Pa	ge	1	of	44

.

	UNITED STATES PARTMENT OF THE INTERIOR REAU OF LAND MANAGEMENT	Ex 5 Lease Serial No	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No. NMNM110838			
Do not use this	NOTICES AND REPORTS ON W form for proposals to drill or to Use Form 3160-3 (APD) for suc	6. If Indian, Allottee				
SUBMIT IN	ITRIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agre	eement, Name and/or No.		
1. Type of Well	Well Other		8. Well Name and No	ICY 7 FED/758H		
2. Name of Operator EOG RESOUR	RCES INCORPORATED		9. API Well No.	30-025-51857		
	BBY 2, HOUSTON, TX 77(3b. Phone No. (713) 651-70		10. Field and Pool or WC-025 G-08 S2	Exploratory Area 53235G; LOWER BONE SPRING		
4. Location of Well <i>(Footage, Sec., T.</i> SEC 7/T25S/R33E/NMP	,R.,M., or Survey Description)		11. Country or Parish LEA/NM	, State		
12. CH	ECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE C	DF NOTICE, REPORT OR OT	HER DATA		
TYPE OF SUBMISSION		TYPF	OF ACTION			
✓ Notice of Intent	Acidize Deep Alter Casing Hydr Casing Repair New	Production (Start/Resume) Reclamation Recomplete	Water Shut-Off Well Integrity Other			
Subsequent Report		Construction and Abandon	Temporarily Abandon	Other		
Final Abandonment Notice	Convert to Injection Plug	Back	Water Disposal			
the Bond under which the work w completion of the involved operat completed. Final Abandonment N is ready for final inspection.) EOG respectfully requests an the following changes:	hally or recomplete horizontally, give subsurfa rill be perfonned or provide the Bond No. on f tions. If the operation results in a multiple con lotices must be filed only after all requirement in amendment to our approved APD for th	ile with BLM/BIA. F apletion or recomplet s, including reclamat	Required subsequent reports mittion in a new interval, a Form	ust be filed within 30 days following 8160-4 must be filed once testing has been		
Icy 7 Fed 511H (FKA 758H) Change name from Icy 7 Fed						
Change SHL from T-25-S, R	-33-E, Sec 18, 201' FNL, 1359' FWL, Lea 35' FSL, 625' FEL, Lea Co., N.M.	Co., NM,				
•	-33-E, Sec 19, 2540' FNL, 1650' FWL, Le 539' FNL, 1485' FEL, Lea Co., N.M.	a Co., NM,				
Continued on page 3 addition		1				
14. I hereby certify that the foregoing CRAIG RICHARDSON / Ph: (432	is true and correct. Name (<i>Printed/Typed</i>)) 686-3600	Regulatory S	Specialist			
Signature		Date	08/24/2	2023		
	THE SPACE FOR FED	ERAL OR STA	TE OFICE USE			
Approved by						
CHRISTOPHER WALLS / Ph: (5	75) 234-2234 / Approved	Title Petrole	eum Engineer	08/24/2023 Date		
	iched. Approval of this notice does not warran r equitable title to those rights in the subject le onduct operations thereon.		LSBAD			
	43 U.S.C Section 1212, make it a crime for an ments or representations as to any matter with		and willfully to make to any d	epartment or agency of the United States		

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

Change target formation to Second Bone Spring Sand.

Update casing and cement program to current design.

Update the Pool as reflected in the C-102.

Location of Well

0. SHL: TR P / 876 FSL / 372 FEL / TWSP: 255 / RANGE: 33E / SECTION: 7 / LAT: 32.1402661 / LONG: -103.6040385 (TVD: 0 feet, MD: 0 feet) PPP: TR A / 100 FNL / 330 FEL / TWSP: 255 / RANGE: 33E / SECTION: 18 / LAT: 32.1375832 / LONG: -103.603904 (TVD: 13296 feet, MD: 13375 feet) BHL: TR H / 2539 FNL / 330 FEL / TWSP: 255 / RANGE: 33E / SECTION: 19 / LAT: 32.11634 / LONG: -103.6039085 (TVD: 13561 feet, MD: 21196 feet)

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6120 DISTRICT II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fas: (575) 748-9720 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Fas: (505) 334-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fc., NM 87505 Phone: (505) 476-3460 Fas: (505) 476-3462

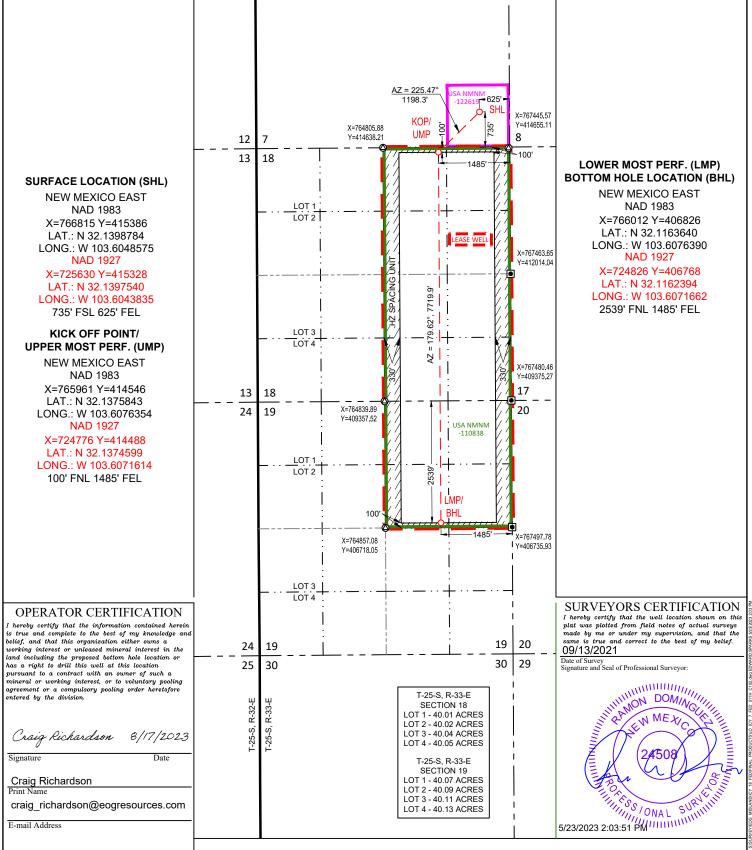
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

А	PI Number		Pool Code			Pool Name				Pool Name			
3	80-025-51	857	97903	i		WC-025 G-08 S253235G; Lwr Bone Spring				9			
Property Co	ode				Prop	erty Name			Well Nur	nber			
326335					IC	7 7 FEI	C		511H				
OGRID N	о.				Ope	ator Name			Elevati	on			
7377			EOG RESOURCES, INC. 3482'					82'					
	Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet fr	om the	North/South line	Feet from the	East/West line	County			
Р	7	25-S 33-E		-	73	5'	SOUTH	625'	EAST	LEA			
	Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Range	Lot Idn	Feet fr	om the	North/South line	Feet from the	East/West line	County			
G	19	25-S	33-E	-	25	39'	NORTH	1485'	EAST	LEA			
Dedicated Acres	Joint or	Infill	Consolidated Co	nd Code Order No.									
480.00					LEASE WELL								

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



Revised Permit Information 05/10/2023:

Well Name: Icy 7 Fed 511H Location: SHL: 735' FSL & 625' FEL, Section 18, T-25-S, R-33-E, Lea Co., N.M. BHL: 2539' FNL & 1485' FEL, Section 19, T-25-S, R-33-E, Lea Co., N.M.

Casing Program A:

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
16"	0	1,110	0	1,110	13-3/8"	54.5#	J-55	STC
11"	0	4,807	0	4,800	9-5/8"	40#	J-55	LTC
6-3/4"	0	17,392	0	9,818	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	5	•	
Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,110' 13-3/8''	340	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 @ 910')
4,800' 9-5/8''	460	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 @ 3,840')
17,392' 5-1/2''	280	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,300')
	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 @ 9350')

Cementing Program:

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 - 1,110'	Fresh - Gel	8.6-8.8	28-34	N/c
1,110'-4,800'	Brine	8.6-8.8	28-34	N/c
4,800' - 17,392'	Oil Base	8.8-9.5	58-68	N/c - 6



