R	eceived by OCD: D1/18/2024 10:56:24 AM U.S. Department of the Interior		Sundry Print Reports
	BUREAU OF LAND MANAGEMENT		and the second
	Well Name: CHUCK SMITH MDP1 8-17 FEDERAL COM	Well Location: T24S / R31E / SEC 8 / NENW / 32.2381219 / -103.7999924	County or Parish/State: EDDY / NM
	Well Number: 3H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM142143	Unit or CA Name:	Unit or CA Number:
	<b>US Well Number:</b> 3001554096	Operator: OXY USA INCORPORATED	

### **Notice of Intent**

Sundry ID: 2813862

1400

Type of Submission: Notice of Intent

Date Sundry Submitted: 09/25/2024

Date proposed operation will begin: 11/01/2024

Type of Action: APD Change Time Sundry Submitted: 01:11

**Procedure Description:** OXY USA Inc., respectfully requests approval to amend the subject well AAPD to change the BHL, TVD and casing design. See the attached APD sundry change overview worksheet along with the updated well plat and drilling documents. "There is no additional surface disturbance related to this Sundry"

### **NOI Attachments**

#### **Procedure Description**

CHUCKSMITHMDP1817FEDCOM3H\_FlexHoseCert\_20240925131030.pdf CHUCKSMITHMDP1817FEDCOM3H\_BradenheadCBLVariance\_20240925131022.pdf CHUCKSMITHMDP1817FEDCOM3H\_5MAnnBOPVariance\_20240925131011.pdf CHUCKSMITHMDP1817FEDCOM3H\_VAM\_SPRINT\_SF\_5.5in\_23ppf\_P110RY\_20240925131001.pdf CHUCKSMITHMDP18\_17FEDCOM3H\_DirectPlan\_20240925130952.pdf OXY\_Blanket\_Design\_A\_Pad\_Cover\_Sheet\_SNDDNS\_T24SR31E\_0802\_20240925130941.pdf CHUCKSMITHMDP18\_17FEDCOM3H\_DrillPlan\_20240925130930.pdf CHUCKSMITHMDP18\_17FEDCOM3H\_C102\_20240925130922.pdf

 $CHUCKSMITHMDP1817FEDCOM3H\_APDCHGSUNDRYWORKSHEET\_20240925130907.pdf$ 

Received by OCD: 11/18/2024 10:56:24 AM Well Name: CHUCK SMITH MDP1 8-17 FEDERAL COM	Well Location: T24S / R31E / SEC 8 / NENW / 32.2381219 / -103.7999924	County or Parish/State: EDDY? of NM
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Lease Number: NMNM142143	Unit or CA Name:	Unit or CA Number:
<b>US Well Number:</b> 3001554096	Operator: OXY USA INCORPORATED	
		)
Conditions of Approva		

#### Additional

CHUCK\_SMITH\_MDP1\_8\_17\_FEDERAL\_COM\_3H\_\_\_SUNDRY\_COA\_20241118101436.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: MELISSA GUIDRY

Name: OXY USA INCORPORATED

Title: Advisor Regulatory Sr.

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON

Phone: (713) 497-2481

Email address: MELISSA\_GUIDRY@OXY.COM

Field

Representative Name: Street Address: City: Phone: Email address:

State:

State: TX

# **BLM Point of Contact**

BLM POC Name: KEITH P IMMATTY BLM POC Phone: 5759884722 Disposition: Approved Signature: KEITH IMMATTY BLM POC Title: ENGINEER

Zip:

BLM POC Email Address: KIMMATTY@BLM.GOV

Signed on: SEP 25, 2024 01:11 PM

Disposition Date: 11/18/2024

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Received by OCD: 11/18/2	024 10:56:24 AM			Page 3 of
Form 3160-5 (June 2019)	UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	ON Expir	ORM APPROVED MB No. 1004-0137 res: October 31, 2021
	RY NOTICES AND REP		6. If Indian, Allottee or Tribe N	
Do not use t	his form for proposals	to drill or to re-enter an APD) for such proposals.		
SUBM	IT IN TRIPLICATE - Other inst	ructions on page 2	7. If Unit of CA/Agreement, Na	ame and/or No.
1. Type of Well     Image: Oil Well	Gas Well Other		8. Well Name and No. CHUCK SMITH MDP1 8-17 FEDERAL COM	изн
2. Name of Operator OXY USA	INCORPORATED		9. API Well No. 3001554096	
3a. Address P.O. BOX 1002, 1		3b. Phone No. (include area code)           (661) 763-6046	10. Field and Pool or Explorato PURPLE SAGE/(WOLFCAMP) GAS	
4. Location of Well <i>(Footage, Se</i> SEC 8/T24S/R31E/NMP	c., T.,R.,M., or Survey Description		11. Country or Parish, State EDDY/NM	
12	. CHECK THE APPROPRIATE E	BOX(ES) TO INDICATE NATURE (	OF NOTICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION		TYPE	E OF ACTION	
✓ Notice of Intent	Acidize	Deepen [ Hydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans	New Construction         [           Plug and Abandon         [	Recomplete Temporarily Abandon	Other
Final Abandonment Notic	e Convert to Injection	n Plug Back	Water Disposal	
the proposal is to deepen dire the Bond under which the wo completion of the involved o	ectionally or recomplete horizonta ork will be perfonned or provide the perations. If the operation results	lly, give subsurface locations and me ne Bond No. on file with BLM/BIA. I in a multiple completion or recomple	asured and true vertical depths of Required subsequent reports must tion in a new interval, a Form 310	k and approximate duration thereof. If f all pertinent markers and zones. Attach t be filed within 30 days following 60-4 must be filed once testing has been e operator has detennined that the site
•		d the subject well AAPD to change updated well plat and drilling doc		sign. See the attached
"There is no additional s	urface disturbance related to th	iis Sundry"		

<ul><li>14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)</li><li>MELISSA GUIDRY / Ph: (713) 497-2481</li></ul>	Advisor Regulatory Sr. Title	
(Electronic Submission)	Date 09/25.	2024
THE SPACE FOR FED	ERAL OR STATE OFICE USE	
Approved by		11/18/2024

KEITH P IMMATTY / Ph: (575) 988-4722 / Approved	ENGINEER Title	11/18/2024 Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

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#### **GENERAL INSTRUCTIONS**

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

#### SPECIFIC INSTRUCTIONS

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

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

#### NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

# **Additional Information**

### Location of Well

0. SHL: NENW / 361 FNL / 2595 FWL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.2381219 / LONG: -103.7999924 (TVD: 0 feet, MD: 0 feet ) PPP: NWNE / 100 FNL / 2585 FEL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.2388389 / LONG: -103.7996832 (TVD: 12231 feet, MD: 12607 feet ) PPP: NWNE / 3 FNL / 2585 FEL / TWSP: 24S / RANGE: 31E / SECTION: 17 / LAT: 32.224589 / LONG: -103.799665 (TVD: 12267 feet, MD: 17597 feet ) BHL: SWSE / 20 FSL / 2585 FEL / TWSP: 24S / RANGE: 31E / SECTION: 17 / LAT: 32.2101304 / LONG: -103.7996523 (TVD: 12205 feet, MD: 22857 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	CHUCK SMITH MDP1 8-17 FEDERAL COM 3H
LOCATION:	Section 8, T.24 S., R.31 E.
COUNTY:	Eddy County, New Mexico

# COA

H2S	• Yes	O No	
Potash	O None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	O 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 **921** 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 <u>24 hours in the Potash Area</u> 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.
- The 7-5/8 inch intermediate casing shall be set at approximately 11,860 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. <u>Operator must top</u> <u>out cement after the bradenhead squeeze and verify cement to surface. Operator</u> <u>can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8"</u> <u>casing to surface if confidence is lacking on the quality of the bradenhead squeeze</u> <u>cement job. Submit results to BLM.</u> 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 **23,103** 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).'
- 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

### (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 2<sup>nd</sup> 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  $2^{nd}$  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. <u>Wait on cement (WOC) for Water Basin:</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 at the shoe, 2) until cement has been in place at least <u>8 hours</u>. 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 11/18/2024

# Ontinental 3

# Certificate of Conformity

ContiTech

Certificate Number H100161	COM Order Reference 1429702	Customer Name & Address 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. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date: 06/27/22	3

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.

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

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Hydrostatic Test Certificate

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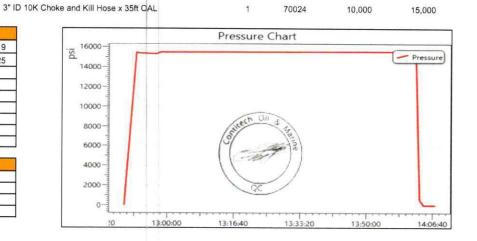
Certificate Number H100161	COM Order Reference 1429702	ContiTed Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	740382384	1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:		USA
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil &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

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 OAI	1	70024	10.000	15.000	60

Record Information		
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 Information				
Model	ADT680			
SN	21817380014			
Range	(0-40000)psi			
Unit	psi			



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LHISSONEDEC 23/52

Gates Engineering & Services North America 7603 Prairie Oak Dr. Houston, TX. 77086 PHONE : (281) 602-4119 FAX: EMIL: <u>Troy.Schmidt@gates.com</u>

# 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.

5	:# JAIA3	42-112019-4
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S	:# ABORD 2314	286915
		CLAMPS
d	:NOIT9I82230 T8A	RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE
		ZRIMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155
	:N/4 AAMOT2U	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL
	:#.O.9 293MOT2U	4128128 (RIG 1 PO 002773)
C	:USTOMER:	<b>320H NITZUA ABO DNI NITZUA 5-A</b>

6102/02/11	:3TAQ
<b>32NARUS2A YTIJAUD</b>	:31717
Mouna Orbi	SIGNATURE:

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

Working Pressure:

Test Pressure:

WEB: www.gates.com EMAIL: Troy.Schmidt@gates.com :XA3 6TT1 - 209 (182) : 3NOHd

# PRESSURE TEST CERTIFICATE

			100 000 01
: acle Star No.:	6716286-01020689	Security Code:	F41545 113018
1 Pritting 1:	4 1/16 10K FLANGES FIXED	End Fitting 2:	TAOJA 2320041 NOI 31/1 P
roduct Description:	FLANGES WITH BX 155 RING GROOV	VE SUPPLIED WITH STEEL ARM	BS & SLINGS & LIFT EYE CLAMPS
	and the second		distant for what t show on the state of the
:.oN 95iovr			
ustomer Ref.: voice No.:	28691S	Created By:	Norma Cabrera

