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

Sundry Print Report

12/31/2024

Well Name: CHUCK SMITH MDP1 8-17 FEDERAL COM

Well Location: T24S / R31E / SEC 8 / NENW / 32.2381227 / -103.8001865

County or Parish/State: EDDY / NM

Well Number: 1H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM142143

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001554261

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2813785

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/25/2024

Time Sundry Submitted: 09:24

Date proposed operation will begin: 11/01/2024

Procedure Description: OXY USA Inc., respectfully requests approval to amend the subject well AAPD to change the SHL, 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

CHUCKSMITHMDP1817FEDCOM1H_VAM_SPRINT_SF_5.5in_23ppf_P110RY_20240925092101.pdf

CHUCKSMITHMDP1817FEDCOM1H_FlexHoseCert_20240925091753.pdf

CHUCKSMITHMDP1817FEDCOM1H_BradenheadCBLVariance_20240925091746.pdf

CHUCKSMITHMDP1817FEDCOM1H_5MAnnBOPVariance_20240925091736.pdf

CHUCKSMITHMDP18_17FEDCOM1H_DirectPlan_20240925091722.pdf

OXY_Blanket_Design_A_Pad_Cover_Sheet_SNDDNS_T24SR31E_0802_20240925091713.pdf

CHUCKSMITHMDP18_17FEDCOM1H_DrillPlan_20240925091701.pdf

CHUCKSMITHMDP18_17FEDCOM1H_C102_20240925091651.pdf

CHUCKSMITHMDP1817FEDCOM1H_APDCHGSUNDRYWORKSHEET_20240925091636.pdf

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Operator: OXY USA INCORPORATED

Conditions of Approval

Additional

CHUCK_SMITH_MDP1_8_17_FEDERAL_COM_1H___SUNDRY_COA_20241118101730.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

Signed on: SEP 25, 2024 09:22 AM

Name: OXY USA INCORPORATED

Title: Advisor Regulatory Sr.

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON **State:** TX

Phone: (713) 497-2481

Email address: MELISSA_GUIDRY@OXY.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 12/30/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM142143

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
CHUCK SMITH MDP1 8-17 FEDERAL COM/1H

2. Name of Operator OXY USA INCORPORATED

9. API Well No. 3001554261

3a. Address P.O. BOX 1002, TUPMAN, CA 93276-1002

3b. Phone No. *(include area code)* (661) 763-6046

10. Field and Pool or Exploratory Area
PURPLE SAGE/(WOLFCAMP) GAS

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SEC 8/T24S/R31E/NMP

11. Country or Parish, State
EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

OXY USA Inc., respectfully requests approval to amend the subject well AAPD to change the SHL, 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"

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
MELISSA GUIDRY / Ph: (713) 497-2481

Title Advisor Regulatory Sr.

Signature (Electronic Submission)

Date 09/25/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 12/30/2024

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)

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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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 / 2535 FWL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.2381227 / LONG: -103.8001865 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 1740 FWL / TWSP: 24S / RANGE: 31E / SECTION: 8 / LAT: 32.2388392 / LONG: -103.8027575 (TVD: 12232 feet, MD: 12627 feet)

PPP: NENW / 3 FNL / 1740 FWL / TWSP: 24S / RANGE: 31E / SECTION: 17 / LAT: 32.224589 / LONG: -103.802763 (TVD: 12263 feet, MD: 17565 feet)

BHL: SESW / 20 FSL / 1740 FWL / TWSP: 24S / RANGE: 31E / SECTION: 17 / LAT: 32.2101275 / LONG: -103.8027713 (TVD: 12296 feet, MD: 22827 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	CHUCK SMITH MDP1 8-17 FEDERAL COM 1H
LOCATION:	Section 8, T.24 S., R.31 E.
COUNTY:	Eddy County, New Mexico

COA

H2S	(•) Yes	( ) No	
Potash	( ) None	(•) Secretary	( ) R-111-P
Cave/Karst Potential	(•) Low	( ) Medium	( ) High
Cave/Karst Potential	( ) Critical		
Variance	( ) None	(•) Flex Hose	( ) Other
Wellhead	( ) Conventional	(•) Multibowl	( ) Both
Wellhead Variance	( ) Diverter		
Other	[ ] 4 String	[ ] Capitan Reef	[ ] WIPP
Other	[ ] Fluid Filled	[ ] Pilot Hole	[ ] Open Annulus
Cementing	[ ] Contingency Cement Squeeze	[ ] EchoMeter	[x] Primary Cement Squeeze
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[x] Break Testing	[x] Offline Cementing	[ ] Casing 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 **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **7-5/8** inch intermediate casing shall be set at approximately **11,860** 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 Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

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

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

3. The **5-1/2** inch production casing shall be set at approximately **23,070** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

   Option 1 (Single Stage):

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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

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

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

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

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

Contact Lea County Petroleum Engineering Inspection Staff:

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

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

A. **CASING**

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: 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 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

B. **PRESSURE CONTROL**

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

iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. **DRILLING MUD**

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

D. **WASTE MATERIAL AND FLUIDS**

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

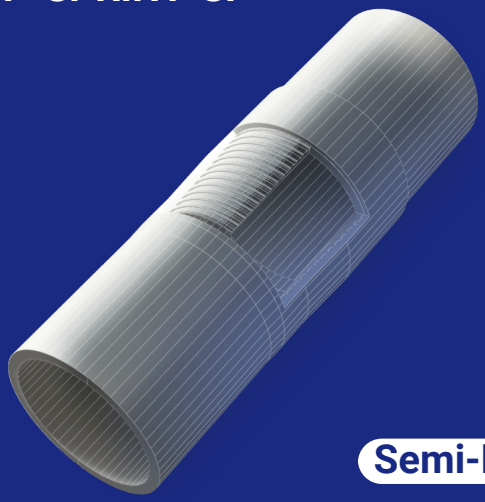
KPI 11/18/2024

Generated on April 25, 2024

CONNECTION DATA SHEET

OD: **5.500 in.** Grade: **P110 RY**
Weight: **23.00 lb/ft** Drift: **4.545 in. (API)**
Wall Th.: **0.415 in.**

