API: 30-025-48351	
Bit Size: 16'' 13-3/8'', 54.5#, J-55, STC @ 0' - 890'		
Bit Size: 11" 9-5/8", 40.#, J-55, LTC		
@ 0' - 4,860'		TOC: 4,360'
Bit Size: 6-3/4"		
5-1/2'', 17.#, HCP-110, LTC @ 0' - 17,648'		Lateral: 17,648' MD, 9,965' TVD Upper Most Perf: 100' FNL & 990' FWL Sec. 28 Lower Most Perf: 2448' FNL & 990' FWL Sec. 33 BH Location: 2448' FNL & 990' FWL Sec. 33 T-26-S R-33-E
KOP: 9,701' MD, 9,488' TV EOC: 10,451' MD, 9,965' TV		
EOC: 10,451 [°] MD, 9,965 [°] 1 V		

Seog resources

Rattlesnake 28 Fed Com 215H

Revised Permit Information 08/04/2023:

Well Name: Rattlesnake 28 Fed Com 215H

Location: SHL: 1075' FNL & 2097' FWL, Section 28, T-26-S, R-33-E, Lea Co., N.M. BHL: 2448' FNL & 990' FWL, Section 33, T-26-S, R-33-E, Lea Co., N.M.

Casing Program B:

Hole	Interval MD		Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13-1/2"	0	890	0	890	10-3/4"	40.5#	J-55	STC
9-7/8"	0	4,237	0	4,000	8-5/8"	32#	J-55	BTC-SC
9-7/8"	4,237	5,097	4,000	4,860	8-5/8"	32#	P110-EC	BTC-SC
6-3/4"	0	17,648	0	9,965	5-1/2"	17#	HCP-110	LTC

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
890' 10-3/4''	310	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello- Flake (TOC @ Surface)
	110	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 690')
4,860' 8-5/8''	330	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	100	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 3,890')
17,648' _{5-1/2''}	570	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,360')
	590	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241 (TOC @ 9710')

Seog resources

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 Onshore Order #2 under the following conditions:

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

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"

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Deog resources Rattlesnake 28 Fed Com 215H

1075' 2097'	Revised Wellbore B:	KB: 3266' GL: 3241'
Section 28 T-26-S, R-33-E	API: 30-025-48351	
Bit Size: 13-1/2" 10-3/4", 40.5#, J-55, STC @ 0' - 890' Bit Size: 9-7/8" 8-5/8", 32.#, J-55, BTC-SC @ 0' - 4,000' 8-5/8", 32.#, P110-EC, BTC-SC @ 4,000' - 4,860'		TOC: 4,360'
Bit Size: 6-3/4" 5-1/2", 17.#, HCP-110, LTC @ 0' - 17,648'		Lateral: 17,648' MD, 9,965' TVD Upper Most Perf: 100' FNL & 990' FWL Sec. 28 Lower Most Perf: 2448' FNL & 990' FWL Sec. 33 BH Location: 2448' FNL & 990' FWL Sec. 33 T-26-S R-33-E
KOP: 9,701' MD, 9,488' TVD EOC: 10,451' MD, 9,965' TVI		

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	781'
Tamarisk Anhydrite	860'
Top of Salt	1,815'
Base of Salt	4,758'
Lamar	4,995'
Bell Canyon	5,018'
Cherry Canyon	6,051'
Brushy Canyon	7,609'
Bone Spring Lime	9,185'
Leonard (Avalon) Shale	9,272'
1st Bone Spring Sand	10,138'
2nd Bone Spring Shale	10,305'
2nd Bone Spring Sand	10,642'
3rd Bone Spring Carb	11,112'
TD	9,965'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	5,018'	Oil
Cherry Canyon	6,051'	Oil
Brushy Canyon	7,609'	Oil
Leonard (Avalon) Shale	9,272'	Oil
1st Bone Spring Sand	10,138'	Oil
2nd Bone Spring Shale	10,305'	Oil
2nd Bone Spring Sand	10,642'	Oil



Midland

Lea County, NM (NAD 83 NME) Rattlesnake 28 Fed Com #215H

OH

Plan: Plan #0.1

Standard Planning Report

15 August, 2023



1 0.0	17,648.1 P	lan #0.1 (OH)		EOG MWD+IFR1 MWD + IFR1				
Plan Survey Tool Pro Depth From (usft)	Depth To (usft) S	Date 8/15/2 urvey (Wellbo	ore)		Rema	rks		
				0.0	0.0			
Vertical Section:		(u	rom (TVD) Isft)).0	+N/-S (usft) 0.0	+E/-W (usft) 0.0		irection (°) 189.03	
Version:		_	Phase:	PLAN	Tie On Dep		0.0	
Audit Notes:								
Design	Plan #0.1							
	IGRF	2020	8/15/2023		6.28	59.64	47,147.14046	6251
Magnetics	Model Nam	e	Sample Date	Declination (°)		Dip Angle (°)	Field Strength (nT)	
Wellbore	ОН							
Grid Convergence:		0.40°						
Position Uncertainty	· L/-**	0.0 usft	Wellhead Elev		usft	Ground Level:	105	3,241.0 usf
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:		71,388.00 usft 75,135.00 usft	Latitude: Longitude:		32° 1' 7.616 N 34' 44.309 W
Well	#215H							
From: Position Uncertainty:	Мар	0.0 usft	Easting: Slot Radius:	777,030. 13-3/	-	de:	103	34' 22.279 W
Site Position:			Northing:	371,629.				2° 1' 9.870 N
Site	Rattlesnake 28	Fed Com						
Map Zone:	New Mexico East							
Map System: Geo Datum:	US State Plane 1 North American D			System Datum:		Mean Sea Level		
Project	Lea County, NM	I (NAD 83 NM	1E)					
Design:	Plan #0.1							
Vell: Vellbore:	#215H OH			Survey Calcul	ation Method:	Minimum Curv	ature	
Site:	Rattlesnake 28		,	North Referen		Grid		
Company: Project:	Midland Lea County, NI	M (NAD 83 NI	ME)	TVD Reference MD Reference		kb=25' @ 3266 kb=25' @ 3266		
Database:	PEDM				nate Reference:	Well #215H	0	

Database:	PEDM	Local Co-ordinate Reference:	Well #215H
Company:	Midland	TVD Reference:	kb=25' @ 3266.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25' @ 3266.0usft
Site:	Rattlesnake 28 Fed Com	North Reference:	Grid
Well:	#215H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
(2011)	()	()	(0.011)	(uon)	(uon)	()) 00000000,	()))))))))))))))))))	(/ / 0000010)	()	itiiget
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,815.0	0.00	0.00	1,815.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,666.8	17.04	312.56	2,654.3	85.0	-92.6	2.00	2.00	0.00	312.56	
6,971.1	17.04	312.56	6,769.7	938.0	-1,021.4	0.00	0.00	0.00	0.00	
7,822.9	0.00	0.00	7,609.0	1,023.0	-1,114.0	2.00	-2.00	0.00	180.00	
9,701.4	0.00	0.00	9,487.5	1,023.0	-1,114.0	0.00	0.00	0.00	0.00	KOP(Rattlesnake 2
9,921.8	26.46	180.00	9,700.2	973.0	-1,114.0	12.00	12.00	81.65	180.00	FTP(Rattlesnake 2
10,451.3	90.00	179.53	9,964.9	545.6	-1,111.6	12.00	12.00	-0.09	-0.53	
11,242.9	90.00	179.53	9,965.0	-246.0	-1,105.0	0.00	0.00	0.00	0.00	FPP1(Rattlesnake
15,200.0	90.00	179.61	9,965.0	-4,203.0	-1,075.0	0.00	0.00	0.00	84.48	FPP2(Rattlesnake
17,648.1	90.00	179.55	9,965.0	-6,651.0	-1,057.0	0.00	0.00	0.00	-98.19	PBHL(Rattlesnake



Database:	PEDM	Local Co-ordinate Reference:	Well #215H
Company:	Midland	TVD Reference:	kb=25' @ 3266.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25' @ 3266.0usft
Site:	Rattlesnake 28 Fed Com	North Reference:	Grid
Well:	#215H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #0.1		