# Gates Engineering & Services North America certifies that:

10KFR3.012.0CK411610KFIXXFLT SSA SC LE

.management system. and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA 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

: ameudis	-1000 maina 1	: Signature :
: ejeŭ	SIGZ/0Z/TT	: 9160
Production:	YTIJAUD	:Vuality:

F-PRD-005

CUSTOMER P/N:



6102/02/11 PRODUCTION

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Page 18 of 68

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Test operator:

Visual check:

Length difference:

Length difference:

**Mork pressure:** 

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Sales order #:

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CUSTOMER

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Work pressure hold:

Test pressure hold:

**VOITAMAORNI TEST** 

Customer reference:

Production description:

Length measurement result: Pressure test result:

	RT	0	d	3	Ы	L	S	2	L
1		-	0	-	-			-	-

emit

OBJECT	TEST	

rength:

Description:

Part number:

Description:

Part number:

ւթվարտ երթ

Description: Lot number:

Serial number:

Fitting 1:

:OI 920H

Fitting 2:

3.0 x 4-1/16 10K	
3.0 x 4-1/16 10K	
3'0 JOK W2 C&K	
F41242113018	

#5-112019-4

M9 70:51:51 9102/02/11

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Page 1/2

10:72:10

# 12-1987

M9 70:51:51 8102/02/11



# TEST REPORT

#### **GAUGE TRACEABILITY**

Calibration due date	Calibration date	Serial number	Description
5050-03-72	2079-03-17	TIOAMCLO	M-A-25-2
2020-04-14	5076-04-76	<b>110APO2K</b>	W-A-25-2

Trammol

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DW Industries Inc. Carrett Crawford, Director of Quality

Certificate Issue Date: 2/27/2020

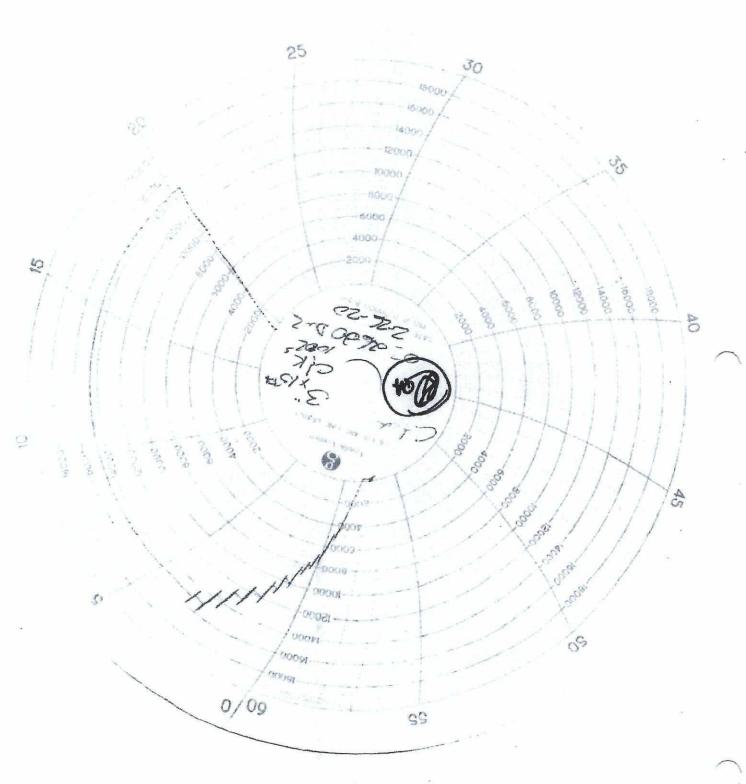
WITH ISO-9001:2015, API Q1 AND API SPEC 7K. IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: INDUSTRIES,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

WWWEB ONIONS	C/M CI 3% T0'000 bzi M	Part Description	1005-4 OV-2640-4812-	Customer Part Number:	Purchase
07/20/2020	Assembly Date:		T	QTY Ordered:	ase Order
052620DW-2	Serial Number:	t-7007-51	84-0492-40	Part Number: DW Industries	
50050163	DW Industries Work Order Number:		CONTACT PAUL I	Customer: Purchase Order Number:	Information
PAUL HOFFMAN 032-241-5360		Customer Contact:	DRILLING	CITADEL	Customer Name:

7424-443-EIT x57 Tel. 713 644-8372 Houston, TX 77087 6287 Long Drive DM INDRALISTICS 丛 G

Certificate of Conformance

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Certificate of Conformance

2464-448-E17 X67 Tel. 713 644-8372 Houston, TX 77087 ANIA DUOJ 7820 DM INDORLISTER INC'

P CHOKE HOSE & LIFTING EYES & LIFTING EYES		Part Description:	J/J6FXFL-ALE 0A-5640-4822-4-	Customer Part Number:	Purcha
0707/97/70	Assembly Date: 02/26/2020		τ		se Orc
052620DW-1	Serial Number:	314-17391/1-	OA-5640-4822-4-1/16FXFL-ALE		ier Info
50020164	OW Industries Work Order Number:	RONTACT PAUL HOFFMAN FOR INFO		Customer Purchase Order Number:	Purchase Order Information
	0352-145-254		CONTRACT OF CONTRACT		Customer Name:

WITH ISO-9001:2015, API Q1 AND API SPEC 7K. IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE PRESERVATION, PACKAGING, 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

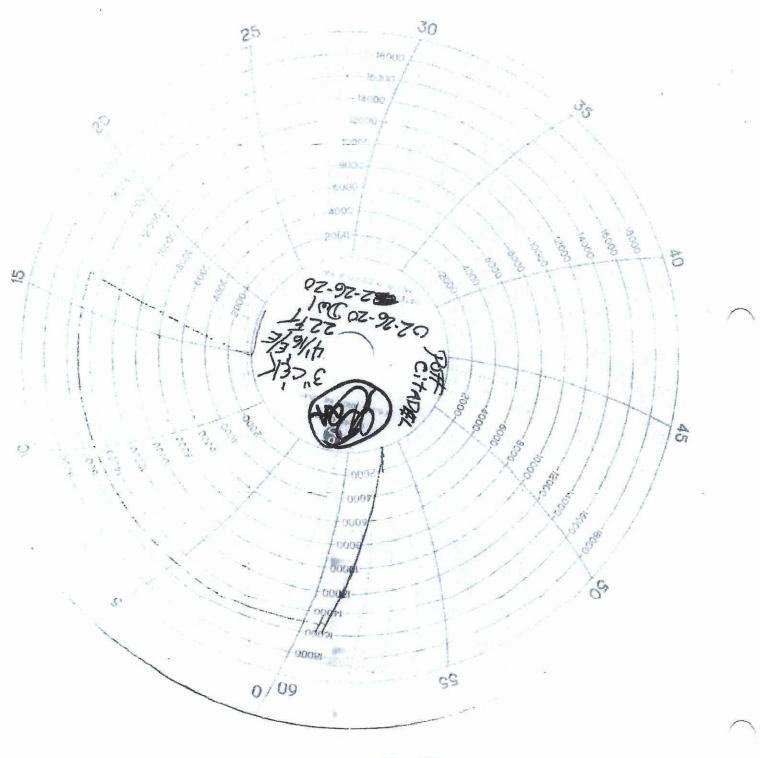
DW Industries Inc.

Carrett Crawford, Director of Quality

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# Certificate of Conformance

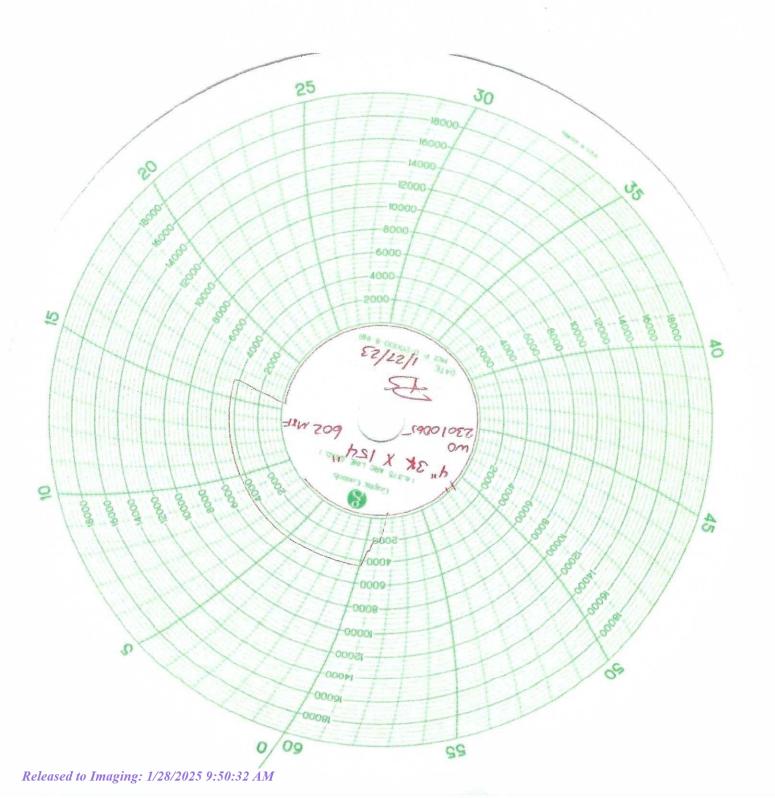
Tel. 713 644-8372 Fax 713-644-4947 Houston, TX 77087 DW INDUSTRIES INC.

4", FIG 602 MXF	/M XE "ÞSTX"Þ 🛛 🕄	Part Description		Customer Part Number:	Purcha
T\52\2033	Safembly Date:	de antie de mense de décentre de la constante d	Ţ	QTY Ordered:	se Ord
59007087	Serial Number:	709-"4214	9-8E0229-AO	Part Number:	ler Info
59007082	DW Industries Work Order Number:	LL	670200	Customer Purchase Order Number:	Purchase Order Information
АЯЭ	1ΠDA FO	rəmotsu) Contact:	HOSE	NITU2A	Customer Name:

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 PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 1/27/2023

Quality Assurance, Inc.



