

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Reports
01/23/2025

Well Name: CHUCK SMITH MDP1 8-17 Well Location: T24S / R31E / SEC 5 / Cou

FEDERAL COM SWSW / 32.239885 / -103.804453

County or Parish/State: EDDY /

NM

Well Number: 31H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM142143 Unit or CA Name: Unit or CA Number:

US Well Number: 3001555468 **Operator:** OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2818150

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/22/2024 Time Sundry Submitted: 07:53

Date proposed operation will begin: 01/01/2025

Procedure Description: OXY USA Inc. requests updates to the approved APD for the subject well. Please see the attached file labeled 'APDCHGSUNDRYWORKSHEET' that highlights the changes and attachments. General change documents are combined into 1 PDF file and well specific documents are individual attachments. Changes included in the sundry: Pool Change: Bone Spring to Purple Sage Wolfcamp TVD Change: 10774' TVD to 12400' TVD Drilling Change: Update to blanket casing design There are no changes to the surface hole location for the subject well.

NOI Attachments

Procedure Description

CHUCKSMITHMDP1817FEDCOM31H_General_Docs_20241022074811.pdf

CHUCKSMITHMDP18_17FEDCOM31H_DirectPlan_20241022074810.pdf

CHUCKSMITHMDP18_17FEDCOM31H_DrillPlan_20241022074810.pdf

CHUCKSMITHMDP1817FEDCOM31H_C102_20241022074810.pdf

CHUCKSMITHMDP18_17FEDCOM31H_OXY_Blanket_Des_A_Pad_Cover_0501_20241022074810.pdf

 $CHUCKSMITHMDP1817FEDCOM31H_APDCHGSUNDRYWORKSHEET_10.22.2024_20241022074733.pdf$

Page 1 of 2

well Name: CHUCK SMITH MDPT 8-17 Well Location: T24S / R31E / SEC 5 / County or Parish/State: EDBY 7 of

FEDERAL COM SWSW / 32.239885 / -103.804453

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Lease Number: NMNM142143 Unit or CA Name: Unit or CA Number:

US Well Number: 3001555468 **Operator:** OXY USA INCORPORATED

Conditions of Approval

Additional

CHUCK SMITH MDP1 8 17 FEDERAL COM 31H SUNDRY COA 20250121123315.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RONI MATHEW Signed on: NOV 06, 2024 11:28 AM

Name: OXY USA INCORPORATED

Title: REGULATORY SPECIALIST

Street Address: 5 Greenway Plaza, Suite 110

City: Houston State: TX

Phone: (713) 215-7827

Email address: RONI_MATHEW@OXY.COM

Field

Representative Name: JIM WILSON

Street Address: 6001 DEAUVILLE BLVD.

City: MIDLAND State: TX Zip: 79710

Phone: (575)631-2442

Email address: JIM_WILSON@OXY.COM

BLM Point of Contact

Signature: KEITH IMMATTY

BLM POC Name: KEITH P IMMATTY **BLM POC Title:** ENGINEER

BLM POC Phone: 5759884722 **BLM POC Email Address:** KIMMATTY@BLM.GOV

Disposition: Approved **Disposition Date:** 01/21/2025

isposition. Approved

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUR	EAU OF LAND MAN	AGEMENT							
Do not use this t	NOTICES AND REPO form for proposals t Use Form 3160-3 (A	to drill or to re-	enter an						
SUBMIT IN	TRIPLICATE - Other instru	uctions on page 2		7. If Unit of CA/Agreement,	, Name and/or No.				
1. Type of Well				8. Well Name and No.					
Oil Well Gas V	Vell Other			9. API Well No.					
		lat pt xx 4 t							
3a. Address		3b. Phone No. (inclu	de area code,	10. Field and Pool or Explor	atory Area				
4. Location of Well (Footage, Sec., T., F	R.,M., or Survey Description))		11. Country or Parish, State					
12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDICAT	ΓE NATURE	OF NOTICE, REPORT OR O	 ГНЕR DATA				
TYPE OF SUBMISSION			TYP	E OF ACTION					
Notice of Intent	Acidize	Deepen		Production (Start/Resume					
	Alter Casing	Hydraulic I		Reclamation	Well Integrity				
Subsequent Report	Casing Repair	New Const		Recomplete	Other				
Final Abandonment Notice	Change Plans Convert to Injection	Plug and A Plug Back	Dandon	Temporarily Abandon Water Disposal					
is ready for final inspection.)									
14. I hereby certify that the foregoing is	true and correct. Name (Pri								
		Title							
Signature		Date	;						
	THE SPACE	FOR FEDERA	L OR STA	ATE OFICE USE					
Approved by									
			Title		Date				
Conditions of approval, if any, are attackerify that the applicant holds legal or which would entitle the applicant to con-	equitable title to those rights		Office						
Title 18 U.S.C Section 1001 and Title 4	3 U.S.C Section 1212, make	it a crime for any per	son knowingl	y and willfully to make to any	department or agency of the	United States			

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SWSW / 280 FSL / 1215 FWL / TWSP: 24S / RANGE: 31E / SECTION: 5 / LAT: 32.239885 / LONG: -103.804453 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 1 FNL / 331 FWL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.23911 / LONG: -103.807316 (TVD: 10520 feet, MD: 10678 feet) PPP: NWNW / 100 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.23884 / LONG: -103.807318 (TVD: 10624 feet, MD: 11023 feet) PPP: SWSW / 1319 FSL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.22822 / LONG: -103.807321 (TVD: 10677 feet, MD: 14663 feet) PPP: NWNW / 2 FNL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 17 / LAT: 32.224589 / LONG: -103.807323 (TVD: 10696 feet, MD: 15985 feet) BHL: SWSW / 20 FSL / 330 FWL / TWSP: 24S / RANGE: 31E / SECTION: 17 / LAT: 32.210123 / LONG: -103.80733 (TVD: 10774 feet, MD: 21245 feet)

<u>C</u> -	1	<u>02</u>

Submit Electronically Via OCD Permitting

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

Revised July 9, 2	024
PAGE 1 OF 2	

Submittal Type:

X Initial Subini	паі
Amended Re	port
Δs Drilled	

					WELL LOCATION	ON INFORMATION						
API Nur 30- (nber 015-		Pool Code 9822	0		Pool Name PURPLE S	AGE	; WOL	FCAMP			
Property Code Property Name								Well Number				
334	580				CHUCK SMITH M	IDP1 8 17 FED COM	Л		31H	ı l		
OGRID	No.		Operator N	ame					Ground Level Elevat	ion		
	16696	5			OXY U	JSA INC.			3479	_{)'}		
Surface	e Owner: [State	Fee T	ribal 🔽	Federal	Mineral Owner:	State [Fee	Tribal Federal	Į.		
					Surface	e Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	de (NAD83)	Longitude (NAD83)	County		
M	05	24S	31E		280' FSL	1215' FWL	32.2	3988497	-103.80445319	EDDY		
					Bottom H	ole Location			•			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	de (NAD83)	Longitude (NAD83)	County		
M	17	24S	31E	31E 20' FSL		330' FWL	32.2	1012328	-103.80733016	EDDY		
	•	•	•	•		•	•		•			
Dedicat	ed Acres	Infill or Defir	ning Well	Definir	ng Well API	Overlapping Spacing Un	it (Y/N)		Consolidation Code			
6	40.00	INFILL	_	30-	015-54261	N						
Order 1	Numbers:			•		Well setbacks are unde	er Commo	on Ownership	: Yes No	0		
					Kick Off	Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	de (NAD83)	Longitude (NAD83)	County		
M	05	24S	31E		300' FSL	330' FWL	32.2	3993918	-103.80731538	EDDY		
					First Take	Point (FTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	de (NAD83)	Longitude (NAD83)	County		
D	08	24S	31E		100' FNL	330' FWL	32.2	3883965	-103.80731780	EDDY		
					Last Take	Point (LTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitud	de (NAD83)	Longitude (NAD83)	County		
M	17	24S	31E		100' FSL	330' FWL	32.2	1034318	-103.80733007	EDDY		
Unitized	d Area or Area	of Uniform Inte	rest					Ground Floor	Elevation			
				Spacir	ng Unit Type: X Hori	zontal Vertical			3479'			
				,								

OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or potained a compulsory pooling order from the division.

Koni Mathew

9/30/24

Signature

Date

Roni Mathew

Printed Name

roni_mathew@oxy.com Email Address

SURVEYOR CERTIFICATIONS

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.



Signature and Seal of Professional Surveyor

21653

Certificate Number

Date of Survey

SEPTEMBER 18, 2024

CORNER COORDINATES
NAD 83, SPCS NM EAST
A - X: 706280.65' / Y:451132.79'
B - X: 706295.17' / Y:445800.08'
C - X: 706309.79' / Y:445850.38'
D - X: 7063035.13' / Y:440568.92'
F - X: 703690.34' / Y:440563.00'
G - X: 703678.53' / Y:443836.54'
I - X: 703666.72' / Y:4458478.31'
I - X: 703664.60' / Y:44878.31'
I - X: 703642.47' / Y:451120.07' CORNER COORDINATES NAD 27, SPCS NM EAST X: 665096.75' / Y:451073.75' X: 66511.18' / Y:44441.10' X: 665125.71' / Y:443791.46' X: 665138.28' / Y:44351.81' X: 665168.6' / Y:440510.12' X: 662506.09' / Y:44094.20'

662494 37' / Y:443135 91 662482.65' / Y:445777.62 662470.62' / Y:448419.33 J - X: 703642.47' / Y:451120.07'

LINE BEARING L1 S 00°15'47" E ~ 5183.45 L2 S 00°15'22" E ~ 5183.34'

TRACT	DISTANCE
NMNM 142143	3862.06'
NMNM 142692	1321.39'
NMNM 089172	5183.34'
TOTAL	10366 70'

TOTAL 10366.79

O Drill Line Events All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.