VAM® SPRINT-SF



Semi-Flush

Field Torque Values

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	Controlled Yield	
Minimum Yield Strength	110	*ksi*
Maximum Yield Strength	125	*ksi*
Minimum Ultimate Tensile Strength	140	*ksi*
Pipe Body Yield Strength	729	*klb*
Internal Yield Pressure	14,530	*psi*
Collapse Pressure	14,540	*psi*

CONNECTION PROPERTIES

Connection Type	Semi-Premium Integral Semi-Flu	
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

Certificate of Conformity

ContiTech

Certificate Number	COM Order Reference	Customer Name & Address
H100161	1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No:	740382384	
Project:		

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 Date: 06/27/22	

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

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

Hydrostatic Test Certificate

ContiTech

Certificate Number	COM Order Reference	Customer Name & Address
H100161	1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No:	740382384	
Project:		

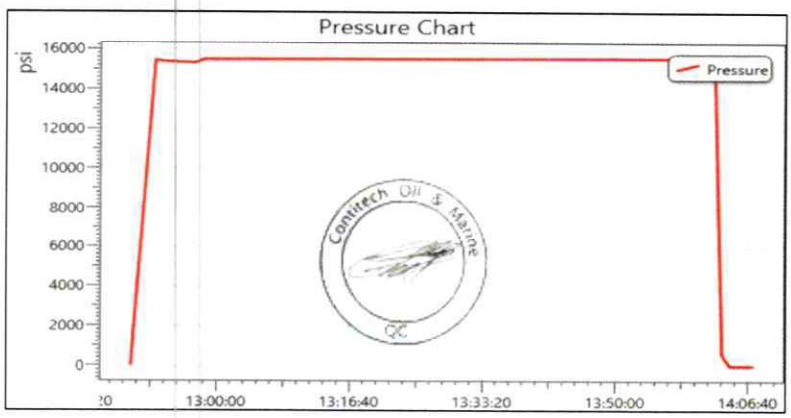
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo Date: 06/27/22	

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

Item	Part No.	Description	Qnty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	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



THIS WAS DEC 23/22
IN USE AS.

@ Rig
2021
2019
CHOKE
HOSE

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

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
CUSTOMERS P.O.#:	4128128 (RIG 1 PO 002773)
CUSTOMER P/N:	10KFR3.012.0CK411610KFIXXFLT SSA SC LE
PART DESCRIPTION:	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS
SALES ORDER #:	516982
QUANTITY:	1
SERIAL #:	H2-112019-4

SIGNATURE: Norma Cabrera

TITLE: QUALITY ASSURANCE

DATE: 11/20/2019

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

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	11/20/2019
Customer Ref.:	4128128 (RIG 1 PO 002773)	Hose Serial No.:	H2-112019-4
Invoice No.:	516982	Created By:	Norma Cabrera

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

End Fitting 1:	4 1/16 10K FLANGES FIXED	End Fitting 2:	4 1/16 10K FLANGES FLOAT
Oracle Star No.:	68903010-9879429	Assembly Code:	L41242 113018
CUSTOMER P/N:	10KFR3.012.0CK411610KFIXXFLT SSA SC LE	Test Pressure:	15,000 PSI.
		Working Pressure:	10,000 PSI.

Gates Engineering & Services North America certifies that:

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

Quality:	QUALITY	Production:	PRODUCTION
Date :	11/20/2019	Date :	11/20/2019
Signature :	Norma Cabrera	Signature :	

F-PRD-005

Revision 1_022819

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TEST REPORT

CUSTOMER

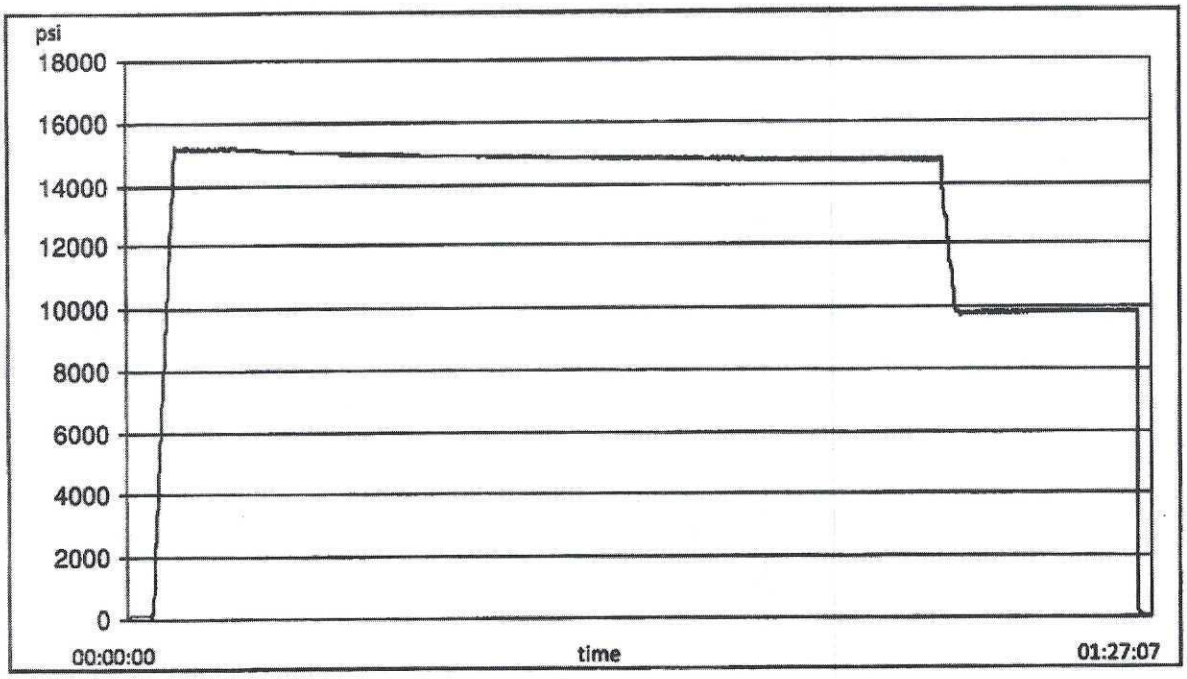
Company:	Austin Hose
Production description:	
Sales order #:	516982
Customer reference:	