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 TES	ST CERTIFI	CATE
Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/15/2021
Customer Ref.:	00595477	Hose Serial No.:	H3-101521-2
Invoice No.:	521925	Created By:	Micky Mhina
Product Description:	3" X 35' GATES FIRE RATED CHOKE & KILL HOSE TREATED FLANGES SUPPLIED W	ASSEMBLY SUITED FOR H25 ITH STAINLESS STEEL ARMC	S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT DR SAFETY CLAMPS & LIFT EYES
End Fitting 1:	4 1/16 10K FIXED FLANGE	End Fitting 2:	4 1/16 10K FLOAT HEAT TREATED FLANGES
Oracle Star No.:	68703010-10074881	Assembly Code:	L41975 091719
CUSTOMER P/N:	10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE	Test Pressure:	15,000 PSI.
		Working Pressure:	10,000 PSI.
The following hos specifications: GT assemblies), whic test graph will acc was pressure test	ing & Services North America cert e assembly has successfully passed all S-04-052 (for 5K assemblies) or GTS-0 h include reference to Specification AP company this test certificate to illustrat ed using equipment and instrumentation forth in the GESNA management system	pressure testing req 04-053 (10K assembli I 16C (2nd Edition); e conformity to test r on that has been calil	es) or GTS-04-048 (15K sections 7.5.4, 7.5.9, and 10.8.7. A requirements. This hose assembly
Quality: Date : Signature : F-PRD-005B	QUALITY 10/15/2021 Muly New	Production: Date : Signature :	PBODUCTION 10/15/2021 Revision 6_05032021



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairle Oak Dr. Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: www.gates.com/oilandgas

# **CERTIFICATE OF CONFORMANCE**

This is to 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
PART 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
SALES ORDER #:	521925
QUANTITY:	1
SERIAL #:	H3-101521-2

SIGNATURE:	Mulle when	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	

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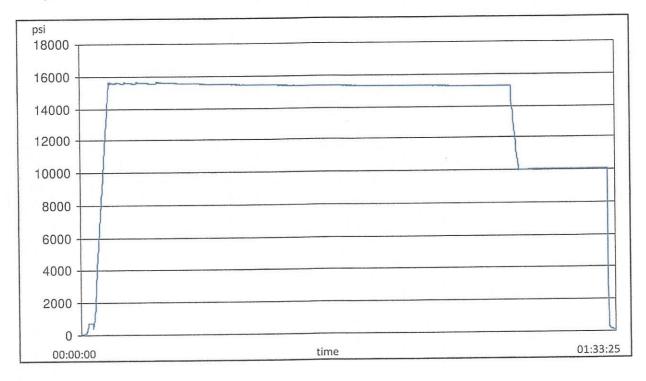
# **TEST REPORT**

H3-6963

	CUSTOMER			TEST OBJECT				
Company:		Austin Distributing		Serial number:		H3-101521-2		
				Lot number:		L41975091719	9	
	Production description:			Description:				
	Sales order #:	521925						
	Customer reference:			Hose ID:		3" 10k ck		
				Part number:				
	TEST INFORMATION							
	Test procedure:	GTS-04-053		Fitting 1:		3.0 x 4-1/16 1	OK	
	Test pressure:	15000.00	psi	Part number:				
	Test pressure hold:	3600.00	sec	Description:				
	Work pressure:	10000.00	psi					
	Work pressure hold:	900.00	sec	Fitting 2:		3.0 x 4-1/16 1	.OK	
	Length difference:	0.00	%	Part number:				
	Length difference:	0.00	inch	Description:				
	Visual check:			Length:		35	feet	
	Pressure test result:	PASS						
	Length measurement result:							

Test operator:

francisco



Filename: D:\Certificates\Report\_101521-H3-101521-2.pdf



# H3-6963

# **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			

Filename: D:\Certificates\Report\_101521-H3-101521-2.pdf

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ContiTech

# Hydrostatic Test Certificate

	Customer Name & Address
1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE
11000000	TULSA, OK 74119 USA
	the offerst inspection
Accepted by COM Inspection	PRODUCT BY CO
Signed:	relow by our Quality Management System, and to the best of our
	740382384           Accepted by COM Inspection           Signed:           Data:

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.

ltem	Part No.	Description	Qnty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)	
	and the second	222.001	1	70025	10,000	15,000	60	

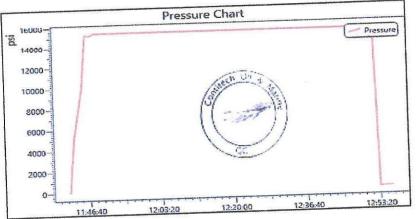
RECERTIFICATION 50

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

70025 1

Record in	formation
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 li	nformation
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



# Page 31 of 68 ontinenta

ContiTech

# **Certificate of Conformity**

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

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 Frostalbal 4-29-22

Received by OCD: 11/18/2024 10:56:24 AM



CONTITECH RUBBER	No: QC-DB- 120 / 2019			
Industrial Kft.	Page:	16/91		

ContiTech

QUAL INSPECTION A	TROL T CERTIFICATE			CERT. Nº:		75819		
PURCHASER:	Dil & Marine C	Dil & Marine Corp.		P.O. N°:		4501225327		
CONTITECH RUBBER order N°	1127442	HOSE TYPE:	3"	ID		Choke an	d Kill Hose	
HOSE SERIAL Nº:	75819	NOMINAL / AC	TUAL LE	NGTH:		10,67 n	n / 10,68 m	
W.P. 69,0 MPa 10	000 psi	T.P. 103,5	MPa	1500	)0 psi	Duration:	60	min.
Pressure test with water at ambient temperature See attachment ( 1 page )								
COUPLINGS Typ	8	Serial	N°		Qu	ality	Heat N°	
3" coupling with		602	6		AISI	4130	A0607J	
4 1/16" 10K API Swivel Fl	ange end				AISI	4130	040841	
Hub				AISI		4130	54194	
3" coupling with		601	6		AISI 4130		A0607J	
4 1/16" 10K API b.w. Fla	inge end				AISI 413		040431	
Not Designed For Well Testing       API Spec 16 C 2 <sup>nd</sup> Edition FSL2         Temperature rate: "B"         All metal parts are flawless         WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.         STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms.								
conditions and specifications of the above 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: 08. April 2019. Unspector Inspector Quality Control Quality Control Contificed Rubber Industrial Kft. Quality Control Dept. (1) Source Market Action Source Action Source Market Action Source Actio								

ContiTech Rubber Industrial Kft. | Budapesti út 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungary Phone: +36 62 566 737 | e-mail: info@fluid.contitech.hu | Internet: www.contitech-rubber.hu; www.contitech-oil-gas.com The Court of Csongråd County as Registry Court | Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003

### Hose Assembly Evaluation Sheet

Prepared by Cristian Rivera			Date:	8/27/2022		QIN:	N/A		
Customer: HELMERICH & PAYNE, INC			Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALEN PARK,TX,77547-2738			A		
User contact:	МІ	TCH MCKINNIS		Phone:			e-mail:	mitch.mckinnis@hp	pinc.com
		Parameters		•	Н	ose Detai	ils	Test	
									Status
	PO			740398454 (88000240   SN:70035)					
		Gates 50			525035 88000240   SN:70035 H2-082722-1 RE-TEST				
					3 IN				
			INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END						
Application	า								-
Information Working pressure:			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.

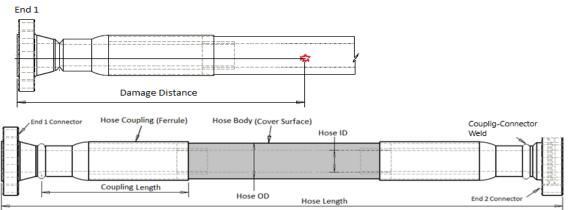


Figure 1: Generic Hose Assembly

Hose Assembly Evaluation Sheet

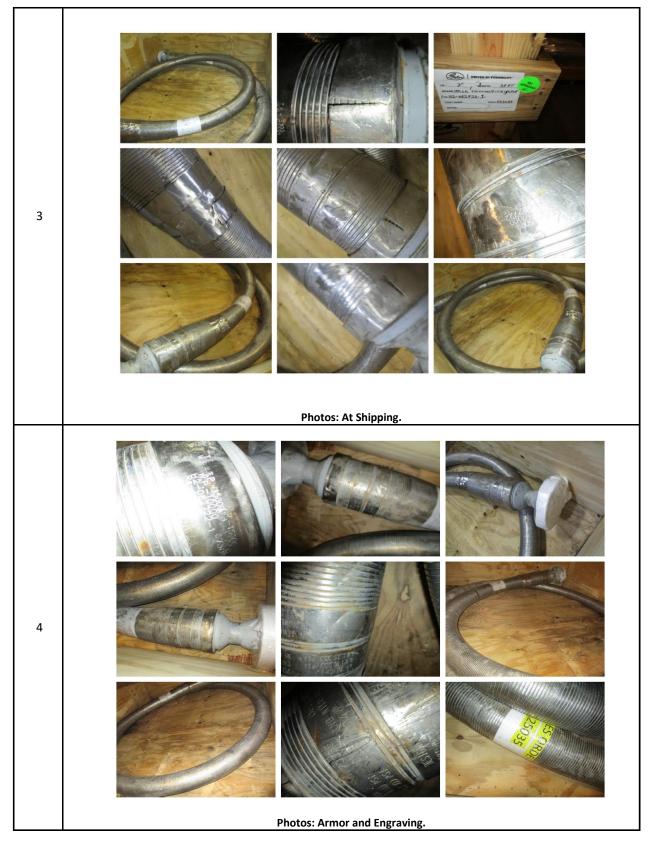
#### **1.0** Observations and comments











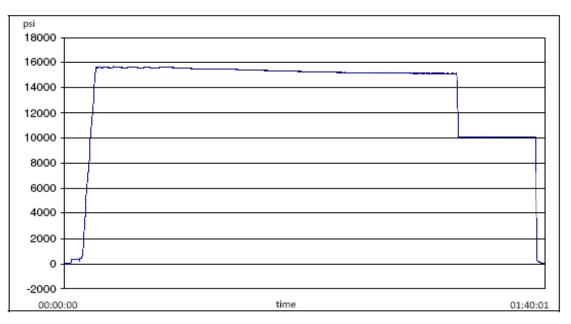
### Hose Assembly Evaluation Sheet







# 2. Hydro Static Pressure test



#### 2.1 Hydrostatic Pressure test Procedures

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

# Gates).

### Hose Assembly Evaluation Sheet

### 2.3 Hydro Static Test Pressure results

	Details	Re	sults
1	Hydrostatic Test Results <sup>(1)</sup>	Pass	<del>Fail</del>
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