Section Corners

Drill Line

-- Dimension Lines

Federal Leases

✓ HSU

O HSU Corners

JOB No. R4289 001 13739 REV 6 NDS 9/17/2024

OXY APD CHANGE SUNDRY LIST FORM

DATE SUNDRY WORKSHEET CREATED	10/22/2024
WELL NAME_NUMBER	Chuck Smith MDP1 8-17 Federal Com #031H
API NUMBER	30-015-55468
ESTIMATED SPUD DATE	1/1/2025

PLEASE SEE ATTACHED OXY APD CHANGE SUNDRY LIST THAT HIGHLIGHTS CHANGES AND ATTACHMENTS. GENERAL CHANGE DOCUMENTS ARE COMBINED INTO 1 PDF FILE AND WELL SPECIFIC DOCUMENTS ARE INDIVIDUAL ATTACHMENTS.

	ESTIMATED SPOD DATE	1/1/2023		+											4				
	ITEM		1	PD BASE LII	NE (For Regulato	ry to Complete)							SUNDRY	PLAN (Groups to	complete the lat	est plan)			
		Date APD/BASE LINI	E APPROVED: 09/23/2024								DATE Sundry Worksheet : 10/22/2024								
	NAME	Chuck Smith MDP1 8	8-17 Federal Com #031H								Chuck Smith MDP1 8-17 Federal Com #031H								
	NSL														ES				
Ë	SHL	280' FNL 1215' FWL M-5- 24S-31E													WL M-5- 24S-31E				
a	PAD	SND_DNS_T24SR31E_0501													24SR31E_0501			/ /	
	BHL														/L M-17-24S-31E				
ž	HSU SIZE, ACRES	640 WEST/2													VEST/2				
Jn.S	POOL	COTTON DRAW; BOI	NE SPRING												E; WOLFCAMP				
	TVD	10774' TVD													0' TVD				
	TARGET FORMATION	BONE SPRING 2ND													CAMP				
					APD BASE LINE										RY PLAN				
	₹	Section	Hole Size (in.)	MD	TVD	Csg OD (in)		Grade		Conn.	Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT (ppf)	Grade		Conn.
	90	Surface	14.75	925'	925'	10.75	45.5	J-55		BTC	Surface	14.75	915'	915'	10.75	45.5	J-55		BTC
	₩.	Int	9.875	9886'	9886'	7.625	26.4	HCL-80		BTC	Int	9.875	11922'	11850'	7.625	29.7	L-80 HC		BTC
	<u>8</u>	Int2							<u> </u>		Int2								
	ASI	Prod	6.75	21245	10774	5.5	20	P-110	V	WDG 461	Prod	6.75	23086'	12400	5.5	23	P-110	Sp	print-SF
	3	Liner			400 0405 1101						Liner			CUMP	W DI 441				
		/			APD BASE LINE				Tex I						RY PLAN			- T	
	¥ S	Section/Stage Surf	Slurry SURF TAIL	Sacks 774	1.33	Density (lb/gal) 14.8	Excess 100%	TOC	Placement CIRC	Description CL C ACC	Section/Stage Surf	Slurry SURF TAIL	Sacks 765	1.33	Density (lb/gal) 14.8	Excess 100%	TOC 0	Placement	Description CLC ACC
	8		SURF TAIL INT TAIL	438	1.65	13.2		6682'	CIRC			INT TAIL	700		13.2		6710	CIRC	
20	<u>Q</u>	Int/1 Int/2	TAIL BH	1030		13.2	5% 25%	0	BH	CL H _A,D, S CL C ACC	Int/1 Int/2	TAIL BH	1035	1.68	13.2	5% 25%	0	RH	CLC_RET, D CLC ACC
- ≢	È	Int/2	TAIL BH	1030	1.71	13.3	25%	U	ВН	CL C_ACC	Int/ 2	TAIL BH	1035	1./1	13.3	25%	U	ВН	CLC_ACC
ā	Ē	Int2							+		Int2							-	
	E E	Prod	TAIL	896	1.38	13.2	25%	9386'	CIRC	CL H RET,D, S	Prod	TAIL	659	1.84	13.3	25%	11422	CIRC	CLC RET
	-	FIOU	TAIL	830	APD BASE LINE		2370	3300	CINC	CETI_RET,D, 3	FIGG	IAIL	033		RY PLAN	23/6	11422	CINC	CEC_RET
		BOP Break Tesing Va	ariance	х	AT D DAGE LINE	-			-		BOP Break Tesing Variance		Х	7					
	80	5M Annular BOP Va		- ~							5M Annular BOP Variance		X						
	Ğ	Bradenhead CBL Vai									Bradenhead CBL Variance		X						
	₹ E	Offline Cementing V		X							Offline Cementing Variance		х						
	NA NA	Production Annular									Production Annular Clearance	Variance							
	_	Flexible Choke Line	Variance	Х							Flexible Choke Line Variance								
		(Pilot Hole, Logs etc.	-)								(Pilot Hole, Logs etc.)								

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED
WELL NAME & NO.: CHUCK SMITH MDP1 8-17 FEDERAL COM 31H
LOCATION: Section 5, T.24 S., R.31 E.
COUNTY: Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **915** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

- survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **7-5/8** inch intermediate casing shall be set at approximately **11,922** feet. **KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- ❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

3. The **5-1/2** inch production casing shall be set at approximately **23,086** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated

date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Offline cementing OK for surface and intermediate intervals. Notify the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM NM CFO DrillingNotifications@BLM.GOV**; (575) 361-2822

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i.Notify the BLM when moving in and removing the Spudder Rig.
 - ii.Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii.BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until

both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii.If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii.Manufacturer representative shall install the test plug for the initial BOP test.

- iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
- v.If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i.In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii.In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v.The results of the test shall be reported to the appropriate BLM office.
 - vi.All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii.BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI 1/21/2025

PRD NM DIRECTIONAL PLANS (NAD 1983) Chuck Smith MDP1 8_17 Chuck Smith MDP1 8_17 Fed Com 31H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

11 September, 2024

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Chuck Smith MDP1 8_17

Well: Chuck Smith MDP1 8_17 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference:

Survey Calculation Method:

Well Chuck Smith MDP1 8_17 Fed Com 31H

RKB=25' @ 3504.00ft

Grid

Minimum Curvature

RKB=25' @ 3504.00ft

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

Site Chuck Smith MDP1 8_17

 Site Position:
 Northing:
 450,665.22 usft
 Latitude:
 32.237835

 From:
 Map
 Easting:
 705,784.47 usft
 Longitude:
 -103.801465

Position Uncertainty: 0.89 ft Slot Radius: 13.200 in

Well Chuck Smith MDP1 8_17 Fed Com 31H

 Well Position
 +N/-S
 0.00 ft
 Northing:
 451,406.29 usf
 Latitude:
 32.239885

 +E/-W
 0.00 ft
 Easting:
 704,856.76 usf
 Longitude:
 -103.804453

Position Uncertainty2.00 ftWellhead Elevation:ftGround Level:3,479.00 ft

Grid Convergence: 0.28 °

Wellbore #1

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

 HDGM_FILE
 12/26/2019
 6.72
 59.92
 47,874.60000000

Design Permitting Plan

Audit Notes:

Version:Phase:PROTOTYPETie On Depth:0.00

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

 0.00
 0.00
 0.00
 184.42

Plan Survey Tool Program Date 9/11/2024

Depth From Depth To

(ft) (ft) Survey (Wellbore) Tool Name Remarks

0.00 23,085.15 Permitting Plan (Wellbore #1) B001Mc_MWD+HRGM_R5

MWD+HRGM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,299.66	10.00	270.99	5,294.60	1.51	-86.97	1.00	1.00	0.00	270.99	
9,397.00	10.00	270.99	9,329.73	13.86	-798.12	0.00	0.00	0.00	0.00	
10,396.66	0.00	0.00	10,324.33	15.37	-885.10	1.00	-1.00	0.00	180.00	
11,926.66	0.00	0.00	11,854.33	15.37	-885.10	0.00	0.00	0.00	0.00	
12,783.81	90.00	179.74	12,400.00	-530.30	-882.65	10.50	10.50	20.97	179.74	
23,085.60	90.00	179.74	12,400.00	-10,831.98	-836.56	0.00	0.00	0.00	0.00 P	BHL (Chuck Smith

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Chuck Smith MDP1 8_17

Well: Chuck Smith MDP1 8_17 Fed Com 31H

Wellbore: Wellbore #1
Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Chuck Smith MDP1 8_17 Fed Com 31H

RKB=25' @ 3504.00ft RKB=25' @ 3504.00ft

Grid

esign:	Permitting Pla						_		
lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
			,					0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00		0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
,									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	1.00	270.99	4,400.00	0.02	-0.87	0.05	1.00	1.00	0.00
			4.499.96						
4,500.00	2.00	270.99	,	0.06	-3.49	0.21	1.00	1.00	0.00
4,600.00	3.00	270.99	4,599.86	0.14	-7.85	0.47	1.00	1.00	0.00
4,700.00	4.00	270.99	4,699.68	0.24	-13.95	0.83	1.00	1.00	0.00
4,800.00	5.00	270.99	4,799.37	0.38	-21.80	1.30	1.00	1.00	0.00
4,900.00	6.00	270.99	4,898.90	0.55	-31.38	1.87	1.00	1.00	0.00
5,000.00	7.00	270.99	4,998.26	0.74	-42.70	2.55	1.00	1.00	0.00
5,100.00	8.00	270.99	5,097.40	0.97	-55.75	3.33	1.00	1.00	0.00
5,200.00	9.00	270.99	5,196.30	1.22	-70.53	4.21	1.00	1.00	0.00
5,299.66	10.00	270.99	5,294.60	1.51	-86.97	5.19	1.00	1.00	0.00
5,300.00	10.00	270.99	5,294.93	1.51	-87.03	5.19	0.00	0.00	0.00
5,000.00	10.00	_, 0.00	0,20 1.00	1.01	01.00	0.10	0.00	0.00	0.00