TEST INFORMATION

Test procedure:	GTS-04-053	
Test pressure:	15000.00	psi
Test pressure hold:	3600.00	sec
Work pressure:	9750.00	psi
Work pressure hold:	900.00	sec
Length difference:	0.00	%
Length difference:	0.24	inch
Visual check:		
Pressure test result:	PASS	
Length measurement result:		
Test operator:	Roderick Shambra	

TEST OBJECT

Serial number:	H2-112019-4
Lot number:	L41242113018
Description:	
Hose ID:	3.0 10k MS C&K
Part number:	
Fitting 1:	3.0 x 4-1/16 10K
Part number:	
Description:	
Fitting 2:	3.0 x 4-1/16 10K
Part number:	
Description:	
Length:	12 feet



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TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCL0	2019-03-17	2020-03-15
S-25-A-W	110AP02K	2019-04-16	2020-04-14

Comment

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

Certificate of Conformance

COPY

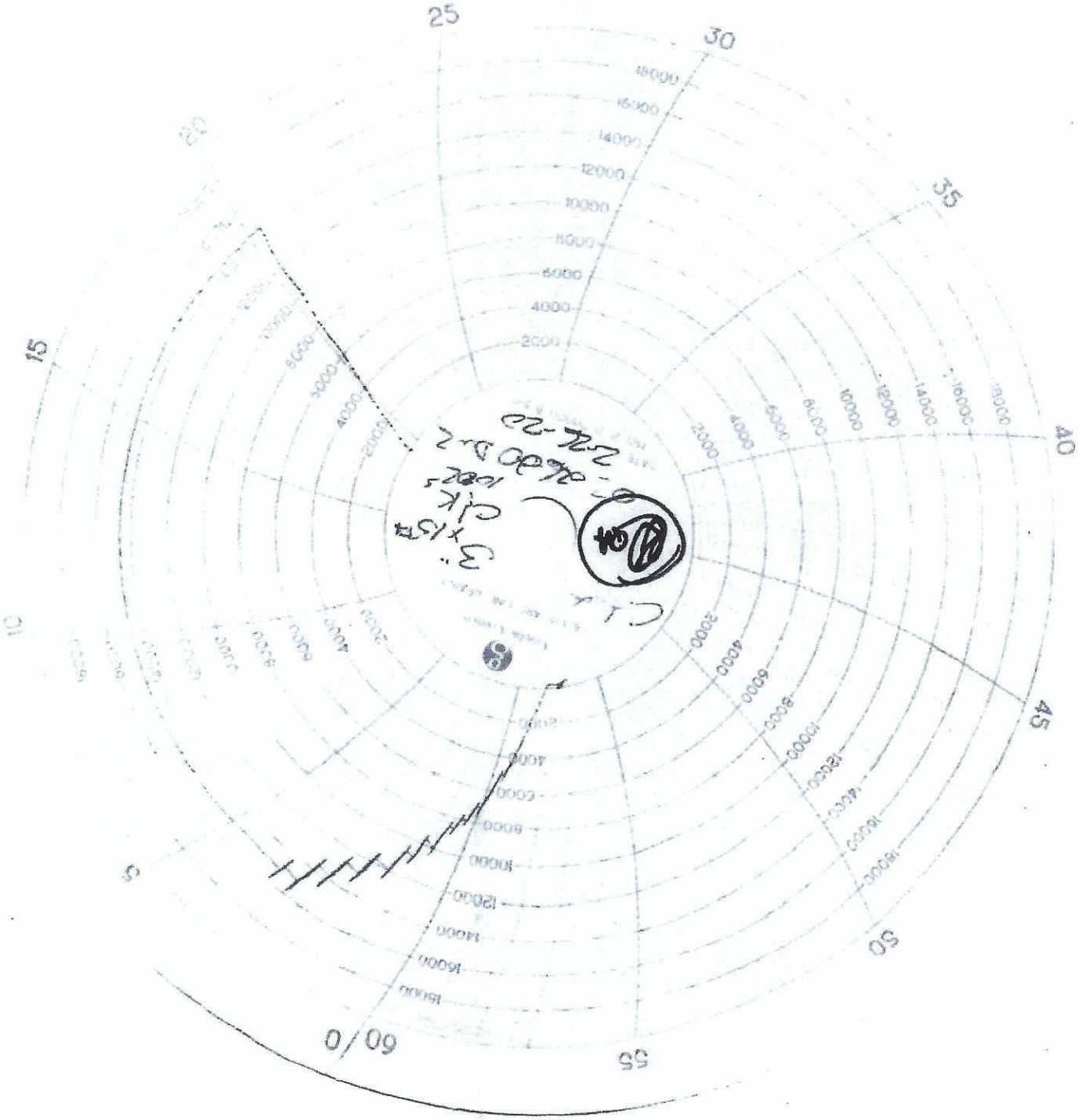
DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

Customer Name:	CITADEL DRILLING		**Customer Contact:**	PAUL HOFFMAN 432-241-5360	
Purchase Order Information	**Customer Purchase Order Number:**	CONTACT PAUL HOFFMAN FOR INFO		**DW Industries Work Order Number:**	20020163
	DW Industries Part Number:	OA-5640-4815-1002-4		**Serial Number:**	022620DW-2
	QTY Ordered:	1		**Assembly Date:**	02/26/2020
	Customer Part Number:	OA-5640-4815-1002-4	**Part Description:**	3" 10,000 psi WP CHOKE HOSE M X F 4" 1002 HAMMER UNIONS C/W CLAMPS	