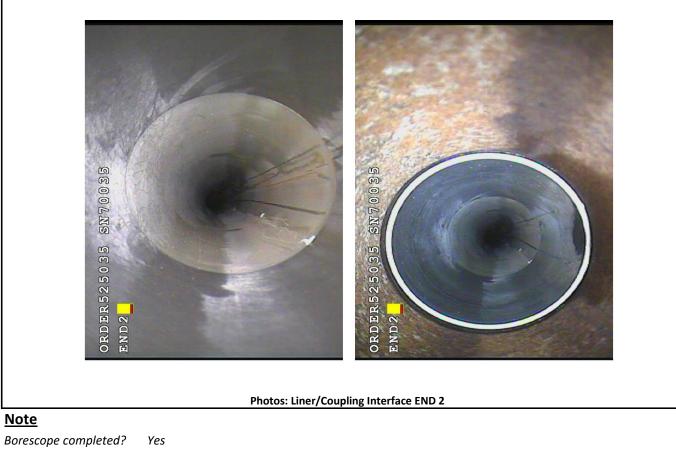
#### **3.2 Internal Failure Details**

	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





### 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.

#### **Hose Assembly Evaluation Sheet**



#### **APPENDIX 1: Pressure Chart**

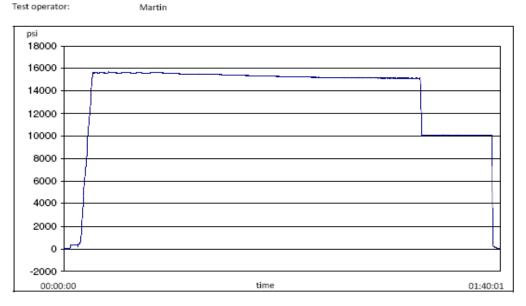
# H2-8316

8/27/2022 8:51:22 AM

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

**TEST REPORT** 

Test operator:



Filename: D:\Certificates\Report\_082722-H2-082722-1.pdf

Page 1/2

Received by OCD: 11/18/2024 10:56:24 AM

#### Hose Assembly Evaluation Sheet





# 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			

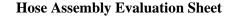
Filename: D:\Certificates\Report\_082722-H2-082722-1.pdf

Page 2/2

.

Received by OCD: 11/18/2024 10:56:24 AM







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, INCCUSTOMER P.O.#:740398454 (88000240 | SN:70035)CUSTOMER P/N:88000240 | SN:70035PART DESCRIPTION:INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16FLANGES BX155 RING GROOVE EACH END525035QUANTITY:1SERIAL #:H2-082722-1 RE-TEST

SIGNATURE:	CAUCIC	
TITLE:	QUALITY ASSURANCE	
DATE:	8/27/2022	

# **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

#### **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.

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

Pilot hole and Lateral sections, 10M requirement

VBR = Variable Bore Ram. Compatible range listed in chart. HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

M W D - Measurement W me D mm

### **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

Generated on April 25, 2024



# **CONNECTION DATA SHEET**

OD: 5.500 in. Weight: 23.00 lb/ft Drift: 4.545 in. (API) Wall Th.: 0.415 in.

Grade: P110 RY



# Semi-Flush

Make-up Torque (ft-lb) 20,250 MIN 22,750 **OPTI** 25,250 MAX

**Torque with Sealability (ft-lb)** 40,000 MTS

Locked Flank Torque (ft-lb) 4,550 MIN 15,920 **MAX** 

(2) MTS: Maximum Torque with Sealability.

#### PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.670	in.
Nominal Wall Thickness	0.415	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	23.00	lb/ft
Plain End Weight	22.56	lb/ft
Drift	4.545	in.
Grade Type	Controlle	ed Yield
Grade Type Minimum Yield Strength	Controlle 110	ed Yield <i>ksi</i>
~	0011110111	
Minimum Yield Strength	110	ksi
Minimum Yield Strength Maximum Yield Strength	110 125	ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength	110 125 140	ksi ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength Pipe Body Yield Strength	110 125 140 729	ksi ksi ksi klb

#### **CONNECTION PROPERTIES**

Connection Type	Semi-Pr	emium Integral S
Nominal Connection OD	5.779	in.
Nominal Connection ID	4.615	in.
Make-up Loss	5.606	in.
Tension Efficiency	92	% Pipe Body
Compression Efficiency	92	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

#### JOINT PERFORMANCES

Tension Strength	671	klb
Compression Strength	671	klb
Internal Pressure Resistance	14,530	psi
External Pressure Resistance	14,540	psi
Maximum Bending, Structural	80	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



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# OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Chuck Smith MDP1 8\_17 Chuck Smith MDP1 8\_17 Fed Com 3H