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Chuck Smith MDP1 8_17

Well: Chuck Smith MDP1 8_17 Fed Com 31H

Wellbore: Wellbore #1
Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Chuck Smith MDP1 8_17 Fed Com 31H

RKB=25' @ 3504.00ft RKB=25' @ 3504.00ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	10.00	270.99	5,393.41	1.81	-104.39	6.23	0.00	0.00	0.00
5,500.00	10.00	270.99	5,491.89	2.11	-121.74	7.27	0.00	0.00	0.00
5,600.00	10.00	270.99	5,590.38	2.42	-139.10	8.30	0.00	0.00	0.00
5,700.00 5,800.00	10.00 10.00	270.99 270.99	5,688.86 5,787.34	2.72 3.02	-156.46 -173.81	9.34 10.37	0.00 0.00	0.00 0.00	0.00 0.00
1									
5,900.00	10.00	270.99	5,885.82	3.32	-191.17	11.41	0.00	0.00	0.00
6,000.00	10.00	270.99	5,984.30	3.62	-208.53	12.45	0.00	0.00	0.00
6,100.00 6,200.00	10.00 10.00	270.99 270.99	6,082.79 6,181.27	3.92 4.22	-225.88 -243.24	13.48 14.52	0.00 0.00	0.00 0.00	0.00 0.00
6,300.00	10.00	270.99	6,279.75	4.53	-243.24	15.55	0.00	0.00	0.00
1									
6,400.00 6,500.00	10.00 10.00	270.99 270.99	6,378.23 6,476.71	4.83 5.13	-277.95 -295.31	16.59 17.63	0.00 0.00	0.00 0.00	0.00 0.00
6,600.00	10.00	270.99	6,575.19	5.43	-312.66	18.66	0.00	0.00	0.00
6,700.00	10.00	270.99	6,673.68	5.73	-330.02	19.70	0.00	0.00	0.00
6,800.00	10.00	270.99	6,772.16	6.03	-347.38	20.73	0.00	0.00	0.00
6,900.00	10.00	270.99	6,870.64	6.33	-364.73	21.77	0.00	0.00	0.00
7,000.00	10.00	270.99	6,969.12	6.64	-382.09	22.81	0.00	0.00	0.00
7,100.00	10.00	270.99	7,067.60	6.94	-399.45	23.84	0.00	0.00	0.00
7,200.00	10.00	270.99	7,166.09	7.24	-416.80	24.88	0.00	0.00	0.00
7,300.00	10.00	270.99	7,264.57	7.54	-434.16	25.91	0.00	0.00	0.00
7,400.00	10.00	270.99	7,363.05	7.84	-451.52	26.95	0.00	0.00	0.00
7,500.00	10.00	270.99	7,461.53	8.14	-468.87	27.99	0.00	0.00	0.00
7,600.00	10.00	270.99	7,560.01	8.44	-486.23	29.02	0.00	0.00	0.00
7,700.00	10.00	270.99	7,658.49	8.75	-503.58	30.06	0.00	0.00	0.00
7,800.00	10.00	270.99	7,756.98	9.05	-520.94	31.09	0.00	0.00	0.00
7,900.00	10.00	270.99	7,855.46	9.35	-538.30	32.13	0.00	0.00	0.00
8,000.00	10.00	270.99	7,953.94	9.65	-555.65	33.17	0.00	0.00	0.00
8,100.00	10.00	270.99	8,052.42	9.95	-573.01	34.20	0.00	0.00	0.00
8,200.00 8,300.00	10.00 10.00	270.99 270.99	8,150.90 8,249.39	10.25 10.55	-590.37 -607.72	35.24 36.27	0.00 0.00	0.00 0.00	0.00 0.00
1									
8,400.00 8,500.00	10.00 10.00	270.99 270.99	8,347.87 8,446.35	10.86 11.16	-625.08 -642.44	37.31 38.34	0.00 0.00	0.00 0.00	0.00 0.00
8,600.00	10.00	270.99	8,544.83	11.46	-659.79	39.38	0.00	0.00	0.00
8,700.00	10.00	270.99	8,643.31	11.76	-677.15	40.42	0.00	0.00	0.00
8,800.00	10.00	270.99	8,741.79	12.06	-694.50	41.45	0.00	0.00	0.00
8,900.00	10.00	270.99	8,840.28	12.36	-711.86	42.49	0.00	0.00	0.00
9,000.00	10.00	270.99	8,938.76	12.66	-729.22	43.52	0.00	0.00	0.00
9,100.00	10.00	270.99	9,037.24	12.97	-746.57	44.56	0.00	0.00	0.00
9,200.00	10.00	270.99	9,135.72	13.27	-763.93	45.60	0.00	0.00	0.00
9,300.00	10.00	270.99	9,234.20	13.57	-781.29	46.63	0.00	0.00	0.00
9,397.00	10.00	270.99	9,329.73	13.86	-798.12	47.64	0.00	0.00	0.00
9,400.00	9.97	270.99	9,332.69	13.87	-798.64	47.67	1.00	-1.00	0.00
9,500.00	8.97	270.99	9,431.32	14.16	-815.09	48.65	1.00	-1.00	0.00
9,600.00	7.97	270.99	9,530.23	14.41	-829.81	49.53	1.00	-1.00	0.00
9,700.00	6.97	270.99	9,629.38	14.64	-842.80	50.30	1.00	-1.00	0.00
9,800.00	5.97	270.99	9,728.74	14.83	-854.06	50.98	1.00	-1.00	0.00
9,900.00 10.000.00	4.97 3.97	270.99 270.99	9,828.29 9,927.98	15.00 15.13	-863.59 -871.37	51.54 52.01	1.00	-1.00 -1.00	0.00 0.00
10,000.00	3.97 2.97	270.99 270.99	9,927.98	15.13 15.24	-871.37 -877.42	52.01 52.37	1.00 1.00	-1.00 -1.00	0.00
10,100.00	1.97	270.99	10,027.80	15.24	-881.72	52.63	1.00	-1.00	0.00
10,300.00	0.97	270.99	10,227.67	15.36	-884.28	52.78	1.00	-1.00	0.00
10,396.66	0.00	0.00	10,324.33	15.37	-885.10	52.76 52.83	1.00	-1.00 -1.00	0.00
10,400.00	0.00	0.00	10,327.67	15.37	-885.10	52.83	0.00	0.00	0.00
10,500.00	0.00	0.00	10,427.67	15.37	-885.10	52.83	0.00	0.00	0.00
10,600.00	0.00	0.00	10,527.67	15.37	-885.10	52.83	0.00	0.00	0.00

Planning Report

Database: Company:

Site:

HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Chuck Smith MDP1 8_17

Well: Chuck Smith MDP1 8_17 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Chuck Smith MDP1 8_17 Fed Com 31H

RKB=25' @ 3504.00ft RKB=25' @ 3504.00ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,700.00	0.00	0.00	10,627.67	15.37	-885.10	52.83	0.00	0.00	0.00
10,800.00	0.00	0.00	10,727.67	15.37	-885.10	52.83	0.00	0.00	0.00
10,900.00	0.00	0.00	10,827.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,000.00	0.00	0.00	10,927.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,100.00	0.00	0.00	11,027.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,200.00	0.00	0.00	11,127.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,300.00	0.00	0.00	11,127.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,400.00	0.00	0.00	11,327.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,500.00	0.00	0.00	11,427.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,600.00	0.00	0.00	11,527.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,700.00	0.00	0.00	11,627.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,800.00	0.00	0.00	11,727.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,900.00	0.00	0.00	11,827.67	15.37	-885.10	52.83	0.00	0.00	0.00
11,926.66	0.00	0.00	11,854.33	15.37	-885.10	52.83	0.00	0.00	0.00
12,000.00	7.70	179.74	11,927.45	10.45	-885.07	57.73	10.50	10.50	0.00
12,100.00	18.20	179.74	12,024.77	-11.93	-884.97	80.04	10.50	10.50	0.00
12,700.00	28.70	179.74	12,116.38	-51.67	-884.80	119.65	10.50	10.50	0.00
12,300.00	39.20	179.74	12,110.36	-107.44		175.23	10.50	10.50	0.00
12,400.00	49.70	179.74	12,199.21	-107.44 -177.37	-884.55 -884.23	244.93	10.50	10.50	0.00
12,500.00	60.20	179.74	12,270.50	-177.37 -259.12	-004.23 -883.87	326.41	10.50	10.50	0.00
12,600.00	70.70	179.74	12,369.34	-349.95	-883.46	416.94	10.50	10.50	0.00
12,700.00	81.20	179.74	12,393.58	-446.82	-883.03	513.49	10.50	10.50	0.00
12,783.81	90.00	179.74	12,400.00	-530.30	-882.65	596.69	10.50	10.50	0.00
12,800.00	90.00	179.74	12,400.00	-546.49	-882.58	612.83	0.00	0.00	0.00
12,900.00	90.00	179.74	12,400.00	-646.49	-882.13	712.50	0.00	0.00	0.00
13,000.00	90.00	179.74	12,400.00	-746.49	-881.69	812.16	0.00	0.00	0.00
13,100.00	90.00	179.74	12,400.00	-846.49	-881.24	911.83	0.00	0.00	0.00
13,200.00	90.00	179.74	12,400.00	-946.49	-880.79	1,011.50	0.00	0.00	0.00
13,300.00	90.00	179.74	12,400.00	-1,046.49	-880.34	1,111.17	0.00	0.00	0.00
13,400.00	90.00	179.74	12,400.00	-1,146.48	-879.90	1,210.83	0.00	0.00	0.00
13,500.00	90.00	179.74	12,400.00	-1,246.48	-879.45	1,310.50	0.00	0.00	0.00
13,600.00	90.00	179.74	12,400.00	-1,346.48	-879.00	1,410.17	0.00	0.00	0.00
13,700.00	90.00	179.74	12,400.00	-1,446.48	-878.55	1,509.84	0.00	0.00	0.00
13,800.00	90.00	179.74	12,400.00	-1,546.48	-878.11	1,609.50	0.00	0.00	0.00
13,900.00	90.00	179.74	12,400.00	-1,646.48	-877.66	1,709.17	0.00	0.00	0.00
14,000.00	90.00	179.74	12,400.00	-1,746.48	-877.21	1,808.84	0.00	0.00	0.00
14,100.00	90.00	179.74	12,400.00	-1,846.48	-876.76	1,908.51	0.00	0.00	0.00
14,200.00	90.00	179.74	12,400.00	-1,946.48	-876.32	2,008.18	0.00	0.00	0.00
14,300.00	90.00	179.74	12,400.00	-2,046.48	-875.87	2,107.84	0.00	0.00	0.00
14,400.00	90.00	179.74	12,400.00	-2,146.47	-875.42	2,207.51	0.00	0.00	0.00
14,500.00	90.00	179.74	12,400.00	-2,246.47	-874.98	2,307.18	0.00	0.00	0.00
14,600.00	90.00	179.74	12,400.00	-2,246.47 -2,346.47	-674.96 -874.53	2,307.16	0.00	0.00	0.00
14,700.00	90.00	179.74	12,400.00	-2,346.47 -2,446.47	-874.08	2,506.51	0.00	0.00	0.00
14,800.00	90.00	179.74	12,400.00	-2,446.47 -2,546.47	-873.63	2,606.18	0.00	0.00	0.00
14,900.00	90.00	179.74	12,400.00	-2,646.47	-873.03 -873.19	2,705.85	0.00	0.00	0.00
15,000.00	90.00	179.74	12,400.00	-2,746.47	-872.74	2,805.52	0.00	0.00	0.00
15,100.00	90.00	179.74	12,400.00	-2,846.47	-872.29	2,905.18	0.00	0.00	0.00
15,200.00	90.00	179.74	12,400.00	-2,946.47	-871.84	3,004.85	0.00	0.00	0.00
15,300.00	90.00	179.74	12,400.00	-3,046.47	-871.40	3,104.52	0.00	0.00	0.00
15,400.00	90.00	179.74	12,400.00	-3,146.46	-870.95	3,204.19	0.00	0.00	0.00
15,500.00	90.00	179.74	12,400.00	-3,246.46	-870.50	3,303.85	0.00	0.00	0.00
15,600.00	90.00	179.74	12,400.00	-3,346.46	-870.05	3,403.52	0.00	0.00	0.00
15,700.00	90.00	179.74	12,400.00	-3,446.46	-869.61	3,503.19	0.00	0.00	0.00
15,800.00	90.00	179.74	12,400.00	-3,546.46	-869.16	3,602.86	0.00	0.00	0.00
15,900.00	90.00	179.74	12,400.00	-3,646.46	-868.71	3,702.53	0.00	0.00	0.00