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
500.0	0.00 0.00	0.00	500.0	0.0 0.0	0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00
600.0		0.00	600.0		0.0				0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,815.0	0.00	0.00	1,815.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	1.70	312.56	1,900.0	0.9	-0.9	-0.7	2.00	2.00	0.00
2,000.0	3.70	312.56	1,999.9	4.0	-4.4	-3.3	2.00	2.00	0.00
2,100.0	5.70	312.56	2,099.5	9.6	-10.4	-7.8	2.00	2.00	0.00
2,200.0	7.70	312.56	2,198.8	17.5	-19.0	-14.3	2.00	2.00	0.00
2,300.0	9.70	312.56	2,297.7	27.7	-30.2	-22.6	2.00	2.00	0.00
2,400.0	11.70	312.56	2,395.9	40.3	-43.8	-32.9	2.00	2.00	0.00
2,500.0	13.70	312.56	2,493.5	55.1	-60.0	-45.0	2.00	2.00	0.00
2,600.0	15.70	312.56	2,590.2	72.3	-78.7	-59.0	2.00	2.00	0.00
2,666.8	17.04	312.56	2,654.3	85.0	-92.6	-69.4	2.00	2.00	0.00
2,700.0	17.04	312.56	2,686.0	91.6	-99.8	-74.8	0.00	0.00	0.00
2,800.0	17.04	312.56	2,781.7	111.4	-121.3	-91.0	0.00	0.00	0.00
2,900.0	17.04	312.56	2,877.3	131.2	-142.9	-107.2	0.00	0.00	0.00
3,000.0	17.04	312.56	2,972.9	151.1	-164.5	-123.4	0.00	0.00	0.00
3,100.0	17.04	312.56	3,068.5	170.9	-186.1	-139.5	0.00	0.00	0.00
3,200.0	17.04	312.56	3,164.1	190.7	-207.6	-155.7	0.00	0.00	0.00
3,300.0	17.04	312.56	3,259.7	210.5	-229.2	-171.9	0.00	0.00	0.00
3,400.0	17.04	312.56	3,355.3	230.3	-250.8	-188.1	0.00	0.00	0.00
3,500.0	17.04	312.56	3,450.9	250.1	-272.4	-204.3	0.00	0.00	0.00
3,600.0	17.04	312.56	3,546.6	270.0	-294.0	-220.5	0.00	0.00	0.00
3,700.0	17.04	312.56	3,642.2	289.8	-315.5	-236.7	0.00	0.00	0.00
3,800.0	17.04	312.56	3,737.8	309.6	-337.1	-252.8	0.00	0.00	0.00
3,900.0	17.04	312.56	3,833.4	329.4	-358.7	-269.0	0.00	0.00	0.00
4,000.0	17.04	312.56	3,929.0	349.2	-380.3	-285.2	0.00	0.00	0.00
4,100.0	17.04	312.56	4,024.6	369.0	-401.9	-301.4	0.00	0.00	0.00
4,200.0	17.04	312.56	4,120.2	388.8	-423.4	-317.6	0.00	0.00	0.00
4,300.0	17.04	312.56	4,215.8	408.7	-445.0	-333.8	0.00	0.00	0.00
4,300.0	17.04	312.56	4,215.8	408.7	-445.0	-333.8	0.00	0.00	0.00
4,400.0	17.04	312.56	4,407.1	420.3	-488.2	-366.1	0.00	0.00	0.00
4,600.0	17.04	312.56	4,502.7	468.1	-400.2	-382.3	0.00	0.00	0.00
4,700.0	17.04	312.56	4,598.3	487.9	-531.3	-398.5	0.00	0.00	0.00
			4,693.9		-552.9	-414.7			
4,800.0	17.04 17.04	312.56		507.7 527.6			0.00	0.00	0.00
4,900.0 5,000.0	17.04 17.04	312.56	4,789.5	527.6 547.4	-574.5	-430.9	0.00	0.00	0.00
· · · · ·	17.04	312.56	4,885.1	547.4	-596.1	-447.0	0.00	0.00	0.00
5,100.0	17.04	312.56	4,980.7	567.2	-617.7	-463.2	0.00	0.00	0.00

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Data	abase:	PEDM	Local Co-ordinate Reference:	Well #215H
Com	npany:	Midland	TVD Reference:	kb=25' @ 3266.0usft
Proje	ect:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25' @ 3266.0usft
Site:	:	Rattlesnake 28 Fed Com	North Reference:	Grid
Well:	:	#215H	Survey Calculation Method:	Minimum Curvature
Well	bore:	ОН		
Desi	ign:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.		312.56	5,076.3	587.0	-639.2	-479.4	0.00	0.00	0.00
5,300.	0 17.04	312.56	5,172.0	606.8	-660.8	-495.6	0.00	0.00	0.00
5,400.		312.56	5,267.6	626.6	-682.4	-511.8	0.00	0.00	0.00
5,500.0		312.56	5,363.2	646.5	-704.0	-528.0	0.00	0.00	0.00
5,600.		312.56	5,458.8	666.3	-725.5	-544.1	0.00	0.00	0.00
5,700.		312.56	5,554.4	686.1	-747.1	-560.3	0.00	0.00	0.00
5,700.	0 17.04	512.50	0,004.4		-/+/.1	-500.5		0.00	
5,800.		312.56	5,650.0	705.9	-768.7	-576.5	0.00	0.00	0.00
5,900.		312.56	5,745.6	725.7	-790.3	-592.7	0.00	0.00	0.00
6,000.	0 17.04	312.56	5,841.2	745.5	-811.9	-608.9	0.00	0.00	0.00
6,100.	0 17.04	312.56	5,936.9	765.4	-833.4	-625.1	0.00	0.00	0.00
6,200.	0 17.04	312.56	6,032.5	785.2	-855.0	-641.2	0.00	0.00	0.00
6,300.	0 17.04	312.56	6,128.1	805.0	-876.6	-657.4	0.00	0.00	0.00
6,400.		312.56	6,223.7	824.8	-898.2	-673.6	0.00	0.00	0.00
6,500.0		312.56	6,319.3	844.6	-090.2 -919.8	-673.6	0.00	0.00	0.00
6,600.0		312.56	6,414.9	864.4	-919.8 -941.3	-009.0 -706.0	0.00	0.00	0.00
6,700.0		312.56	6,414.9 6,510.5	864.4 884.3	-941.3 -962.9	-706.0 -722.2	0.00	0.00	0.00
0,700.									
6,800.		312.56	6,606.1	904.1	-984.5	-738.4	0.00	0.00	0.00
6,900.	0 17.04	312.56	6,701.8	923.9	-1,006.1	-754.5	0.00	0.00	0.00
6,971.	1 17.04	312.56	6,769.7	938.0	-1,021.4	-766.0	0.00	0.00	0.00
7,000.	0 16.46	312.56	6,797.4	943.6	-1,027.6	-770.6	2.00	-2.00	0.00
7,100.	0 14.46	312.56	6,893.8	961.6	-1,047.2	-785.4	2.00	-2.00	0.00
7 200	0 10.46	212 56	6 001 0	077.4	1 064 2	709.0		2.00	0.00
7,200.		312.56	6,991.0	977.4	-1,064.3	-798.2	2.00	-2.00	0.00
7,300.		312.56	7,089.0	990.8	-1,079.0	-809.2	2.00	-2.00	0.00
7,400.		312.56	7,187.7	1,001.9	-1,091.1	-818.3	2.00	-2.00	0.00
7,500.		312.56	7,286.8	1,010.7	-1,100.6	-825.4	2.00	-2.00	0.00
7,600.	0 4.46	312.56	7,386.4	1,017.1	-1,107.6	-830.7	2.00	-2.00	0.00
7,700.	0 2.46	312.56	7,486.2	1,021.2	-1,112.1	-834.0	2.00	-2.00	0.00
7,800.	0 0.46	312.56	7,586.1	1,022.9	-1,113.9	-835.4	2.00	-2.00	0.00
7,822.	9 0.00	0.00	7,609.0	1,023.0	-1,114.0	-835.5	2.00	-2.00	0.00
7,900.		0.00	7,686.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,000.		0.00	7,786.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,100.		0.00	7,886.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,200.		0.00	7,986.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,300.		0.00	8,086.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,400.		0.00	8,186.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,500.	0.00	0.00	8,286.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,600.	0.00	0.00	8,386.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,700.		0.00	8,486.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,800.		0.00	8,586.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
8,900.		0.00	8,686.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
9,000.		0.00	8,786.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
-									
9,100.		0.00	8,886.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
9,200.		0.00	8,986.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
9,300.		0.00	9,086.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
9,400.		0.00	9,186.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
9,500.	0.00	0.00	9,286.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
9,600.	0.00	0.00	9,386.1	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
9,701.4		0.00	9,487.5	1,023.0	-1,114.0	-835.5	0.00	0.00	0.00
9,701.4		180.00	9,511.1	1,023.0	-1,114.0	-834.9	12.00	12.00	0.00
9,720.		180.00	9,536.1	1,022.4	-1,114.0	-833.0	12.00	12.00	0.00
9,775.		180.00	9,560.8	1,020.3	-1,114.0	-829.9	12.00	12.00	0.00
9,800.		180.00	9,585.4	1,012.8	-1,114.0	-825.4	12.00	12.00	0.00
9,825.	0 14.84	180.00	9,609.8	1,007.1	-1,114.0	-819.8	12.00	12.00	0.00
9,850.	0 17.84	180.00	9,633.7	1,000.0	-1,114.0	-812.8	12.00	12.00	0.00