Wellbore #1

**Plan: Permitting Plan** 

# **Standard Planning Report**

11 September, 2024

### **OXY** Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	HOPSPP ENGINEERING DESIGNS PRD NM DIRECTIONAL PLANS (NAD 1983) Chuck Smith MDP1 8_17 Chuck Smith MDP1 8_17 Fed Com 3H Wellbore #1 Permitting Plan			· · ·	Local Co-ordinate Reference:Well Chuck Smith MDP1 8_17 FedTVD Reference:RKB=25' @ 3495.00ftMD Reference:RKB=25' @ 3495.00ftNorth Reference:GridSurvey Calculation Method:Minimum Curvature				Fed Com 3H	
Project	PRD N	M DIRECTION	NAL PLANS (I	NAD 1983)						
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 nerican Datum xico Eastern Z			System Dat	tum:		an Sea Level ing geodetic sc	ale factor	
Site	Chuck	Smith MDP1 8	3_17							
Site Position: From: Position Uncertaint	Мар <b>у:</b>	0.89 1	North Eastii t Slot F	-	705,7		Latitude: Longitude:			32.237838 -103.801468
Well	Chuck	Smith MDP1 8	17 Fed Com	ЗH						
Well Position Position Uncertaint Grid Convergence:	-	0.0 9.0	00 ft Ea	orthing: isting: ellhead Eleva	ation:	450,771.75 u 706,239.13 u	usf Lon	tude: gitude: und Level:		32.23812 -103.79999 3,470.00 ft
Wellbore	Wellbo	ore #1								
Magnetics	Мо	del Name	Sampl	e Date	Declinat	tion	Dip A	•	Field Str	-
					(°)		(°)		(nT	)
		HDGM_FILE		3/27/2023	(°)	6.42	(°,	59.80	•	.20000000
Design	Permit	HDGM_FILE		3/27/2023	(°)	6.42	(*.		•	•
Audit Notes:	Permitt	_						59.80	47,531	•
Audit Notes: Version:	Permitt	ting Plan	Phas	e: F	PROTOTYPE	Tie	On Depth:	59.80	47,531	•
Audit Notes:	Permitt	ting Plan		e: F			On Depth: W	59.80 Dire	47,531	•
Audit Notes: Version:	'rogram Depti (ft	ting Plan D Date h To	Phas epth From (T (ft) 0.00 9/11/2024 7 (Wellbore)	e: F VD)	PROTOTYPE +N/-S (ft)	Tie +E/- (ft 0.0	On Depth: W	59.80 Dire	47,531 0.00 ection (°)	•
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (ft)	'rogram Depti (ft	ting Plan D Date h To Survey	Phas epth From (T (ft) 0.00 9/11/2024 7 (Wellbore)	e: F VD)	PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mc_MWI	Tie +E/- (ft 0.0	On Depth: W ) 0	59.80 Dire	47,531 0.00 ection (°)	•
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Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (ft) 1 0.00 Plan Sections Measured Depth (ft) Inclin (ft)	rogram Depti (ft 23,07	Date To Control Date	Phas epth From (T (ft) 0.00 9/11/2024 7 (Wellbore) ing Plan (Well Vertical Depth (ft) 0.00	e: F VD) bore #1) +N/-S (ft) 0.00	PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mc_MWI MWD+HRGM +E/-W (ft) 0.00	Tie +E/- (ft 0.0 D-+HRGM_R5 Dogleg Rate (°/100ft) 0.00	On Depth: 	59.80 Dire 17 17 17 	47,531 0.00 ection (°) 7.58 TFO (°) 0.00	.20000000
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Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (ft) 1 0.00 Plan Sections Measured Depth (ft) Inclu (ft) 0.00 4,300.00 5,300.25 8,664.36 9,664.61	rogram Depti 23,07 0.00 0.00 10.00 10.00 10.00 0.00	Date h To ) Azimuth (°) 0.00 0.00 29.11 29.11 0.00	Phas epth From (T (ft) 0.00 9/11/2024 7 (Wellbore) ing Plan (Well 0.00 4,300.00 5,295.18 8,608.15 9,603.33	e: F VD) bore #1) +N/-S (ft) 0.00 0.00 76.09 586.58 662.66	PROTOTYPE +N/-S (ft) 0.00 Tool Name B001Mc_MWI MWD+HRGM +E/-W (ft) 0.00 0.00 0.00 42.37 326.67 369.04	Tie +E/- (ft 0.0 D+HRGM_R5 Dogleg Rate (°/100ft) 0.00 0.00 1.00	On Depth: 	59.80 Dire 17 17 17 0.00 0.00 0.00 0.00 0.00	47,531 0.00 ection (°) 7.58 <b>TFO</b> (°) 0.00 0.00 0.00 29.11 0.00 180.00	.20000000
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Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 3H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3495.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3495.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	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)
100.00         0.00         100.00         0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220.00         <										
300.00         0.00         300.00         0.00										
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600.00         <	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00		
700.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00           900.00         0.00         0.00         900.00         0.00										
800.00         <										
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4,600.00         3.00         29.11         4,599.86         6.86         3.82         -6.69         1.00         1.00         0.00           4,700.00         4.00         29.11         4,699.68         12.19         6.79         -11.90         1.00         1.00         0.00           4,800.00         5.00         29.11         4,799.37         19.05         10.61         -18.58         1.00         1.00         0.00           4,900.00         6.00         29.11         4,898.90         27.42         15.27         -26.75         1.00         1.00         0.00           5,000.00         7.00         29.11         4,998.26         37.31         20.78         -36.40         1.00         1.00         0.00           5,100.00         8.00         29.11         5,097.40         48.71         27.13         -47.52         1.00         1.00         0.00           5,200.00         9.00         29.11         5,196.30         61.63         34.32         -60.12         1.00         1.00         0.00           5,300.00         10.00         29.11         5,294.93         76.05         42.35         -74.19         1.00         1.00         0.00	,			,						
4,700.00         4.00         29.11         4,699.68         12.19         6.79         -11.90         1.00         1.00         0.00           4,800.00         5.00         29.11         4,799.37         19.05         10.61         -18.58         1.00         1.00         0.00           4,900.00         6.00         29.11         4,898.90         27.42         15.27         -26.75         1.00         1.00         0.00           5,000.00         7.00         29.11         4,998.26         37.31         20.78         -36.40         1.00         1.00         0.00           5,100.00         8.00         29.11         5,097.40         48.71         27.13         -47.52         1.00         1.00         0.00           5,200.00         9.00         29.11         5,196.30         61.63         34.32         -60.12         1.00         1.00         0.00           5,300.00         10.00         29.11         5,294.93         76.05         42.35         -74.19         1.00         1.00         0.00										
4,800.00         5.00         29.11         4,799.37         19.05         10.61         -18.58         1.00         1.00         0.00           4,900.00         6.00         29.11         4,898.90         27.42         15.27         -26.75         1.00         1.00         0.00           5,000.00         7.00         29.11         4,998.26         37.31         20.78         -36.40         1.00         1.00         0.00           5,100.00         8.00         29.11         5,097.40         48.71         27.13         -47.52         1.00         1.00         0.00           5,200.00         9.00         29.11         5,196.30         61.63         34.32         -60.12         1.00         1.00         0.00           5,300.00         10.00         29.11         5,294.93         76.05         42.35         -74.19         1.00         1.00         0.00										
4,900.00         6.00         29.11         4,898.90         27.42         15.27         -26.75         1.00         1.00         0.00           5,000.00         7.00         29.11         4,998.26         37.31         20.78         -36.40         1.00         1.00         0.00           5,100.00         8.00         29.11         5,097.40         48.71         27.13         -47.52         1.00         1.00         0.00           5,200.00         9.00         29.11         5,196.30         61.63         34.32         -60.12         1.00         1.00         0.00           5,300.00         10.00         29.11         5,294.93         76.05         42.35         -74.19         1.00         1.00         0.00										
5,000.007.0029.114,998.2637.3120.78-36.401.001.000.005,100.008.0029.115,097.4048.7127.13-47.521.001.000.005,200.009.0029.115,196.3061.6334.32-60.121.001.000.005,300.0010.0029.115,294.9376.0542.35-74.191.001.000.00										
5,100.008.0029.115,097.4048.7127.13-47.521.001.000.005,200.009.0029.115,196.3061.6334.32-60.121.001.000.005,300.0010.0029.115,294.9376.0542.35-74.191.001.000.00	5.000.00	7.00	29.11	4,998.26	37.31	20.78	-36.40	1.00	1.00	0.00
5,200.00         9.00         29.11         5,196.30         61.63         34.32         -60.12         1.00         1.00         0.00           5,300.00         10.00         29.11         5,294.93         76.05         42.35         -74.19         1.00         1.00         0.00										
5,300.00 10.00 29.11 5,294.93 76.05 42.35 -74.19 1.00 1.00 0.00										
	5,300.00	10.00	29.11	5,294.93	76.05	42.35	-74.19			0.00
5,300.25 10.00 29.11 5,295.18 76.09 42.37 -74.23 1.00 1.00 0.00	5,300.25	10.00	29.11	5,295.18	76.09	42.37	-74.23	1.00	1.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 3H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3495.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3495.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	29.11	5,393.41	91.22	50.80	-88.99	0.00	0.00	0.00
5,500.00	10.00	29.11	5,491.89	106.40	59.25	-103.80	0.00	0.00	0.00
5,600.00	10.00	29.11	5,590.37	121.57	67.70	-118.60	0.00	0.00	0.00
5,700.00	10.00	29.11	5,688.85	136.75	76.16	-133.40	0.00	0.00	0.00
· · ·	10.00	29.11	,	151.92	84.61	-148.21	0.00	0.00	0.00
5,800.00	10.00	29.11	5,787.33	151.92	04.01	-140.21	0.00	0.00	0.00
5,900.00	10.00	29.11	5,885.81	167.09	93.06	-163.01	0.00	0.00	0.00
6,000.00	10.00	29.11	5,984.29	182.27	101.51	-177.82	0.00	0.00	0.00
6,100.00	10.00	29.11	6,082.77	197.44	109.96	-192.62	0.00	0.00	0.00
6,200.00	10.00	29.11	6,181.25	212.62	118.41	-207.42	0.00	0.00	0.00
6,300.00	10.00	29.11	6,279.73	227.79	126.86	-222.23	0.00	0.00	0.00
6,400.00	10.00	29.11	6.378.21	242.97	135.31	-237.03	0.00	0.00	0.00
6,500.00	10.00	29.11	6,476.69	258.14	143.76	-251.83	0.00	0.00	0.00
6,600.00	10.00	29.11	6,575.17	273.32	152.21	-266.64	0.00	0.00	0.00
6,700.00	10.00	29.11	6,673.65	288.49	160.66	-281.44	0.00	0.00	0.00
6,800.00	10.00	29.11	6,772.13	303.67	169.11	-296.25	0.00	0.00	0.00
6,900.00	10.00	29.11	6,870.61	318.84	177.57	-311.05	0.00	0.00	0.00
7,000.00	10.00	29.11	6,969.09	334.02	186.02	-325.85	0.00	0.00	0.00
7,100.00	10.00	29.11	7,067.57	349.19	194.47	-340.66	0.00	0.00	0.00
7,200.00	10.00	29.11	7,166.05	364.36	202.92	-355.46	0.00	0.00	0.00
7,300.00	10.00	29.11	7,264.53	379.54	211.37	-370.26	0.00	0.00	0.00
7,400.00	10.00	29.11	7,363.01	394.71	219.82	-385.07	0.00	0.00	0.00
7,500.00	10.00	29.11	7,461.49	409.89	228.27	-399.87	0.00	0.00	0.00
7,600.00	10.00	29.11	7,559.97	425.06	236.72	-414.68	0.00	0.00	0.00
7,700.00	10.00	29.11	7,658.45	440.24	245.17	-429.48	0.00	0.00	0.00
7,800.00	10.00	29.11	7,756.93	455.41	253.62	-444.28	0.00	0.00	0.00
7,900.00	10.00	29.11	7,855.41	470.59	262.07	-459.09	0.00	0.00	0.00
8,000.00	10.00	29.11	7,953.89	485.76	270.53	-473.89	0.00	0.00	0.00
8,100.00	10.00	29.11	8,052.37	500.94	278.98	-488.70	0.00	0.00	0.00
8,200.00	10.00	29.11	8,150.85	516.11	287.43	-503.50	0.00	0.00	0.00
8,300.00	10.00	29.11	8,249.33	531.29	295.88	-518.30	0.00	0.00	0.00
8,400.00	10.00	29.11	8,347.81	546.46	304.33	-533.11	0.00	0.00	0.00
8,500.00	10.00	29.11	8,446.29	561.63	312.78	-547.91	0.00	0.00	0.00
8,600.00	10.00	29.11	8,544.77	576.81	321.23	-562.71	0.00	0.00	0.00
8,664.36	10.00	29.11	8,608.15	586.58	326.67	-572.24	0.00	0.00	0.00
8,700.00	9.65	29.11	8,643.27	591.89	329.63	-577.43	1.00	-1.00	0.00
8,800.00	8.65 7.65	29.11 29.11	8,742.00 8,840.99	605.78 618.15	337.36 344.26	-590.97 -603.05	1.00 1.00	-1.00 -1.00	0.00 0.00
8,900.00 9.000.00			8,840.99 8,940.21						
.,	6.65	29.11		629.02	350.31	-613.65	1.00	-1.00	0.00
9,100.00 9,200.00	5.65 4.65	29.11	9,039.63 9,139.23	638.38 646.21	355.52 359.88	-622.78 -630.42	1.00 1.00	-1.00 -1.00	0.00 0.00
		29.11							
9,300.00	3.65	29.11	9,238.97	652.53	363.40	-636.58	1.00	-1.00	0.00
9,400.00	2.65	29.11	9,338.81	657.32	366.07	-641.26	1.00	-1.00	0.00
9,500.00	1.65	29.11	9,438.74	660.60	367.89	-644.45	1.00	-1.00	0.00
9,600.00	0.65	29.11	9,538.72	662.34	368.87	-646.16	1.00	-1.00	0.00
9,664.61	0.00	0.00	9,603.33	662.66	369.04	-646.47	1.00	-1.00	0.00
9,700.00	0.00	0.00	9,638.72	662.66	369.04	-646.47	0.00	0.00	0.00
9,800.00	0.00	0.00	9,738.72	662.66	369.04	-646.47	0.00	0.00	0.00
9,900.00	0.00	0.00	9,838.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,000.00	0.00	0.00	9,938.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,100.00	0.00	0.00	10,038.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,200.00	0.00	0.00	10,138.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,300.00	0.00	0.00	10,238.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,400.00	0.00	0.00	10,338.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,500.00	0.00	0.00	10,438.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,600.00	0.00	0.00	10,538.72	662.66	369.04	-646.47	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 3H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3495.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3495.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	10,638.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,800.00	0.00	0.00	10,738.72	662.66	369.04	-646.47	0.00	0.00	0.00
10,900.00	0.00	0.00	10,838.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,000.00	0.00	0.00	10,938.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,100.00	0.00	0.00	11,038.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,200.00	0.00	0.00	11,138.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,300.00	0.00	0.00	11,238.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,400.00	0.00	0.00	11,338.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,500.00	0.00	0.00	11.438.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,600.00	0.00	0.00	11,538.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,700.00	0.00	0.00	11,638.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,800.00	0.00	0.00	11,738.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,900.00	0.00	0.00	11,838.72	662.66	369.04	-646.47	0.00	0.00	0.00
11,914.61	0.00	0.00	11,853.33	662.66	369.04	-646.47	0.00	0.00	0.00
12,000.00	8.97	179.67	11,938.37	655.99	369.08	-639.81	10.50	10.50	0.00
12,100.00	19.47	179.67	12,035.17	631.47	369.22	-615.30	10.50	10.50	0.00
12,100.00	29.97	179.67	12,035.17	589.72	369.22 369.46	-573.57	10.50	10.50	0.00
12,200.00	40.47	179.67	12,125.69	532.13	369.40	-575.57	10.50	10.50	0.00
12,400.00	50.97	179.67	12,277.19	460.65	370.19	-444.59	10.50	10.50	0.00
12,500.00	61.47	179.67	12,332.72	377.65	370.67	-361.64	10.50	10.50	0.00
12,600.00	71.97	179.67	12,372.20	285.92	371.19	-269.98	10.50	10.50	0.00
12,700.00	82.47	179.67	12,394.29	188.54	371.74	-172.66	10.50	10.50	0.00
12,771.75	90.00	179.67	12,399.00	117.00	372.15	-101.16	10.50	10.50	0.00
12,800.00	90.00	179.67	12,399.00	88.75	372.31	-72.93	0.00	0.00	0.00
12,900.00	90.00	179.67	12,399.00	-11.25	372.88	27.00	0.00	0.00	0.00
13,000.00	90.00	179.67	12,399.00	-111.25	373.45	126.94	0.00	0.00	0.00
13,100.00	90.00	179.67	12,399.00	-211.25	374.02	226.87	0.00	0.00	0.00
13,200.00	90.00	179.67	12,399.00	-311.24	374.59	326.80	0.00	0.00	0.00
13,300.00	90.00	179.67	12,399.00	-411.24	375.16	426.73	0.00	0.00	0.00
13,400.00	90.00	179.67	12,399.00	-511.24	375.73	526.67	0.00	0.00	0.00
13,500.00	90.00	179.67	12,399.00	-611.24	376.30	626.60	0.00	0.00	0.00
13,600.00	90.00	179.67	12,399.00	-711.24	376.86	726.53	0.00	0.00	0.00
13,700.00	90.00	179.67	12,399.00	-811.24	377.43	826.47	0.00	0.00	0.00
13,800.00	90.00	179.67	12,399.00	-911.23	378.00	926.40	0.00	0.00	0.00
13,900.00	90.00	179.67	12,399.00	-1,011.23	378.57	1,026.33	0.00	0.00	0.00
14,000.00	90.00	179.67	12,399.00	-1,111.23	379.14	1,126.27	0.00	0.00	0.00
14,100.00	90.00	179.67	12,399.00	-1,211.23	379.71	1,226.20	0.00	0.00	0.00
14,200.00	90.00	179.67	12,399.00	-1,311.23	380.28	1,326.13	0.00	0.00	0.00
14,300.00	90.00	179.67	12,399.00	-1,411.23	380.85	1,426.06	0.00	0.00	0.00
14,400.00	90.00	179.67	12,399.00	-1,511.23	381.42	1,526.00	0.00	0.00	0.00
14,500.00	90.00	179.67	12,399.00	-1,611.22	381.99	1,625.93	0.00	0.00	0.00
14,600.00	90.00	179.67	12,399.00	-1,711.22	382.56	1,725.86	0.00	0.00	0.00
14,700.00	90.00	179.67	12,399.00	-1,811.22	383.13	1,825.80	0.00	0.00	0.00
14,800.00	90.00	179.67	12,399.00	-1,911.22	383.70	1,925.73	0.00	0.00	0.00
14,900.00	90.00	179.67	12,399.00	-2,011.22	384.27	2,025.66	0.00	0.00	0.00
15,000.00	90.00	179.67	12,399.00	-2,111.22	384.83	2,125.60	0.00	0.00	0.00
15,100.00	90.00	179.67	12,399.00	-2,211.21	385.40	2,225.53	0.00	0.00	0.00
15,200.00	90.00	179.67	12,399.00	-2,311.21	385.97	2,325.46	0.00	0.00	0.00
15,300.00	90.00	179.67	12,399.00	-2,411.21	386.54	2,425.40	0.00	0.00	0.00
15,400.00	90.00	179.67	12,399.00	-2,511.21	387.11	2,525.33	0.00	0.00	0.00
15,500.00	90.00	179.67	12,399.00	-2,611.21	387.68	2,625.26	0.00	0.00	0.00
15,600.00	90.00	179.67	12,399.00	-2,711.21	388.25	2,725.19	0.00	0.00	0.00
15,700.00 15,800.00	90.00 90.00	179.67 179.67	12,399.00 12,399.00	-2,811.20 -2,911.20	388.82 389.39	2,825.13 2,925.06	0.00 0.00	0.00 0.00	0.00 0.00
15,800.00	90.00 90.00	179.67	12,399.00	-2,911.20	389.39 389.96	2,925.06 3,024.99	0.00	0.00	0.00
10,000.00	30.00	119.01	12,000	-0,011.20	503.30	0,024.00	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 3H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3495.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3495.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	179.67	12,399.00	-3,111.20	390.53	3,124.93	0.00	0.00	0.00
16,100.00	90.00	179.67	12,399.00	-3,211.20	391.10	3,224.86	0.00	0.00	0.00
16,200.00	90.00 90.00	179.67 179.67	12,399.00 12,399.00	-3,311.20 -3,411.19	391.67 392.24	3,324.79 3,424.73	0.00 0.00	0.00 0.00	0.00 0.00
16,300.00 16,400.00	90.00	179.67	12,399.00	-3,411.19 -3,511.19	392.24 392.80	3,424.73 3,524.66	0.00	0.00	0.00
16,500.00 16,600.00	90.00 90.00	179.67 179.67	12,399.00 12,399.00	-3,611.19 -3,711.19	393.37 393.94	3,624.59 3,724.53	0.00 0.00	0.00 0.00	0.00 0.00
16,700.00	90.00	179.67	12,399.00	-3,811.19	394.51	3,824.46	0.00	0.00	0.00
16,800.00	90.00	179.67	12,399.00	-3,911.19	395.08	3,924.39	0.00	0.00	0.00
16,900.00	90.00	179.67	12,399.00	-4,011.18	395.65	4,024.32	0.00	0.00	0.00
17,000.00	90.00	179.67	12,399.00	-4,111.18	396.22	4,124.26	0.00	0.00	0.00
17,100.00	90.00	179.67	12,399.00	-4,211.18	396.79	4,224.19	0.00	0.00	0.00
17,200.00	90.00	179.67	12,399.00	-4,311.18	397.36	4,324.12	0.00	0.00	0.00
17,300.00 17,400.00	90.00 90.00	179.67 179.67	12,399.00 12,399.00	-4,411.18 -4,511.18	397.93 398.50	4,424.06 4,523.99	0.00 0.00	0.00 0.00	0.00 0.00
17,500.00 17,600.00	90.00 90.00	179.67 179.67	12,399.00 12,399.00	-4,611.17 -4,711.17	399.07 399.64	4,623.92 4,723.86	0.00 0.00	0.00 0.00	0.00 0.00
17,800.00	90.00 90.00	179.67	12,399.00	-4,711.17 -4,811.17	399.64 400.20	4,723.80 4,823.79	0.00	0.00	0.00
17,800.00	90.00	179.67	12,399.00	-4,911.17	400.77	4,923.72	0.00	0.00	0.00
17,900.00	90.00	179.67	12,399.00	-5,011.17	401.34	5,023.65	0.00	0.00	0.00
18,000.00	90.00	179.67	12,399.00	-5,111.17	401.91	5,123.59	0.00	0.00	0.00
18,100.00	90.00	179.67	12,399.00	-5,211.17	402.48	5,223.52	0.00	0.00	0.00
18,200.00	90.00	179.67	12,399.00	-5,311.16	403.05	5,323.45	0.00	0.00	0.00
18,300.00	90.00	179.67	12,399.00	-5,411.16	403.62	5,423.39	0.00	0.00	0.00
18,400.00	90.00	179.67	12,399.00	-5,511.16	404.19	5,523.32	0.00	0.00	0.00
18,500.00	90.00	179.67	12,399.00	-5,611.16	404.76	5,623.25	0.00	0.00	0.00
18,600.00 18,700.00	90.00 90.00	179.67 179.67	12,399.00 12,399.00	-5,711.16 -5,811.16	405.33 405.90	5,723.19 5,823.12	0.00 0.00	0.00 0.00	0.00 0.00
18,800.00	90.00	179.67	12,399.00	-5,911.15	406.47	5,923.05	0.00	0.00	0.00
18,900.00	90.00	179.67	12,399.00	-6,011.15	407.04	6,022.99	0.00	0.00	0.00
19,000.00	90.00	179.67	12,399.00	-6,111.15	407.61	6,122.92	0.00	0.00	0.00
19,100.00	90.00	179.67	12,399.00	-6,211.15	408.17	6,222.85	0.00	0.00	0.00
19,200.00	90.00	179.67	12,399.00	-6,311.15	408.74	6,322.78	0.00	0.00	0.00
19,300.00	90.00 90.00	179.67 179.67	12,399.00	-6,411.15 -6,511.14	409.31 409.88	6,422.72 6,522.65	0.00 0.00	0.00 0.00	0.00 0.00
19,400.00			12,399.00						
19,500.00	90.00	179.67	12,399.00	-6,611.14	410.45	6,622.58	0.00	0.00	0.00
19,600.00 19,700.00	90.00 90.00	179.67 179.67	12,399.00 12,399.00	-6,711.14 -6,811.14	411.02 411.59	6,722.52 6,822.45	0.00 0.00	0.00 0.00	0.00 0.00
19,700.00	90.00	179.67	12,399.00	-6,911.14	411.39	6,922.38	0.00	0.00	0.00
19,900.00	90.00	179.67	12,399.00	-7,011.14	412.73	7,022.32	0.00	0.00	0.00
20,000.00	90.00	179.67	12,399.00	-7,111.13	413.30	7,122.25	0.00	0.00	0.00
20,100.00	90.00	179.67	12,399.00	-7,211.13	413.87	7,222.18	0.00	0.00	0.00
20,200.00	90.00	179.67	12,399.00	-7,311.13	414.44	7,322.12	0.00	0.00	0.00
20,300.00	90.00	179.67	12,399.00	-7,411.13	415.01	7,422.05	0.00	0.00	0.00
20,400.00	90.00	179.67	12,399.00	-7,511.13	415.58	7,521.98	0.00	0.00	0.00
20,500.00 20,600.00	90.00 90.00	179.67	12,399.00 12,399.00	-7,611.13 -7,711.12	416.14 416.71	7,621.91 7,721.85	0.00 0.00	0.00 0.00	0.00 0.00
20,600.00	90.00 90.00	179.67 179.67	12,399.00	-7,711.12 -7,811.12	416.71 417.28	7,721.85	0.00	0.00	0.00
20,800.00	90.00	179.67	12,399.00	-7,911.12	417.85	7,921.71	0.00	0.00	0.00
20,900.00	90.00	179.67	12,399.00	-8,011.12	418.42	8,021.65	0.00	0.00	0.00
21,000.00	90.00	179.67	12,399.00	-8,111.12	418.99	8,121.58	0.00	0.00	0.00
21,100.00	90.00	179.67	12,399.00	-8,211.12	419.56	8,221.51	0.00	0.00	0.00
21,200.00	90.00	179.67	12,399.00	-8,311.12	420.13	8,321.45	0.00	0.00	0.00
21,300.00 21,400.00	90.00 90.00	179.67 179.67	12,399.00 12,399.00	-8,411.11 -8,511.11	420.70 421.27	8,421.38 8,521.31	0.00 0.00	0.00 0.00	0.00 0.00
21,400.00	90.00	1/9.0/	12,399.00	-0,011.11	421.2/	0,021.01	0.00	0.00	0.00