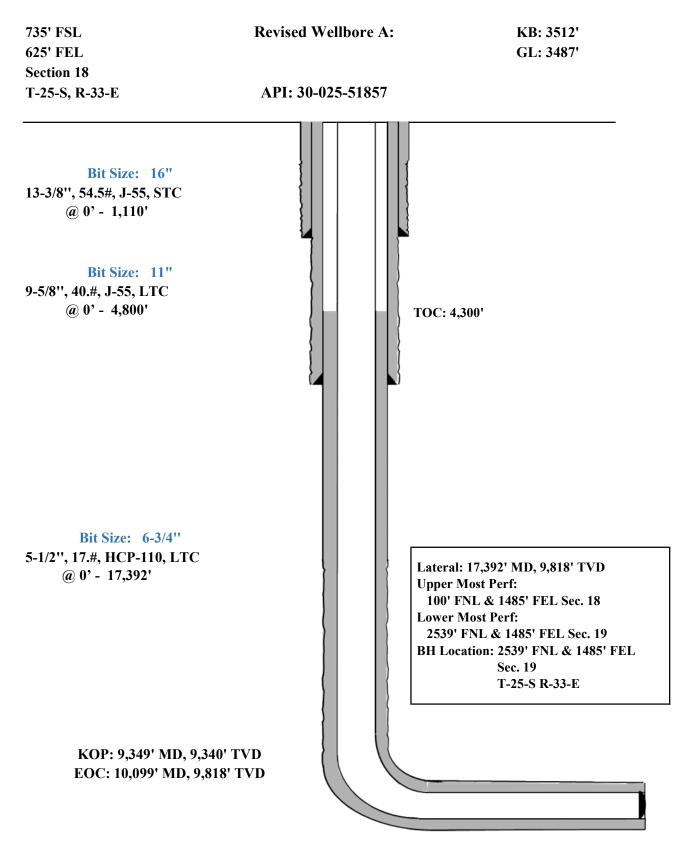
TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

19.15.16.10 Casing AND TUBING 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.

Seog resources Icy 7 Fed 511H



Revised Permit Information 05/10/2023:

Well Name: Icy 7 Fed 511H

Location: SHL: 735' FSL & 625' FEL, Section 18, T-25-S, R-33-E, Lea Co., N.M. BHL: 2539' FNL & 1485' FEL, Section 19, T-25-S, R-33-E, Lea Co., N.M.

Casing Program B:

Hole	Interv	al MD	Interval TVD		Csg			
Size	From (ft)	To (ft)	From (ft)	To (ft)	OD	Weight	Grade	Conn
13-1/2"	0	1,110	0	1,110	10-3/4"	40.5#	J-55	STC
9-7/8"	0	4,009	0	4,000	8-5/8"	32#	J-55	BTC-SC
9-7/8"	4,009	4,809	4,000	4,800	8-5/8"	32#	P110-EC	BTC-SC
6-3/4"	0	17,392	0	9,818	5-1/2"	17#	HCP-110	LTC

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,110' 10-3/4''	370	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 @ 910')
4,800' 8-5/8''	320	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 @ 3,840')
17,392' _{5-1/2''}	510	10.5	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,300')
	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 @ 9350')



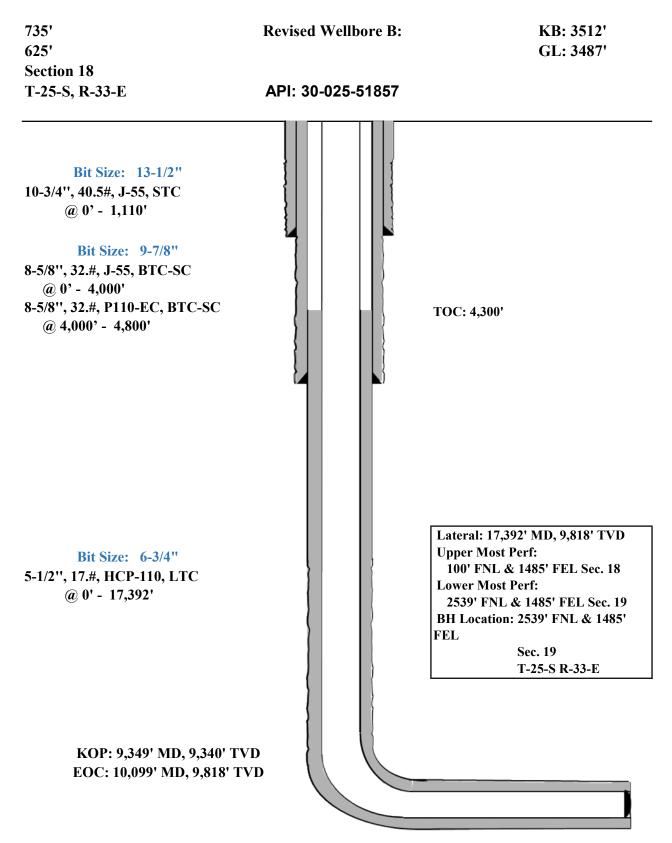
Variance is requested to waive the centralizer requirements for the 8-5/8" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

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.

Seog resources Icy 7 Fed 511H



GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler Tamarisk Anhydrite Top of Salt	1,006' 1,084' 1,353'
Base of Salt	4,698'
Lamar	4,937'
Bell Canyon	4,963'
Cherry Canyon	5,941'
Brushy Canyon	7,521'
Bone Spring Lime	9,067'
Leonard (Avalon) Shale	9,165'
1st Bone Spring Sand	10,064'
2nd Bone Spring Shale	10,262'
2nd Bone Spring Sand	10,629'
3rd Bone Spring Carb	11,139'
3rd Bone Spring Sand	11,777'
TD	9,818'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400'	Fresh Water
Bell Canyon	4,963'	Oil
Cherry Canyon	5,941'	Oil
Brushy Canyon	7,521'	Oil
Leonard (Avalon) Shale	9,165'	Oil
1st Bone Spring Sand	10,064'	Oil
2nd Bone Spring Shale	10,262'	Oil
2nd Bone Spring Sand	10,629'	Oil



Midland

Lea County, NM (NAD 83 NME) Icy 7 Fed #511H

OH

Plan: Plan #0.1 RT

Standard Planning Report

24 May, 2023



Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Lea County, I Icy 7 Fed #511H OH Plan #0.1 RT	NM (NAD 83 NI	ME)	Local Co-ordin TVD Reference MD Reference: North Referenc Survey Calcula	e:	Well #511H kb=25' @ 3507.0u kb=25' @ 3507.0u Grid Minimum Curvatur	sft
Project	Lea County, N	M (NAD 83 NM	1E)				
Geo Datum:	US State Plane North American New Mexico Ea	Datum 1983		System Datum:		Mean Sea Level	
Site	Icy 7 Fed						
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	415,386.0 766,827.0 13-3/1	D usft Longitud		32° 8' 23.562 N 103° 36' 17.353 W
Well	#511H						
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:		5,386.00 usft 6,815.00 usft	Latitude: Longitude:	32° 8' 23.563 N 103° 36' 17.492 W
Position Uncertainty Grid Convergence:		0.0 usft 0.39 °	Wellhead Elev	vation:	usft	Ground Level:	3,482.0 usft
Wellbore	OH						
Magnetics	Model Na	me	Sample Date	Declination (°)	I	Dip Angle (°)	Field Strength (nT)
	IGF	RF2020	5/24/2023		6.33	59.75	47,238.22618487
Design	Plan #0.1 RT						
Audit Notes:							
Version:			Phase:	PLAN	Tie On Depth		
Vertical Section:		(u	rom (TVD) Isft)).0	+N/-S (usft) 0.0	+E/-W (usft) 0.0	Direct (°) 185.	
Plan Survey Tool Pro Depth From	Depth To	Date 5/24/2					
(usft)		Survey (Wellbo	-	Tool Name	Remar	ks	
1 0.0	18,367.1	Plan #0.1 RT (OH)	EOG MWD+IFR1			

Database:

North Reference:

Survey Calculation Method:

Company:	Midland
Project:	Lea County, NM (NAD 83 NME)
Site:	Icy 7 Fed
Well:	#511H
Wellbore:	OH
Design:	Plan #0.1 RT

kb=25' @ 3507.0usft Grid Minimum Curvature

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,353.0	0.00	0.00	1,353.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,942.2	11.78	227.23	1,938.0	-41.0	-44.3	2.00	2.00	0.00	227.23	
7,047.7	11.78	227.23	6,936.0	-749.0	-809.7	0.00	0.00	0.00	0.00	
7,636.9	0.00	0.00	7,521.0	-790.0	-854.0	2.00	-2.00	0.00	180.00	
10,324.4	0.00	0.00	10,208.5	-790.0	-854.0	0.00	0.00	0.00	0.00	KOP(Icy 7 Fed #511H
10,544.8	26.46	180.00	10,421.2	-840.0	-854.0	12.00	12.00	81.65	180.00	FTP(Icy 7 Fed #511H
11,074.4	90.00	179.61	10,685.9	-1,267.5	-852.0	12.00	12.00	-0.07	-0.43	
18,367.1	90.00	179.61	10,686.0	-8,560.0	-803.0	0.00	0.00	0.00	0.00	PBHL(Icy 7 Fed #511