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: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 2/27/2020

Garrett Crawford, Director of Quality
DW Industries Inc.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Certificate of Conformance

COPY

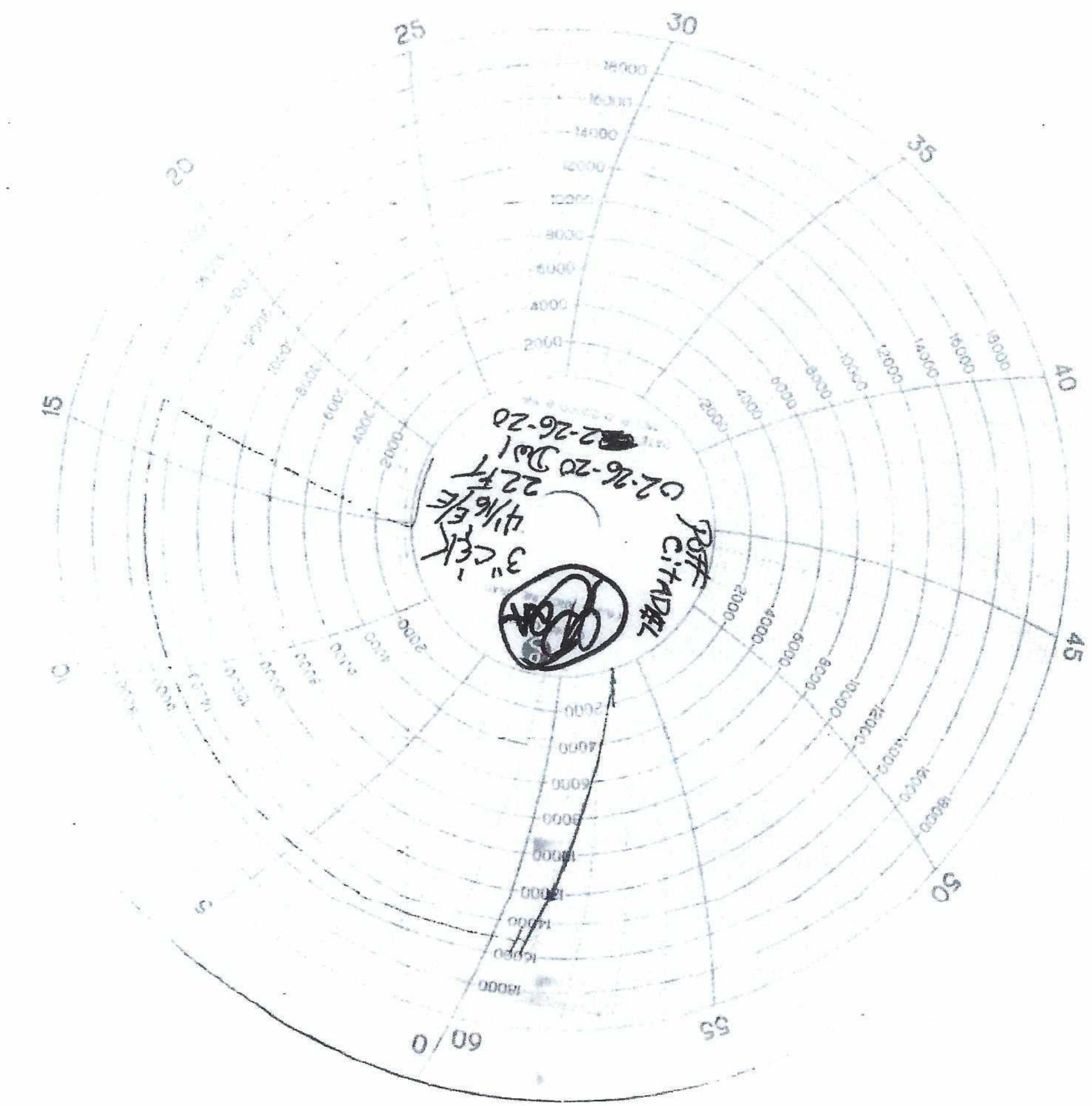
DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

Customer Name:	CITADEL DRILLING		**Customer Contact:**	PAUL HOFFMAN 432-241-5360	
Purchase Order Information	**Customer Purchase Order Number:**	CONTACT PAUL HOFFMAN FOR INFO		**DW Industries Work Order Number:**	20020164
	DW Industries Part Number:	OA-5640-4822-4-1/16FXFL-ALE		**Serial Number:**	022620DW-1
	QTY Ordered:	1		**Assembly Date:**	02/26/2020
	Customer Part Number:	OA-5640-4822-4-1/16FXFL-ALE	**Part Description:**	3" 10,000 psi WP CHOKE HOSE 4-1/16" FIXED BY FLOAT FLANGES C/W SS ARMOR & LIFTING EYES	

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: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 2/27/2020

Garrett Crawford, Director of Quality
DW Industries Inc.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18000