Database:	HOPSPP	Local Co-ordinate Reference:	Well Chuck Smith MDP1 8_17 Fed Com 3H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3495.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3495.00ft
Site:	Chuck Smith MDP1 8_17	North Reference:	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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 21,600.00 21,700.00 21,800.00 21,900.00 22,000.00 22,100.00 22,200.00 22,300.00 22,400.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	179.67 179.67 179.67 179.67 179.67 179.67 179.67 179.67 179.67 179.67	12,399.00 12,399.00 12,399.00 12,399.00 12,399.00 12,399.00 12,399.00 12,399.00 12,399.00 12,399.00	-8,611.11 -8,711.11 -8,811.11 -9,011.10 -9,111.10 -9,211.10 -9,211.10 -9,311.10 -9,411.10 -9,511.10	421.84 422.41 422.98 423.55 424.11 424.68 425.25 425.82 426.39 426.96	8,621.25 8,721.18 8,821.11 8,921.04 9,020.98 9,120.91 9,220.84 9,320.78 9,420.71 9,520.64	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 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
22,500.00 22,600.00 22,700.00 22,800.00 22,900.00 23,000.00 23,070.18	90.00 90.00 90.00 90.00 90.00 90.00 90.00	179.67 179.67 179.67 179.67 179.67 179.67 179.67	12,399.00 12,399.00 12,399.00 12,399.00 12,399.00 12,399.00 12,399.00	-9,611.09 -9,711.09 -9,811.09 -9,911.09 -10,011.09 -10,111.09 -10,181.27	427.53 428.10 428.67 429.24 429.81 430.38 430.78	9,620.58 9,720.51 9,820.44 9,920.37 10,020.31 10,120.24 10,190.38	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 0.00 0.00 0.00 0.00 0.00