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COMPASS 5000.16 Build 100

.



	tabase:	PEDM	Local Co-ordinate Reference:	Well #215H
Co	mpany:	Midland	TVD Reference:	kb=25' @ 3266.0usft
Pro	oject:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25' @ 3266.0usft
Site	e:	Rattlesnake 28 Fed Com	North Reference:	Grid
We	ell:	#215H	Survey Calculation Method:	Minimum Curvature
We	ellbore:	OH		
Des	sign:	Plan #0.1		

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)
9,875.0	20.84	180.00	9,657.3	991.8	-1,114.0	-804.6	12.00	12.00	0.00
9,900.0	23.84	180.00	9,680.5	982.3	-1,114.0	-795.2	12.00	12.00	0.00
9,921.8	26.46	180.00	9,700.2	973.0	-1,114.0	-786.1	12.00	12.00	0.00
9,925.0	26.84	179.99	9,703.0	971.6	-1,114.0	-784.7	12.00	12.00	-0.25
9,950.0	29.84	179.94	9,725.0	959.7	-1,114.0	-773.0	12.00	12.00	-0.22
9,975.0	32.84	179.89	9,746.4	946.7	-1,114.0	-760.1	12.00	12.00	-0.18
10,000.0	35.84	179.85	9,767.0	932.6	-1,113.9	-746.2	12.00	12.00	-0.16
10,025.0	38.84	179.82	9.786.9	917.4	-1,113.9	-731.2	12.00	12.00	-0.13
10,050.0	41.84	179.79	9,806.0	901.3	-1,113.8	-715.3	12.00	12.00	-0.12
10,075.0	44.84	179.76	9,824.1	884.1	-1,113.8	-698.3	12.00	12.00	-0.11
10,100.0	47.84	179.74	9,841.4	866.0	-1,113.7	-680.5	12.00	12.00	-0.09
10,125.0	50.84	179.72	9,857.7	847.1	-1,113.6	-661.8	12.00	12.00	-0.09
10,150.0	53.84	179.70	9,873.0	827.3	-1,113.5	-642.3	12.00	12.00	-0.08
10,175.0	56.84	179.68	9,887.2	806.7	-1,113.4	-622.0	12.00	12.00	-0.07
10,200.0	59.84	179.66	9,900.3	785.4	-1,113.3	-601.0	12.00	12.00	-0.07
10,225.0	62.84	179.65	9,912.3	763.5	-1,113.1	-579.3	12.00	12.00	-0.06
10,250.0	65.84	179.63	9,923.1	741.0	-1,113.0	-557.1	12.00	12.00	-0.06
10,275.0	68.84	179.62	9,932.7	717.9	-1,112.8	-534.3	12.00	12.00	-0.06
10,275.0	71.84	179.60	9,941.2	694.4	-1,112.0	-511.1	12.00	12.00	-0.06
10,300.0	71.84	179.59	9,941.2	670.4	-1,112.7	-487.5	12.00	12.00	-0.05
	74.84	179.58		646.1		-467.5	12.00	12.00	-0.05
10,350.0		179.56	9,954.2		-1,112.3	-403.5 -439.3	12.00	12.00	
10,375.0	80.84	179.50	9,958.9	621.6	-1,112.2	-439.3	12.00	12.00	-0.05
10,400.0	83.84	179.55	9,962.2	596.8	-1,112.0	-414.9	12.00	12.00	-0.05
10,425.0	86.84	179.54	9,964.2	571.9	-1,111.8	-390.3	12.00	12.00	-0.05
10,451.3	90.00	179.53	9,964.9	545.6	-1,111.6	-364.4	12.00	12.00	-0.05
10,500.0	90.00	179.53	9,964.9	496.9	-1,111.1	-316.3	0.00	0.00	0.00
10,600.0	90.00	179.53	9,965.0	396.9	-1,110.3	-217.7	0.00	0.00	0.00
40 700 0	00.00	470 50	0.005.0	2000.0	4 400 5	110.1		0.00	0.00
10,700.0	90.00	179.53	9,965.0	296.9	-1,109.5	-119.1	0.00	0.00	0.00
10,800.0	90.00	179.53	9,965.0	196.9	-1,108.7	-20.5	0.00	0.00	0.00
10,900.0	90.00	179.53	9,965.0	96.9	-1,107.8	78.2	0.00	0.00	0.00
11,000.0	90.00	179.53	9,965.0	-3.1	-1,107.0	176.8	0.00	0.00	0.00
11,100.0	90.00	179.53	9,965.0	-103.1	-1,106.2	275.4	0.00	0.00	0.00
11,200.0	90.00	179.53	9,965.0	-203.1	-1,105.4	374.1	0.00	0.00	0.00
11,242.9	90.00	179.53	9,965.0	-246.0	-1,105.0	416.4	0.00	0.00	0.00
11,300.0	90.00	179.53	9,965.0	-303.1	-1,104.5	472.7	0.00	0.00	0.00
11,400.0	90.00	179.53	9,965.0	-403.1	-1,103.7	571.3	0.00	0.00	0.00
11,500.0	90.00	179.53	9,965.0	-503.1	-1,102.9	669.9	0.00	0.00	0.00
11,600.0	90.00	179.53	9,965.0	-603.1	-1,102.1	768.6	0.00	0.00	0.00
11,700.0	90.00	179.53	9,965.0	-703.1	-1,101.3	867.2	0.00	0.00	0.00
11,800.0	90.00	179.54	9,965.0	-803.1	-1,100.4	965.8	0.00	0.00	0.00
11,900.0	90.00	179.54	9,965.0	-903.1	-1,099.6	1,064.5	0.00	0.00	0.00
12,000.0	90.00	179.54	9,965.0	-1,003.1	-1,098.8	1,163.1	0.00	0.00	0.00
12,100.0	90.00	179.54	9,965.0	-1,103.1	-1,098.0	1,261.7	0.00	0.00	0.00
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13,200.0	90.00	179.57	9,965.1	-2,203.0	-1,089.5	2.346.7	0.00	0.00	0.00

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Page 6

COMPASS 5000.16 Build 100

.