COPY

Certificate of Conformance

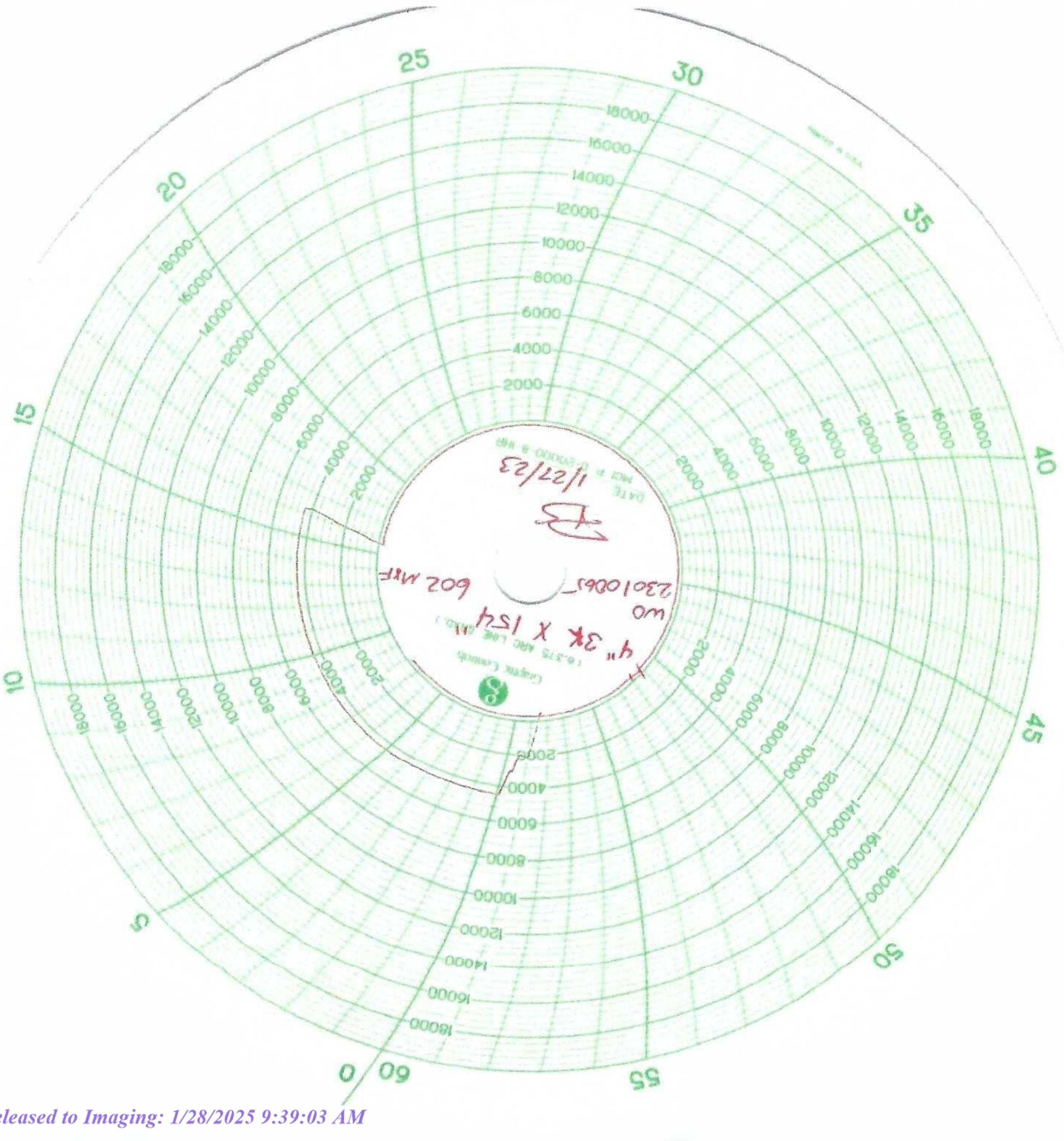
DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

Customer Name:	ASUTIN HOSE		**Customer Contact:**	JUDY LOERA	
Purchase Order Information	**Customer Purchase Order Number:**	00704977		**DW Industries Work Order Number:**	23010065
	DW Industries Part Number:	OA-PS5038-64154"-602		**Serial Number:**	23010065
	QTY Ordered:	1		**Assembly Date:**	1/27/2023
	Customer Part Number:		**Part Description:**	4"X154" 3K W/4" FIG 602 MXF	

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: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 1/27/2023

Quality Assurance,
DW Industries, Inc.



IN SERVICE
12-20-21

BLACK GOLD®

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/oilandgas

PRESSURE TEST CERTIFICATE

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 ASSEMBLY SUITED FOR H2S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

End Fitting 1:	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.

Gates Engineering & Services North America certifies that:

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

Quality:	QUALITY	Production:	PRODUCTION
Date :	10/15/2021	Date :	10/15/2021
Signature :	Micky Mhina	Signature :	

F-PRD-005B

Revision 6_05032021

BLACK GOLD®

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

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

This is to 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: *[signature]*

TITLE: QUALITY ASSURANCE

DATE: 10/15/2021

H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

CUSTOMER

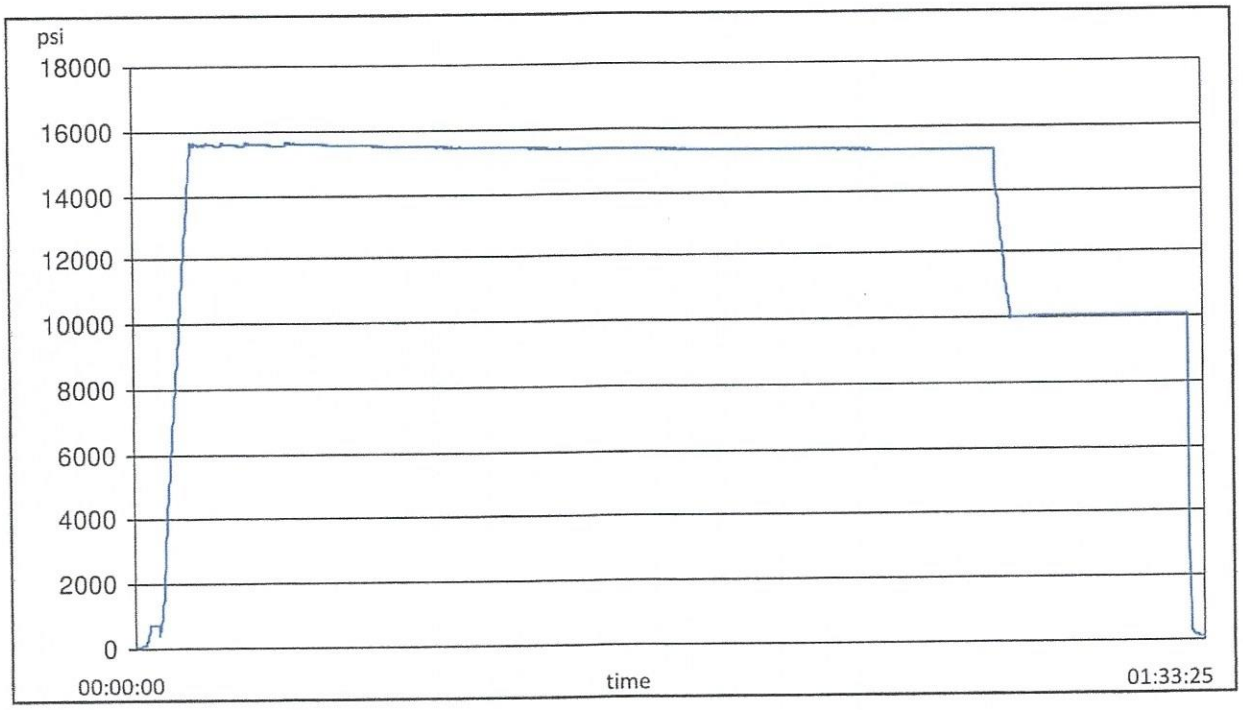
Company:	Austin Distributing
Production description:	
Sales order #:	521925
Customer reference:	