Desi	ian	Tar	aets	
	·		3	

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 target o - Point	0.00 center by 75	0.00 8.49ft at 0.0	0.00 Oft MD (0.0	662.66 0 TVD, 0.00 N	369.04 N, 0.00 E)	451,434.37	706,608.15	32.239938	-103.798789
FTP (Chuck Smith - plan misses target o - Point	0.00 center by 19		12,399.00 28.67ft MD	262.64 (12380.35 TV	369.33 ⁄D, 258.44 N,	451,034.37 371.34 E)	706,608.44	32.238839	-103.798794
PBHL (Chuck Smith - plan hits target cent - Point	0.00 ter	0.01	12,399.00	-10,181.27	430.78	440,591.11	706,669.88	32.210132	-103.798763

#### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
600.00	600.00	RUSTLER			
948.00	948.00	SALADO			
2,743.00	2,743.00	CASTILE			
4,258.00	4,258.00	DELAWARE			
4,283.00	4,283.00	BELL CANYON			
5,221.97	5,218.00	CHERRY CANYON			
6,439.39	6,417.00	BRUSHY CANYON			
8,184.92	8,136.00	BONE SPRING			
9,229.86	9,169.00	BONE SPRING 1ST			
9,867.28	9,806.00	BONE SPRING 2ND			
11,109.28	11,048.00	BONE SPRING 3RD			
11,562.28	11,501.00	WOLFCAMP			
11,738.28	11,677.00	WOLFCAMP A			

Database: Company: Project: Site: Well: Wellbore: Design:	HOPSPP ENGINEERING DESIGNS PRD NM DIRECTIONAL PLANS (NAD 1983) Chuck Smith MDP1 8_17 Chuck Smith MDP1 8_17 Fed Com 3H Wellbore #1 Permitting Plan			3) TVD Refe MD Refe North Refe		Well Chuck Smith MDP1 8_17 Fed Com 3H RKB=25' @ 3495.00ft RKB=25' @ 3495.00ft Grid Minimum Curvature
Plan Annotatio	ns Measured Depth (ft)	Vertical Depth (ft)	Local Coord +N/-S (ft)	linates +E/-W (ft)	Comment	
	4,300.00 5,300.25 8,664.36 9,664.61 11,914.61 12,771.75 23,070.18	4,300.00 5,295.18 8,608.15 9,603.33 11,853.33 12,399.00 12,399.00	0.00 76.09 586.58 662.66 662.66 117.00 -10,181.27	0.00 42.37 326.67 369.04 369.04 372.15 430.78	Build 1°/100' Hold 10° Tangent Drop 1°/100' Hold Vertical KOP, Build 10.5°/100' Landing Point TD at 23070.18' MD	

# **Oxy USA Inc. - Blanket Design Pad Document**

**OXY** - Blanket Design A

Pad Name: SNDDNS\_24S31E\_0802

SHL: 361' FNL 2535' FWL, Sec 08,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 #	Sur	face	Interm	nediate	Production	
weir Name	API#	MD	TVD	MD	TVD	MD	TVD
CHUCK SMITH MDP1 8_17 FED COM 1H	30-015-54261	921	921	11953	11850	23103	12400
CHUCK SMITH MDP1 8_17 FED COM 2H	30-015-54049	913	913	11916	11860	23206	12550
CHUCK SMITH MDP1 8_17 FED COM 3H	30-015-54096	888	888	11921	11860	23070	12399

#### 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).	I
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	v
the collapse pressure rating of the casing?	Y
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 <sup>rd</sup> string cement tied back	Y
500' into previous casing?	r
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> 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 three strings cemented to surface?	

### 3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>	
Rustler	620	620		
Salado	981	981	Salt	
Castile	2782	2782	Salt	
Delaware	4229	4229	Oil/Gas/Brine	
Bell Canyon	4251	4251	Oil/Gas/Brine	
Cherry Canyon	5223	5219	Oil/Gas/Brine	
Brushy Canyon	6445	6419	Losses	
Bone Spring	8171	8113	Oil/Gas	
Bone Spring 1st	9223	9146	Oil/Gas	
Bone Spring 2nd	9880	9791	Oil/Gas	
Bone Spring 3rd	11141	11038	Oil/Gas	
Wolfcamp	11593	11490	Oil/Gas	
Penn			Oil/Gas	
Strawn			Oil/Gas	

### 4. Cementing Program (SOPA Only)

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	770	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	706	1.68	13.2	5%	6,695	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1032	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	658	1.84	13.3	25%	11,453	Circulate	Class C+Ret.

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# Oxy USA Inc. - CHUCK SMITH MDP1 8\_17 FED COM 3H Drill Plan

# **1. Geologic Formations**

TVD of Target (ft):	12399	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	23070	Deepest Expected Fresh Water (ft):	600

# **Delaware Basin**

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>	
Rustler	600	600		
Salado	948	948	Salt	
Castile	2743	2743	Salt	
Delaware	4258	4258	Oil/Gas/Brine	
Bell Canyon	4283	4283	Oil/Gas/Brine	
Cherry Canyon	5222	5218	Oil/Gas/Brine	
Brushy Canyon	6439	6417	Losses	
Bone Spring	8185	8136	Oil/Gas	
Bone Spring 1st	9230	9169	Oil/Gas	
Bone Spring 2nd	9867	9806	Oil/Gas	
Bone Spring 3rd	11109	11048	Oil/Gas	
Wolfcamp	11562	11501	Oil/Gas	
Penn			Oil/Gas	
Strawn			Oil/Gas	

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

# 2. Casing Program

		MD		TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	888	0	888	10.75	45.5	J-55	BTC
Intermediate	9.875	0	11921	0	11860	7.625	29.7	L-80 HC	BTC
Production	6.75	0	23070	0	12399	5.5	23	P-110	Sprint-SF

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

Occidental - Permi	an New Mexico
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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?	Ĭ
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 <sup>rd</sup> string cement tied back	Y
500' into previous casing?	1
Is well located in R-111-P and SOPA?	Ν
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> 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 three strings cemented to surface?	

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# 3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (Ib/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	743	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	702	1.68	13.2	5%	6,689	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1032	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	658	1.84	13.3	25%	11,421	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.

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# **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	$\checkmark$		
9.875" Hole	13-5/8"	5M	Pipe Ram			250 psi / 5000 psi	11860
			Double Ram		✓	200 psi / 0000 psi	
			Other*				
		5M	Annular		✓	100% of working pressure	
			Blind Ram		$\checkmark$		
6.75" Hole	13-5/8"	10M		Pipe Ram		250 psi / 10000 psi	12399
				Double Ram		200 p317 10000 p31	
			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.

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

0								
Section	Section Depth - MD Depth - TVD		TVD	Tuno	Weight	Viscosity	Water	
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	viscosity	Loss
Surface	0	888	0	888	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	888	11921	888	11860	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11921	23070	11860	12399	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	D/T/MD Totoo ///igual Manitaring
loss or gain of fluid?	PVT/MD Totco/Visual Monitoring

# 6. Logging and Testing Procedures

<u> </u>										
Log	Logging, 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									

# No Coring? If yes, explain

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

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# 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.