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Chuck Smith MDP1 8_17

Well: Chuck Smith MDP1 8_17 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Chuck Smith MDP1 8_17 Fed Com 31H

RKB=25' @ 3504.00ft RKB=25' @ 3504.00ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,000.00	90.00	179.74	12,400.00	-3,746.46	-868.26	3,802.19	0.00	0.00	0.00
16,100.00	90.00	179.74	12,400.00	-3,846.46	-867.82	3,901.86	0.00	0.00	0.00
16,200.00	90.00	179.74	12,400.00	-3,946.46	-867.37	4,001.53	0.00	0.00	0.00
16,300.00	90.00	179.74	12,400.00	-4,046.46	-866.92	4,101.20	0.00	0.00	0.00
16,400.00	90.00	179.74	12,400.00	-4,146.45	-866.47	4,200.86	0.00	0.00	0.00
16,500.00	90.00	179.74	12,400.00	-4,246.45	-866.03	4,300.53	0.00	0.00	0.00
16,600.00	90.00	179.74	12,400.00	-4,346.45	-865.58	4,400.20	0.00	0.00	0.00
16,700.00	90.00	179.74	12,400.00	-4,446.45	-865.13	4,499.87	0.00	0.00	0.00
16,800.00	90.00	179.74	12,400.00	-4,546.45	-864.68	4,599.53	0.00	0.00	0.00
16,900.00	90.00	179.74	12,400.00	-4,646.45	-864.24	4,699.20	0.00	0.00	0.00
17,000.00	90.00	179.74	12,400.00	-4,746.45	-863.79	4,798.87	0.00	0.00	0.00
17,100.00	90.00	179.74	12,400.00	-4,846.45	-863.34	4,898.54	0.00	0.00	0.00
17,200.00	90.00	179.74	12,400.00	-4,946.45	-862.90	4,998.21	0.00	0.00	0.00
17,300.00	90.00	179.74	12,400.00	-5,046.45	-862.45	5,097.87	0.00	0.00	0.00
17,400.00	90.00	179.74	12,400.00	-5,146.44	-862.00	5,197.54	0.00	0.00	0.00
17,500.00 17,600.00 17,700.00 17,800.00 17,900.00 18,000.00	90.00 90.00 90.00 90.00 90.00	179.74 179.74 179.74 179.74 179.74 179.74	12,400.00 12,400.00 12,400.00 12,400.00 12,400.00	-5,246.44 -5,346.44 -5,446.44 -5,546.44 -5,746.44	-861.55 -861.11 -860.66 -860.21 -859.76 -859.32	5,297.21 5,396.88 5,496.54 5,596.21 5,695.88 5,795.55	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,100.00 18,200.00 18,300.00 18,400.00 18,500.00	90.00 90.00 90.00 90.00	179.74 179.74 179.74 179.74 179.74	12,400.00 12,400.00 12,400.00 12,400.00 12,400.00	-5,846.44 -5,946.44 -6,046.44 -6,146.43 -6,246.43	-858.87 -858.42 -857.97 -857.53	5,895.21 5,994.88 6,094.55 6,194.22 6,293.88	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,600.00 18,700.00 18,800.00 18,900.00	90.00 90.00 90.00 90.00	179.74 179.74 179.74 179.74 179.74	12,400.00 12,400.00 12,400.00 12,400.00 12,400.00	-6,346.43 -6,446.43 -6,546.43 -6,646.43	-856.63 -856.18 -855.74 -855.29	6,393.55 6,493.22 6,592.89 6,692.56 6,792.22	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,100.00	90.00	179.74	12,400.00	-6,846.43	-854.39	6,891.89	0.00	0.00	0.00
19,200.00	90.00	179.74	12,400.00	-6,946.43	-853.95	6,991.56	0.00	0.00	0.00
19,300.00	90.00	179.74	12,400.00	-7,046.43	-853.50	7,091.23	0.00	0.00	0.00
19,400.00	90.00	179.74	12,400.00	-7,146.43	-853.05	7,190.89	0.00	0.00	0.00
19,500.00	90.00	179.74	12,400.00	-7,246.42	-852.60	7,290.56	0.00	0.00	0.00
19,600.00	90.00	179.74	12,400.00	-7,346.42	-852.16	7,390.23	0.00	0.00	0.00
19,700.00	90.00	179.74	12,400.00	-7,446.42	-851.71	7,489.90	0.00	0.00	0.00
19,800.00	90.00	179.74	12,400.00	-7,546.42	-851.26	7,589.56	0.00	0.00	0.00
19,900.00	90.00	179.74	12,400.00	-7,646.42	-850.81	7,689.23	0.00	0.00	0.00
20,000.00	90.00	179.74	12,400.00	-7,746.42	-850.37	7,788.90	0.00	0.00	0.00
20,100.00	90.00	179.74	12,400.00	-7,846.42	-849.92	7,888.57	0.00	0.00	0.00
20,200.00	90.00	179.74	12,400.00	-7,946.42	-849.47	7,988.23	0.00	0.00	0.00
20,300.00	90.00	179.74	12,400.00	-8,046.42	-849.03	8,087.90	0.00	0.00	0.00
20,400.00	90.00	179.74	12,400.00	-8,146.42	-848.58	8,187.57	0.00	0.00	0.00
20,500.00	90.00	179.74	12,400.00	-8,246.41	-848.13	8,287.24	0.00	0.00	0.00
20,600.00	90.00	179.74	12,400.00	-8,346.41	-847.68	8,386.91	0.00	0.00	0.00
20,700.00	90.00	179.74	12,400.00	-8,446.41	-847.24	8,486.57	0.00	0.00	0.00
20,800.00	90.00	179.74	12,400.00	-8,546.41	-846.79	8,586.24	0.00	0.00	0.00
20,900.00	90.00	179.74	12,400.00	-8,646.41	-846.34	8,685.91	0.00	0.00	0.00
21,000.00	90.00	179.74	12,400.00	-8,746.41	-845.45	8,785.58	0.00	0.00	0.00
21,100.00	90.00	179.74	12,400.00	-8,846.41	-845.45	8,885.24	0.00	0.00	0.00
21,200.00	90.00	179.74	12,400.00	-8,946.41	-845.00	8,984.91	0.00	0.00	0.00
21,300.00	90.00	179.74	12,400.00	-9,046.41	-844.55	9,084.58	0.00	0.00	0.00
21,400.00	90.00	179.74	12,400.00	-9,146.41	-844.10	9,184.25	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Chuck Smith MDP1 8_17

Well: Chuck Smith MDP1 8_17 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Chuck Smith MDP1 8_17 Fed Com 31H

