einedabycopy Po Appropriate Districts:	31 PM S1	tate of New Mex	rico		For	m Eage 1 of
Office <u>District I</u> – (575) 393-6161	Energy, M	inerals and Natur	al Resources		Revised Ju	
1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283				WELL API N 30-015-5431		
811 S. First St., Artesia, NM 88210		NSERVATION :			Type of Lease	
District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410		South St. France		STAT		
<u>Pistrict IV</u> – (505) 476-3460	S	anta Fe, NM 875	505	6. State Oil	& Gas Lease No.	
220 S. St. Francis Dr., Santa Fe, NM 87505						
	ΓICES AND REPO	RTS ON WELLS		7. Lease Na	me or Unit Agreemer	nt Name
DO NOT USE THIS FORM FOR PROP DIFFERENT RESERVOIR. USE "APPL				KLONDIK	E 9 STATE COM	
ROPOSALS.) . Type of Well: Oil Well X	Gas Well 🔲 O	ther		8. Well Nun	nber 134H	
. Name of Operator PERMIAN RESOURCES OPE	RATING LLC			9. OGRID N 372165	Number	
. Address of Operator					ne or Wildcat	
300 N MARIENFELD STREET	SUITE 1000, MIDL	AND, TX 79701			HESTER; BONE SPRIN	G, WEST
Well Location	4500	_		450		
Unit Letter		om the S			et from the _E	line
Section 9			ige 28E	NMPM	County Eddy	•
	11. Elevation (S 3,539.9' GL	Show whether DR,	RKB, RT, GR, etc	.)		
				_		
ULL OR ALTER CASING OWNHOLE COMMINGLE LOSED-LOOP SYSTEM THER: 13. Describe proposed or com of starting any proposed v proposed completion or re Permian Resources Operating Proposed FTP from 990' FSL Proposed LTP from 990' FSL Proposed BHL from 990' FSL TD change from 18781'MD/86	apleted operations. vork). SEE RULE ecompletion. g, LLC would like to re & 100' FEL to 985' FS & 100' FWL to 985' FS & 10' FWL to 985' FS	Clearly state all period (Clearly state all period) (Clearly state all peri	For Multiple Co	nd give pertinen		
Casing/Cement design per the	e attached drilling pro	gram.				
Permian Resources also requ Multi-Well Pad Batch Drilling Flexhose Offline Cementing BOP Break Testing	ests the following drill	ing program variance	S:			
oud Date: 7/1/2024		Rig Release Date	e: 7/19/2024			
L			L			
1	1	1	. 6 1 11	11 1: 6		
ereby certify that the information	a above is true and	complete to the bes	st of my knowleds	ge and belief.		
GNATURE (ASSILLE) 4	STOWN	TITLE_Regula	tory Lead		DATE <u>6/20/2024</u>	
		Б и и	aabless basses @		DIJONE 400 400	2072
pe or print name Ashley Brown r State Use Only		E-mail address:	asniey.brown@p	permianres.com	PHONE: <u>432-400-</u>	2972
PPROVED BY:		TITLE			DATE	
onditions of Approval (if any):		1111111				

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II

Strict II

Phone: (575) 748-1283 Fax: (575) 748-9720

Pictrict III District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	r	² Pool Code	³ Pool Name			
30-015-54319		[97569]	[97569] WINCHESTER; BONE SPRING,			
4 Property Code		5 Pr	6 Well Number			
334778		KLONDII	134H			
7 OGRID No.		8 OI	perator Name	⁹ Elevation		
372165		PERMIAN RESOU	3539.9'			

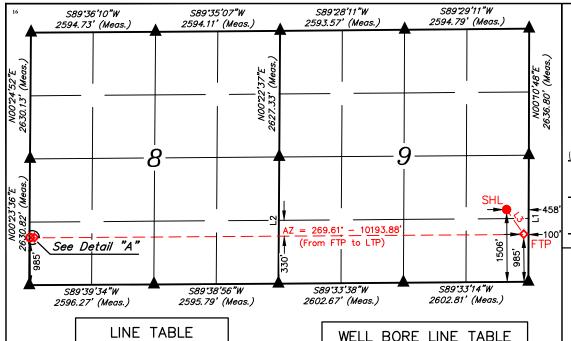
¹⁰ Surface Location

١	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	I	9	19S	28E		1506	SOUTH	458	EAST	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no. M	Section 8	Township 19S	Range 28E	Lot Idn	Feet from the 985	North/South line SOUTH	Feet from the 10	East/West line WEST	County EDDY	
12 Dedicated Acro 320.00	es 13	13 Joint or Infill 14 Consolidation Code 15		15 Order No.						

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.

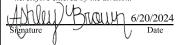


LINE TABLE									
LINE	LINE DIRECTION LENGTH								
L1	N0010'55"E	2636.52							
L2	N00°21'33"E	2639.02							

WELL BORE LINE TABLE								
LINE	DIRECTION	LENGTH						
L3	$AZ = 145.47^{\circ}$	628.63'						
L4	AZ = 269.66°	90.01'						

17 OPERATOR **CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.



Ashley Brown, Regulatory Lead

ashley.brown@permianres.com

18 SURVEYOR

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

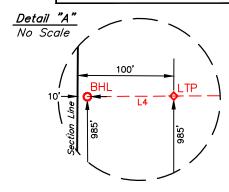
CERTIFICATION

July 10, 2023

Date of Survey Signature and Seal of Professional Surveyor:



Certificate Number



- Distances referenced on plat to section lines are perpendicular.
 Basis of Bearings is a Transverse

Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

SCALE

- = SURFACE HOLE LOCATION. = TAKE POINT. = BOTTOM HOLE LOCATION. <u>6</u> =
- SECTION CORNER LOCATED.

2000 DRAWN BY: N.D.T. 07-20-23 REV: 3 06-14-24 D.M.C. (UPDATE WELLBORE PATH)

ı		
ı	NAD 83 (SURFACE HOLE LOCATION)	NAD 83 (FIRST TAKE POINT)
ı	LATITUDE = 32°40'19.36" (32.672043°)	LATITUDE = 32°40'14.24" (32.670623°)
ı	LONGITUDE = -104°10'26.61" (-104.174059°)	LONGITUDE = -104°10'22.43" (-104.172897°)
ı	NAD 27 (SURFACE HOLE LOCATION)	NAD 27 (FIRST TAKE POINT)
ı	LATITUDE = 32°40'18.94" (32.671927°)	LATITUDE = 32°40'13.82" (32.670506°)
ı	LONGITUDE = -104°10'24.78" (-104.173550°)	LONGITUDE = -104°10'20.60" (-104.172388°)
ı	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
ı	N: 608257.27' E: 590347.07'	N: 607741.00' E: 590705.50'
ı	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
ı	N: 608195.09' E: 549167.40'	N: 607678.84' E: 549525.82'
ı	NAD 83 (LAST TAKE POINT)	NAD 83 (BOTTOM HOLE LOCATION)
ı	LATITUDE = 32°40'13.26" (32.670349°)	LATITUDE = 32°40'13.25" (32.670347°)
ı	LONGITUDE = -104°12'21.66" (-104.206016°)	LONGITUDE = -104°12'22.71" (-104.206308°)
ı	NAD 27 (LAST TAKE POINT)	NAD 27 (BOTTOM HOLE LOCATION)
ı	LATITUDE = 32°40'12.84" (32.670233°)	LATITUDE = 32°40'12.83" (32.670231°)
ı	LONGITUDE = -104°12'19.82" (-104.205506°)	LONGITUDE = -104°12'20.87" (-104.205798°)
ı	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
١	N: 607627.63' E: 580514.60'	N: 607626.71' E: 580424.62'
١	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)

N: 607565.54' E: 539334.92' N: 607564.62' E: 539244.94'
Reteased to Imaging. 6/26/2024 3.02.18 PM

Permian Resources - Klondike 9 State Com 134H

1. Geologic Formations

Formation	Elevation	TVD	Lithology	Target
Rustler	-3428.9	141	Sandstone	No
Top of Salt	-3188.9	381	Salt	No
Tansill	-608.9	2961	Anhydrite/Shale	No
Yates	-2798.9	771	Anhydrite/Shale	No
Seven Rivers	-2428.9	1141	Limestone	No
Queen	-1898.9	1671	Limestone	No
Grayburg	-1563.9	2006	Limestone	No
San Andres	-1143.9	2426	Limestone	No
Cherry Canyon	-718.9	2851	Sandstone	No
Brushy Canyon	-623.9	2946	Sandstone	No
Bone Spring Lime	-223.9	3346	Limestone/Shale	No
1st Bone Spring Sand	2626.1	6196	Sandstone/Limestone/Shale	No
2nd Bone Spring Sand	3541.1	7111	Sandstone/Limestone/Shale	No
3rd Bone Spring Sand	-3569.9	0	Sandstone/Limestone/Shale	Yes
Wolfcamp	-3569.9	0	Shale	No

2. Blowout Prevention

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ту	pe	x	Tested to:	
			Anr	ıular	Х	2500 psi	
			Blind	Ram	Х		
12.25	13-5/8"	5M	Pipe Ram		Х	5000 psi	
			Double Ram				
			Other*				
			Anr	ular	Х	2500 psi	
			Blind Ram		Х	5000 psi	
8.75	13-5/8"	5M	Pipe Ram		Х		
			Double Ram				
			Other*				

Equipment: BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermedicate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

Requesting Variance? YES

Variance request: Multibowl Wellhead, Flexhose, Breaktesting, Offline Cementing Variances. Attachments in Section 8.