	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 3 well pad in batch by section: all surface sections, intermediate	Yes					
sections and production sections. The wellhead will be secured with a night cap whenever						
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: 1727 bbls						

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Received by OCD: 11/18/2024 10:56:24 AM

<u>C-102</u>

Submit Electronically

Via OCD Permitting

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

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Submittal Amended Report

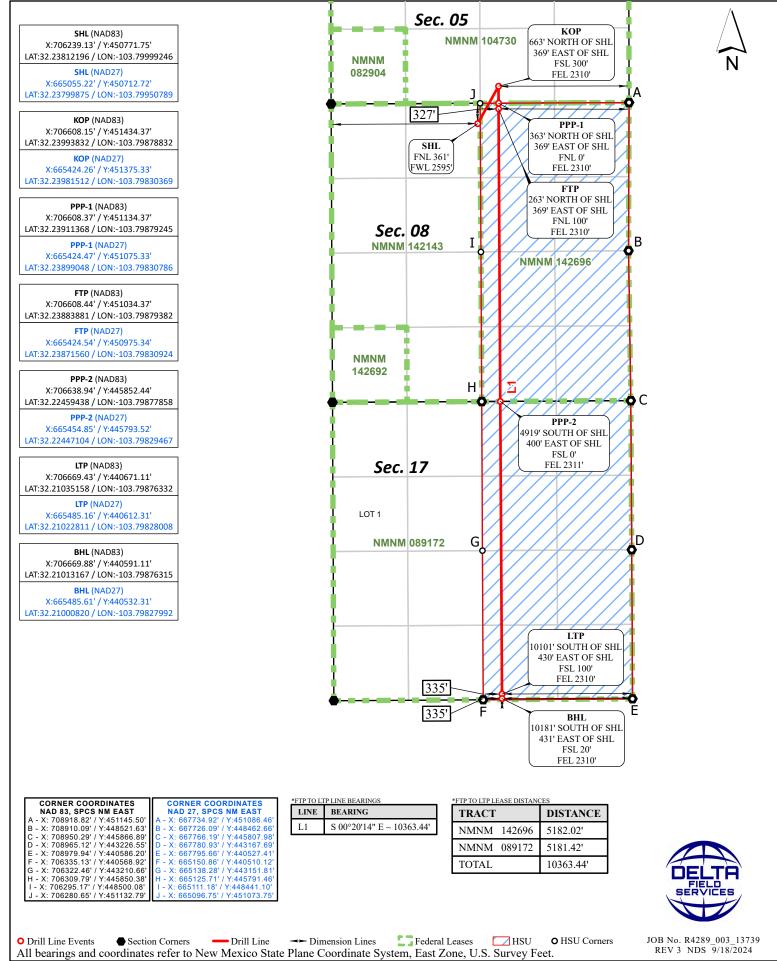
As Drilled

					WELL LOCATIO	N INFORMATION								
API Nu			Pool Code	•		Pool Name								
	015-54	1096	9822	0		PURPLE SAGE;WOLFCAMP								
Propert			Property Na	ame		Well Number								
334					CHUCK SMITH MI	DP1 8_17 FED COM		3Н						
OGRID			Operator Na	ame					Ground Level Elevation					
	16690	5			OXY U	SA INC.			347	0'				
Surfac	e Owner: [	State	Fee 🗌 Tr	ibal 🖌	Federal	Mineral Owner:	State	Fee	Tribal 🖌 Federa	1				
					Surface	Location								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	(NAD83)	NAD83) Longitude (NAD83) Cou					
С	08	24S	31E		361' FNL	2595' FWL	32.23	812196	-103.79999246	EDDY				
	1													
III	Continu	Tarratio	Danas	1.1.4	Bottom Ho Ft. from N/S	le Location Ft. from E/W	Tellerle	(NAD83)	Longitude (NAD83)	Gausta				
UL	Section	Township	Range	Lot					<b>U</b>	County				
0	17	24S	31E		20' FSL	2310' FEL	32.21	013167	-103.79876315	EDDY				
				-										
	ed Acres	Infill or Defin			g Well API	Overlapping Spacing Unit (	(Y/N)		Consolidation Code					
6	40.00	INFILL	-	24H	- 30-015-54047	N								
Order	Numbers:					Well setbacks are under	Common	Ownership	: Yes N	0				
					Kick Off P	oint (KOP)								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	(NAD83)	Longitude (NAD83)	County				
0	05	24S	31E		300' FSL	2310' FEL	32.23	993832	-103.79878832	EDDY				
	1		1		First Taka	Point (FTP)								
UL	Section	Township	Range	Lot	First Take	Ft. from E/W	Latitude	(NAD83)	Longitude (NAD83)	County				
В	08	24S	31E		100' FNL	2310' FEL	32.23	883881	-103.79879382	EDDY				
										l]				
UL	Section	Township	Range	Lot	Last Take	Point (LTP) Ft. from E/W	County							
0	17	24S	31E	Lot	100' FSL	2310' FEL		(NAD83) 035158	Longitude (NAD83) -103.79876332	EDDY				
	17	245	JIL		100 13L	2310 FEL	52.21	055158	-103.79870332	EDDT				
The Marco	1 4	- <b>E</b> I I.: <b>E</b> I.: <b>E</b>							Planetic a	]				
Unitized	d Area or Area	of Uniform Inter	est	Spacin	g Unit Type: X Horizo	contal Vertical Ground Floor Elevation								
				1					3470'					
						r								
OPER	RATOR CE	RTIFICATIO	NS			SURVEYOR CERTI	FICATIO	ONS						
				is true and	complete to the best of my	I hereby certify that the well location shown on this plat was plotted from field notes of								
knowled	dge and belief,	and, if the well i	s a vertical or	directional	well, that this organization	actual surveys made by me or under my supervision, and that the same is true and correct to								
propose	ed bottom hole	location or has a	a right to drill	this well at	e land including the this location pursuant to a	the best of my belief.								
					il interest, or to a voluntary tered by the division.									
l'			0			OND P. SHOP								
					ation has received the Inleased mineral interest in	MET /								
					the well's completed from the division.									
				_	, em me arrision.			(2165)	3)					
$ \frac{Me}{\pi}$	elissa	Guíd	<b>/y</b> 09/2	5/24		Land R. Short S								
Signa	iture		Date				151		154/					
Meli	ssa Guid	ry				530NAL SUR								
	ed Name	-												
i	eea auid	ry@oxy.co	m			Signature and Seal of Professional Surveyor								
	SSa_yulu l Address	iy œ∪∧y.c0	111			Certificate Number		Date of S	•					
						21653 SEPTEMBER 18, 2024								

Released to Imaging AB8/AP25-25518: TAMompletion until all interests have been consolidated or a non-standard unit has been approved by the division.

### Received by OCD: 11/18/2024 10:56:24 AM

# ACREAGE DEDICATION PLATS CHUCK SMITH MDP1 8\_17 FED COM 3H



Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99977581 and a Convergence Angle: 0.27195833° Released to Imaging: 1/28/2025 9:50:32 AM

#### OXY APD CHANGE SUNDRY LIST FORM

DATE SUNDRY WORKSHEET CREATED	9/25/2024
WELL NAME_NUMBER	Chuck Smith MDP1 8-17 Federal Com #003H
API NUMBER	30-015-54096
ESTIMATED SPUD DATE	11/1/2024

	ITEM	APD BASE LINE (For Regulatory to Complete)									SUNDRY PLAN (Groups to complete the latest plan)								
		Date APD/BASE LINE	e APD/BASE LINE APPROVED:08/21/2023								DATE Sundry Worksheet : 9/25/2024								
	NAME	Chuck Smith MDP1 8-17 Federal Com #003H								Chuck Smith MDP1 8-17 Federal Com #003H									
	NSL	YES	ES									NO							
.Ĕ	SHL	361' FNL 2595' FWL C-8-24S-31E											361	' FNL 2595' FWL 0	C-8-24S-31E				
an	PAD	SND_DNS_T24SR31E_	0802										9	SND_DNS_T24SR3	1E_0802				
E	BHL	20' FSL 2585'FEL O-17	-24S-31E										20	' FSL 2310'FEL O-1	L7-24S-31E				
ace la	HSU SIZE, ACRES	640 EAST/2												640 EAST/2	2				
, E	POOL	PURPLE SAGE; WOLFC	AMP										1	PURPLE SAGE; WO	LFCAMP				
, v,	TVD	12291' TVD												12400' TVI					
	TARGET FORMATION	WOLFCAMP												WOLFCAM	Р				
				APD	BASE LINE									SUNDRY PL/	AN				
	RAI	Section	Hole Size (in.)	MD	TVD		Csg WT			Conn.	Section	Hole Size (in.)	MD	TVD		Csg WT (ppf)			onn.
	00	Surface	17.5	899'	899'	13.375	54.5	J-55		BTC	Surface	14.75	888	888	10.75	45.5	J-55		BTC
	a a	Int	12.25	11499'	11446'	9.625	40	HCL-80		BTC	Int	9.875	11921	11860	7.625	29.7	L-80HC	F	BTC
	S	Int2									Int2								
	S	Prod	8.75 X 8.5	22844'	12291'	7 X 5.5	32/20	P-110		DQX/WDG 461	Prod	6.75	23070	12399	5.5	23	P-110	Spr	rint-SF
	Ů	Liner									Liner								
			1		BASE LINE		-			-	SUNDRY PLAN								
	ξ		Slurry		Yield (ft^3,					nt Description	Section/Stage	Slurry	Sacks		Density (lb/gal)	Excess			
	22	Surf	SURF TAIL	939	1.33	1.48	100%	0	CIRC		Surf	SURF TAIL	743	1.33	14.8	100%	0	CIRC	CLC_ACC
80	ğ	Int/1	INT TAIL	963	1.65	13.2	5%	6667'	CIRC	CL H_A,D, S	Int	INT TAIL	702	1.68	13.2	5%	6689	CIRC	CLC_RET, D
- <u>-</u>	Ē	Int/2	TAIL BH	1511	1.71	13.3	25%	0	BH	CL C_ACC	Int	TAIL BH	1032	1.71	13.3	25%	0	BH	CLC_ACC
Ğ	z z	Int2									Int2								4
	S S S S S S S S S S S S S S S S S S S	Int2									Int2								
	0	Prod	TAIL	2602	1.38	13.2	25%	10999'	CIRC	CL H_RET,D, S	Prod	TAIL	658	1.84	13.3	25%	11421	CIRC	CLC_RET
		BOP Break Tesing Var		APD	BASE LINE						SUNDRY PLAN								
	in the second seco	5M Annular BOP Vari			-						BOP Break Tesing Variance X								
	8	Bradenhead CBL Vari			-						Bradenhead CBL Variance	5M Annular BOP Variance X							
	N N N N N N N N N N N N N N N N N N N	Offline Cementing Va		x	-						Offline Cementing Variance		X	-					
	AR	Production Annular C		<u> </u>	1						Production Annular Clearance	Madanas	^	-					
	,	Flexible Choke Line V		x							Flexible Choke Line Variance	e variance		-					
	(Pilot Hole, Logs etc.)			-	-						(Pilot Hole, Logs etc.)			-					
		(Fliot Hole, Logs etc.)		1							(Fliot Hole, Logs etc.)								

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

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	404283
	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.	1/28/2025
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

CONDITIONS

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Action 404283