RKB=25' @ 3504.00ft RKB=25' @ 3504.00ft

Grid

anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,500.00	90.00	179.74	12,400.00	-9,246.40	-843.66	9,283.91	0.00	0.00	0.00
21,600.00	90.00	179.74	12,400.00	-9,346.40	-843.21	9,383.58	0.00	0.00	0.00
21,700.00	90.00	179.74	12,400.00	-9,446.40	-842.76	9,483.25	0.00	0.00	0.00
21,800.00	90.00	179.74	12,400.00	-9,546.40	-842.31	9,582.92	0.00	0.00	0.00
21,900.00	90.00	179.74	12,400.00	-9,646.40	-841.87	9,682.58	0.00	0.00	0.00
22,000.00	90.00	179.74	12,400.00	-9,746.40	-841.42	9,782.25	0.00	0.00	0.00
22,100.00	90.00	179.74	12,400.00	-9,846.40	-840.97	9,881.92	0.00	0.00	0.00
22,200.00	90.00	179.74	12,400.00	-9,946.40	-840.52	9,981.59	0.00	0.00	0.00
22,300.00	90.00	179.74	12,400.00	-10,046.40	-840.08	10,081.26	0.00	0.00	0.00
22,400.00	90.00	179.74	12,400.00	-10,146.40	-839.63	10,180.92	0.00	0.00	0.00
22,500.00	90.00	179.74	12,400.00	-10,246.39	-839.18	10,280.59	0.00	0.00	0.00
22,600.00	90.00	179.74	12,400.00	-10,346.39	-838.73	10,380.26	0.00	0.00	0.00
22,700.00	90.00	179.74	12,400.00	-10,446.39	-838.29	10,479.93	0.00	0.00	0.00
22,800.00	90.00	179.74	12,400.00	-10,546.39	-837.84	10,579.59	0.00	0.00	0.00
22,900.00	90.00	179.74	12,400.00	-10,646.39	-837.39	10,679.26	0.00	0.00	0.00
23,000.00	90.00	179.74	12,400.00	-10,746.39	-836.95	10,778.93	0.00	0.00	0.00
23,085.60	90.00	179.74	12,400.00	-10,831.98	-836.56	10,864.24	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Chuck Smith - plan misses targe - Point	0.00 et center by 88	0.00 85.23ft at 0.0	0.00 Oft MD (0.0	15.37 0 TVD, 0.00 N	-885.10 N, 0.00 E)	451,421.66	703,971.72	32.239939	-103.807316
PI-1 (Chuck Smith - plan misses targe - Point	0.00 et center by 0.		12,400.00 1.93ft MD (*	-5,568.37 12400.00 TVD	-860.09), -5568.37 N,	445,838.27 -860.11 E)	703,996.72	32.224591	-103.807323
FTP (Chuck Smith - plan misses targe - Point	0.00 et center by 19		12,400.00 41.16ft MD	-384.64 (12381.46 TV	-883.89 D, -389.27 N,	451,021.67 -883.28 E)	703,972.93	32.238840	-103.807318
PBHL (Chuck Smith - plan hits target co - Point	0.00 enter	0.00	12,400.00	-10,831.98	-836.56	440,574.98	704,020.25	32.210123	-103.807330

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Chuck Smith MDP1 8_17

Well: Chuck Smith MDP1 8_17 Fed Com 31H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Chuck Smith MDP1 8_17 Fed Com 31H

RKB=25' @ 3504.00ft RKB=25' @ 3504.00ft

Grid

ormations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	611.00	611.00	RUSTLER			
	975.00	975.00	SALADO			
	2,843.00	2,843.00	CASTILE			
	4,235.00	4,235.00	DELAWARE			
	4,257.00	4,257.00	BELL CANYON			
	5,216.91	5,213.00	CHERRY CANYON			
	6,459.68	6,437.00	BRUSHY CANYON			
	8,151.36	8,103.00	BONE SPRING			
	9,198.25	9,134.00	BONE SPRING 1ST			
	9,867.58	9,796.00	BONE SPRING 2ND			
	11,115.33	11,043.00	BONE SPRING 3RD			
	11,567.33	11,495.00	WOLFCAMP			
	11,740.33	11,668.00	WOLFCAMP A			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Co +N/-S (ft)	oordinates +E/-W (ft)	Comment
4,300.0	0 4,300.00	0.00	0.00	Build 1°/100'
5,299.6	6 5,294.60	1.51	-86.97	Hold 10° Tangent
9,397.0	0 9,329.73	13.86	-798.12	Drop 1°/100'
10,396.6	6 10,324.33	15.37	-885.10	Hold Vertical
11,926.6	6 11,854.33	15.37	-885.10	KOP, Build 10.5°/100'
12,783.8	1 12,400.00	-530.30	-882.65	Landing Point
23,085.6	0 12,400.00	-10,831.98	-836.56	TD at 23085.60' MD

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Oxy USA Inc. - CHUCK SMITH MDP1 8_17 FED COM 31H Drill Plan

1. Geologic Formations

TVD of Target (ft):	12400	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	23086	Deepest Expected Fresh Water (ft):	611

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	611	611	
Salado	975	975	Salt
Castile	2843	2843	Salt
Delaware	4235	4235	Oil/Gas/Brine
Bell Canyon	4257	4257	Oil/Gas/Brine
Cherry Canyon	5217	5213	Oil/Gas/Brine
Brushy Canyon	6460	6437	Losses
Bone Spring	8151	8103	Oil/Gas
Bone Spring 1st	9198	9134	Oil/Gas
Bone Spring 2nd	9868	9796	Oil/Gas
Bone Spring 3rd	11115	11043	Oil/Gas
Wolfcamp	11567	11495	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

		N	1D	TV	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	915	0	915	10.75	45.5	J-55	ВТС
Intermediate	9.875	0	11922	0	11850	7.625	29.7	L-80 HC	ВТС
Production	6.75	0	23086	0	12400	5.5	23	P-110	Sprint-SF

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

Occidental - Permian New Mexico

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CHUCK SMITH MDP1 8_17 FED COM 31H

All Casing SF Values will meet or exceed								
those below								
SF	SF	Body SF	Joint SF					
Collapse	Burst	Tension	Tension					
1.00	1.100	1.4	1.4					

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
200 mile previous easing.	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	765	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	700	1.68	13.2	5%	6,710	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1035	1.71	13.3	25%	_	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	659	1.84	13.3	25%	11,422	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	✓	Tested to:	Deepest TVD Depth (ft) per Section:
		5M		Annular	✓	70% of working pressure	
				Blind Ram	✓		
9.875" Hole	13-5/8"	5M	Pipe Ram			250 psi / 5000 psi	11850
		JIVI	Double Ram		✓	230 psi / 3000 psi	
			Other*				
		5M		Annular	✓	100% of working pressure	
	13-5/8"			Blind Ram			12400
6.75" Hole		10M		Pipe Ram		250 psi / 10000 psi	
				Double Ram		200 psi / 10000 psi	
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. 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 the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke

5M Annular BOP Request

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack,* Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Annular BOP Variance attachment for further details.

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Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Y Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth - MD		Depth - TVD		Trung	Weight	Vigogity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Type	(ppg)	Viscosity	Loss
Surface	0	915	0	915	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	915	11922	915	11850	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11922	23086	11850	12400	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls,

What will be used to monitor the	DVT/NAD Totas/Visual Manitoring	
loss or gain of fluid?	PVT/MD Totco/Visual Monitoring	

6. Logging and Testing Procedures

Loggi	ing, Coring and Testing.					
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).					
res	Stated logs run will be in the Completion Report and submitted to the BLM.					
No	Logs are planned based on well control or offset log information.					
No	Drill stem test? If yes, explain					
No	Coring? If yes, explain					

Addit	tional logs planned	Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8705 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	180°F

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H2S is present
Y H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	
We plan to drill the 2 well pad in batch by section: all surface sections, intermediate	Vac
sections and production sections. The wellhead will be secured with a night cap whenever	Yes
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	
	_

Total Estimated Cuttings Volume: 1731 bbls

Oxy USA Inc. - Blanket Design Pad Document

OXY - Blanket Design A

Pad Name: SNDDNS_24S31E_0501 **SHL:** 280' FSL 1215' FWL, Sec 05,T24S-R31E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (Blanket Design A – OXY – 3S Slim v7.) The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions (directional plans attached separately for review.)

1. Blanket Design - Wells

Well Name	API#	Surf	face	Interm	ediate	Production	
Well Name	AFI#	MD	TVD	MD	TVD	MD	TVD
CHUCK SMITH MDP1 8_17 FED COM 31H	30-015-55468	915	915	11922	11850	23086	12400
CHUCK SMITH MDP1 8_17 FED COM 32H	30-015-55469	922	922	11867	11850	23168	12550

2. Review Criteria Table

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	•
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	Y
500' into previous casing?	1
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	IN
Is 2 nd string set 100' to 600' below the base of salt?	
is 2 string set 100 to 000 below the base of sair.	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
	IN
If yes, are there three strings cemented to surface?	

3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	611	611	
Salado	975	975	Salt
Castile	2843	2843	Salt
Delaware	4235	4235	Oil/Gas/Brine
Bell Canyon	4257	4257	Oil/Gas/Brine
Cherry Canyon	5217	5213	Oil/Gas/Brine
Brushy Canyon	6460	6437	Losses
Bone Spring	8151	8103	Oil/Gas
Bone Spring 1st	9198	9134	Oil/Gas
Bone Spring 2nd	9868	9796	Oil/Gas
Bone Spring 3rd	11115	11043	Oil/Gas
Wolfcamp	11567	11495	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

4. Cementing Program (SOPA Only)

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	765	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	700	1.68	13.2	5%	6,710	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1035	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	659	1.84	13.3	25%	11,422	Circulate	Class C+Ret.

5M Annluar BOP Variance Request

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Well Control Plan below.

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the >5M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Pilot hole and Lateral sections, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
HWDP	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Drill collars and MWD tools	4-3/4" – 5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Mud Motor	4-3/4"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Production casing	5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
ALL	0" - 13-5/8"	Annular	5M
Open-hole	6-3/4"	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

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 drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

General Procedure While Tripping

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

General Procedure While Running Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan.
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams or BSR. (The HCR and 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
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drill pipe thru the stack.
 - a. Perform flow check, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram
 - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify tool pusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram
 - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify tool pusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.