TEST INFORMATION

Test procedure:	GTS-04-053	
Test pressure:	15000.00	psi
Test pressure hold:	3600.00	sec
Work pressure:	10000.00	psi
Work pressure hold:	900.00	sec
Length difference:	0.00	%
Length difference:	0.00	inch
Visual check:		
Pressure test result:	PASS	
Length measurement result:		
Test operator:	francisco	

TEST OBJECT

Serial number:	H3-101521-2
Lot number:	L41975091719
Description:	
Hose ID:	3" 10k ck
Part number:	
Fitting 1:	3.0 x 4-1/16 10K
Part number:	
Description:	
Fitting 2:	3.0 x 4-1/16 10K
Part number:	
Description:	
Length:	35 feet



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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

Hydrostatic Test Certificate

ContiTech

Certificate Number	COM Order Reference	Customer Name & Address
H100163	1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No:	740382384	
Project:		

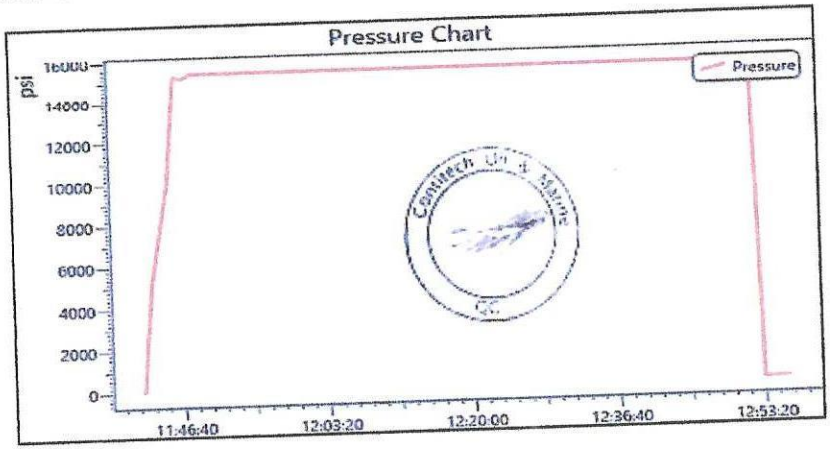
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo Date: 07/14/22	

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

Item	Part No.	Description	Qnty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
50	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70025	10,000	15,000	60

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



Continental

Certificate of Conformity

ContiTech

Certificate Number	COM Order Reference	Customer Name & Address
H100163	1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No:	740382384	
Project:		

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 Date: 07/14/22	

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

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

ARMORED CHOKE HOSE

Installed

4-29-22

Continental

ContiTech

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

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					CERT. N°:	75819	
PURCHASER:	ContiTech Oil & Marine Corp.				P.O. N°:	4501225327	
CONTITECH RUBBER order N°:	1127442	HOSE TYPE:	3"	ID	Choke and Kill Hose		
HOSE SERIAL N°:	75819	NOMINAL / ACTUAL LENGTH:			10,67 m / 10,68 m		
W.P. 69,0 MPa	10000 psi	T.P. 103,5 MPa	15000 psi		Duration:	60	min.

Pressure test with water at ambient temperature

See attachment (1 page)

COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with	6026	AISI 4130	A0607J
4 1/16" 10K API Swivel Flange end		AISI 4130	040841
Hub		AISI 4130	54194
3" coupling with	6016	AISI 4130	A0607J
4 1/16" 10K API b.w. Flange end		AISI 4130	040431

Not Designed For Well Testing

API Spec 16 C 2nd 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:	Inspector	Quality Control
08. April 2019.		ContiTech Rubber Industrial Kft. Quality Control Dept. (1)

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 GALENA PARK,TX,77547-2738			
User contact:	MITCH MCKINNIS		Phone:			e-mail:	mitch.mckinnis@hpinc.com

	Parameters	Hose Details	Test Status
Application Information	PO	740398454 (88000240 | SN:70035)	PASS
	Gates SO	525035	
	Serial #:	88000240 | SN:70035	
	As Tested Serial:	H2-082722-1 RE-TEST	
	Hose ID:	3 IN	
	Hose type:	INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END	
	Working pressure:	10000 PSI.	

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.