Released to Imaging: 10/24/2023 3:13:01 PM



Database:	PEDM	Local Co-ordinate Reference:	Well #511H
Company:	Midland	TVD Reference:	kb=25' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25' @ 3507.0usft
Site:	Icy 7 Fed	North Reference:	Grid
Well:	#511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0		0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0		0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.		0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.		0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.		0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.		0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.		0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.		0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.		0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.		0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.		0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.		0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,353.	0.00	0.00	1,353.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.	0 0.94	227.23	1,400.0	-0.3	-0.3	0.3	2.00	2.00	0.00
1,500.		227.23	1,499.9	-2.6	-2.8	2.8	2.00	2.00	0.00
1,600.		227.23	1,599.7	-7.2	-7.8	7.9	2.00	2.00	0.00
1,700.		227.23	1,699.2	-14.3	-15.4	15.6	2.00	2.00	0.00
1,800.		227.23	1,798.2	-23.6	-25.5	25.9	2.00	2.00	0.00
1,900.0		227.23	1,896.7	-35.4	-38.2	38.8	2.00	2.00	0.00
1,900.		227.23	1,938.0	-35.4 -41.0	-36.2	45.0	2.00	2.00	0.00
2,000.		227.23	1,938.0	-41.0			0.00		0.00
· · ·		227.23	2,092.5		-53.0	53.7	0.00	0.00	
2,100.		227.23		-62.9	-68.0	69.0	0.00	0.00	0.00
2,200.			2,190.4	-76.8	-83.0	84.2		0.00	0.00
2,300.		227.23	2,288.3	-90.6	-98.0	99.4	0.00	0.00	0.00
2,400.		227.23	2,386.2	-104.5	-112.9	114.6	0.00	0.00	0.00
2,500.		227.23	2,484.1	-118.4	-127.9	129.8	0.00	0.00	0.00
2,600.		227.23	2,582.0	-132.2	-142.9	145.0	0.00	0.00	0.00
2,700.	0 11.78	227.23	2,679.9	-146.1	-157.9	160.2	0.00	0.00	0.00
2,800.	0 11.78	227.23	2,777.8	-160.0	-172.9	175.4	0.00	0.00	0.00
2,900.		227.23	2,875.7	-173.8	-187.9	190.6	0.00	0.00	0.00
3,000.		227.23	2,973.6	-187.7	-202.9	205.8	0.00	0.00	0.00
3,100.		227.23	3,071.5	-201.6	-217.9	221.0	0.00	0.00	0.00
3,200.		227.23	3,169.3	-215.4	-232.9	236.2	0.00	0.00	0.00
3,300.0	0 11.78	227.23	3,267.2	-229.3	-247.9	251.4	0.00	0.00	0.00
3,400.		227.23	3,365.1	-243.2	-262.9	266.6	0.00	0.00	0.00
3,500.		227.23	3,463.0	-257.0	-277.8	281.9	0.00	0.00	0.00
3,600.		227.23	3,560.9	-270.9	-292.8	297.1	0.00	0.00	0.00
3,700.		227.23	3,658.8	-284.8	-307.8	312.3	0.00	0.00	0.00
3,800.		227.23	3,756.7	-298.6	-322.8	327.5	0.00	0.00	0.00
3,900.		227.23	3,854.6	-312.5	-337.8	342.7	0.00	0.00	0.00
4,000.		227.23	3,952.5	-326.4	-352.8	357.9	0.00	0.00	0.00
4,100.		227.23	4,050.4	-340.2	-367.8	373.1	0.00	0.00	0.00
4,200.		227.23	4,148.3	-354.1	-382.8	388.3	0.00	0.00	0.00
4,300.		227.23	4,246.2	-368.0	-397.8	403.5	0.00	0.00	0.00
4,400.		227.23	4,344.1	-381.8	-412.8	418.7	0.00	0.00	0.00
4,500.		227.23	4,442.0	-395.7	-427.8	433.9	0.00	0.00	0.00
4,600.		227.23	4,539.8	-409.6	-442.7	449.1	0.00	0.00	0.00
4,700.	0 11.78	227.23	4,637.7	-423.4	-457.7	464.3	0.00	0.00	0.00
4,800.	0 11.78	227.23	4,735.6	-437.3	-472.7	479.5	0.00	0.00	0.00
4,900.		227.23	4,833.5	-451.2	-487.7	494.8	0.00	0.00	0.00
5,000.		227.23	4,931.4	-465.0	-502.7	510.0	0.00	0.00	0.00
5,100.		227.23	5,029.3	-478.9	-517.7	525.2	0.00	0.00	0.00
0,100.			0,020.0	0.0	U 11.1	0-0.L	5.00	0.00	0.00

5/24/2023 4:07:58PM



Database:	PEDM	Local Co-ordinate Reference:	Well #511H
Company:	Midland	TVD Reference:	kb=25' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25' @ 3507.0usft
Site:	Icy 7 Fed	North Reference:	Grid
Well:	#511H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	11.78	227.23	5,127.2	-492.8	-532.7	540.4	0.00	0.00	0.00
5,300.0	11.78	227.23	5,225.1	-506.6	-547.7	555.6	0.00	0.00	0.00
5,400.0	11.78	227.23	5,323.0	-520.5	-562.7	570.8	0.00	0.00	0.00
5,500.0	11.78	227.23	5,420.9	-534.4	-577.7	586.0	0.00	0.00	0.00
	11.78	227.23		-548.2	-592.7	601.2	0.00	0.00	0.00
5,600.0			5,518.8						
5,700.0	11.78	227.23	5,616.7	-562.1	-607.6	616.4	0.00	0.00	0.00
5,800.0	11.78	227.23	5,714.6	-576.0	-622.6	631.6	0.00	0.00	0.00
5,900.0	11.78	227.23	5,812.4	-589.8	-637.6	646.8	0.00	0.00	0.00
6,000.0	11.78	227.23	5,910.3	-603.7	-652.6	662.0	0.00	0.00	0.00
6,100.0	11.78	227.23	6,008.2	-617.6	-667.6	677.2	0.00	0.00	0.00
6,200.0	11.78	227.23	6,106.1	-631.4	-682.6	692.4	0.00	0.00	0.00
6,300.0	11.78	227.23	6,204.0	-645.3	-697.6	707.6	0.00	0.00	0.00
6,400.0	11.78	227.23	6,301.9	-659.2	-712.6	722.9	0.00	0.00	0.00
6,500.0	11.78	227.23	6,399.8	-673.1	-727.6	738.1	0.00	0.00	0.00
6,600.0	11.78	227.23	6,497.7	-686.9	-742.6	753.3	0.00	0.00	0.00
6,700.0	11.78	227.23	6,595.6	-700.8	-757.6	768.5	0.00	0.00	0.00
6,800.0	11.78	227.23	6,693.5	-714.7	-772.5	783.7	0.00	0.00	0.00
6,900.0	11.78	227.23	6,791.4	-714.7	-787.5	798.9	0.00	0.00	0.00
7,000.0	11.78	227.23	6,889.3	-728.5	-802.5	814.1	0.00	0.00	0.00
7,000.0	11.78	227.23	6,936.0	-749.0	-802.5	821.4	0.00	0.00	0.00
7,047.7	10.74	227.23	6,930.0	-749.0 -755.9	-809.7	829.0	2.00	-2.00	0.00
7,100.0	10.74	221.23	0,907.3	-755.9	-017.2	029.0	2.00	-2.00	0.00
7,200.0	8.74	227.23	7,085.8	-767.4	-829.6	841.6	2.00	-2.00	0.00
7,300.0	6.74	227.23	7,184.9	-776.6	-839.5	851.6	2.00	-2.00	0.00
7,400.0	4.74	227.23	7,284.4	-783.4	-846.8	859.0	2.00	-2.00	0.00
7,500.0	2.74	227.23	7,384.2	-787.8	-851.6	863.9	2.00	-2.00	0.00
7,600.0	0.74	227.23	7,484.1	-789.8	-853.8	866.1	2.00	-2.00	0.00
7 626 0	0.00	0.00	7,521.0	-790.0	-854.0	866.3		-2.00	0.00
7,636.9 7,700.0	0.00		7,584.1	-790.0	-854.0		2.00 0.00		0.00
,		0.00	,			866.3		0.00	
7,800.0	0.00	0.00	7,684.1	-790.0	-854.0	866.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,784.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,884.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,100.0	0.00	0.00	7,984.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,084.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,184.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,284.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,384.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,484.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,584.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,684.1	-790.0	-854.0	866.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,784.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,884.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,100.0	0.00	0.00	8,984.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,084.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,184.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,284.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,400.0 9,500.0	0.00	0.00	9,284.1 9,384.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,484.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,584.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,684.1	-790.0	-854.0	866.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,784.1	-790.0	-854.0	866.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,884.1	-790.0	-854.0	866.3	0.00	0.00	0.00
10,100.0	0.00	0.00	9,984.1	-790.0	-854.0	866.3	0.00	0.00	0.00
10,200.0 10.300.0	0.00	0.00	10,084.1	-790.0	-854.0	866.3	0.00	0.00	0.00
10 300 0	0.00	0.00	10,184.1	-790.0	-854.0	866.3	0.00	0.00	0.00

5/24/2023 4:07:58PM

Page 5

COMPASS 5000.16 Build 100

.



Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,324.4	0.00	0.00	10,208.5	-790.0	-854.0	866.3	0.00	0.00	0.00
KOP(Icy 7 F	ed #511H)								
10,350.0	3.07	180.00	10,234.1	-790.7	-854.0	867.0	12.00	12.00	0.00
10,375.0	6.07	180.00	10,259.0	-792.7	-854.0	869.0	12.00	12.00	0.00
10,375.0	9.08	180.00	10,283.8	-796.0	-854.0	872.3	12.00	12.00	0.00
10,400.0	12.08	180.00	10,285.8	-790.0	-854.0	876.8	12.00	12.00	0.00
	15.08		,						
10,450.0		180.00	10,332.7	-806.4	-854.0	882.7	12.00	12.00	0.00
10,475.0	18.08	180.00	10,356.6	-813.6	-854.0	889.8	12.00	12.00	0.00
10,500.0	21.08	180.00	10,380.2	-821.9	-854.0	898.1	12.00	12.00	0.00
10,525.0	24.08	180.00	10,403.3	-831.5	-854.0	907.7	12.00	12.00	0.00
10,544.8	26.46	180.00	10,421.2	-840.0	-854.0	916.1	12.00	12.00	0.00
FTP(Icy 7 Fe	ed #511H)								
10,550.0	27.08	179.99	10,425.8	-842.3	-854.0	918.4	12.00	12.00	-0.20
10,575.0	30.08	179.95	10,447.8	-854.3	-854.0	930.3	12.00	12.00	-0.18
10,600.0	33.08	179.91	10,469.1	-867.4	-854.0	943.3	12.00	12.00	-0.15
10,625.0	36.08	179.88	10,489.6	-881.6	-853.9	957.5	12.00	12.00	-0.12
10,650.0	39.08	179.85	10,509.5	-896.8	-853.9	972.6	12.00	12.00	-0.11
10,675.0	42.08	179.83	10,528.4	-913.1	-853.9	988.8	12.00	12.00	-0.09
10,700.0	45.08	179.81	10,546.5	-930.3	-853.8	1,006.0	12.00	12.00	-0.08
10,725.0	48.08	179.79	10,563.7	-948.4	-853.7	1,024.0	12.00	12.00	-0.08
10,723.0	51.08	179.75	10,579.9	-940.4	-853.7	1,024.0	12.00	12.00	-0.07
10,775.0	54.08	179.75	10,595.1	-987.3	-853.6	1,043.0	12.00	12.00	-0.06
10,775.0	57.08	179.74	10,609.3	-1,008.0	-853.5	1,083.3	12.00	12.00	-0.06
10,800.0	60.08	179.74	10,622.3	-1,008.0	-853.5	1,003.3	12.00	12.00	-0.06
10,625.0	00.00	179.75	10,022.3	-1,029.5	-000.4	1,104.5	12.00	12.00	-0.06
10,850.0	63.08	179.71	10,634.2	-1,051.3	-853.3	1,126.4	12.00	12.00	-0.05
10,875.0	66.08	179.70	10,644.9	-1,073.8	-853.2	1,148.8	12.00	12.00	-0.05
10,900.0	69.08	179.69	10,654.5	-1,096.9	-853.1	1,171.8	12.00	12.00	-0.05
10,925.0	72.08	179.68	10,662.8	-1,120.5	-852.9	1,195.3	12.00	12.00	-0.05
10,950.0	75.08	179.67	10,669.8	-1,144.5	-852.8	1,219.1	12.00	12.00	-0.04
10,975.0	78.08	179.66	10,675.6	-1,168.8	950.6	1 0 4 9 9	12.00	12.00	-0.04
,	81.08	179.65	10,675.6	,	-852.6 -852.5	1,243.3 1,267.8	12.00 12.00	12.00 12.00	-0.04
11,000.0			,	-1,193.4					
11,025.0	84.08	179.63	10,683.4	-1,218.2	-852.3 -852.2	1,292.5	12.00	12.00	-0.04
11,050.0	87.08	179.62	10,685.3	-1,243.1		1,317.3	12.00	12.00	-0.04
11,074.4	90.00	179.61	10,685.9	-1,267.5	-852.0	1,341.5	12.00	12.00	-0.04
11,100.0	90.00	179.61	10,685.9	-1,293.1	-851.8	1,367.0	0.00	0.00	0.00
11,200.0	90.00	179.61	10,685.9	-1,393.1	-851.2	1,466.5	0.00	0.00	0.00
11,300.0	90.00	179.61	10,685.9	-1,493.1	-850.5	1,566.0	0.00	0.00	0.00
11,400.0	90.00	179.61	10,685.9	-1,593.1	-849.8	1,665.5	0.00	0.00	0.00
11,500.0	90.00	179.61	10,685.9	-1,693.1	-849.2	1,765.0	0.00	0.00	0.00
11,600.0	90.00	179.61	10,685.9	-1,793.1	-848.5	1,864.5	0.00	0.00	0.00
,			,	,		,	0.00		
11,700.0 11,800.0	90.00 90.00	179.61 179.61	10,685.9 10,686.0	-1,893.1 -1,993.1	-847.8 -847.1	1,964.0 2,063.5	0.00	0.00 0.00	0.00 0.00
11,800.0	90.00	179.61	10,686.0	-1,993.1 -2,093.1	-847.1 -846.5	2,063.5 2,163.0	0.00	0.00	0.00
12,000.0			,					0.00	
12,000.0	90.00	179.61	10,686.0	-2,193.1	-845.8	2,262.5	0.00	0.00	0.00
12,100.0	90.00	179.61	10,686.0	-2,293.1	-845.1	2,362.0	0.00	0.00	0.00
12,200.0	90.00	179.61	10,686.0	-2,393.1	-844.4	2,461.5	0.00	0.00	0.00
12,300.0	90.00	179.61	10,686.0	-2,493.1	-843.8	2,561.0	0.00	0.00	0.00
12,400.0	90.00	179.61	10,686.0	-2,593.1	-843.1	2,660.5	0.00	0.00	0.00
12,500.0	90.00	179.61	10,686.0	-2,693.1	-842.4	2,760.0	0.00	0.00	0.00
10,000,0			40,000,0						
12,600.0	90.00	179.61	10,686.0	-2,793.1	-841.8	2,859.5	0.00	0.00	0.00
12,700.0	90.00	179.61	10,686.0	-2,893.1	-841.1	2,959.0	0.00	0.00	0.00
12,800.0	90.00	179.61	10,686.0	-2,993.1	-840.4	3,058.5	0.00	0.00	0.00
12,900.0	90.00	179.61	10,686.0	-3,093.1	-839.7	3,158.0	0.00	0.00	0.00
13,000.0	90.00	179.61	10,686.0	-3,193.1	-839.1	3,257.5	0.00	0.00	0.00