- a. Sound alarm (alert crew)
- b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario
- c. If impossible to pick up high enough to pull the string clear of the stack
- d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
- e. Space out drill string with tool joint just beneath the upper pipe ram
- f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
- g. Confirm shut-in
- h. Notify tool pusher/company representative
- i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- j. Regroup and identify forward plan

Bradenhead Cement CBL Variance Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Four string wells:

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Certificate of Conformity



0 45 4 11 1	1		ContiTech
Certificate Number H100161	1429702	der Reference	Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	74038238	34	1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:			USA
Test Center Address	A	ccepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed:	Gerson Mejia-Lazo 06/27/22	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qnty	Serial Number	Specifications
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	ContiTech Standard

Hydrostatic Test Certificate



Certificate Number COM Order Reference **Customer Name & Address** H100161 1429702 HELMERICH & PAYNE DRILLING CO Customer Purchase Order No: 740382384 1434 SOUTH BOULDER AVE TULSA, OK 74119 Project: USA **Test Center Address** Accepted by COM Inspection **Accepted by Client Inspection** ContiTech Oil & Marine Corp. Gerson Mejia-Lazo 11535 Brittmoore Park Drive Signed: Houston, TX 77041 USA Date: 06/27/22

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	Part No.	Description	Qnty	Serial Number	Work, Press. (psi)	Test Press, (psi)	Test Time (minutes)

30 RECERTIFICATION

3" ID 10K Choke and Kill Hose x 35ft OAL

70024

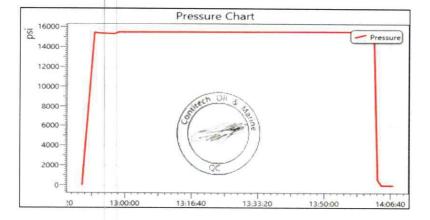
10,000

15,000

60

Record In	nformation
Start Time	6/8/2022 12:49:19
End Time	6/8/2022 14:07:25
Interval	00:01:00
Number	79
MaxValue	15762
MinValue	-7
AvgValue	14395
RecordName	70024-sh
RecordNumber	235

Gauge II	nformation
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



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14286NEDEC 23/22

Gates Engineering & Services North America

Houston, TX. 77086 7603 Prairie Oak Dr.

PHONE: (281) 602-4119

:XA7

EMAIL: Troy.Schmidt@gates.com

CERTIFICATE OF CONFORMANCE

heat-treatment activities are available upon request. Additional supporting documentation related to materials, welding, weld inspections, and reports and subsequent test graphs have been made available with this shipment. specifications. Records of required tests are on-file and subject to examination. Test and/or processed in accordance with various Gates and API assembly and test This is to certify that all parts and materials included in this shipment have manufactured

ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE	PART DESCRIPTION:
AT28128 (RIG 1 PO 002773) AT28128 (RIG 1 PO 002773) AT28128 (RIG 2 PO 002773) AT28128 (RIG 3 PO 002773)	CUSTOMERS P.O.#: CUSTOMERS P.O.#: CUSTOMER P/N:

CLAMPS

SERIAL #: H2-112019-4 :YTITNAUD SALES ORDER #: **Z869TS**

6TOZ/0Z/TI	:3TAG
QUALITY ASSURANCE	:31717
Mouna Orbi	:BRUTANDI



Houston, TX 7086

286915 4128128 (RIG 1 PO 002773) **BEOH NITZUA ABO DNI NITZUA V-A**

Created By: Hose Serial No.: Test Date:

certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to The following hose assembly has successfully passed all pressure testing requirements set forth in Gates

Working Pressure: Test Pressure:

: aumeuőis : 9160 Production: SIØZ/OZ/TT YTIJAUD

Revision 1_022819 41/20/2019 **Р**ВОВИСТІОМ

Gates Engineering & Services North America certifies that:

management system.

CUSTOMER P/N:

Oracle Star No.:

Product Description:

:1 gnitting 1:

Invoice No.:

Customer:

Customer Ref.:

F-PRD-005

: andengi2

: ested

Quality:

AN23D ont in that has been calibrated in accordance with the requirements set-forth in the GESNA

10KFR3.012.0CK411610KF1XXFLT SSA SC LE 6246486-01000689

4 1/10 10K FLANGES FIXED

Assembly Code: End Fitting 2:

10,000 PSI. 'ISA 000'SI F41545 113018 4 1/10 TOK ELANGES FLOAT

FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X PLOAT H2S SUITED

Norma Cabrera HZ-112019-4 6102/02/11

PRESSURE TEST CERTIFICATE

PHONE: (281) 602 - 4119

www.gates.com

EMAIL: Troy.Schmidt@gates.com

7603 Prairie Oak Dr. GATES ENGINEERING & SERVICES NORTH AMERICA Page 1/2

70:72:10

H2-1987

11/20/2019 12:13:07 PM



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00:00:00

Pressure test result: **SSA9** Visual check: reugth: 1991 15 Length difference: Description: inch 42.0 Length difference: 00.0 Part number: Work pressure hold: 292 00.009 Fitting 2: 3.0 x 4-1/16 10K Mork pressure: 00.0279 įsd Test pressure hold: 3600.00 Description: 292 Test pressure: 12000.00 Part number: Test procedure: E20-40-STD :I gnimH 3.0 x 4-1/16 10K **TEST INFORMATION** Part number: Customer reference: : OI 920H 3'0 TOK M2 C&K Sales order #: **Z869TS** Production description: Description: Lot number: **F41545113018** company: Austin Hose Serial number: HS-115019-4 CUSTOMER TEST OBJECT

0 2000 0000 0009 0008 10000 15000 14000 16000 18000 įsd Test operator: Roderick Shambra Length measurement result:

əmit



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11/20/2019 12:13:07 PM

- Japes

TEST REPORT

GAUGE TRACEABILITY

110APO2K 2019-04-16 2020-04-14 110AMCLO 2019-03-17	W-A-2S-5	5-25-A-W 110AP02K 2019-04-16 2020-04-1
710APO2K 2019-04-16 2020-04-14	YZOAPOZK	25-A-W 110AP02K 2019-04-16 2020-04-1
And the second of the second o	Comment	Juammoo

Page 2/2

Filename: D:/Certificates/Report_112019-H2-112019-4.pdf

Certificate of Conformance

6287 Long Drive DM INDUSTRIES INC.

Fax 713-644-4947 Tel. 713 644-8372 Houston, TX 77087

	IOH JUA9 LAS-26A	Customer Contact:		CITADEL	ustomer Name:
20020163	DW Industries Work Order Number:	CONTACT PAUL HOFFMAN FOR		Customer Purchase Order Number:	mation
Z-MG0Z9ZZO	Serial Number:	p-2001-2181-0195-40		DW Industries Part Number:	Purchase Order Information
05/56/2020	Seembly Date:	τ		CTY Ordered:	
IMMER UNIONS	3" 10,000 psi W 3" 10,000 psi W	OA-5640-4815- 1002-4		Customer Part Number:	Purcha

WITH ISO-9001:2015, API Q1 AND API SPEC 7K. IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE PRESERVATION, PACKACING, PACKING, MARKING, AND PHYSICAL QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW

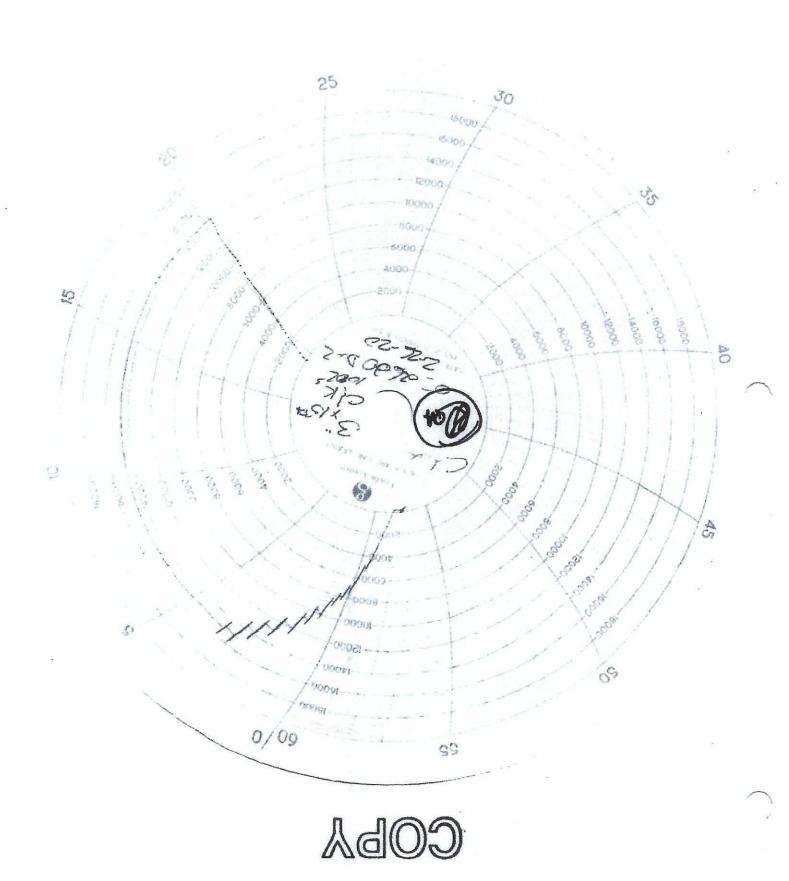
Certificate Issue Date: 2/27/2020

Carrett Crawford, Director of Quality

DW Industries Inc.

- 1/2 - 1/2 - 1/3 - 1/3 - 1/4

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Certificate of Conformance

COBA

DW INDUSTRIES INC.