Testing Procedure: Operator requests to ONLY test broken pressure seals per API Standard 53 and the attachments in Section 8. The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed, b. whenever any seal subject to test pressure is broken, c. following related repairs, d. at 21-day intervals. Testing of the ram type preventer(s) and annual type preventer(s) shall be tested per 43 CFR 3172. The BOPE configuration, choke manifold layout, and accumulator system will be in compliance with 43 CFR 3172. Bleed lines will discharge 100' from wellhead in non-H2S scenarios and 150' from wellhead in H2S scenarios.

Choke Diagram Attachemnt: 5 M Choke Manifold BOP Diagram Attachment: BOP Schematic

3. Casing

String	Hole Size	Casing Size	Тор	Bottom	Тор ТVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	166	0	166	166	J55	54.5	ВТС	13.78	4.58	Dry	8.34	Dry	7.82
Intermediate	12.25	9.625	0	2801	0	2801	2801	J55	36	ВТС	2.66	1.59	Dry	3.18	Dry	2.81
Production	8.75	5.5	0	8909	0	8581	8909	P110RY	17	GeoConn	1.68	1.75	Dry	2.22	Dry	2.22
Production	7.875	5.5	8909	18773	8581	8581	9864	P110RY	17	GeoConn	1.68	1.75	Dry	2.22	Dry	2.22
								BLM M	lin Saf	ety Factor	1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

String	Lead/Tail	Тор МD	Bottom MD	Quanity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Surface	Tail	0	166	140	1.34	14.8	180	50%	Class C	Accelerator
Intermediate	Lead	0	2240	500	2.08	12.7	1040	50%	Class C	Salt, Extender, and LCM
Intermediate	Tail	2240	2801	210	1.34	14.8	270	50%	Class C	Accelerator
Production	Lead	2301	8159	850	2.41	11.5	2030	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	8159	18773	1380	1.73	12.5	2380	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

5. Circulating Medium

Mud System Type: Closed

Will an air or gas system be used: No

Describe what will be on location to control well or mitigate oter conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Cuttings Volume: 8330 Cu Ft

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	166	Spud Mud	8.6	9.5
166	2801	Salt Saturated	10	10
2801	19038	Oil Based Mud	9	10

6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will utilize MWD/LWD from intermediate hole to TD of the well.

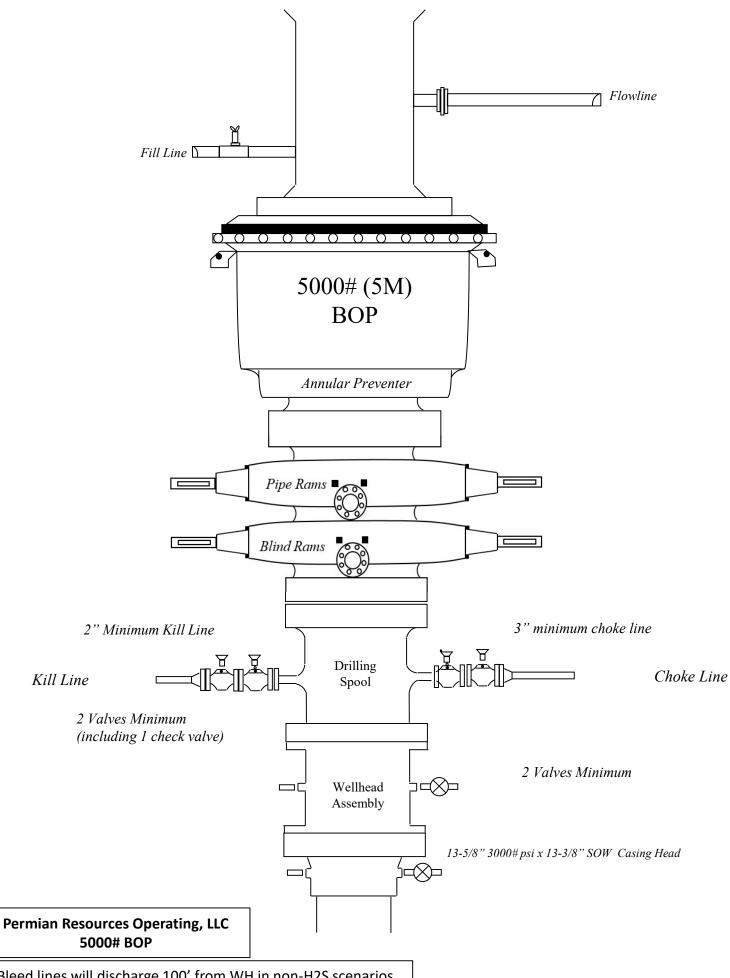
List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY

Coring operation description for the well:

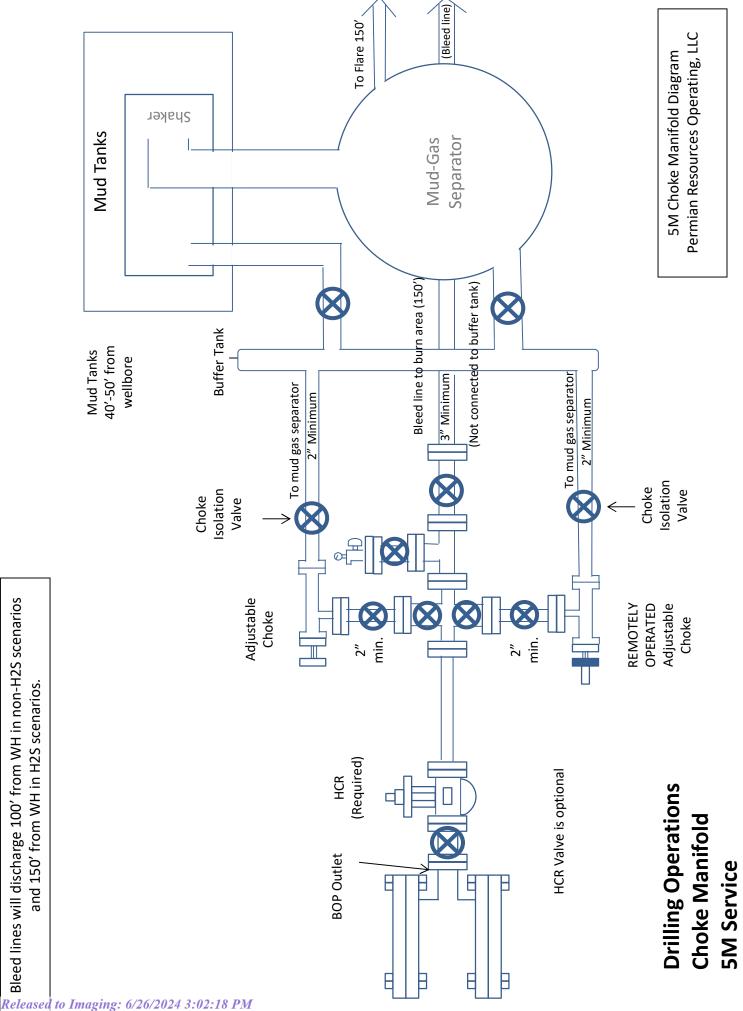
7. Pressure

Anticipated Bottom Hole Pressure	4470	psi
Anticipated Surface Pressure	2574.3	psi
Anticipated Bottom Hole Temperature	143	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	



Bleed lines will discharge 100' from WH in non-H2S scenarios

Released to Imaging 12590 100 MHz in H2S scenarios.





GATES ENGINEERING & SERVICES NORTH AMERICA

7603 Prairie Oak Dr. Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com WEB: www.gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

CUSTOMER P.O.#:

740414061 (SN: 62429 - 88061537)

CUSTOMER P/N:

SN: 62429 - 88061537

PART DESCRIPTION:

INSPECT AND RETEST CUSTOMER HOSE 3IN X 16FT CHOKE & KILL ASSEMBLY C/W 3-1/16

FLANGES BX154 SS INLAID RING GROOVE EACH END

SALES ORDER #:

525826

QUANTITY:

1

SERIAL #:

62429 H3-012523-17

SIGNATURE:	F. CISNEROS-	
TITLE:	QUALITY ASSURANCE	
DATE:	1/26/2023	



H3-12183

1/25/2023 2:59:32 PM

TEST REPORT

CUSTOMER

Sales order #:

HELMERICH & PAYNE Company:

INTERNATIONAL DRILLING CO.

psi

sec

psi

SN62429 525826

GTS-04-053

15000.00

3600.00

Production description:

Customer reference:

TEST OBJECT

Serial number:

Lot number:

Description:

SN62429

Hose ID:

3.0 CK03 16C 10K

3.0 x 3-1/16 10K

3.0 x 3-1/16 10K

H3-012523-17

Part number:

TEST INFORMATION

Test procedure: Test pressure:

Test pressure hold: Work pressure: Work pressure hold:

Length difference: Length difference: 10000.00

900.00 sec 0.00 % 0.00 inch Fitting 1: Part number: Description:

> Fitting 2: Part number:

Description:

Length:

16

feet

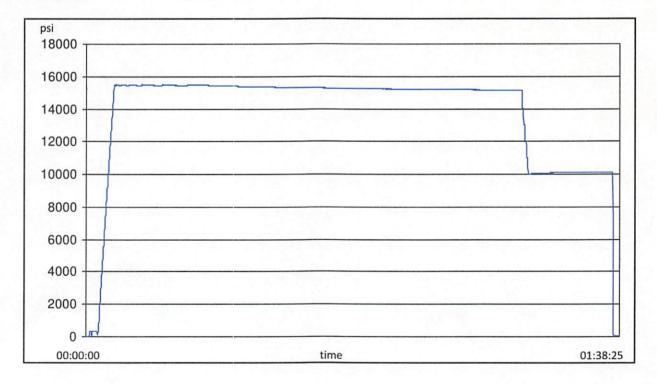
Visual check:

PASS Pressure test result:

Length measurement result:

Test operator:

Martin



D:\Certificates\Report_012523-H3-012523-17.pdf Filename:



H3-12183

1/25/2023 2:59:32 PM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AQA1S	2022-03-09	2023-03-09
S-25-A-W	110CBWVV	2022-03-09	2023-03-09
Comment			

Filename: D:\Certificates\Report_012523-H3-012523-17.pdf



CONTITECH RUBBER | No: QC-DB-062 / 2022 Industrial Kft.