Databa	se:	PEDM	Local Co-ordinate Reference:	Well #215H
Compa	iny:	Midland	TVD Reference:	kb=25' @ 3266.0usft
Project	:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25' @ 3266.0usft
Site:		Rattlesnake 28 Fed Com	North Reference:	Grid
Well:		#215H	Survey Calculation Method:	Minimum Curvature
Wellbo	re:	ОН		
Design	:	Plan #0.1		

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)
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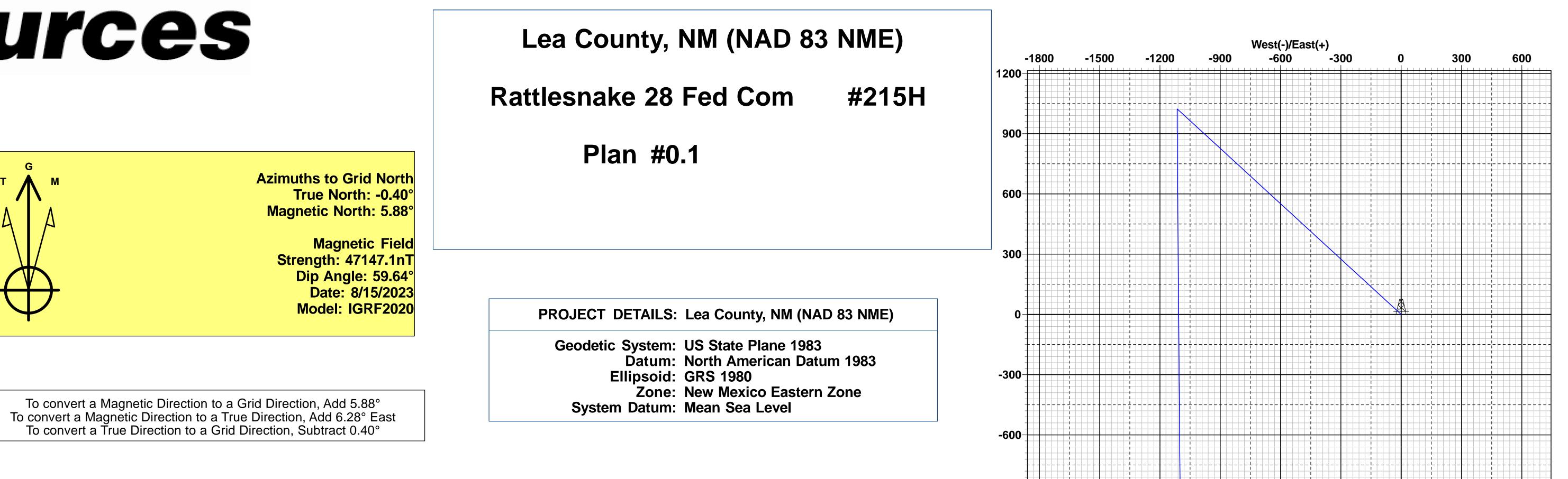
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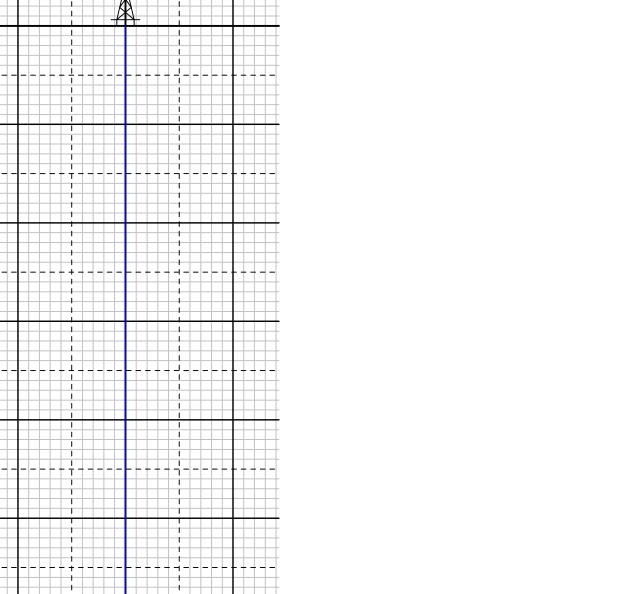


Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Lea County, N Rattlesnake 2 #215H OH Plan #0.1	•	NME)		TVD Refere MD Referen North Refer	ice:		3266.0usft 3266.0usft	
Design Targets Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Rattlesnake 28 Fe - plan hits target ce - Point		0.00	9,487.5	1,023.0	-1,114.0	372,411.00	774,021.00	32° 1' 17.816 N	103° 34' 57.165 W
FTP(Rattlesnake 28 Fe - plan hits target ce - Point		0.00	9,700.2	973.0	-1,114.0	372,361.00	774,021.00	32° 1' 17.321 N	103° 34' 57.169 W
FPP2(Rattlesnake 28 F - plan hits target ce - Point		0.00	9,965.0	-4,203.0	-1,075.0	367,185.00	774,060.00	32° 0' 26.099 N	103° 34' 57.134 W
FPP1(Rattlesnake 28 F - plan hits target ce - Point		0.00	9,965.0	-246.0	-1,105.0	371,142.00	774,030.00	32° 1' 5.258 N	103° 34' 57.163 W
PBHL(Rattlesnake 28 F - plan hits target ce - Point		0.00	9,965.0	-6,651.0	-1,057.0	364,737.00	774,078.00	32° 0' 1.874 N	103° 34' 57.122 W