5/24/2023 4:07:58PM

Page 6

COMPASS 5000.16 Build 100



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)
	13,100.0	90.00	179.61	10,686.0	-3,293.0	-838.4	3,357.0	0.00	0.00	0.00
	13,200.0	90.00	179.61	10,686.0	-3,393.0	-837.7	3,456.5	0.00	0.00	0.00
	13,300.0	90.00	179.61	10,686.0	-3,493.0	-837.1	3,556.0	0.00	0.00	0.00
	13,400.0	90.00	179.61	10,686.0	-3,593.0	-836.4	3,655.5	0.00	0.00	0.00
	13,500.0	90.00	179.61	10,686.0	-3,693.0	-835.7	3,755.0	0.00	0.00	0.00
	13,600.0	90.00	179.61	10,686.0	-3,793.0	-835.0	3,854.4	0.00	0.00	0.00
	13,700.0	90.00	179.61	10,686.0	-3,893.0	-834.4	3,953.9	0.00	0.00	0.00
	13,800.0	90.00	179.61	10,686.0	-3,993.0	-833.7	4,053.4	0.00	0.00	0.00
	13,900.0	90.00	179.61	10,686.0	-4,093.0	-833.0	4,152.9	0.00	0.00	0.00
	14,000.0	90.00	179.61	10,686.0	-4,193.0	-832.4	4,252.4	0.00	0.00	0.00
	14,100.0	90.00	179.61	10,686.0	-4,293.0	-831.7	4,351.9	0.00	0.00	0.00
	14,200.0	90.00	179.61	10,686.0	-4,393.0	-831.0	4,451.4	0.00	0.00	0.00
	14,300.0	90.00	179.61	10,686.0	-4,493.0	-830.3	4,550.9	0.00	0.00	0.00
	14,400.0	90.00	179.61	10,686.0	-4,593.0	-829.7	4,650.4	0.00	0.00	0.00
	14,500.0	90.00	179.61	10,686.0	-4,693.0	-829.0	4,749.9	0.00	0.00	0.00
	14,600.0	90.00	179.61	10,686.0	-4,793.0	-828.3	4,849.4	0.00	0.00	0.00
	14,700.0	90.00	179.61	10,686.0	-4,893.0	-827.6	4,948.9	0.00	0.00	0.00
	14,800.0	90.00	179.61	10,686.0	-4,993.0	-827.0	5,048.4	0.00	0.00	0.00
	14,900.0	90.00	179.61	10,686.0	-5,093.0	-826.3	5,147.9	0.00	0.00	0.00
	15,000.0	90.00	179.61	10,686.0	-5,193.0	-825.6	5,247.4	0.00	0.00	0.00
	15,100.0	90.00	179.61	10,686.0	-5,293.0	-825.0	5,346.9	0.00	0.00	0.00
I	15,200.0	90.00	179.61	10,686.0	-5,393.0	-824.3	5,446.4	0.00	0.00	0.00
	15,300.0	90.00	179.61	10,686.0	-5,493.0	-823.6	5,545.9	0.00	0.00	0.00
	15,400.0	90.00	179.61	10,686.0	-5,593.0	-822.9	5,645.4	0.00	0.00	0.00
	15,500.0	90.00	179.61	10,686.0	-5,693.0	-822.3	5,744.9	0.00	0.00	0.00
	15,600.0	90.00	179.61	10,686.0	-5,793.0	-821.6	5,844.4	0.00	0.00	0.00
	15,700.0	90.00	179.61	10,686.0	-5,893.0	-820.9	5,943.9	0.00	0.00	0.00
	15,800.0	90.00	179.61	10,686.0	-5,993.0	-820.3	6,043.4	0.00	0.00	0.00
	15,900.0	90.00	179.61	10,686.0	-6,093.0	-819.6	6,142.9	0.00	0.00	0.00
	16,000.0	90.00	179.61	10,686.0	-6,193.0	-818.9	6,242.4	0.00	0.00	0.00
	16,100.0	90.00	179.61	10,686.0	-6,293.0	-818.2	6,341.9	0.00	0.00	0.00
	16,200.0	90.00	179.61	10,686.0	-6,393.0	-817.6	6,441.4	0.00	0.00	0.00
	16,300.0	90.00	179.61	10,686.0	-6,493.0	-816.9	6,540.9	0.00	0.00	0.00
	16,400.0	90.00	179.61	10,686.0	-6,593.0	-816.2	6,640.4	0.00	0.00	0.00
	16,500.0	90.00	179.61	10,686.0	-6,693.0	-815.5	6,739.9	0.00	0.00	0.00
	16,600.0	90.00	179.61	10,686.0	-6,793.0	-814.9	6,839.4	0.00	0.00	0.00
	16,700.0	90.00	179.61	10,686.0	-6,893.0	-814.2	6,938.9	0.00	0.00	0.00
	16,800.0	90.00	179.61	10,686.0	-6,993.0	-813.5	7,038.4	0.00	0.00	0.00
	16,900.0	90.00	179.61	10,686.0	-7,093.0	-812.9	7,137.9	0.00	0.00	0.00
	17,000.0	90.00	179.61	10,686.0	-7,193.0	-812.2	7,237.4	0.00	0.00	0.00
	17,100.0	90.00	179.61	10,686.0	-7,293.0	-811.5	7,336.9	0.00	0.00	0.00
	17,200.0	90.00	179.61	10,686.0	-7,393.0	-810.8	7,436.4	0.00	0.00	0.00
	17,300.0	90.00	179.61	10,686.0	-7,493.0	-810.2	7,535.9	0.00	0.00	0.00
	17,400.0	90.00	179.61	10,686.0	-7,593.0	-809.5	7,635.4	0.00	0.00	0.00
	17,500.0	90.00	179.61	10,686.0	-7,692.9	-808.8	7,734.9	0.00	0.00	0.00
	17,600.0	90.00	179.61	10,686.0	-7,792.9	-808.2	7,834.4	0.00	0.00	0.00
	17,700.0	90.00	179.61	10,686.0	-7,892.9	-807.5	7,933.9	0.00	0.00	0.00
	17,800.0	90.00	179.61	10,686.0	-7,992.9	-806.8	8,033.4	0.00	0.00	0.00
	17,900.0	90.00	179.61	10,686.0	-8,092.9	-806.1	8,132.9	0.00	0.00	0.00
	18,000.0	90.00	179.61	10,686.0	-8,192.9	-805.5	8,232.4	0.00	0.00	0.00
	18.100.0	90.00	179.61	10,686.0	-8,292.9	-804.8	8,331.9	0.00	0.00	0.00
	18,200.0	90.00	179.61	10,686.0	-8,392.9	-804.1	8,431.4	0.00	0.00	0.00
	18,300.0	90.00	179.61	10,686.0	-8,492.9	-803.5	8,530.8	0.00	0.00	0.00
	18,367.1	90.00	179.61	10,686.0	-8,560.0	-803.0	8,597.6	0.00	0.00	0.00

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Page 7

COMPASS 5000.16 Build 100



KOP(Icy 7 Fed #511H)

FTP(Icy 7 Fed #511H)

- Point PBHL(Icy 7 Fed #511H)

plan hits target center
Point

- plan hits target center

plan hits target center
Point

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10,208.5

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10,686.0

-790.0

-840.0

-8,560.0

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	PEDM Midland Lea County, N Icy 7 Fed #511H OH Plan #0.1 RT	NM (NAD 83	NME)		TVD Ref MD Refe North Re	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:			Well #511H kb=25' @ 3507.0usft kb=25' @ 3507.0usft Grid Minimum Curvature		
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)	
PBHL(Icy 7 I	Fed #511H)										
Design Targets											
Target Name - hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	9	Easting			

-854.0

-854.0

-803.0

414,596.00

414,546.00

406,826.00

765,961.00

765,961.00

766,012.00

32° 8' 15.802 N

32° 8' 15.308 N

32° 6' 58.911 N

103° 36' 27.486 W

103° 36' 27.490 W

103° 36' 27.502 W

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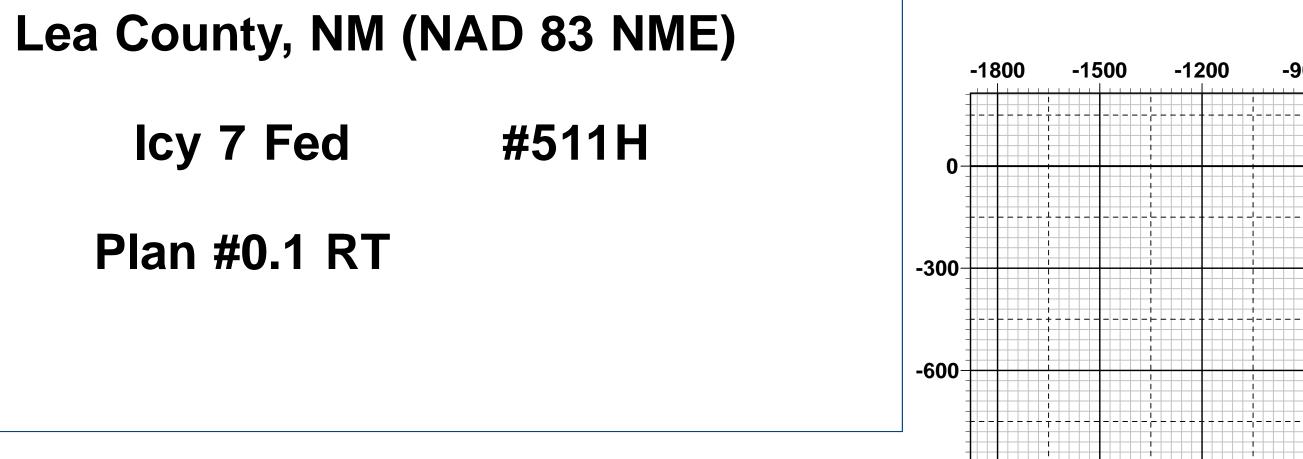
9800-

Depth

Azimuths to Grid North Ν True North: -0.39° Magnetic North: 5.94° Strength: 47238.2nT Dip Angle: 59.75° Date: 5/24/2023 Model: IGRF2020