Page: 16 / 131

ContiTech

			=									
TEST CERTIFICATE according to EN 10204 3.1 and Supplier's Declaration of Conformity acc. to ISO/IEC 17050-1												
CUSTOMER:		ContiTe	Oil & I	Marine (Corp.		C.O. N	·:	45	016244	07	
Supplier's nan	ne: Con	titech Rubb	er In	dusti	rial Kft.	Supplie	r's addres	ss: Bu	udapest	ti út 10.	H-6728	Szeged
CONTITECH OI	RDER N°:	1386035		HOSE TYPE: 3" ID Choke & Kill Hose								
HOSE SERIAL	- N°:	81142		NOM	IINAL / AC	CTUAL L	ENGTH:		7,9	92 m / 7	',90 m	
W.P. 69,0	MPa	10000	psi	T.P.	103,5	MPa	1500	O psi	Duratio	n:	60	min.
	Pressure test with water at mbient temperature											

See attachment (1 page)

COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with	4411	AISI 4130	68655
3 1/16" 10K API b.w. Flange end		AISI 4130	043795
3" coupling with	4428	AISI 4130	68626
3 1/16" 10K API Swivel Flange end		AISI 4130	041743
Hub		AISI 4130	54538

Not Designed For Well Testing

API Spec 16C 3rd Edition – FSL3

Fire Rated

Temperature rate: "B"

All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Customer Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, other technical standards and specifications and meet the relevant acceptance criteria and design requirements. This declaration of conformity is issued under the sole responsibility of the manufacturer.

COUNTRY OF ORIGIN HUNGARY/EU

Date:	Inspector	Quality Control	Richbon
28. February 2022.		Industri	al Kft. trai Dept.
		István Farkas	Mad Jas
		istvali i alkas	Lajos Bacsa

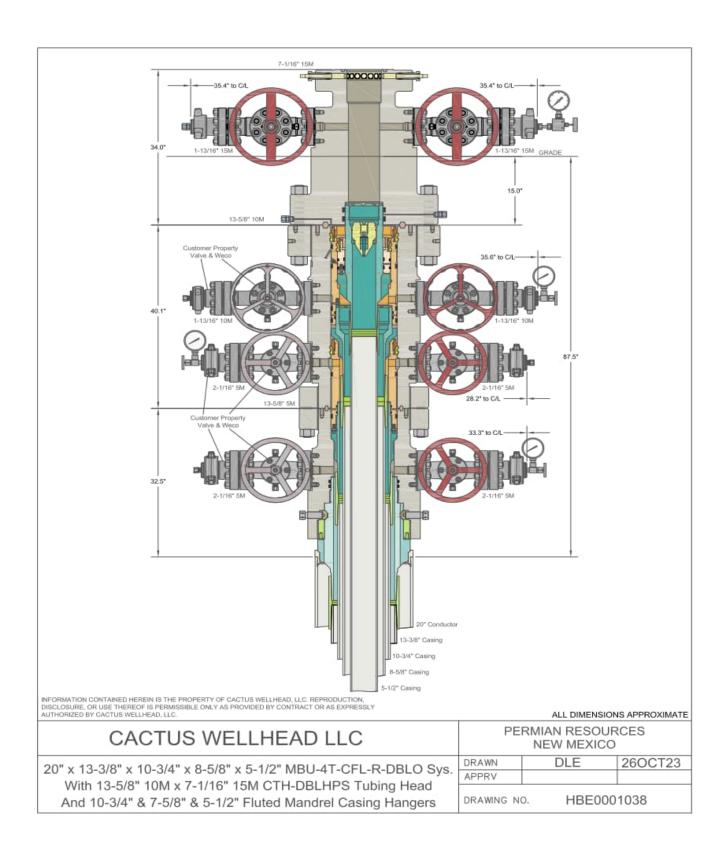
ContiTech Rubber Industrial Kft. | Budapesti út 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungary Phone: +36 20 292 2075 | e-mail: info@fluid.contitech.hu | Internet: www.contitech-rubber.hu; www.contitech-oil-gas.com The Court of Csongrád County as Registry Court | Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 81137, 81138, 81139, 81140, 81141, 81142

CONTITECH RUBBER No: QC-DB-062 / 2022 Industrial Kft. Page: 17 / 131

14 10min/div Cursor B 13:00:00 : 5.000 sec : 2022/02/26 11:20:10.000 : 2022/02/26 13:08:00.000 12:50:00 12:40:00 12:30:00 ContiTach Rubber Industrial Kft.
Quality Control Dept.
(1) Sampling Int. Start Time Stop Time 12:20:00 12:10:00 Absolute Time [h:m:s] Cursor A 048171_81137-81142.GEV;...,048181_81137-81142.GEV 81137,81138,81139,81140,81141,81142 GX10 85Fb66399 1295 -13.31 12:00:00 01:00:00:000 Press-Temp 2022/02/26 11:20:10.000 - 2022/02/26 13:08:00.000 110BFGHI 81137,81138,81139,81140,81141,81142 Difference Value B-A 1253 1057.49 19.88 11:50:00 2022/02/26 13:04:35.000 Cursor B Value B 533 1070.80 11:40:00 2022/02/26 12:04:35.000 Cursor A Value A 11:30:00 Ambient Temperature[°C] Absolute Time Tag Comment Pressure[bar] 2022/02/26 2500 2000 000 File Name File Message Device Type Serial No. Data Count 500 Print Group Print Range Comment Pressure[bar] 40+

Ambient Temperature[°C]



Permian Resources Casing Design Criteria

A sundry will be requested if any lesser grade or different size casing is substituted. All casing will be centralized as specified in On Shore Order II. Casing will be tested as specified in On Shore Order II.

Casing Design Assumptions:

Surface

- 1) Burst Design Loads
 - a) Displacement to Gas
 - Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate I

- 1) Burst Design Loads
 - a) Displacement to Gas
 - (1) Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.

- (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a
 depth where the hydrostatic pressure of the mud column equals pore pressure at the
 depth of the lost circulation zone.
 - External: Mud weight to TOC and cement slurry(s) density below TOC.
- Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate or Intermediate II

- 1) Burst Design Loads
 - a) Gas Kick Profile
 - Internal: Load profile based on influx encountered in lateral portion of wellbore with a maximum influx volume of 150 bbl and a kick intensity of 1.5 ppg using maximum anticipated MW of 9.9 ppg.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the deepest TVD of the next hole section and the fluid level falls
 to a depth where the hydrostatic pressure of the mud column equals pore pressure at the
 depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Production

- 1) Burst Design Loads
 - a) Injection Down Casing
 - Internal: Surface pressure plus injection fluid gradient.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC
 - b) Casing Pressure Test (Drilling)
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - c) Casing Pressure Test (Production)
 - (1) Internal: The design pressure test should be the greater of the planned test pressure prior to simulation down the casing, the regulatory test pressure, and the expected gas lift system pressure. The design test fluid should be the fluid associated with the pressure test having the greatest pressure.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - d) Tubing Leak
 - (1) Internal: SITP plus a packer fluid gradient to the top of packer.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
- Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
 - b) Full Evacuation
 - (1) Internal: Full void pipe.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Permian Resources Multi-Well Pad Batch Drilling Procedure

<u>Surface Casing</u> - PR intends to Batch set all surface casing to a depth approved in the APD. Surface Holes will be batch drilled by a rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

- 1. Drill Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
- 2. Run and land planned surface casing see Illustration 1-1 Below to depth approved in APD.
- 3. Set packoff and test to 5k psi
- 4. Offline Cement
- 5. Install wellhead with pressure gauge and nightcap. Nightcap is shown on final wellhead Stack up Illustration #2-2.
- 6. Skid Rig to adjacent well to drill Surface hole.
- 7. Surface casing test will be performed by the rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater not to exceed 70% casing burst.

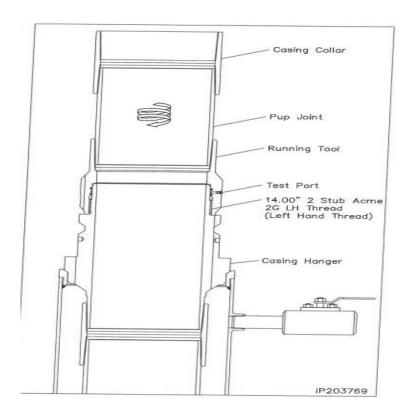


Illustration 1-1

<u>Intermediate Casing</u> – PR intends to Batch set all intermediate casing strings to a depth approved in the APD. Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior to testing BOPE, and prior to running/cementing all casing strings.

- 1. Rig will remove the nightcap and install and test BOPE.
- 2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test
- 3. Install wear bushing then drill out surface casing shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
- 4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
- 5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
- 6. Cement casing to surface with floats holding.
- 7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
- 8. Install pack-off and test void to 5,000 psi for 15 minutes. Nightcap shown on final wellhead stack up illustration 2-2 on page 3.
- 9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
- 10. Install nightcap skid rig to adjacent well to drill Intermediate hole.