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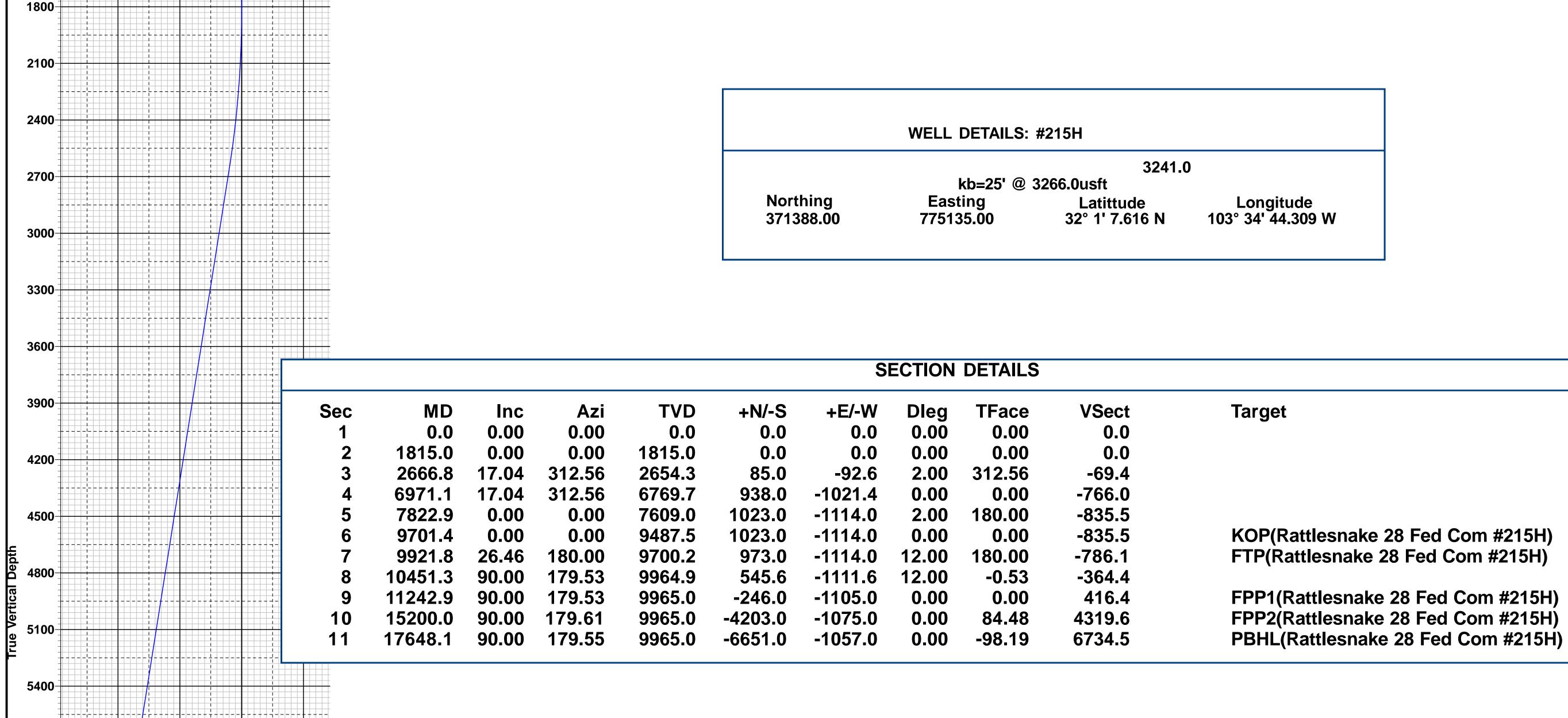
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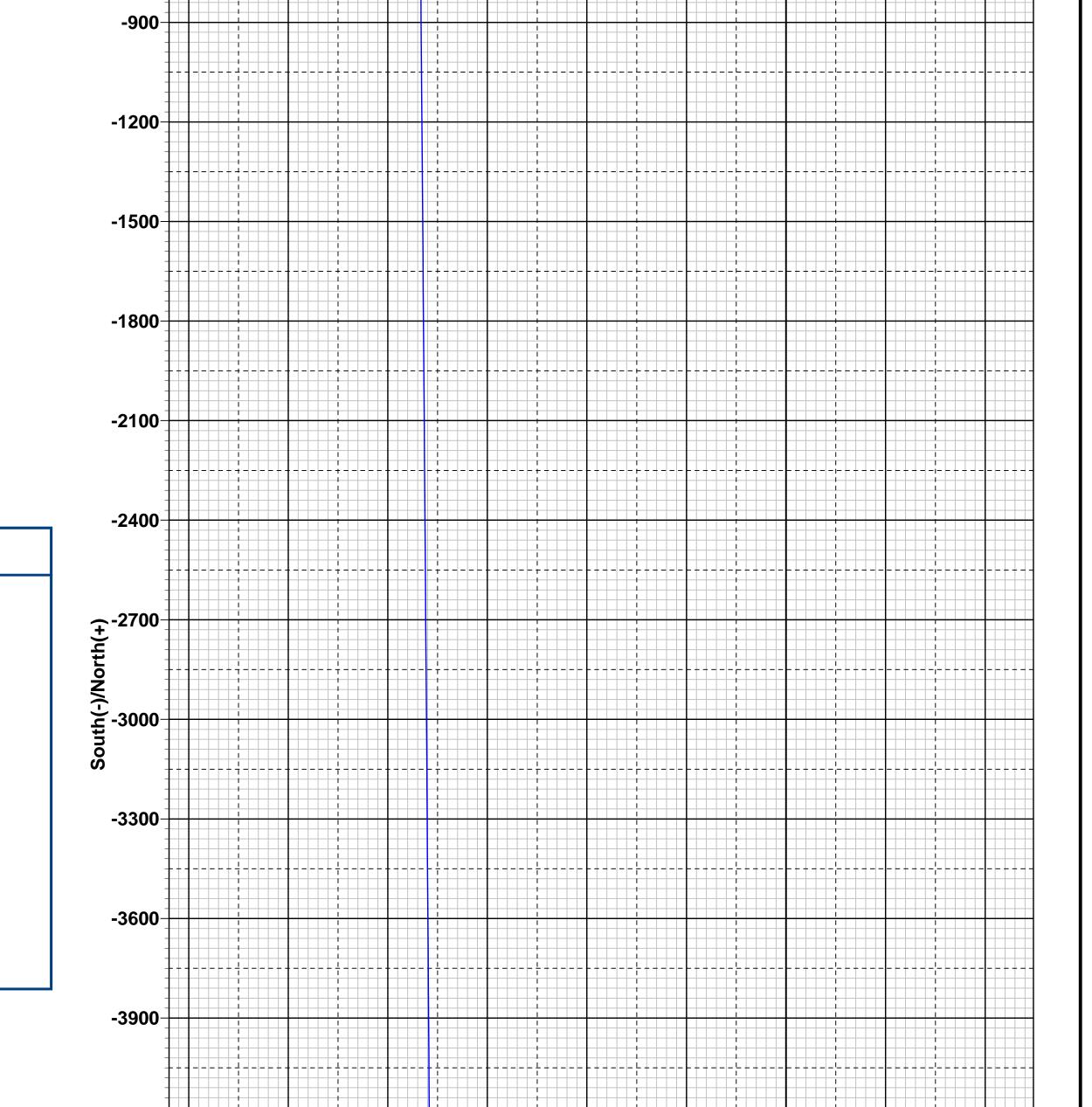
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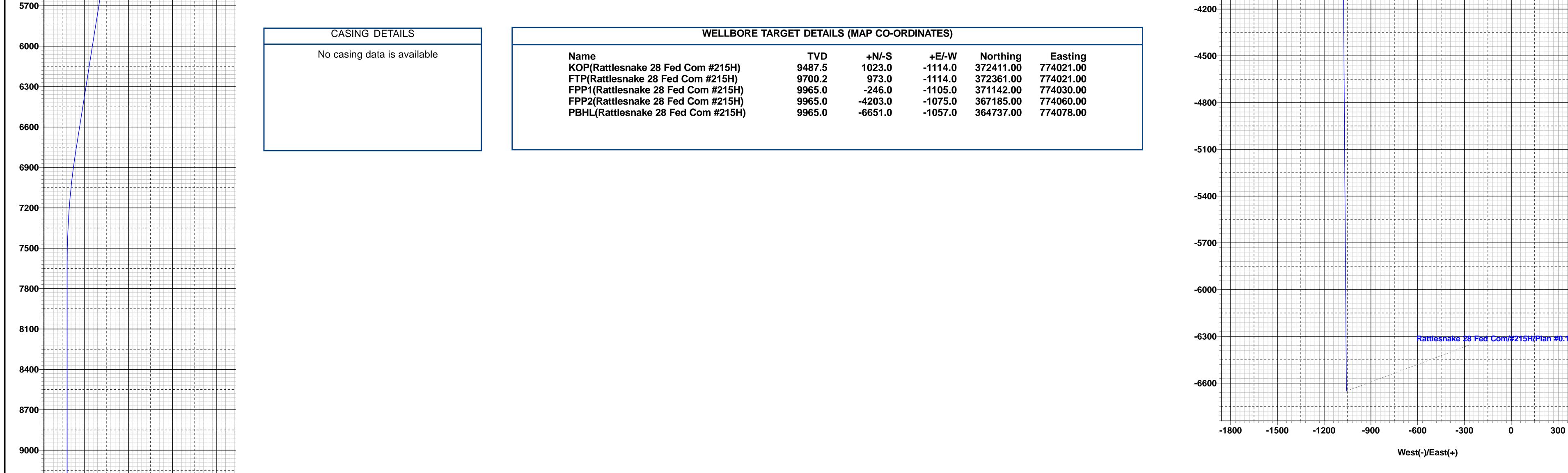
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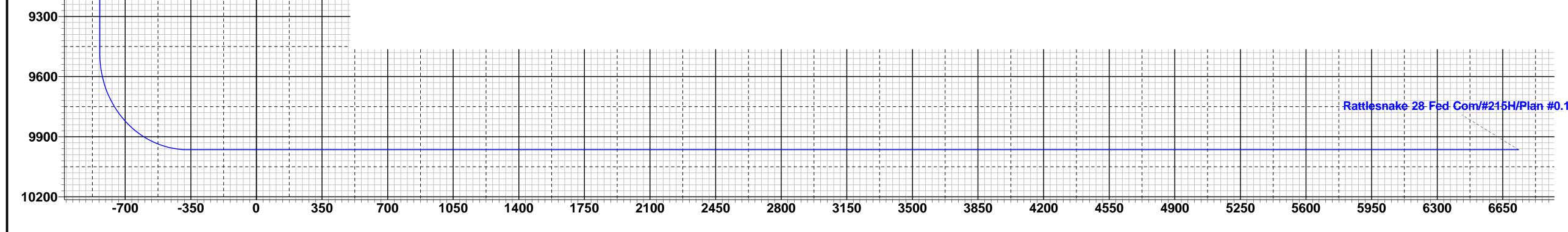
1200-