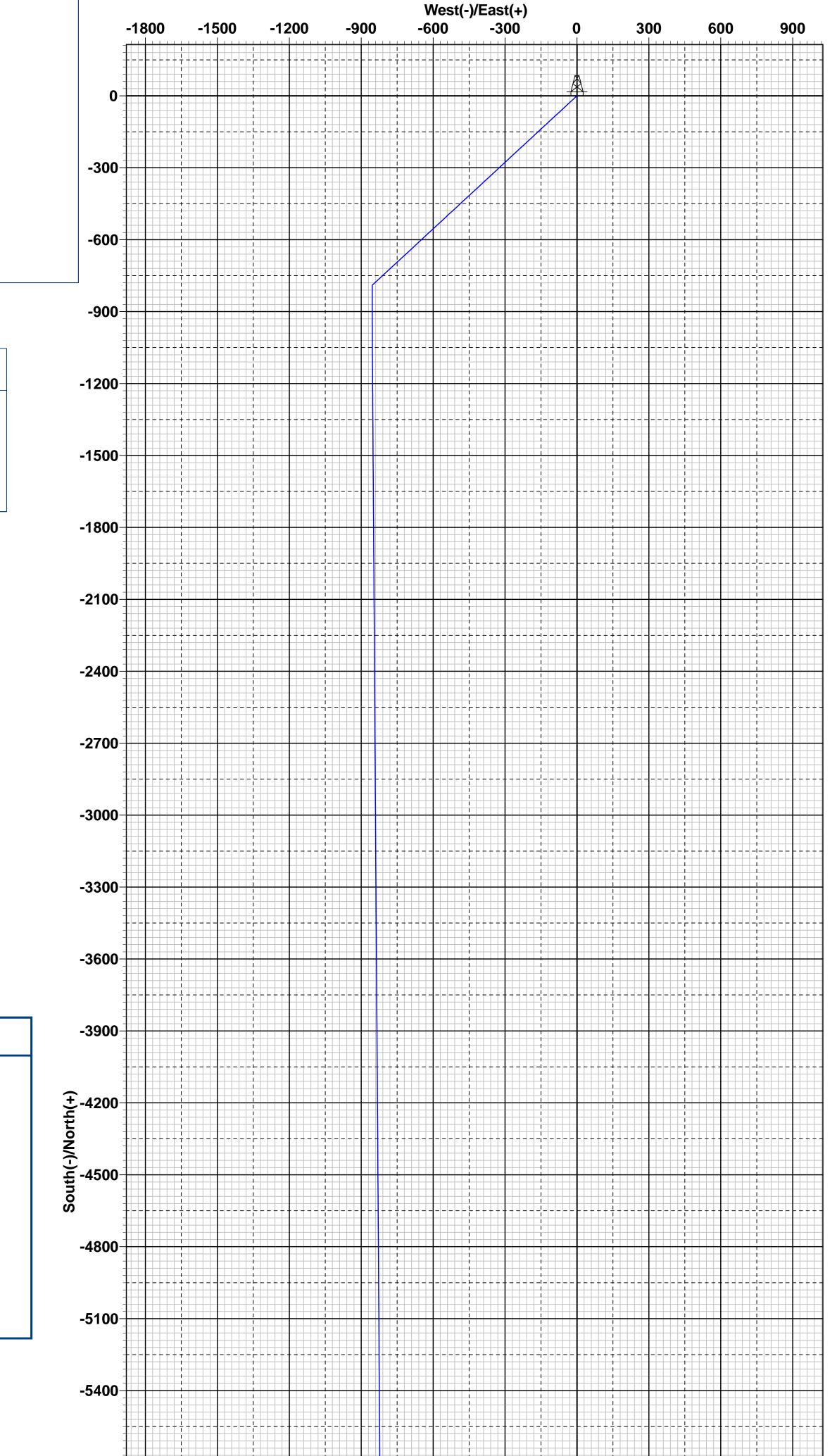
To convert a Magnetic Direction to a Grid Direction, Add 5.94° To convert a Magnetic Direction to a True Direction, Add 6.33° East To convert a True Direction to a Grid Direction, Subtract 0.39°

Magnetic Field

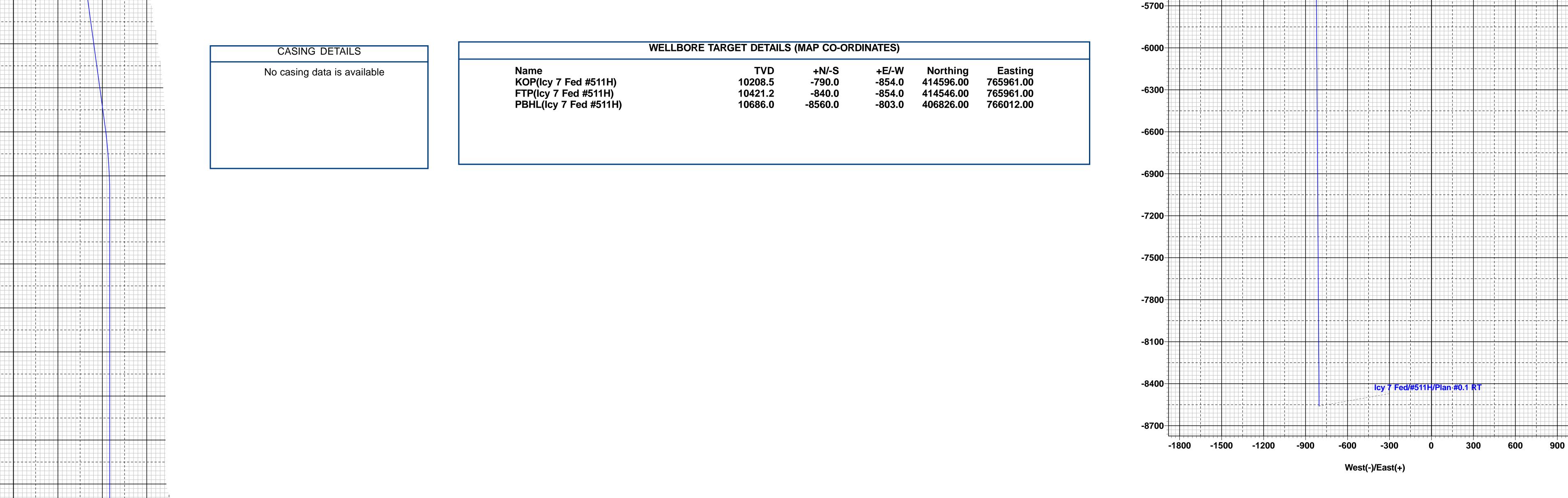


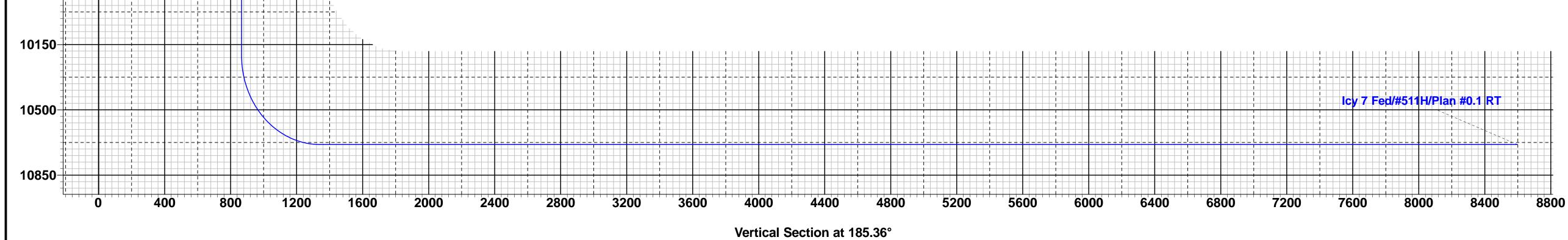
PROJECT DETAILS: Lea County, NM (NAD 83 NME)

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



			: #511H	DETAILS	WELL						
	D	3482.0	2 3507.0usft	kh_25' @							
	Longi 103° 36' 1	tude 3.563 N	Latit	sting 15.00		Northing 415386.00					
			.S	I DETAIL	SECTION						
	:t	VSect				+N/-S	TVD	Azi	MD Inc	MC	Sec
		VSect 0.0	.S TFace 0.00	I DETAIL Dleg 0.00	SECTION +E/-W 0.0	+N/-S 0.0	TVD 0.0		MD Inc 0.0 0.00		Sec 1
	0	VSect 0.0 0.0	TFace	Dleg	+E/-W	+N/-S 0.0 0.0	TVD 0.0 1353.0	0.00	0.0 0.00		Sec 1 2
	0 0	0.0	TFace 0.00	Dleg 0.00	+E/-W 0.0	0.0	0.0	0.00 0.00	0.0 0.00 353.0 0.00	0.0	Sec 1 2 3
	0 0 0	0.0 0.0	TFace 0.00 0.00	Dleg 0.00 0.00	+E/-W 0.0 0.0	0.0 0.0	0.0 1353.0	0.00 0.00 227.23	0.00.00353.00.00942.211.78	0.0 1353.0	1 2
	0 0 0 4	0.0 0.0 45.0	TFace 0.00 0.00 227.23	Dleg 0.00 0.00 2.00	+E/-W 0.0 0.0 -44.3	0.0 0.0 -41.0	0.0 1353.0 1938.0	0.00 0.00 227.23 227.23	0.00.00353.00.00942.211.78047.711.78	0.0 1353.0 1942.2	1 2 3
y 7 Fed #51	0 0 0 4 3	0.0 0.0 45.0 821.4	TFace 0.00 0.00 227.23 0.00	Dleg 0.00 0.00 2.00 0.00	+E/-W 0.0 0.0 -44.3 -809.7	0.0 0.0 -41.0 -749.0	0.0 1353.0 1938.0 6936.0	0.00 0.00 227.23 227.23 0.00	0.00.00353.00.00942.211.78047.711.78636.90.00	0.0 1353.0 1942.2 7047.7	1 2 3 4
	0 0 0 4 3 3	0.0 0.0 45.0 821.4 866.3	TFace 0.00 0.00 227.23 0.00 180.00	Dleg 0.00 0.00 2.00 0.00 2.00	+E/-W 0.0 0.0 -44.3 -809.7 -854.0	0.0 0.0 -41.0 -749.0 -790.0	0.0 1353.0 1938.0 6936.0 7521.0	0.00 0.00 227.23 227.23 0.00 0.00	0.00.00353.00.00942.211.78047.711.78636.90.00324.40.00	0.0 1353.0 1942.2 7047.7 7636.9	1 2 3 4 5
y 7 Fed #5 1	0 0 4 3 3 1	0.0 0.0 45.0 821.4 866.3 866.3	TFace 0.00 0.00 227.23 0.00 180.00 0.00	Dleg 0.00 0.00 2.00 0.00 2.00 0.00	+E/-W 0.0 0.0 -44.3 -809.7 -854.0 -854.0	0.0 0.0 -41.0 -749.0 -790.0 -790.0	0.0 1353.0 1938.0 6936.0 7521.0 10208.5	0.00 0.00 227.23 227.23 0.00 0.00 180.00	0.00.00353.00.00942.211.78047.711.78636.90.00324.40.00544.826.46	0.0 1353.0 1942.2 7047.7 7636.9 10324.4	1 2 3 4 5