Tel. 713 644-8372 Fax 713-644-4947

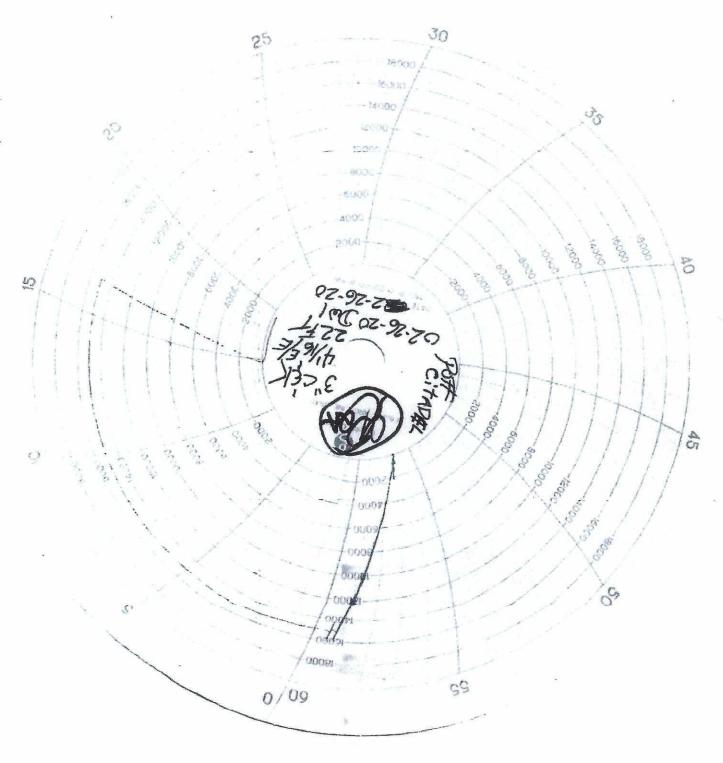
FLOAT FLANGES	3". 10,000 psi W	Part Description:	OA-S640-4822-4-		Purchas
02/26/2020	Assembly Date:		T		se Oro
T-WG029220	Serial Number:	OA-5640-4822-4-1/16FXFL-ALE		DW Industries Part Number:	ier Info
79102002	Work Work: Order Number:	38	CONTACT PAUL HOFFMAN FOR		Purchase Order Information
	104 JUA9 	ORILLING Customer Contact:		J3GATIO	Mame:

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE IDENTIFICATION REQUIREMENTS AND API SPEC 7K.

Certificate Issue Date: 2/27/2020

Garrett Crawford, Director of Quality

DW Industries Inc.



COBA

Certificate of Conformance

DW INDUSTRIES INC, Holston, TX 77087

Tel. 713 644-8372

Tel. 713 644-8372

մ" EIC 005 MXE	U d"XI2d" 3K M\	Part Description		Customer Part Number:	Purcha
1/27/2023	Assembly Date:		Ţ	QTY Ordered:	se Ord
73070065	Serial Number:	209-"42149-850229-AO		DW Industries Part Number:	ler Info
23010065	DW Industries Work Order Number:	∠∠6 ⊅ 0∠00		Customer Purchase Order Number:	Purchase Order Information
A93	INDA FO	ASUTIN HOSE Confact:		Sustomer Name:	

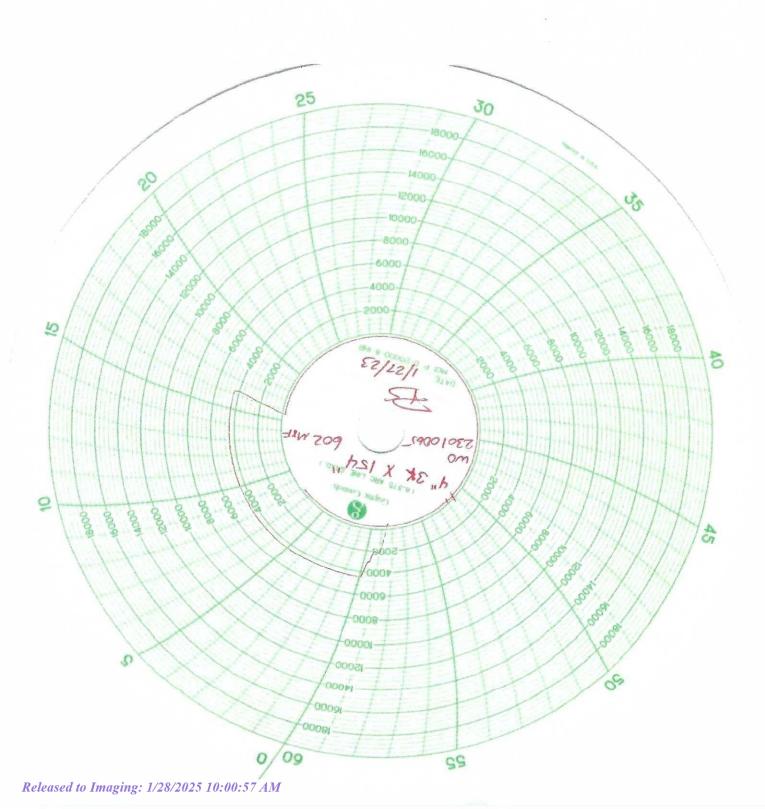
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, DUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, DUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, DUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL MITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 1/27/2023

KI MAN SALAR

Quality Assurance, DW Industries, Inc.

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IN SERVICE 12-20-21



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Suite 190 Houston, TX. 77086

PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147

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

PRESSURE TEST CERTIFICATE

Customer:

A-7 AUSTIN INC DBA AUSTIN HOSE

10/15/2021

Customer Ref.:

00595477

Hose Serial No.:

H3-101521-2

Invoice No.:

521925

Created By:

Test Date:

Micky Mhina

Product Description:

3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

End Fitting 1: Oracle Star No.: 4 1/16 10K FIXED FLANGE

End Fitting 2:

Assembly Code:

L41975 091719

CUSTOMER P/N:

68703010-10074881 10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

Test Pressure: Working Pressure: 15,000 PSI. 10,000 PSI.

4 1/16 10K FLOAT HEAT TREATED FLANGES

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies) or GTS-04-048 (15K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA management system.

Quality:

Date:

Signature:

QUALITY

10/15/2021

nkul

Production:

Date:

Signature:

PRODUCTION

10/15/2021

F-PRD-005B

Revision 6_05032021



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/ollandgas

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CUSTOMER:

A-7 AUSTIN INC DBA AUSTIN HOSE

CUSTOMER P.O.#:

00595477

CUSTOMER P./N.#:

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S

PART DESCRIPTION: SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH

STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

SALES ORDER #:

521925

QUANTITY:

1

SERIAL #:

H3-101521-2

SIGNATURE:	Maya wnew	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	



H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

CUSTOMER

Company:

Austin Distributing

TEST OBJECT

Serial number:

H3-101521-2

Lot number:

L41975091719

Description:

Production description:

Sales order #: Customer reference: 521925

0.

Hose ID: Part number: 3" 10k ck

TEST INFORMATION

Test procedure: Test pressure: GTS-04-053 15000.00 Fitting 1:

3.0 x 4-1/16 10K

Test pressure hold:

3600.00

psi sec Part number: Description:

Work pressure: Work pressure hold: 10000.00 900.00

psi sec

Fitting 2: Part number:

Length:

3.0 x 4-1/16 10K

Length difference: Length difference: 0.00

% inch

Description:

35

feet

Visual check:

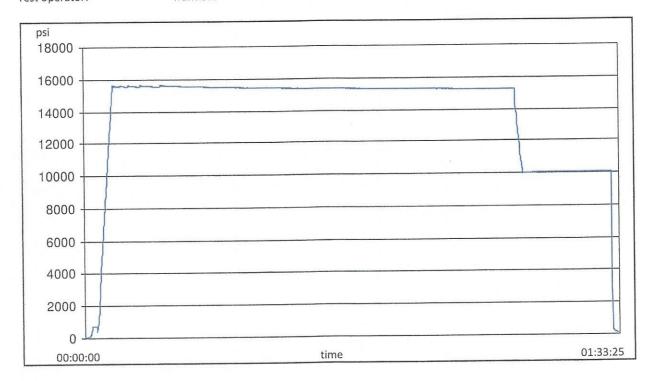
Pressure test result:

PASS

Length measurement result:

Test operator:

francisco





H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AQA1S	2021-02-24	2022-02-24
S-25-A-W	110D3PHQ	2021-03-11	2022-03-11
Comment			
Comment			

Filename: D:\Certificates\Report_101521-H3-101521-2.pdf

Hydrostatic Test Certificate

Hydrostatic Test Certifi	cate	ContiTech
Certificate Number	COM Order Reference 1429702 740382384	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE
Customer Purchase Order No: Project:	740302304	TULSA, OK 74119 USA
Test Center Address ContiTech Oil & Marine Corp.	Accepted by COM Inspection Gerson Mejia-Lazo	Accepted by Client Inspection
11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date: 07/14/22	he our Quality Management System, and to the best of our

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	knowledge are four Part No.	Description	Qnty	Serial Number	Work, Press. (psi)	Test Press. (psi)	Test Time (minutes)	
			4	70025	10,000	15,000	60	

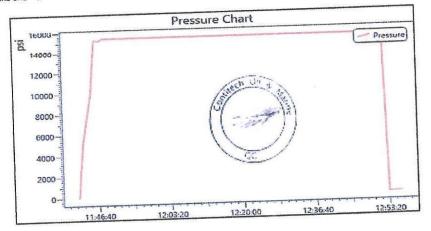
RECERTIFICATION

3" ID 10K Choke and Kill Hose x 35ft OAL

70025

Record In	iformation
Start Time	6/14/2022 11:42:08
End Time	6/14/2022 12:56:14
Interval	00:01:00
Number	75
MaxValue	15888
MinValue	-8
AvgValue	14184
RecordName	70025-sh
RecordNumber	237

Gauge Ir	nformation
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



intinen

Certificate of Conformity

Certificate of Como	intry		ContiTect
Certificate Number COM Order Reference H100163 1429702		er Reference	Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No: 740382384			1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:			USA
Test Center Address	A	scepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed:	Gerson Mejia-Lazo 07/14/22	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qnty	Serial Number	Specifications
50	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70025	ContiTech Standard

ARMORED CHOKE HOSE

TOSANHAL

4-29-22.