1500-



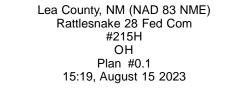






Vertical Section at 189.03°





- - - -

600

300

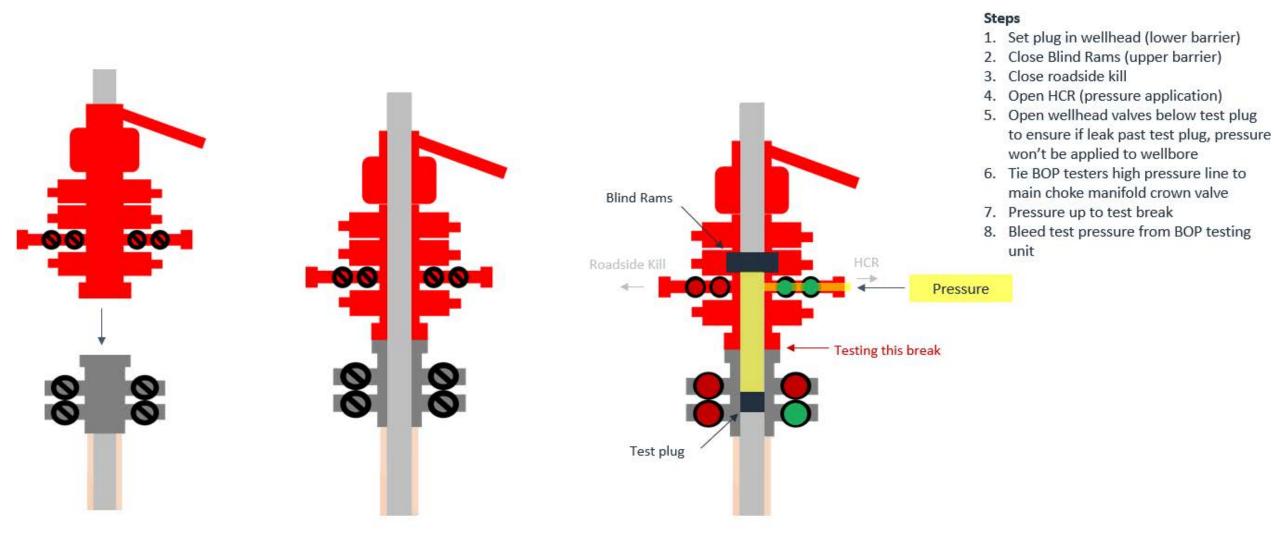


Break-test BOP & Offline Cementing:

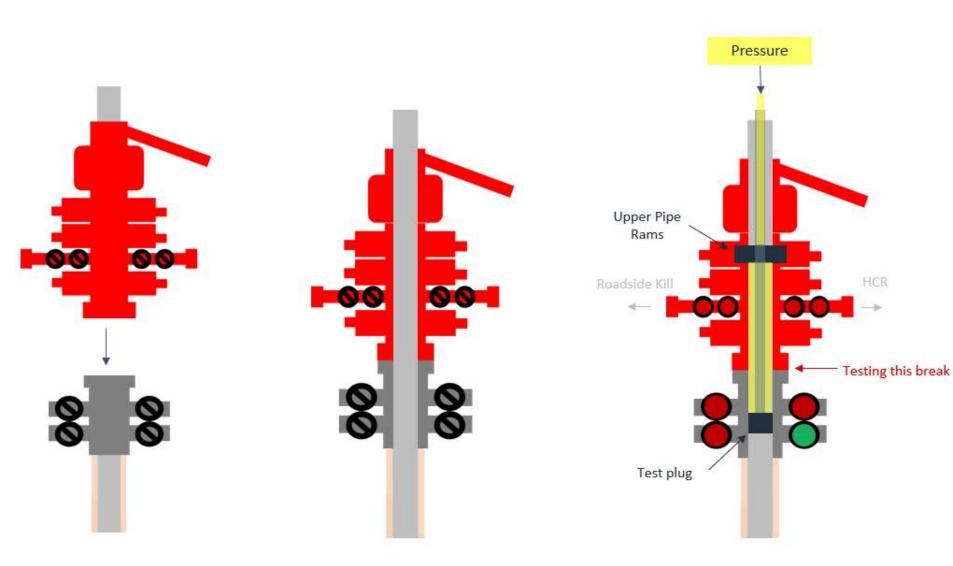
EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular **à** during each full BOPE test
 - Upper Pipe Rams **à** On trip ins where FIT required
 - Blind Rams **à** Every trip
 - Lower Pipe Rams à during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Break Test Diagram (HCR valve)



Break Test Diagram (Test Joint)



Steps

- 1. Set plug in with test joint wellhead (lower barrier)
- 2. Close Upper Pipe Rams (upper barrier)
- 3. Close roadside kill
- 4. Close HCR
- 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

Seog resources Offline Intermediate Cementing Procedure

Cement Program

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

Summarized Operational Procedure for Intermediate Casing

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

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Seog resources

Offline Intermediate Cementing Procedure

- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
- 9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 3.
- 10. Remove TA Plug from the casing.
- 11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
- 12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
- 13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
- 14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
- 15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
- 16. Remove offline cement tool.
- 17. Install night cap with pressure gauge for monitoring.
- 18. Test night cap to 5,000 psi for 10 min.

Example Well Control Plan Content

A. Well Control Component Table

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

Intermediate hole section, 5M requirement

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

B. Well Control Procedures

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

General Procedure While Circulating

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

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Seog resources

Offline Intermediate Cementing Procedure

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

General Procedure While Cementing

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

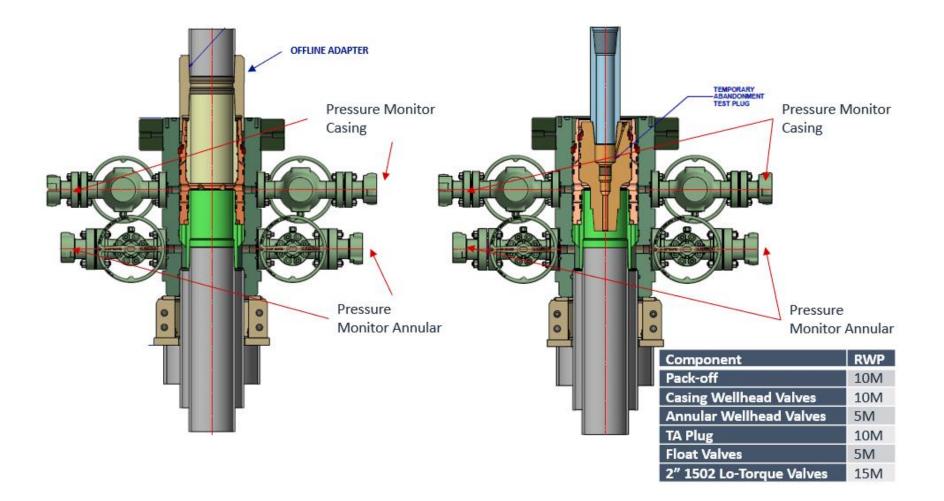
General Procedure After Cementing

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

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Seog resources Offline Intermediate Cementing Procedure

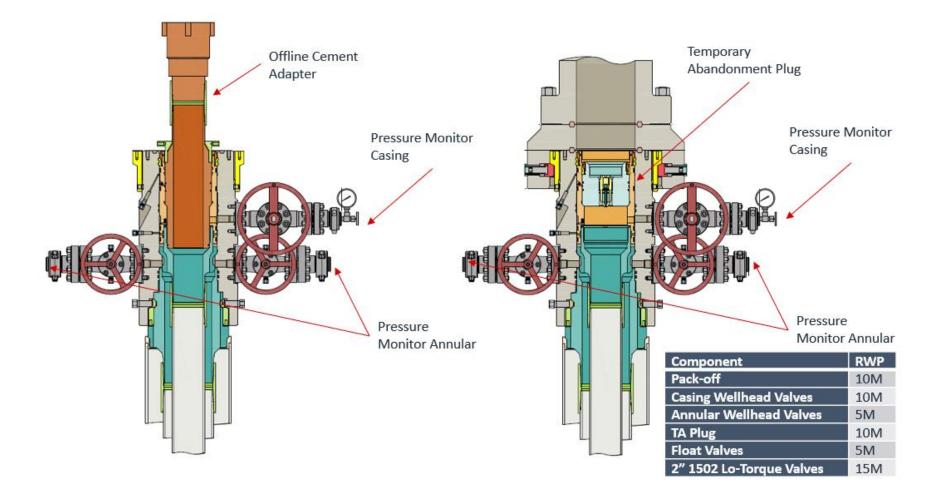
Figure 1: Cameron TA Plug and Offline Adapter Schematic