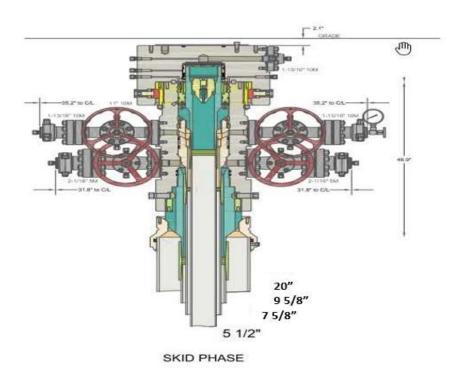


Illustration 2-2

<u>Production Casing</u> – PR intends to Batch set all Production casings with Rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

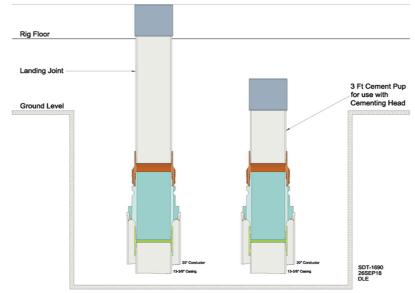
- 1. Drilling Rig will remove the nightcap and install and test BOPE.
- 2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
- 3. Drill Vertical hole to KOP Trip out for Curve BHA.
- 4. Drill Curve, landing in production interval Trip for Lateral BHA.
- 5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run Production Casing.
- 6. Remove wear bushing then run Production casing to TD landing casing mandrel in wellhead.
- 7. Cement Production string with floats holding.
- 8. Run in with wash tool and wash wellhead area install pack-off and test void to 5,000psi for 15 minutes.
- 9. Install BPV in Production mandrel hanger Nipple down BOPE and install nightcap.
- 10. Test nightcap void to 5,000 psi for 30 minutes per illustration 2-2
- 11. Skid rig to adjacent well on pad to drill production hole.

Permian Resources Offline Cementing Procedure Surface & Intermediate Casing

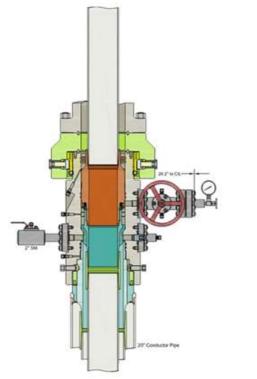
- 1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
- 2. Run and casing to Depth.
- 3. Land casing with mandrel.
- 4. Circulate 1.5 csg capacity.
- 5. Flow test Confirm well is static and floats are holding.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Nipple down BOP and install cap flange.
- 8. Skid rig to next well on pad
- 9. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
- 10. Install offline cement tool.
- 11. Rig up cementers.
- 12. Circulate bottoms up with cement truck
- 13. Commence planned cement job, take returns through the annulus wellhead valve
- 14. After plug is bumped confirm floats hold and well is static
- 15. Rig down cementers and equipment
- 16. Install night cap with pressure gauge to monitor.

13 3/8" Surface

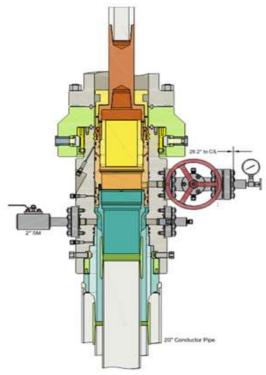
CFL Off-Line Cementing Tool



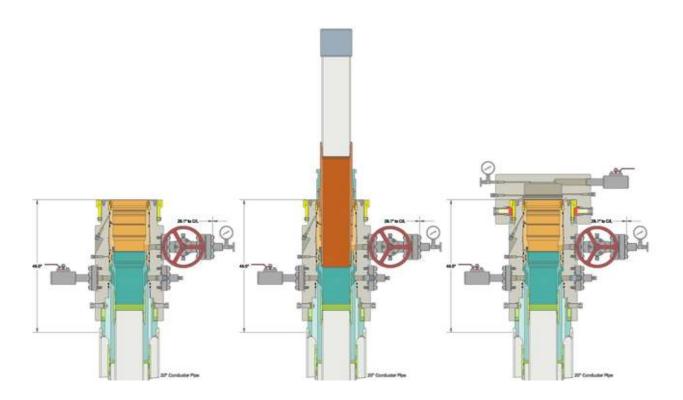
Intermediate



Run 7 5/8" Casing Land Casing on 7 5/8" Mandrel Hanger Cement 7 5/8" Casing Retrieve Running Tool



Run 9 5/8" Packoff
Test Upper and Lower Seals
Engage Lockring
Retrieve Running Tool



Permian Resources BOP Break Testing Variance Procedure

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE). Permian Resources requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Title 43 CFR 3172, Drilling Operations, Sections 6.b.9.iv states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. 43 CFR 3172.13, Variances from minimum standards states, "An operator may request the authorized officer to approve a variance from any of the minimum standards prescribed in §§ 3172.6 through 3172.12. All such requests shall be submitted in writing to the appropriate authorized officer and provide information as to the circumstances which warrant approval of the variance(s) requested and the proposed alternative methods by which the related minimum standard(s) are to be satisfied. The authorized officer, after considering all relevant factors, if appropriate, may approve the requested variance(s) if it is determined that the proposed alternative(s) meet or exceed the objectives of the applicable minimum standard(s).". Permian Resources feels the break testing the BOPE is such a situation. Therefore, as per 43 CFR 3172.13, Permian Resources submits this request for the variance.

Supporting Documentation

The language used in 43 CFR 3172 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time, there have been significant changes in drilling technology. The BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR 3172 was originally released. The Permian Resources drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System



American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. 43 CFR 3172 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

2	API STANDARD	53				
Ta	ble C.4—Initial Pressure Te	esting, Surface BOP Stacks				
	Pressure Test—Low	Pressure Test—High Pressure**				
Component to be Pressure Tested	Pressure** psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer or Ring Gasket			
Annular preventer	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.			
Fixed pipe, variable bore, blind, and BSR preventers∞	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ІТР			
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP			
Choke manifold—upstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP			
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or N whichever is lower	MASP for the well program,			
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program				
No visible leaks. The pressure shall remain stable Annular(s) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections	essure tested on the largest and sm: from one wellhead to another within when the integrity of a pressure se-		program. uired for pressure-containing and			
	land operations, the ram BOPs sha	ed with the ram locks engaged and Ill be pressure tested with the ram loc				

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

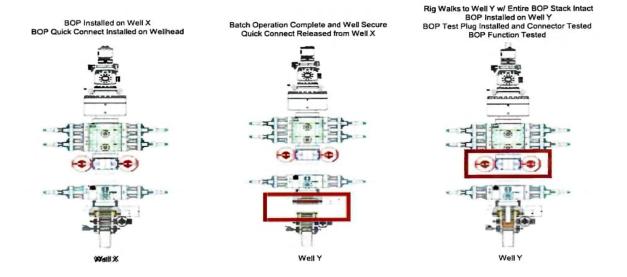
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

Permian Resources feels break testing and our current procedures meet the intent of 43 CFR 3172 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. Permian Resources internal standards require complete BOPE tests more often than that of 43 CFR 3172 (every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, Permian Resources performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of 43 CFR 3172.

Procedures

- 1) Permian Resources will use this document for our break testing plan for New Mexico Delaware Basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
- 2) Permian Resources will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a)A full BOP test will be conducted on the first well on the pad.
- b) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same formation depth or shallower.
- c) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d) A full BOP test will be required prior to drilling any production hole.
- 3) After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a) Between the HCV valve and choke line connection
 - b)Between the BOP quick connect and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5) After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6) The connections mentioned in 3a and 3b will then be reconnected.
- 7) Install test plug into the wellhead using test joint or drill pipe.
- 8) A shell test is performed against the upper pipe rams testing the two breaks.
- 9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10) Function tests will be performed on the following components: lower pipe rams, blind rams, and annular.
- 11) For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12) A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

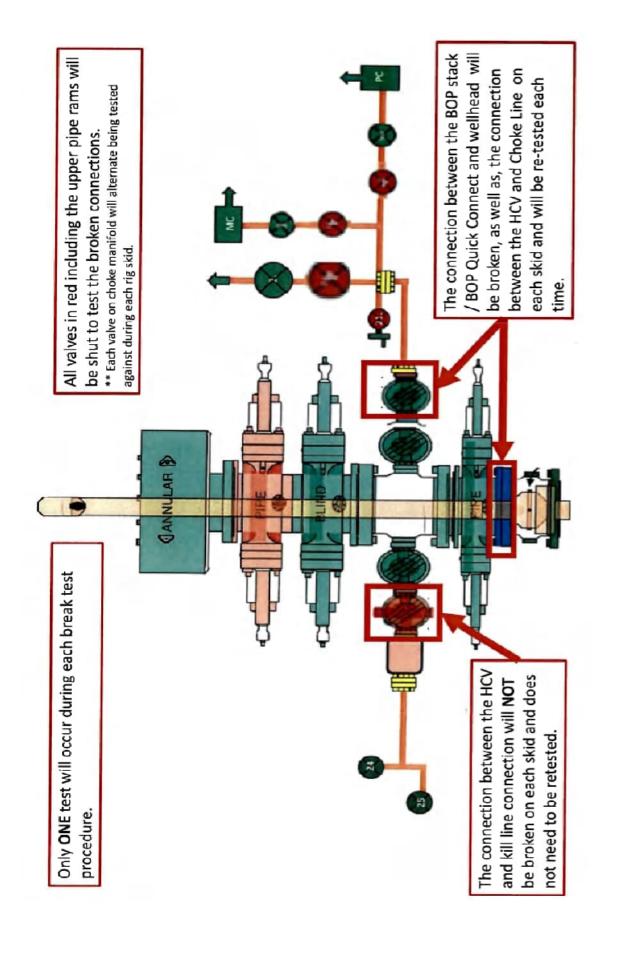
A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