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 120 / 2019

Page: 16 / 91

ContiTech

OUAL	ITY CON	TROI						
INSPECTION AND TEST CERTIFICATE						√ °:	75819	
PURCHASER: ContiTech Oil & Marine Corp.					P.O. N°:		4501225327	
CONTITECH RUBBER order N°:	1127442	HOSE TYPE:	3"	ID		Choke an	d Kill Hose	
HOSE SERIAL N°:	75819	NOMINAL / A	CTUAL L	ENGTH:		10,67 r	m / 10,68 m	
W.P. 69,0 MPa 100)00 psi	T.P. 103,5	MPa	1500)0 psi	Duration:	60	min.
Pressure test with water at ambient temperature				Name of Street, or other party of the Street, or other party of th				
ambient temperature								
		See attachi	ment (1 page)			
COUPLINGS Type)	Seri	al Nº		Qu	ality	Heat N°	
3" coupling with		60	26		AISI	4130	A0607J	
4 1/16" 10K API Swivel Fl	ange end				AISI 4130		040841	
Hub				AISI 4130		54194		
3" coupling with	3" coupling with				AISI	4130	A0607J	
4 1/16" 10K API b.w. Fla	nge end		AISI		AISI 4130 04			
Not Designed For We	II Testing				API Sp	ec 16 C 2	2 nd Edition-F	SL2
						Temp	erature rate:	"B"
All metal parts are flawless WE CERTIFY THAT THE ABOVE	HOSE HAS BE	EN MANUFACT	URED IN	ACCORD	ANCE WIT	THE TERM	AS OF THE ORDER	
INSPECTED AND PRESSURE TE								
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 Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.								
COUNTRY OF ORIGIN HUNGARY/EU								
Date:	Inspector		Qua	ity Contr	CO.	ntiTech Rub	ber	
					Qua	adustrial Ki lity Control I (1)	Dept	
08. April 2019.				Som	~~	51	Tackly	5



Prepared by	by Cristian Rivera			Date:	8/27/2022	8/27/2022 QIN: N/A		N/A	
Customer:	HEL	MERICH & PAYNE, INC		Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALEN. PARK,TX,77547-2738			A	
User contact:	M	ITCH MCKINNIS		Phone:	e-mail: <u>mitch.mckinnis@h</u> g			oinc.com	
Paramete		ers		Hose Details			Test		
									Status
		PO			740398454 (88000240 SN:70035)				
		Gates SO			525035				
		Serial #:			88000240 SN:70035				
		As Tested Seria	al:		H2-082722-1 RE-TEST				
	Hose ID:			3 IN					
	Hose type:				INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END				
Application	า								
Informatio	n	Working press	ure	e:	10000 PSI.			PASS	

1. Visual Examination

An API 16C, IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END received from HELMERICH & PAYNE, INC for inspection, testing and external cosmetic repairs. The hydrostatic pressure testing was requested to 15000 PSI., by the customer HELMERICH & PAYNE, INC

Visual inspection and examination of external hose assembly showed some cosmetic dents and repairabledamages to the external armor at distance 32ft 9in. from EF2. (Need to fix a part of the hose.)

Both external & internal hose body and couplings of the hose were examined. Visual Inspection photos are in Table 2, while post inspection/testing pictures are in Table 4.

The hose was hydrostatically tested at 15000 PSI. test pressure with an hour-long hold. On completion of hydrostatic testing, an internal baroscopic examination was carried out, to check the condition of internal hose areas, mainly hose tube and coupling hose interface.

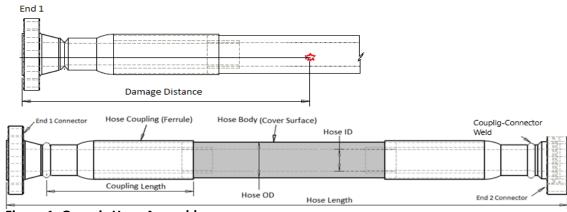


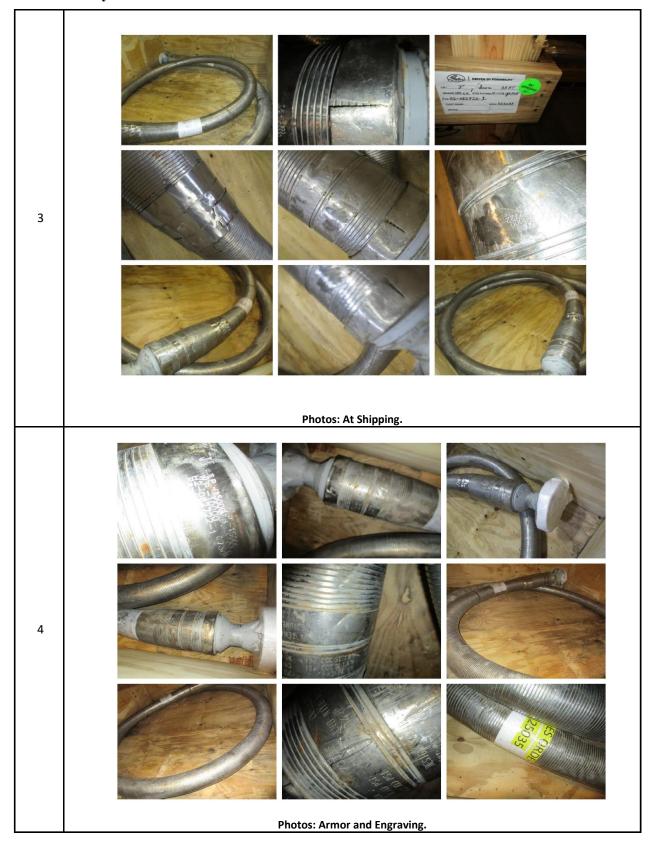
Figure 1: Generic Hose Assembly

1.0 **Observations and comments**





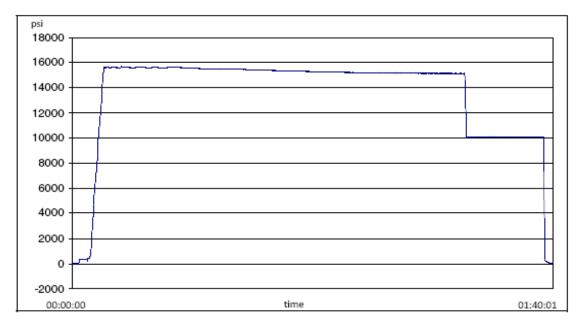








2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician
1	IN X 35FT CHOKE & KILL	2 10V C2V	2022-08-27	Martin Orazca
	ASSEMBLY C/W 4-1/16	3 10K C&K	2022-06-27	Martin Orozco

2.2 **Gates Hydrostatic Pressure tester**

	Test Equipment	Serial No	Last Cal Date	Cal Due Date
1	S-25-A-W	110AMCLO	2022-01-10	2023-01-10
2	S-25-A-W	110BSEUZ	2022-03-09	2023-03-09

2.3 **Hydro Static Test Pressure results**

	Details	Results			
1	Hydrostatic Test Results (1)	Pass	Fail		
2	Failure Mode	None			
3	Hose Dispatched to the customer?	Yes	No		

Note:

1. Hydrostatic Pressure report is given in Appendix 1

3. Hose borescope inspection

3.2 Internal Failure Details

	Type of Failure	Location of Defect	Ref. Photo	Defect Details
1	Liner breach/ collapse	None		None
2	Bulges/ Blisters	None		None
3	Other breach/failures	None		None





Photos: Liner/Coupling Interface END 1

F-ENG-001 Page: 5 of 9 Revision_0_042419





Photos: Liner/Coupling Interface END 2

Note

Borescope completed? Yes

4. Summary

Hose assembly successfully tested to requested test pressure of 15000 PSI. with an hour hold. It was then serialized and stamped, as H2-082722-1 RE-TEST. The bore scope showed no blisters or delamination in the internal lining/tube area. External damages were repaired as agreed with the customer.

F-ENG-001 Page: 6 of 9 Revision_0_042419



APPENDIX 1: Pressure Chart



H2-8316

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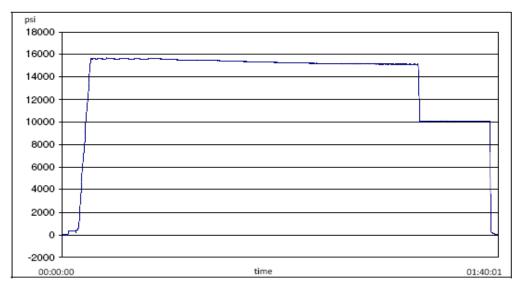
TEST REPORT

TEST OBJECT CUSTOMER Company: Serial number: H2-082722-1 Lot number: Production description: Description: Sales order #: 525035 740398454 (88000240 | Customer reference: Hose ID: 3 10k C&K SN:70035) Part number: TEST INFORMATION 3 10K C&K 3.0 x 4-1/16 10K Test procedure: Fitting 1: 15000.00 Test pressure: Part number: psi Test pressure hold: 3600.00 Description: Work pressure: 10000.00 Work pressure hold: 900.00 Fitting 2: 3.0 x 4-1/16 10K sec Length difference: 0.00 % Part number: Length difference: 0.00 Description: Visual check: Length: 35 feet

PASS Pressure test result:

Length measurement result:

Test operator: Martin



Filename: D:\Certificates\Report_082722-H2-082722-1.pdf Page 1/2





H2-8316

8/27/2022 8:51:22 AM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2022-01-10	2023-01-10
S-25-A-W	110BSEUZ	2022-03-09	2023-03-09
Comment			

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APPENDIX 2: Certificate of Conformance



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/ollandgas

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, INC

CUSTOMER P.O.#:

740398454 (88000240 | SN:70035)

CUSTOMER P/N:

88000240 | SN:70035

PART DESCRIPTION:

INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16

FLANGES BX155 RING GROOVE EACH END

SALES ORDER #:

525035

QUANTITY: SERIAL #:

H2-082722-1 RE-TEST

IGNATURE:	(Reverc	
TITLE:	QUALITY ASSURANCE	
DATE:	8/27/2022	

F-ENG-001 Page: 9 of 9 Revision_0_042419 Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 424079

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	424079
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	1/28/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	1/28/2025