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Offline Intermediate Cementing Procedure



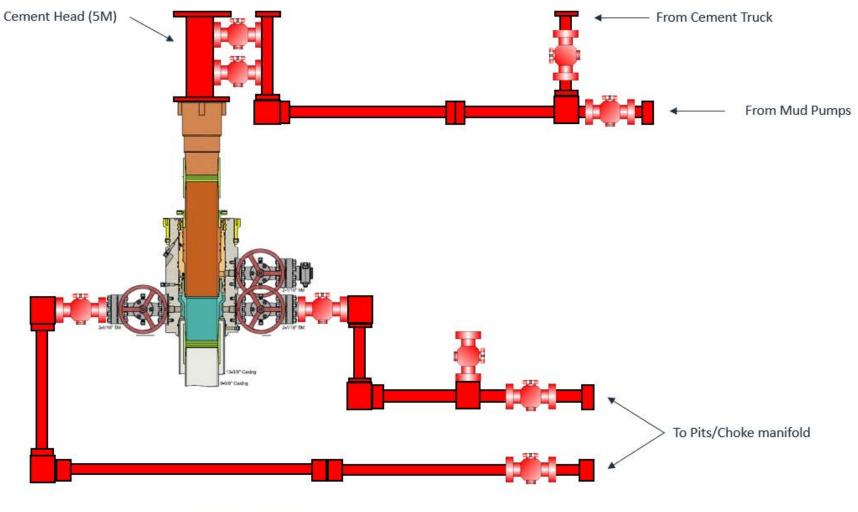


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Seog resources Offline Intermediate Cementing Procedure

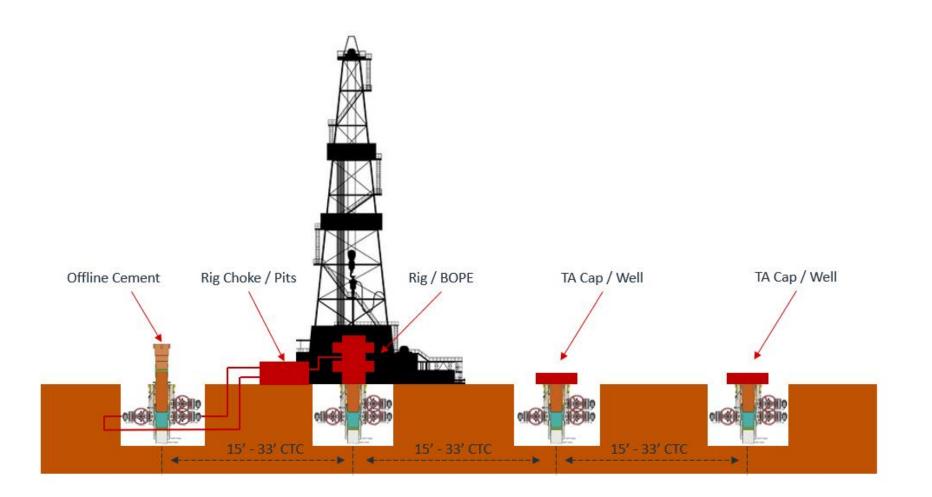




*** All Lines 10M rated working pressure

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Salt Section Annular Clearance Variance Request

Daniel Moose

Current Design (Salt Strings)

0.422" Annular clearance requirement

- Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.

- 12.25" Hole x 9.625"40# J55/HCK55 LTC Casing
 - 1.3125" Clearance to casing OD
 - 0.8125" Clearance to coupling OD
- 9.875" Hole x 8.75" 38.5# P110 Sprint-SF Casing
 - 0.5625" Clearance to casing OD
 - 0.433" Clearance to coupling OD

Annular Clearance Variance Request

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

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

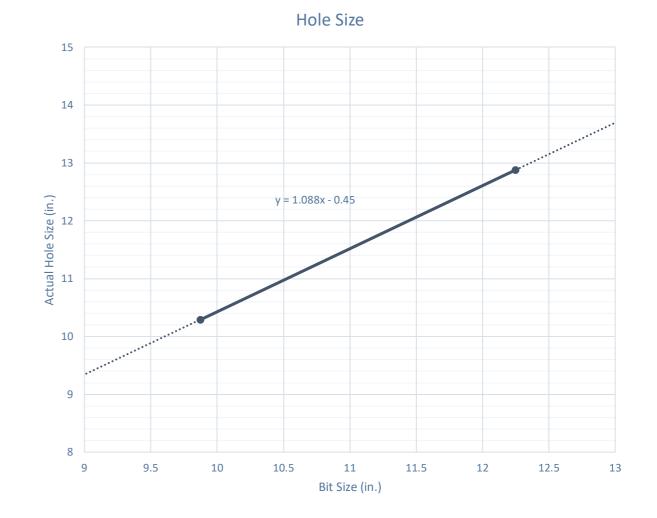
Volumetric Hole Size Calculation

Hole Size Calculations Off Cement Volumes

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

Average Hole Size

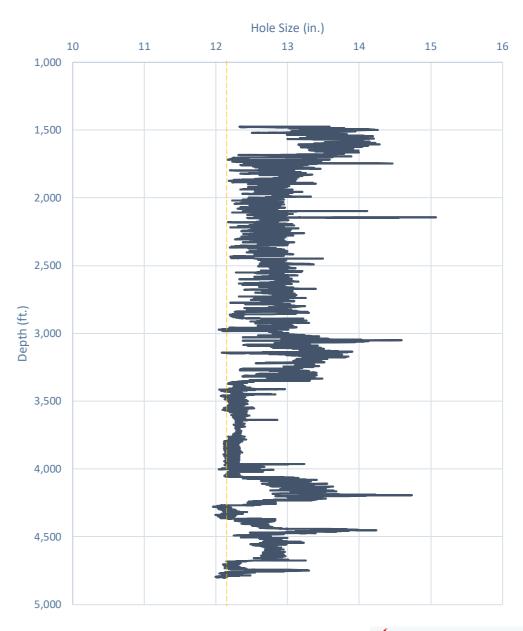
- 12.25" Hole
 - 12.88" Hole
 - 5.13% diameter increase
 - 10.52% area increase
 - 0.63" Average enlargement
 - 0.58" Median enlargement
 - 179 Well Count
- 9.875" Hole
 - 10.30" Hole
 - 4.24% diameter increase
 - 9.64% area increase
 - 0.42" Average enlargement
 - 0.46" Median enlargement
 - 11 Well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



Caliper Hole Size (12.25")

Average Hole Size

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



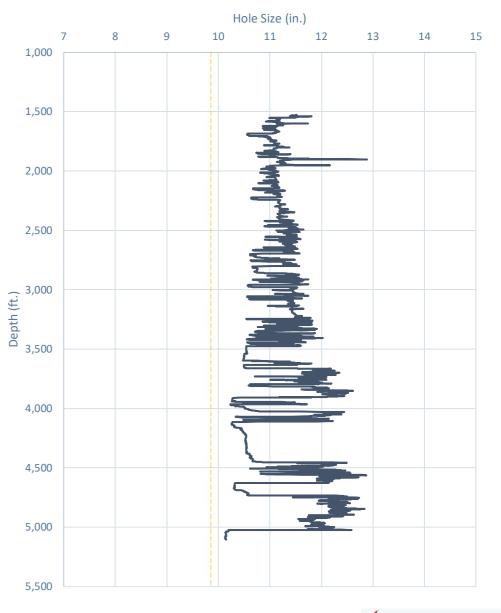
Modelo 10 Fed Com #501H

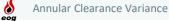
Whirling Wind 11 Fed Com #744H

Caliper Hole Size (9.875")