Lea County, NM (NAD 83 NME) Icy 7 Fed #511H ОН Plan #0.1 RT 16:09, May 24 2023

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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

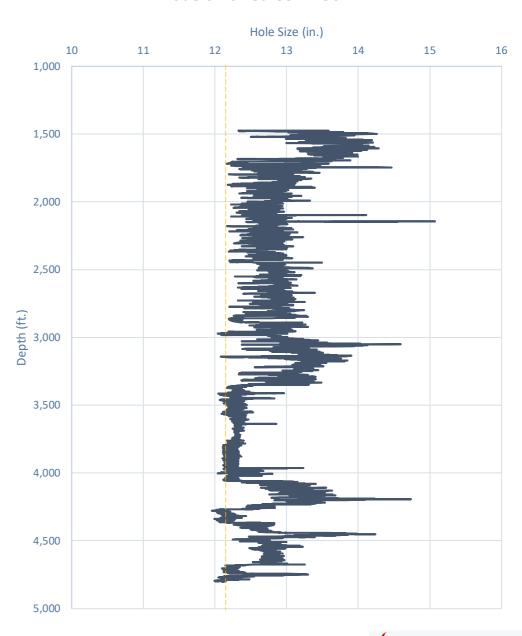
- 12.25" Hole
 - 12.88" Hole
 - 5.13% diameter increase
 - 10.52% area increase
 - 0.63" Average enlargement
 - 0.58" Median enlargement
 - 179 Well Count
- 9.875" Hole
 - 10.30" Hole
 - 4.24% diameter increase
 - 9.64% area increase
 - 0.42" Average enlargement
 - 0.46" Median enlargement
 - 11 Well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



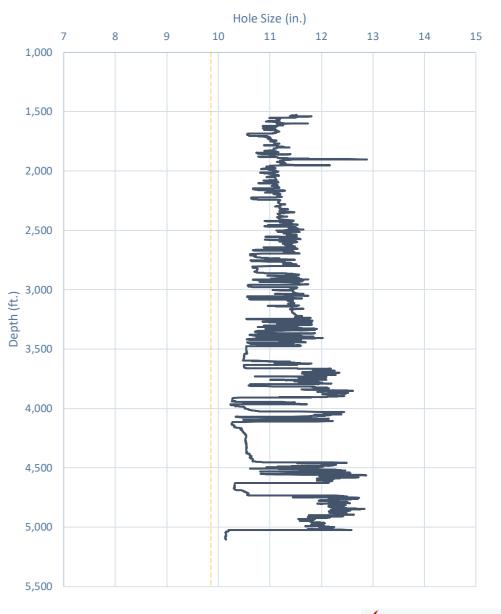
Modelo 10 Fed Com #501H

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

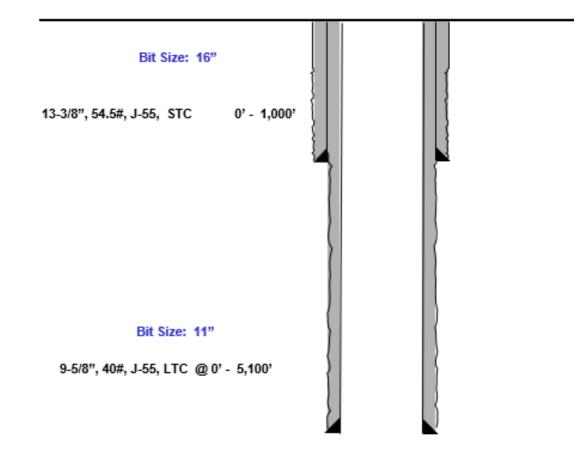
- 11" Bit + 0.52" Average hole enlargement = 11.52" Hole Size
 - 0.9475" Clearance to casing OD

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

o coupling OD • 0.4 = 11.52 -10.625

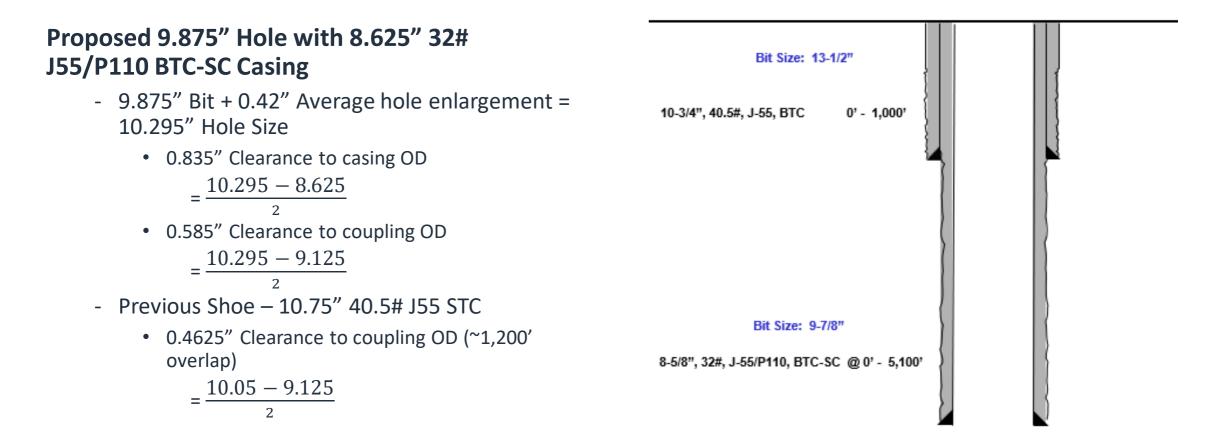
- Previous Shoe 13.375" 54.5# J55 STC
 - 0.995" Clearance to coupling OD (~1,200' overlap)

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



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Design B





Index

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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

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

Pipe Body and API Connections Performance Data

13.375	54.50/0.380	J55

New Search »

« Back to Previous List

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

10

Casing Spec Sheets

Pipe Body and API Connections Performance Data

10.750 40.50/0.350 J55					PD
New Search »					« Back to Previous L
					USC 💽 Metr
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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	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

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			API	5 CT , 1	0th Ed. Conr	nection Da	ata Shee
	/ft) 32.00 31.13	WALL (in) 0.352	GRA J5		* API DRIFT (7.796	· 1	3W % 37.5
Material Propertie	es (PE)			P	ipe Body Da	ta (PE)	
Pipe					Geometr	у	
Minimum Yield Strength:	55	ksi	Nomin	al ID:		7.92	2 inch
Maximum Yield Strength:	80	ksi	Nomin	al Area		9.149	9 in ²
Minimum Tensile Strength:	75	ksi	*Speci	al/Alt. D)rift:	7.875	5 inch
Coupling					Performar	nce	
Minimum Yield Strength:	55	ksi	Pipe B	ody Yie	ld Strength:	503	3 kips
Maximum Yield Strength:	80	ksi		se Resi		2,530) psi
Minimum Tensile Strength:	75	ksi	Internal (API His	Yield Pre storical)	essure:	3,930) psi
API Connection Coupling OD: 9.6				AP	I Connection	Torque	
STC Performa					STC Torque (ft-lbs)	
STC Internal Pressure:	3,930	psi	Min:	2,793	Opti: 3,7	24 Max:	4,65
STC Joint Strength:	372	kips					
LTC Performa	nce			1	TC Torque (ft-lbs)	
LTC Internal Pressure:	3,930	psi	Min:	3,130	Opti: 4,1	174 Max:	5,21
LTC Joint Strength:		kips					
SC-BTC Performance - Cp	lg OD =	9.125"		E	BTC Torque (ft-lbs)	
BTC Internal Pressure:	3,930	psi	follow	v API gui	delines regarding	g positional r	nake up
BTC Joint Strength:	503	kips					
*/	Alt. Drift will	be used unless	s API Drift i	s specifie	d on order.		
**If above API connection	ons do not	suit your nee 100% of pip			n connections ar	e available u	ıp to
ALL INFORMATION IS PROVIDED BY VALLOUREC O AND ON AN "AS IS" BASIS WITHOUT WARRANT MERCHANTABILITY, FITNESS FOR PURPOSE, ACCU ONLY AND IS BASED ON ESTIMATES THAT HAVE N INCIDENTAL, PUNITVE, EXEMPLARY OR CONSEQU ANTICIPATED PROFIT HOWEVER CAUSED OR ARIS	Y OR REPRESENT JRACY OR COMP OT BEEN VERIFIE JENTIAL LOSS OF	ATION OF ANY KIND, PLETENESS. THE INFO ED OR TESTED. IN NO R DAMAGE (INCLUDIT	WHETHER EXP RMATION CON EVENT SHALL V VG WITHOUT LI	RESS OR IMPL TAINED IN THI (ALLOUREC OF MITATION, LC	IED, INCLUDING WITHOU S DOCUMENT IS PROVID R ITS AFFILIATES BE RESPO SS OF USE, LOSS OF BAR	T LIMITATION ANY ED FOR INFORMATIONSIBLE FOR ANY IN GAIN, LOSS OF REVE	WARRANTY OF ONAL PURPOSE IDIRECT, SPECIA ENUE, PROFIT O