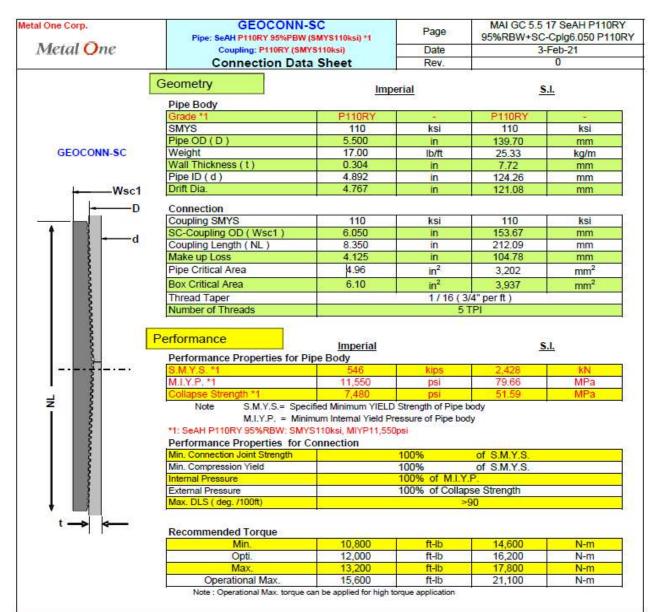
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control

event occurs prior to the commencement of a BOPE Break Testing operation.

Based on public data and the supporting documentation submitted herein to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1) After a full BOP test is conducted on the first well on the pad.
- 2) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same depth or shallower.
- 3) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4) A full BOP test will be required prior to drilling the production hole.





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Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

The products described in this connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtio.co.jp/mo-con/ Interest of the contents of which are incorporated by reference into this Connection Data Sheet.

NEW MEXICO

(SP) EDDY KLONDIKE Klondike 9 State Com 134H

OWB

Plan: PRELIM#1

Standard Planning Report - Geographic

20 June, 2024

Planning Report - Geographic

Database: Compass
Company: NEW MEXICO
Project: (SP) EDDY
Site: KLONDIKE

Well: Klondike 9 State Com 134H

Wellbore: OWB
Design: PRELIM#1

Local Co-ordinate Reference:

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

Well Klondike 9 State Com 134H

kb @ 3569.9usft kb @ 3569.9usft

Grid

Minimum Curvature

Project (SP) EDDY

Map System: US Geo Datum: Nor

Map Zone:

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

Mean Sea Level

Site KLONDIKE

 Site Position:
 Northing:
 608,290.26 usft
 Latitude:
 32° 40′ 19.683 N

 From:
 Map
 Easting:
 590,346.97 usft
 Longitude:
 104° 10′ 26.614 W

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

 Well
 Klondike 9 State Com 134H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 608,257.27 usft
 Latitude:
 32° 40′ 19.356 N

 +E/-W
 0.0 usft
 Easting:
 590,347.07 usft
 Longitude:
 104° 10' 26.613 W

 Position Uncertainty
 0.0 usft
 Wellhead Elevation:
 usft
 Ground Level:
 3,539.9 usft

Grid Convergence: 0.09 °

Wellbore OWB

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (nT)
 Field Strength (nT)

 IGRF200510
 12/31/2009
 8.06
 60.55
 48.994.48574643

Design PRELIM#1

Audit Notes:

Version: PROTOTYPE Tie On Depth: 0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S +E/-W (usft)
 Direction (usft)

 0.0
 0.0
 0.0
 266.39

Plan Survey Tool Program Date 6/20/2024

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 18,773.0 PRELIM#1 (OWB) MWD

OWSG Rev2 MWD - Star

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate **TFO** (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (usft) (°) (°) **Target** (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.00 0.00 0.00 0.00 2,500.0 2,500.0 0.0 3,000.0 10.00 140.98 2,997.5 -33.827.4 2.00 2.00 0.00 140.98 6,325.6 10.00 140.98 6,272.5 -482.5 391.0 0.00 0.00 0.00 0.00 -516.3 418.4 2.00 -2.00 0.00 180.00 6.825.6 0.00 0.00 6.770.0 0.00 0.00 8,103.5 -516.3 418.4 0.00 0.00 0.00 0.00 8,159.1 -521.3 -59.0 12.00 12.00 -12.08 269.39 8,909.1 90.00 269.39 8,581.0 -625.6 269.39 8,581.0 -9,922.4 0.00 0.00 0.00 0.00 Klondike 134H BHL 18,773.0 90.00

Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) EDDYSite:KLONDIKE

Well: Klondike 9 State Com 134H

Wellbore: OWB
Design: PRELIM#1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Klondike 9 State Com 134H

kb @ 3569.9usft kb @ 3569.9usft

Grid

Planned Surv	rey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0		0.00	0.0	0.0	0.0	608,257.27	590,347.07	32° 40′ 19.356 N	104° 10' 26.613 W
100.0		0.00	100.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
200.0		0.00	200.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
300.0 400.0		0.00 0.00	300.0 400.0	0.0 0.0	0.0 0.0	608,257.27 608,257.27	590,347.07 590,347.07	32° 40' 19.356 N 32° 40' 19.356 N	104° 10' 26.613 W 104° 10' 26.613 W
500.0		0.00	500.0	0.0	0.0	608,257.27	590,347.07	32° 40′ 19.356 N	104° 10′ 26.613 W
600.0		0.00	600.0	0.0	0.0	608,257.27	590,347.07	32° 40′ 19.356 N	104° 10′ 26.613 W
700.0		0.00	700.0	0.0	0.0	608,257.27	590,347.07	32° 40′ 19.356 N	104° 10′ 26.613 W
800.0		0.00	800.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
900.0		0.00	900.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,000.0		0.00	1,000.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,100.0		0.00	1,100.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	608,257.27	590,347.07	32° 40′ 19.356 N	104° 10' 26.613 W
1,400.0		0.00	1,400.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,500.0		0.00	1,500.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,600.0		0.00	1,600.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,700.0		0.00	1,700.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,800.0		0.00	1,800.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
1,900.0		0.00	1,900.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N 32° 40' 19.356 N	104° 10' 26.613 W
2,000.0 2,100.0		0.00 0.00	2,000.0 2,100.0	0.0 0.0	0.0 0.0	608,257.27 608,257.27	590,347.07 590,347.07	32° 40′ 19.356 N	104° 10' 26.613 W 104° 10' 26.613 W
2,100.0		0.00	2,100.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
2,300.0		0.00	2,300.0	0.0	0.0	608,257.27	590,347.07	32° 40′ 19.356 N	104° 10′ 26.613 W
2,400.0		0.00	2,400.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
2,500.0		0.00	2,500.0	0.0	0.0	608,257.27	590,347.07	32° 40' 19.356 N	104° 10' 26.613 W
	uild 2.00		,			,	,		
2,600.0	2.00	140.98	2,600.0	-1.4	1.1	608,255.92	590,348.17	32° 40' 19.343 N	104° 10' 26.601 W
2,700.0	4.00	140.98	2,699.8	-5.4	4.4	608,251.85	590,351.47	32° 40' 19.303 N	104° 10' 26.562 W
2,800.0		140.98	2,799.5	-12.2	9.9	608,245.08	590,356.95	32° 40' 19.236 N	104° 10' 26.498 W
2,900.0		140.98	2,898.7	-21.7	17.6	608,235.61	590,364.63	32° 40' 19.142 N	104° 10' 26.408 W
3,000.0		140.98	2,997.5	-33.8	27.4	608,223.46	590,374.48	32° 40' 19.021 N	104° 10' 26.293 W
	325.6 hold a			-47.3	38.3	609 200 07	590,385.41	20° 40' 40 000 N	10.4° 10' 06 166 W
3,100.0		140.98 140.98	3,095.9 3,194.4	-47.3 -60.8	38.3 49.3	608,209.97 608,196.48	590,385.41	32° 40' 18.888 N 32° 40' 18.754 N	104° 10' 26.166 W 104° 10' 26.038 W
3,200.0 3,300.0		140.98	3,194.4	-74.3	60.2	608,182.99	590,390.34	32° 40' 18.620 N	104° 10′ 25.910 W
3,400.0		140.98	3,391.4	-74.3 -87.8	71.1	608,169.50	590,418.21	32° 40' 18.487 N	104° 10' 25.783 W
3,500.0		140.98	3,489.9	-101.3	82.1	608,156.01	590,429.14	32° 40' 18.353 N	104° 10' 25.655 W
3,600.0		140.98	3,588.3	-114.8	93.0	608,142.52	590,440.08	32° 40' 18.220 N	104° 10' 25.527 W
3,700.0		140.98	3,686.8	-128.2	103.9	608,129.03	590,451.01	32° 40' 18.086 N	104° 10' 25.400 W
3,800.0		140.98	3,785.3	-141.7	114.9	608,115.53	590,461.94	32° 40' 17.952 N	104° 10' 25.272 W
3,900.0	10.00	140.98	3,883.8	-155.2	125.8	608,102.04	590,472.88	32° 40' 17.819 N	104° 10' 25.144 W
4,000.0		140.98	3,982.3	-168.7	136.7	608,088.55	590,483.81	32° 40' 17.685 N	104° 10' 25.017 W
4,100.0		140.98	4,080.8	-182.2	147.7	608,075.06	590,494.74	32° 40' 17.551 N	104° 10' 24.889 W
4,200.0		140.98	4,179.2	-195.7	158.6	608,061.57	590,505.68	32° 40' 17.418 N	104° 10' 24.761 W
4,300.0		140.98	4,277.7	-209.2	169.5	608,048.08	590,516.61	32° 40' 17.284 N	104° 10' 24.634 W
4,400.0		140.98	4,376.2	-222.7	180.5	608,034.59	590,527.54	32° 40' 17.150 N	104° 10' 24.506 W
4,500.0 4,600.0		140.98 140.98	4,474.7 4,573.2	-236.2 -249.7	191.4 202.3	608,021.10 608,007.61	590,538.48 590,549.41	32° 40' 17.017 N 32° 40' 16.883 N	104° 10' 24.378 W 104° 10' 24.251 W
4,600.0		140.98	4,573.2 4,671.6	-249.7 -263.2	202.3 213.3	607,994.12	590,549.41	32° 40′ 16.749 N	104 10 24.251 W 104° 10' 24.123 W
4,800.0		140.98	4,770.1	-203.2 -276.6	224.2	607,980.63	590,571.28	32° 40' 16.616 N	104° 10′ 23.995 W
4,900.0		140.98	4,868.6	-290.1	235.1	607,967.14	590,582.21	32° 40' 16.482 N	104° 10' 23.868 W
5,000.0		140.98	4,967.1	-303.6	246.1	607,953.65	590,593.14	32° 40' 16.348 N	104° 10' 23.740 W
5,100.0		140.98	5,065.6	-317.1	257.0	607,940.16	590,604.08	32° 40' 16.215 N	104° 10' 23.612 W
-									

Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) EDDYSite:KLONDIKE

Well: Klondike 9 State Com 134H

Wellbore: OWB
Design: PRELIM#1

Local Co-ordinate Reference:

TVD Reference:
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Survey Calculation Method:

Well Klondike 9 State Com 134H

kb @ 3569.9usft kb @ 3569.9usft

Grid

Planned Surv	rey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,200.0	10.00	140.98	5,164.0	-330.6	267.9	607,926.66	590,615.01	32° 40′ 16.081 N	104° 10' 23.485 W
5,300.0	10.00	140.98	5,262.5	-344.1	278.9	607,913.17	590,625.94	32° 40′ 15.947 N	104° 10' 23.357 W
5,400.0	10.00	140.98	5,361.0	-357.6	289.8	607,899.68	590,636.87	32° 40′ 15.814 N	104° 10' 23.229 W
5,500.0	10.00	140.98	5,459.5	-371.1	300.7	607,886.19	590,647.81	32° 40' 15.680 N	104° 10' 23.101 W
5,600.0	10.00	140.98	5,558.0	-384.6	311.7	607,872.70	590,658.74	32° 40′ 15.546 N	104° 10' 22.974 W
5,700.0	10.00	140.98	5,656.4	-398.1	322.6	607,859.21	590,669.67	32° 40' 15.413 N	104° 10' 22.846 W
5,800.0	10.00	140.98	5,754.9	-411.6	333.5	607,845.72	590,680.61	32° 40' 15.279 N	104° 10' 22.718 W
5,900.0	10.00	140.98	5,853.4	-425.0	344.5	607,832.23	590,691.54	32° 40′ 15.145 N	104° 10' 22.591 W
6,000.0	10.00	140.98	5,951.9	-438.5	355.4	607,818.74	590,702.47	32° 40′ 15.012 N	104° 10' 22.463 W
6,100.0	10.00	140.98	6,050.4	-452.0	366.3	607,805.25	590,713.41	32° 40′ 14.878 N	104° 10' 22.335 W
6,200.0		140.98	6,148.9	-465.5	377.3	607,791.76	590,724.34	32° 40′ 14.744 N	104° 10' 22.208 W
6,300.0		140.98	6,247.3	-479.0	388.2	607,778.27	590,735.27	32° 40' 14.611 N	104° 10' 22.080 W
6,325.6	10.00	140.98	6,272.5	-482.5	391.0	607,774.82	590,738.07	32° 40' 14.577 N	104° 10' 22.047 W
	rop -2.00								
6,400.0		140.98	6,346.0	-491.8	398.5	607,765.52	590,745.61	32° 40' 14.484 N	104° 10' 21.959 W
6,500.0		140.98	6,445.1	-501.9	406.8	607,755.36	590,753.84	32° 40' 14.384 N	104° 10' 21.863 W
6,600.0		140.98	6,544.6	-509.4	412.8	607,747.90	590,759.88	32° 40' 14.310 N	104° 10' 21.793 W
6,700.0		140.98	6,644.4	-514.1	416.7	607,743.14	590,763.74	32° 40' 14.263 N	104° 10' 21.748 W
6,800.0		140.98	6,744.4	-516.2	418.3	607,741.09	590,765.40	32° 40' 14.242 N	104° 10' 21.728 W
6,825.6		0.00	6,770.0	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
	333.5 hold a			= 4.0.0				000 101 11 010 11	40.40.40104.707.114
6,900.0		0.00	6,844.4	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
7,000.0		0.00	6,944.4	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
7,100.0		0.00	7,044.4	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
7,200.0		0.00	7,144.4	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
7,300.0		0.00	7,244.4	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
7,400.0 7,500.0		0.00 0.00	7,344.4 7,444.4	-516.3 -516.3	418.4 418.4	607,741.00 607,741.00	590,765.47 590,765.47	32° 40' 14.242 N 32° 40' 14.242 N	104° 10' 21.727 W 104° 10' 21.727 W
7,600.0		0.00	7,444.4 7,544.4	-516.3 -516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10′ 21.727 W
7,700.0		0.00	7,544.4 7,644.4	-516.3 -516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10′ 21.727 W
7,800.0		0.00	7,044.4	-516.3 -516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10′ 21.727 W
7,900.0		0.00	7,744.4	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
8,000.0		0.00	7,944.4	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
8,100.0		0.00	8,044.4	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
8,159.1		0.00	8,103.5	-516.3	418.4	607,741.00	590,765.47	32° 40' 14.242 N	104° 10' 21.727 W
	LS 12.00 TF		, , , ,			,			
8,175.0		269.39	8,119.4	-516.3	418.1	607,741.00	590,765.21	32° 40' 14.242 N	104° 10' 21.731 W
8,200.0	4.91	269.39	8,144.4	-516.3	416.6	607,740.99	590,763.72	32° 40' 14.241 N	104° 10' 21.748 W
8,225.0	7.91	269.39	8,169.2	-516.3	413.9	607,740.96	590,760.93	32° 40' 14.241 N	104° 10' 21.781 W
8,250.0	10.91	269.39	8,193.9	-516.4	409.8	607,740.91	590,756.85	32° 40' 14.241 N	104° 10' 21.828 W
8,275.0	13.91	269.39	8,218.3	-516.4	404.4	607,740.86	590,751.47	32° 40' 14.240 N	104° 10' 21.891 W
8,300.0		269.39	8,242.4	-516.5	397.8	607,740.79	590,744.83	32° 40' 14.240 N	104° 10' 21.969 W
8,325.0		269.39	8,266.1	-516.6	389.9	607,740.70	590,736.94	32° 40' 14.239 N	104° 10' 22.061 W
8,350.0		269.39	8,289.4	-516.7	380.7	607,740.61	590,727.82	32° 40' 14.238 N	104° 10' 22.168 W
8,375.0		269.39	8,312.1	-516.8	370.4	607,740.50	590,717.49	32° 40' 14.237 N	104° 10' 22.289 W
8,400.0		269.39	8,334.3	-516.9	358.9	607,740.37	590,705.98	32° 40' 14.236 N	104° 10' 22.423 W
8,425.0		269.39	8,355.9	-517.0	346.3	607,740.24	590,693.33	32° 40' 14.235 N	104° 10' 22.572 W
8,450.0		269.39	8,376.7	-517.2	332.5	607,740.09	590,679.56	32° 40' 14.234 N	104° 10' 22.733 W
8,475.0 8,500.0		269.39 269.39	8,396.9 8,416.2	-517.3 -517.5	317.7 301.8	607,739.94 607,739.77	590,664.73 590,648.86	32° 40' 14.233 N 32° 40' 14.231 N	104° 10' 22.906 W 104° 10' 23.092 W
8,525.0		269.39	8,434.6	-517.5 -517.7	284.9	607,739.59	590,632.00	32° 40' 14.231 N	104° 10′ 23.289 W
8,550.0		269.39	8,452.2	-517.7 -517.9	267.1	607,739.40	590,614.20	32° 40' 14.228 N	104° 10' 23.497 W
8,575.0		269.39	8,468.8	-518.1	248.4	607,739.21	590,595.51	32° 40' 14.226 N	104° 10' 23.716 W
8,600.0		269.39	8,484.4	-518.3	228.9	607,739.00	590,575.97	32° 40' 14.225 N	104° 10' 23.945 W
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Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) EDDYSite:KLONDIKE

Well: Klondike 9 State Com 134H

Wellbore: OWB
Design: PRELIM#1

Local Co-ordinate Reference:

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Survey Calculation Method:

Well Klondike 9 State Com 134H

kb @ 3569.9usft kb @ 3569.9usft

Grid

Planned Surv	rey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,625.0	55.91	269.39	8,498.9	-518.5	208.6	607,738.78	590,555.64	32° 40' 14.223 N	104° 10' 24.182 W
8,650.0		269.39	8,512.4	-518.7	187.5	607,738.56	590,534.58	32° 40' 14.221 N	104° 10' 24.429 W
8,675.0		269.39	8,524.7	-518.9	165.8	607,738.33	590,512.85	32° 40′ 14.219 N	104° 10' 24.683 W
8,700.0		269.39	8,535.9	-519.2	143.4	607,738.10	590,490.50	32° 40' 14.217 N	104° 10' 24.945 W
8,725.0		269.39	8,545.9	-519.4	120.5	607,737.85	590,467.59	32° 40' 14.215 N	104° 10' 25.213 W
8,750.0		269.39	8,554.7	-519.7	97.1	607,737.61	590,444.19	32° 40' 14.213 N	104° 10' 25.486 W
8,775.0 8,800.0		269.39 269.39	8,562.3 8,568.6	-519.9 -520.2	73.3 49.1	607,737.35 607,737.10	590,420.36 590,396.17	32° 40' 14.211 N 32° 40' 14.208 N	104° 10' 25.765 W 104° 10' 26.048 W
8,825.0		269.39	8,573.6	-520.2 -520.4	24.6	607,736.84	590,390.17	32° 40′ 14.206 N	104° 10' 26.335 W
8,850.0		269.39	8,577.3	-520.4	-0.1	607,736.58	590,346.97	32° 40′ 14.204 N	104° 10' 26.624 W
8,875.0		269.39	8,579.7	- 521.0	- 25.0	607,736.31	590,322.10	32° 40' 14.202 N	104° 10' 26.915 W
8,900.0		269.39	8,580.9	-521.2	-49.9	607,736.05	590,297.13	32° 40' 14.200 N	104° 10' 27.207 W
8,909.1		269.39	8,581.0	-521.3	-59.0	607,735.95	590,288.04	32° 40' 14.199 N	104° 10' 27.313 W
Start 9	864.0 hold a	t 8909.1 MD							
9,000.0	90.00	269.39	8,581.0	-522.3	-149.9	607,734.99	590,197.13	32° 40' 14.191 N	104° 10' 28.377 W
9,100.0		269.39	8,581.0	-523.3	-249.9	607,733.93	590,097.14	32° 40' 14.182 N	104° 10' 29.547 W
9,200.0		269.39	8,581.0	-524.4	-349.9	607,732.88	589,997.14	32° 40′ 14.173 N	104° 10' 30.716 W
9,300.0		269.39	8,581.0	-525.5	-449.9	607,731.82	589,897.15	32° 40' 14.164 N	104° 10' 31.886 W
9,400.0		269.39	8,581.0	-526.5	-549.9	607,730.76	589,797.15	32° 40' 14.155 N	104° 10' 33.056 W
9,500.0 9,600.0		269.39 269.39	8,581.0 8,581.0	-527.6 -528.6	-649.9 -749.9	607,729.70 607,728.65	589,697.16 589,597.17	32° 40' 14.146 N 32° 40' 14.137 N	104° 10' 34.226 W 104° 10' 35.396 W
9,700.0		269.39	8,581.0	-526.0 -529.7	-749.9 -849.9	607,727.59	589,497.17	32° 40' 14.137 N	104° 10' 36.566 W
9,800.0		269.39	8,581.0	-529.7 -530.7	-949.9	607,726.53	589,397.18	32° 40′ 14.119 N	104° 10' 37.736 W
9,900.0		269.39	8,581.0	-531.8	-1,049.9	607,725.47	589,297.18	32° 40' 14.110 N	104° 10' 38.906 W
10,000.0		269.39	8,581.0	-532.9	-1,149.9	607,724.42	589,197.19	32° 40' 14.101 N	104° 10' 40.076 W
10,100.0		269.39	8,581.0	-533.9	-1,249.9	607,723.36	589,097.19	32° 40' 14.092 N	104° 10' 41.245 W
10,200.0	90.00	269.39	8,581.0	-535.0	-1,349.9	607,722.30	588,997.20	32° 40' 14.082 N	104° 10' 42.415 W
10,300.0		269.39	8,581.0	-536.0	-1,449.9	607,721.24	588,897.21	32° 40′ 14.073 N	104° 10' 43.585 W
10,400.0		269.39	8,581.0	-537.1	-1,549.9	607,720.18	588,797.21	32° 40' 14.064 N	104° 10' 44.755 W
10,500.0		269.39	8,581.0	-538.1	-1,649.9	607,719.13	588,697.22	32° 40' 14.055 N	104° 10' 45.925 W
10,600.0		269.39	8,581.0	-539.2	-1,749.9	607,718.07	588,597.22	32° 40' 14.046 N	104° 10' 47.095 W
10,700.0 10,800.0		269.39 269.39	8,581.0 8,581.0	-540.3 -541.3	-1,849.8 -1,949.8	607,717.01 607,715.95	588,497.23 588,397.23	32° 40' 14.037 N 32° 40' 14.028 N	104° 10' 48.265 W 104° 10' 49.435 W
10,800.0		269.39	8,581.0	-541.3 -542.4	-1,949.6 -2,049.8	607,714.90	588,297.24	32° 40′ 14.028 N	104° 10' 50.604 W
11,000.0		269.39	8,581.0	-543.4	-2,049.8 -2,149.8	607,713.84	588,197.24	32° 40' 14.019 N	104° 10' 51.774 W
11,100.0		269.39	8,581.0	-544.5	-2,249.8	607,712.78	588,097.25	32° 40' 14.001 N	104° 10' 52.944 W
11,200.0		269.39	8,581.0	-545.6	-2,349.8	607,711.72	587,997.26	32° 40' 13.992 N	104° 10' 54.114 W
11,300.0		269.39	8,581.0	-546.6	-2,449.8	607,710.67	587,897.26	32° 40' 13.983 N	104° 10' 55.284 W
11,400.0		269.39	8,581.0	-547.7	-2,549.8	607,709.61	587,797.27	32° 40' 13.974 N	104° 10' 56.454 W
11,500.0		269.39	8,581.0	-548.7	-2,649.8	607,708.55	587,697.27	32° 40' 13.965 N	104° 10' 57.624 W
11,600.0		269.39	8,581.0	-549.8	-2,749.8	607,707.49	587,597.28	32° 40′ 13.956 N	104° 10' 58.794 W
11,700.0		269.39	8,581.0	-550.8	-2,849.8	607,706.43	587,497.28	32° 40' 13.947 N	104° 10' 59.963 W
11,800.0		269.39	8,581.0	-551.9	-2,949.8	607,705.38	587,397.29	32° 40' 13.938 N	104° 11' 1.133 W
11,900.0 12,000.0		269.39 269.39	8,581.0 8,581.0	-553.0 -554.0	-3,049.8 -3,149.8	607,704.32 607,703.26	587,297.29 587,197.30	32° 40' 13.929 N 32° 40' 13.920 N	104° 11' 2.303 W 104° 11' 3.473 W
12,000.0		269.39	8,581.0	-555.1	-3,149.6 -3,249.8	607,702.20	587,197.30	32° 40′ 13.920 N	104° 11' 4.643 W
12,100.0		269.39	8,581.0	-556.1	-3,249.8 -3,349.8	607,702.20	586,997.31	32° 40' 13.901 N	104° 11' 5.813 W
12,300.0		269.39	8,581.0	-557.2	-3,449.8	607,700.09	586,897.32	32° 40' 13.892 N	104° 11' 6.983 W
12,400.0		269.39	8,581.0	-558.2	-3,549.8	607,699.03	586,797.32	32° 40' 13.883 N	104° 11' 8.153 W
12,500.0		269.39	8,581.0	-559.3	-3,649.7	607,697.97	586,697.33	32° 40' 13.874 N	104° 11' 9.322 W
12,600.0		269.39	8,581.0	-560.4	-3,749.7	607,696.92	586,597.33	32° 40′ 13.865 N	104° 11' 10.492 W
12,700.0		269.39	8,581.0	-561.4	-3,849.7	607,695.86	586,497.34	32° 40′ 13.856 N	104° 11' 11.662 W
12,800.0		269.39	8,581.0	-562.5	-3,949.7	607,694.80	586,397.34	32° 40' 13.847 N	104° 11' 12.832 W
12,900.0	90.00	269.39	8,581.0	-563.5	-4,049.7	607,693.74	586,297.35	32° 40' 13.838 N	104° 11' 14.002 W

Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) EDDYSite:KLONDIKE

Well: Klondike 9 State Com 134H

Wellbore: OWB
Design: PRELIM#1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Klondike 9 State Com 134H