Average Hole Size

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





Design A

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

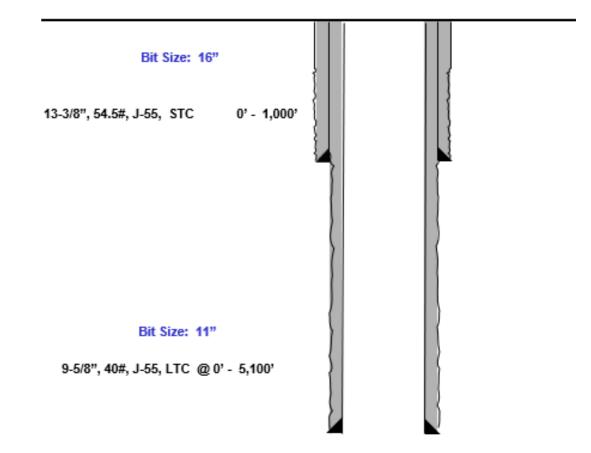
- 11" Bit + 0.52" Average hole enlargement = 11.52" Hole Size
 - 0.9475" Clearance to casing OD

$$=\frac{11.52 - 9.625}{2}$$
475" Clearance to

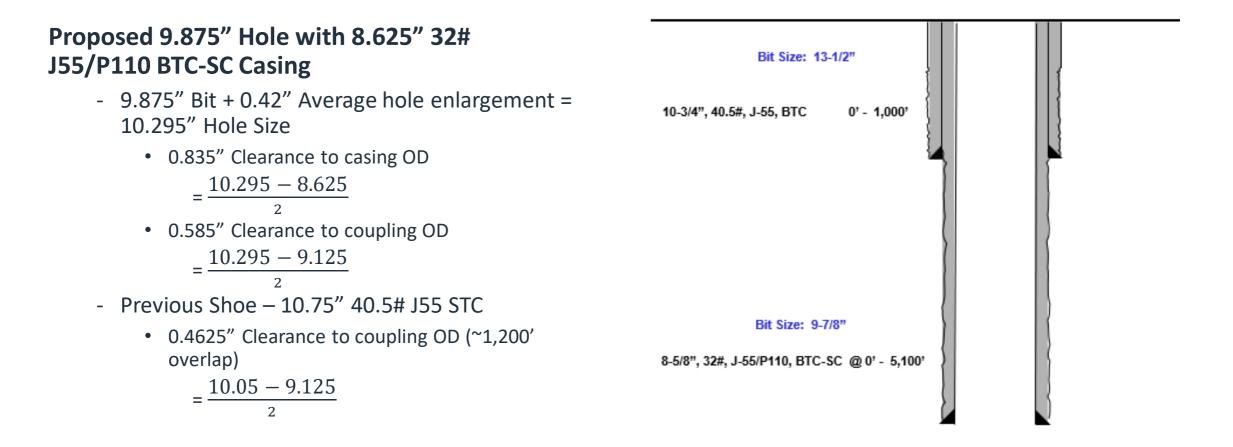
o coupling OD • 0.4 = 11.52 10.625

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

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



Design B





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Casing Spec Sheets

PERFORMANCE DATA

API LTC		
Technical	Data	Sheet

9.625 in 40.00 lbs/ft

K55 HC

Tubular Parameters

Size	9.625	in	Minimum Yield	55	ksi
Nominal Weight	40.00	lbs/ft	Minimum Tensile	95	ksi
Grade	K55 HC		Yield Load	629	kips
PE Weight	38.94	lbs/ft	Tensile Load	1088	kips
Wall Thickness	0.395	in	Min. Internal Yield Pressure	3,950	psi
Nominal ID	8.835	in	Collapse Pressure	3600	psi
Drift Diameter	8.750	in			·
Nom. Pipe Body Area	11.454	in²			

Connection Parameters

10.625	in
10.500	in
8	tpi
3.50	turns
4.750	in
3,950	psi
	10.500 8 3.50 4.750

Pipe Body and API Connections Performance Data

13.375	54.50/0.380	J55

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USC 💽 Metric

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Mechanical Properties	Ptpe	BTC	LTC	STC	
Minimum Yield Strength	55,000	-	-	-	psi
Maximum Yield Strength	80,000	-	-	-	psi
Minimum Tensile Strength	75,000	-	-	-	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.
Standard Drift	12.459	12.459	-	12.459	in.
Alternate Drift	-	-	-	-	in.
Nominal Linear Weight, T&C	54.50	-	-	-	lbs/ft
Plain End Weight	52.79	-	-	-	lbs/ft
Performance	Ptpe	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	-	514	1000 lbs
Reference Length	-	11,125	-	6,290	ft
Make-Up Data	Ptpe	BTC	LTC	STC	
Make-Up Loss	-	4.81	-	3.50	in.
Minimum Make-Up Torque	-	-	-	3,860	ft-lbs
Maximum Make-Up Torque	-	-	-	6,430	ft-lbs

Casing Spec Sheets

Pipe Body and API Connections Performance Data

10.750 40.50/0.350 J55					P
New Search »					« Back to Previous
					USC 🔵 Me
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Mechantcal Properties	Pipe	BTC	LTC	STC	
Minimum Yield Strength	55,000	-	-	-	psi
Maximum Yield Strength	80,000	-	-		psi
Minimum Tensile Strength	75,000	-	-		psi
Dimensions	Pipe	втс	LTC	STC	
Outside Diameter	10.750	11.750	-	11.750	in.
Wall Thickness	0.350				in.
Inside Diameter	10.050	10.050		10.050	in.
Standard Drift	9.894	9.894	-	9.894	in.
Alternate Drift	-	-	-	-	in.
Nominal Linear Weight, T&C	40.50	-	-		lbs/ft
Plain End Weight	38.91	-	-		lbs/ft
Performance	Ptpe	втс	LTC	STC	
Minimum Collapse Pressure	1,580	1,580	-	1,580	psi
Minimum Internal Yield Pressure	3,130	3,130	-	3,130	psi
Minimum Pipe Body Yield Strength	629.00	-	-	-	1000 lbs
Joint Strength	-	700	-	420	1000 lbs
Reference Length	-	11,522	-	6,915	ft
Make-Up Data	Ptpe	втс	LTC	STC	
Make-Up Loss		4.81		3.50	in.
Minimum Make-Up Torque		-	-	3,150	ft-lbs
Maximum Make-Up Torque	-	-	-	5,250	ft-lbs

				AP	I 5CT, 1	0th Ed. Co	nnect	ion Data	Shee
8.625 N	WEIGHT (II ominal: ain End:	b/ft) 32.00 31.13	WALL (in 0.352		ADE 55	* API DRIF 1 7.796	「 (in)	RBW 87.	
Materi	ial Properti	ies (PE)			F	Pipe Body [Data (F	°E)	
	Pipe					Geom	etry		
Minimum Yield S	Strength:	55	ksi	Nomir				7.92 ir	
Maximum Yield	Strength:	80	ksi	Nomir	al Area	:		9.149 ir	
Minimum Tensile	-	75	ksi	*Spec	ial/Alt. D			7.875 ir	nch
	Coupling					Perform		500.1	
Minimum Yield S	Ũ		ksi		-	eld Strength		503 k	
Maximum Yield	Ű		ksi		Se Res	istance:		2,530 p	
Minimum Tensile	e Strength:	75	ksi		storical)			3,930 p	osi
	Connection				AF	PI Connecti	on To	rque	
	C Performa			STC Torque (ft-lbs)					
STC Internal Pre	essure:	3,930	psi	Min:	2,793	Opti:	3,724	Max:	4,65
STC Joint Stren	gth:	372	kips						
LT	C Performa	ance		LTC Torque (ft-lbs)					
LTC Internal Pre	essure:	3,930	psi	Min:	3,130	Opti:	4,174	Max:	5,21
LTC Joint Streng			kips						
SC-BTC Perfor	mance - C	pig OD =	9.125"		1	BTC Torqu	e (ft-lb	s)	
BTC Internal Pre	essure:	3,930	psi	follo	w API gu	idelines regard	ding pos	itional mal	ke up
BTC Joint Stren	gth:	503	kips						
	*	'Alt. Drift will	be used unles	s API Drift	is specifie	d on order.			
**If above	API connect	ions do not	suit your nee 100% of pi			n connections	are ava	iilable up t	0
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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	258372
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/25/2023

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Action 258372