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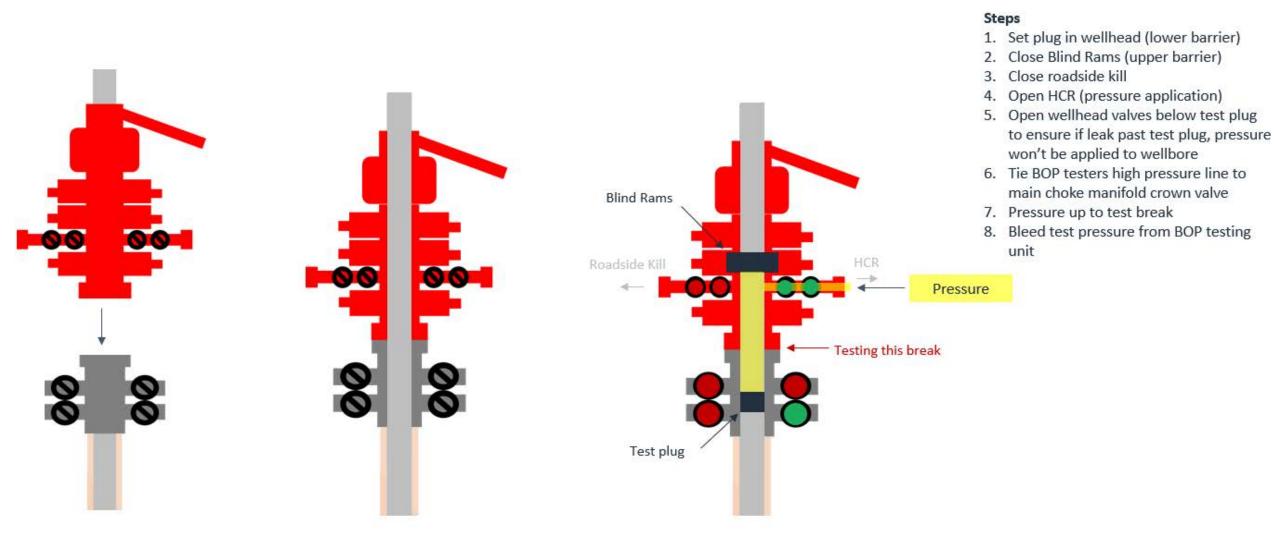


Break-test BOP & Offline Cementing:

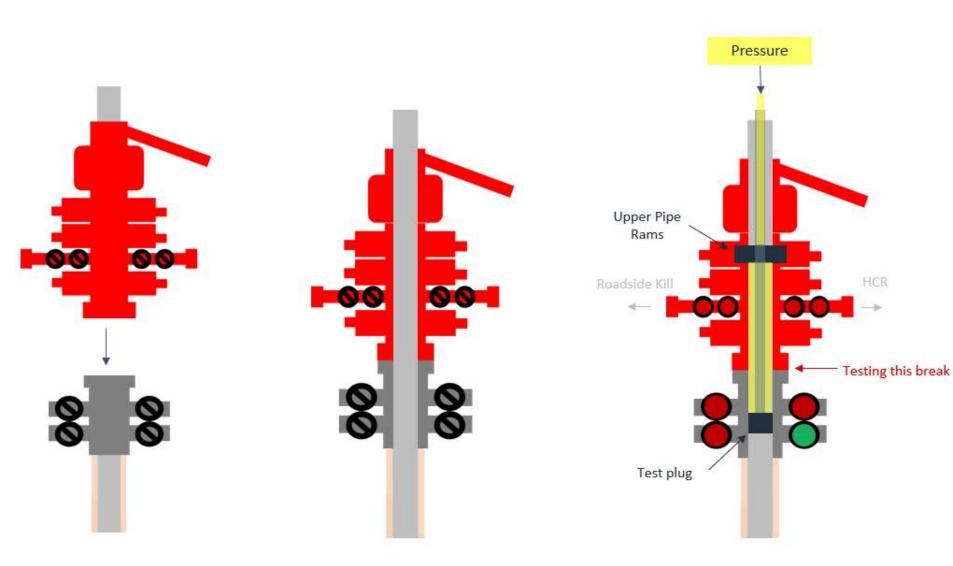
EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement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

- Full BOPE test at first installation on the pad.
- Full BOPE test every 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.

Page | 1

Page 37 of 44

2/24/2022

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.

Page | 3

2/24/2022

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

Page | 4

2/24/2022

Seog resources Offline Intermediate Cementing Procedure

Figure 1: Cameron TA Plug and Offline Adapter Schematic



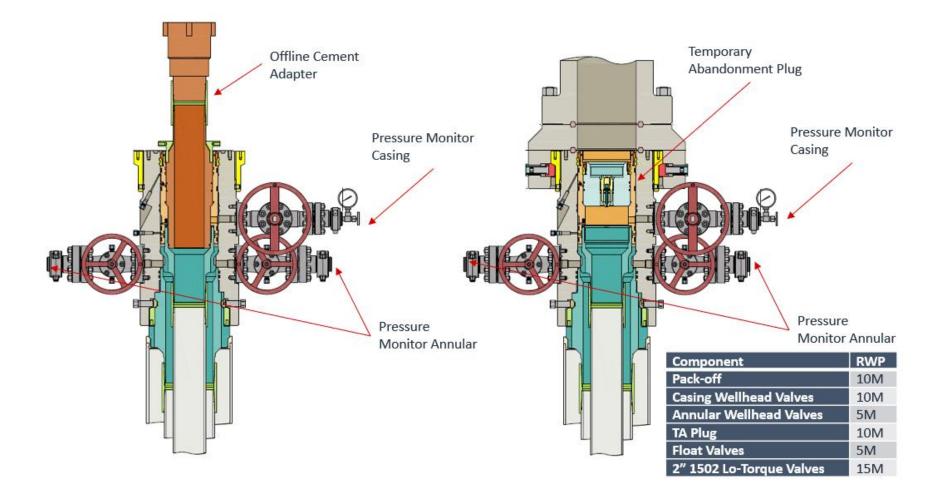
2/24/2022

Page 40 of 44

Page | 5

Offline Intermediate Cementing Procedure





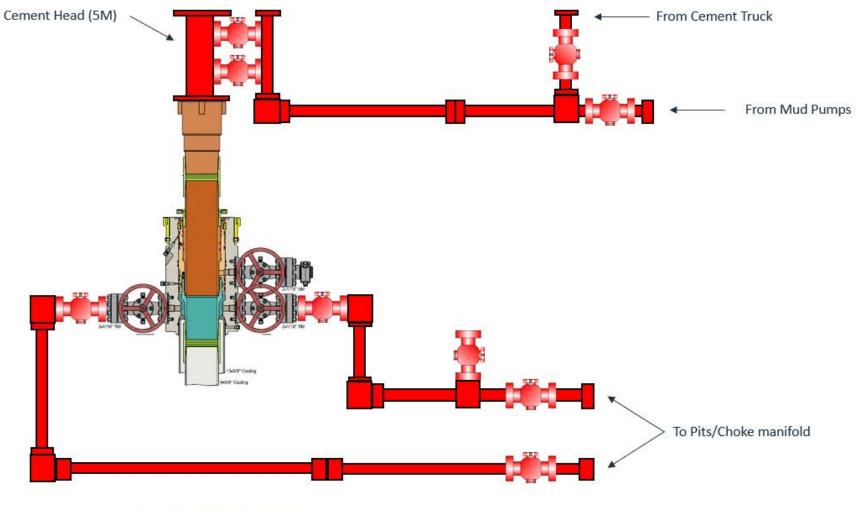
2/24/2022

Page 42 of 44

2/24/2022







*** All Lines 10M rated working pressure

Page | 7





2/24/2022

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CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	257524
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/24/2023

Action 257524

Page 44 of 44

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