kb @ 3569.9usft kb @ 3569.9usft

Grid

Planned Survey Measured Vertical Map Map Depth Inclination Azimuth Depth +N/-S +E/-W Northing Easting	
Measured Vertical Map Map	
(usft) (°) (°) (usft) (usft) (usft) (usft) (usft) (usft) Latitude	Longitude
13,000.0 90.00 269.39 8,581.0 -564.6 -4,149.7 607,692.68 586,197.36 32° 40' 13.829 N	104° 11' 15.172 W
13,100.0 90.00 269.39 8,581.0 -565.6 -4,249.7 607,691.63 586,097.36 32° 40' 13.820 N	
13,200.0 90.00 269.39 8,581.0 -566.7 -4,349.7 607,690.57 585,997.37 32° 40' 13.810 N	
13,300.0 90.00 269.39 8,581.0 -567.8 -4,449.7 607,689.51 585,897.37 32° 40' 13.801 N	
13,400.0 90.00 269.39 8,581.0 -568.8 -4,549.7 607,688.45 585,797.38 32° 40' 13.792 N	
13,500.0 90.00 269.39 8,581.0 -569.9 -4,649.7 607,687.40 585,697.38 32° 40' 13.783 N	
13,600.0 90.00 269.39 8,581.0 -570.9 -4,749.7 607,686.34 585,597.39 32° 40' 13.774 N	104° 11' 22.191 W
13,700.0 90.00 269.39 8,581.0 -572.0 -4,849.7 607,685.28 585,497.40 32° 40' 13.765 N	104° 11' 23.361 W
13,800.0 90.00 269.39 8,581.0 -573.1 -4,949.7 607,684.22 585,397.40 32° 40' 13.756 N	
13,900.0 90.00 269.39 8,581.0 -574.1 -5,049.7 607,683.17 585,297.41 32° 40' 13.747 N	
14,000.0 90.00 269.39 8,581.0 -575.2 -5,149.7 607,682.11 585,197.41 32° 40' 13.737 N	
14,100.0 90.00 269.39 8,581.0 -576.2 -5,249.7 607,681.05 585,097.42 32° 40' 13.728 N	
14,200.0 90.00 269.39 8,581.0 -577.3 -5,349.6 607,679.99 584,997.42 32° 40' 13.719 N	
14,300.0 90.00 269.39 8,581.0 -578.3 -5,449.6 607,678.93 584,897.43 32° 40' 13.710 N	
14,400.0 90.00 269.39 8,581.0 -579.4 -5,549.6 607,677.88 584,797.43 32° 40' 13.701 N	
14,500.0 90.00 269.39 8,581.0 -580.5 -5,649.6 607,676.82 584,697.44 32° 40' 13.692 N	
14,600.0 90.00 269.39 8,581.0 -581.5 -5,749.6 607,675.76 584,597.45 32° 40' 13.683 N	
14,700.0 90.00 269.39 8,581.0 -582.6 -5,849.6 607,674.70 584,497.45 32° 40' 13.673 N	
14,800.0 90.00 269.39 8,581.0 -583.6 -5,949.6 607,673.65 584,397.46 32° 40' 13.664 N 14,900.0 90.00 269.39 8,581.0 -584.7 -6,049.6 607,672.59 584,297.46 32° 40' 13.655 N	
15,000.0 90.00 269.39 8,581.0 -585.7 -6,149.6 607,671.53 584,197.47 32° 40' 13.646 N	
15,100.0 90.00 269.39 8,581.0 -586.8 -6,249.6 607,670.47 584,097.47 32° 40′ 13.637 N	
15,200.0 90.00 269.39 8,581.0 -587.9 -6,349.6 607,669.42 583,997.48 32° 40' 13.628 N	
15,300.0 90.00 269.39 8,581.0 -588.9 -6,449.6 607,668.36 583,897.48 32° 40' 13.618 N	
15,400.0 90.00 269.39 8,581.0 -590.0 -6,549.6 607,667.30 583,797.49 32° 40' 13.609 N	
15,500.0 90.00 269.39 8,581.0 -591.0 -6,649.6 607,666.24 583,697.50 32° 40' 13.600 N	
15,600.0 90.00 269.39 8,581.0 -592.1 -6,749.6 607,665.18 583,597.50 32° 40' 13.591 N	
15,700.0 90.00 269.39 8,581.0 -593.1 -6,849.6 607,664.13 583,497.51 32° 40' 13.582 N	
15,800.0 90.00 269.39 8,581.0 -594.2 -6,949.6 607,663.07 583,397.51 32° 40' 13.572 N	104° 11' 47.928 W
15,900.0 90.00 269.39 8,581.0 -595.3 -7,049.6 607,662.01 583,297.52 32° 40' 13.563 N	
16,000.0 90.00 269.39 8,581.0 -596.3 -7,149.5 607,660.95 583,197.52 32° 40' 13.554 N	104° 11' 50.268 W
16,100.0 90.00 269.39 8,581.0 -597.4 -7,249.5 607,659.90 583,097.53 32° 40' 13.545 N	
16,200.0 90.00 269.39 8,581.0 -598.4 -7,349.5 607,658.84 582,997.53 32° 40' 13.536 N	
16,300.0 90.00 269.39 8,581.0 -599.5 -7,449.5 607,657.78 582,897.54 32° 40' 13.526 N	
16,400.0 90.00 269.39 8,581.0 -600.6 -7,549.5 607,656.72 582,797.55 32° 40' 13.517 N	
16,500.0 90.00 269.39 8,581.0 -601.6 -7,649.5 607,655.67 582,697.55 32° 40' 13.508 N	
16,600.0 90.00 269.39 8,581.0 -602.7 -7,749.5 607,654.61 582,597.56 32° 40' 13.499 N	
16,700.0 90.00 269.39 8,581.0 -603.7 -7,849.5 607,653.55 582,497.56 32° 40' 13.490 N	
16,800.0 90.00 269.39 8,581.0 -604.8 -7,949.5 607,652.49 582,397.57 32° 40' 13.480 N	
16,900.0 90.00 269.39 8,581.0 -605.8 -8,049.5 607,651.43 582,297.57 32° 40' 13.471 N	
17,000.0 90.00 269.39 8,581.0 -606.9 -8,149.5 607,650.38 582,197.58 32° 40' 13.462 N 17,100.0 90.00 269.39 8,581.0 -608.0 -8,249.5 607,649.32 582,097.59 32° 40' 13.453 N	
17,100.0 90.00 269.39 8,581.0 -608.0 -8,249.5 607,649.32 582,097.59 32° 40' 13.453 N 17,200.0 90.00 269.39 8,581.0 -609.0 -8,349.5 607,648.26 581,997.59 32° 40' 13.444 N	
17,200.0 90.00 269.39 8,581.0 -610.1 -8,449.5 607,647.20 581,897.60 32° 40' 13.434 N	
17,400.0 90.00 269.39 8,581.0 -611.1 -8,549.5 607,646.15 581,797.60 32°40' 13.425 N	
17,500.0 90.00 269.39 8,581.0 -612.2 -8,649.5 607,645.09 581,697.61 32° 40' 13.416 N	
17,600.0 90.00 269.39 8,581.0 -613.2 -8,749.5 607,644.03 581,597.61 32° 40' 13.407 N	
17,700.0 90.00 269.39 8,581.0 -614.3 -8,849.5 607,642.97 581,497.62 32° 40' 13.397 N	
17,800.0 90.00 269.39 8,581.0 -615.4 -8,949.4 607,641.92 581,397.62 32° 40' 13.388 N	
17,900.0 90.00 269.39 8,581.0 -616.4 -9,049.4 607,640.86 581,297.63 32° 40' 13.379 N	
18,000.0 90.00 269.39 8,581.0 -617.5 -9,149.4 607,639.80 581,197.64 32° 40' 13.370 N	
18,100.0 90.00 269.39 8,581.0 -618.5 -9,249.4 607,638.74 581,097.64 32° 40' 13.360 N	
18,200.0 90.00 269.39 8,581.0 -619.6 -9,349.4 607,637.68 580,997.65 32° 40' 13.351 N	
18,300.0 90.00 269.39 8,581.0 -620.6 -9,449.4 607,636.63 580,897.65 32° 40' 13.342 N	104° 12' 17.175 W
18,400.0 90.00 269.39 8,581.0 -621.7 -9,549.4 607,635.57 580,797.66 32° 40' 13.332 N	104° 12' 18.345 W

104° 12' 21.855 W

104° 12' 22.709 W

Permian Resources

Planning Report - Geographic

Database: Compass Company: **NEW MEXICO** Project: (SP) EDDY Site: **KLONDIKE**

Well: Klondike 9 State Com 134H

90.00

90.00

269.39

269.39

8,581.0

8,581.0

-624.9

-625.6

Wellbore: OWB Design: PRELIM#1 Local Co-ordinate Reference:

Survey Calculation Method:

607,632.40

607,631.62

TVD Reference: MD Reference: North Reference:

Well Klondike 9 State Com 134H

32° 40' 13.305 N

32° 40' 13.298 N

kb @ 3569.9usft kb @ 3569.9usft

Grid

580,497.67

580,424.63

Minimum Curvature

Planned Surv	ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,500.0 18,600.0		269.39 269.39	8,581.0 8,581.0	-622.8 -623.8	-9,649.4 -9,749.4	607,634.51 607,633.45	580,697.66 580,597.67	32° 40' 13.323 N 32° 40' 13.314 N	104° 12' 19.515 W 104° 12' 20.685 W

-9,849.4

-9,922.4

TD at 18773.0

18,700.0

18,773.0

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
Klondike 134H BHL - plan hits target - Point	0.00 center	0.00	8,581.0	-625.6	-9,922.4	607,631.62	580,424.63	32° 40′ 13.298 N	104° 12' 22.709 W
Klondike 134H FTP - plan misses tar - Point	0.00 get center by	0.00 156.8usft a	8,581.0 t 8567.2usf	-516.3 t MD (8463.7	358.4 7 TVD, -518.	607,741.00 0 N, 254.3 E)	590,705.50	32° 40' 14.242 N	104° 10' 22.429 W
Klondike 134H LTP - plan misses tar - Point	0.00 get center by	0.00 4.9usft at 1	8,581.0 8683.1usft	-629.6 MD (8581.0	-9,832.5 TVD, -624.7	607,627.63 N, -9832.5 E)	580,514.60	32° 40' 13.257 N	104° 12' 21.657 W

Plan Annota	ations				
	Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
	2,500.0	2,500.0	0.0	0.0	Start Build 2.00
	3,000.0	2,997.5	-33.8	27.4	Start 3325.6 hold at 3000.0 MD
	6,325.6	6,272.5	-482.5	391.0	Start Drop -2.00
	6,825.6	6,770.0	-516.3	418.4	Start 1333.5 hold at 6825.6 MD
	8,159.1	8,103.5	-516.3	418.4	Start DLS 12.00 TFO 269.39
	8,909.1	8,581.0	-521.3	-59.0	Start 9864.0 hold at 8909.1 MD
	18,773.0	8,581.0	-625.6	-9,922.4	TD at 18773.0

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (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) 334-6178 Fax:(505) 334-6170

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

Action 356971

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	356971
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	6/26/2024