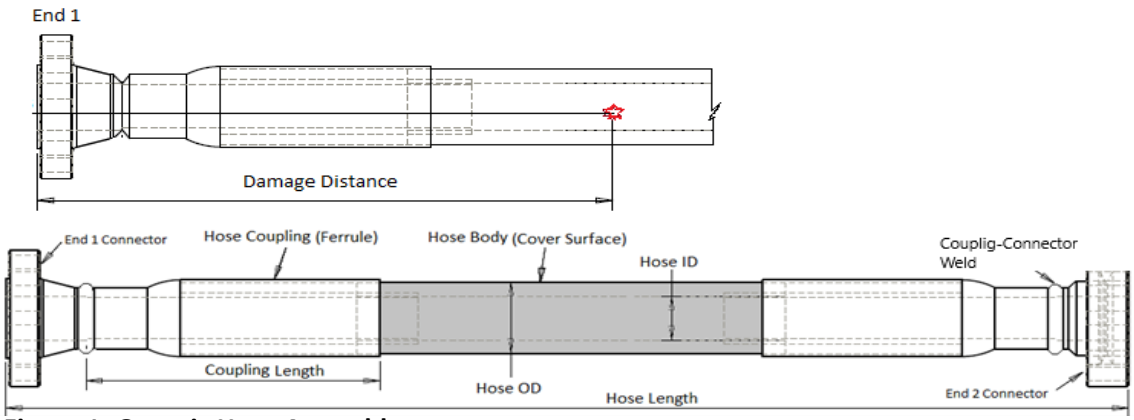


Figure 1: Generic Hose Assembly

Hose Assembly Evaluation Sheet

1.0 Observations and comments

	Comments
1	 Photos: ID.
2	 Photo: Damaged armor areas

Hose Assembly Evaluation Sheet

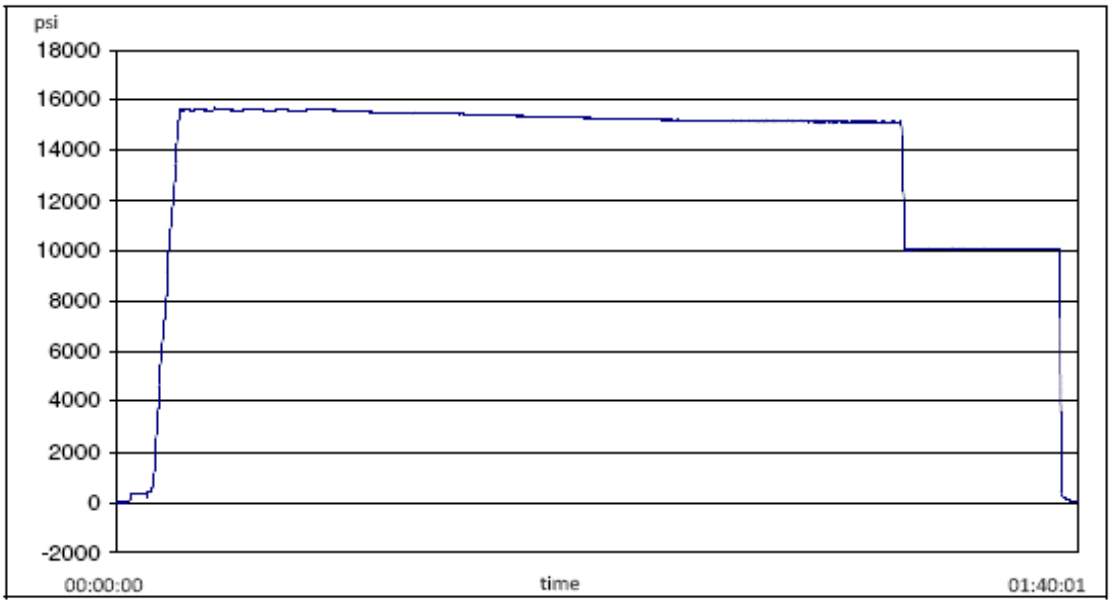
3	 **Photos: At Shipping.**
4	 **Photos: Armor and Engraving.**

Hose Assembly Evaluation Sheet

5	

Photo: In the Crate

2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

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

2.2 Gates Hydrostatic Pressure tester

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

Hose Assembly Evaluation Sheet

2.3 Hydro Static Test Pressure results

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

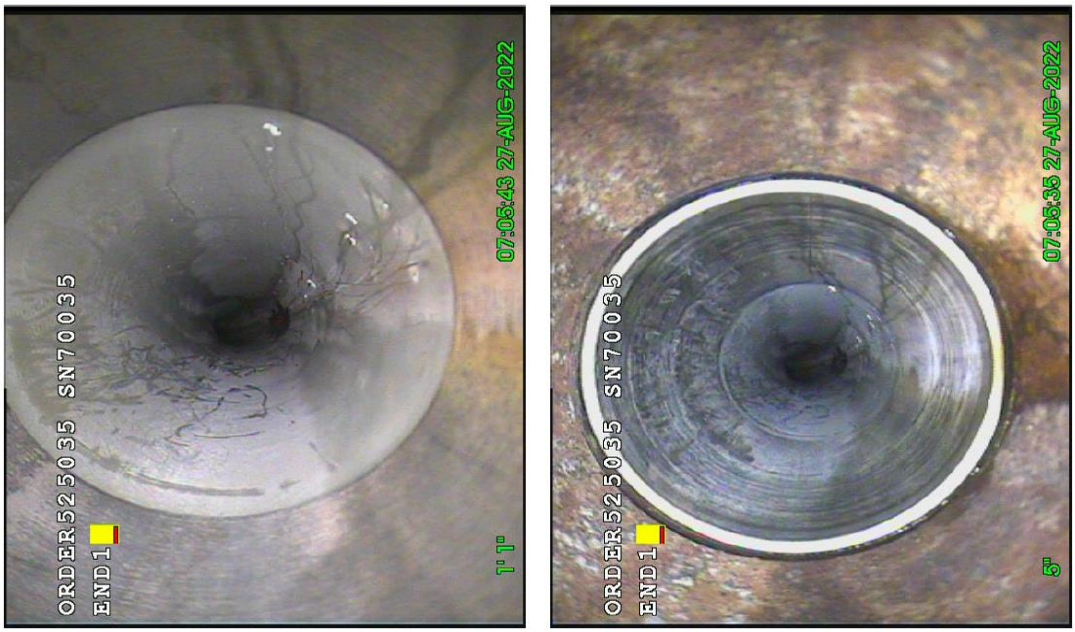
Note:

1. Hydrostatic Pressure report is given in Appendix 1

3. Hose borescope inspection

3.2 Internal Failure Details

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



Photos: Liner/Coupling Interface END 1

Hose Assembly Evaluation Sheet

Photos: Liner/Coupling Interface END 2

Note

Borescope completed? *Yes*

4. Summary

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

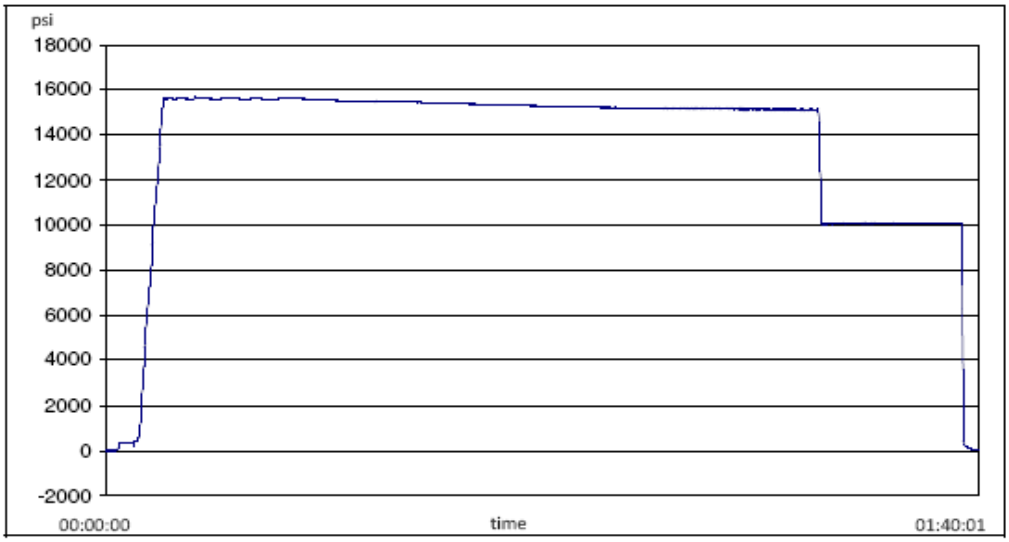
Hose Assembly Evaluation Sheet

APPENDIX 1:
Pressure Chart

H2-8316
8/27/2022 8:51:22 AM

TEST REPORT

CUSTOMER			**TEST OBJECT**		
Company:			Serial number:	H2-082722-1	
			Lot number:		
Production description:			Description:		
Sales order #:	525035				
Customer reference:	740398454 (88000240 | SN:70035)		Hose ID:	3 10k C&K	
			Part number:		
TEST INFORMATION					
Test procedure:	3 10K C&K		Fitting 1:	3.0 x 4-1/16 10K	
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 10K	
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:	Martin				



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

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

Hose Assembly Evaluation Sheet

APPENDIX 2:
Certificate of Conformance

BLACK GOLD®

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

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

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

CUSTOMER:	HELMERICH & PAYNE, INC
CUSTOMER P.O.#:	740398454 (88000240 | SN:70035)
CUSTOMER P/N:	88000240 | SN:70035
PART DESCRIPTION:	INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END
SALES ORDER #:	525035
QUANTITY:	1
SERIAL #:	H2-082722-1 RE-TEST

SIGNATURE: _____
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.

Pilot hole and Lateral sections, 10M requirement

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

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

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

General Procedure While Drilling

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

General Procedure While Tripping

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

General Procedure While Running Casing

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

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (The HCR and choke will already be in the closed position)
3. Confirm shut-in
4. Notify tool pusher/company representative
5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drill pipe thru the stack.
    a. Perform flow check, if flowing:
    b. Sound alarm (alert crew)
    c. Stab full opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper pipe ram
    e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
    f. Confirm shut-in
    g. Notify tool pusher/company representative
    h. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
        iv. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. Stab crossover and full opening safety valve and close
    c. Space out drill string with upset just beneath the compatible pipe ram
    d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
    e. Confirm shut-in
    f. Notify tool pusher/company representative
    g. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
        iv. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.

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

j. Regroup and identify forward plan

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Chuck Smith MDP1 8_17
Chuck Smith MDP1 8_17 Fed Com 1H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

11 September, 2024

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Chuck Smith MDP1 8_17 Fed Com 1H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3496.00ft
Site:	Chuck Smith MDP1 8_17	**North Reference:**	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site Chuck Smith MDP1 8_17

Site Position:		**Northing:**	450,665.22 usft	**Latitude:**	32.237835
From:	Map	**Easting:**	705,784.47 usft	**Longitude:**	-103.801465
Position Uncertainty:	0.89 ft	**Slot Radius:**	13.200 in		

Well Chuck Smith MDP1 8_17 Fed Com 1H

Well Position	**+N/-S**	0.00 ft	**Northing:**	450,771.75 usf	**Latitude:**	32.238123
	+E/-W	0.00 ft	**Easting:**	706,179.13 usf	**Longitude:**	-103.800187
Position Uncertainty		0.89 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,471.00 ft
Grid Convergence:		0.28 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	3/27/2023	6.42	59.80	47,531.20000000

Design Permitting Plan

Audit Notes:

Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	184.99

Plan Survey Tool Program **Date** 9/11/2024

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,102.73	Permitting Plan (Wellbore #1)	B001Mc_MWD+HRGM_R5	
				MWD+HRGM	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,399.55	11.00	304.99	5,392.81	60.31	-86.18	1.00	1.00	0.00	304.99	
10,295.85	11.00	304.99	10,199.23	595.76	-851.30	0.00	0.00	0.00	0.00	
11,395.40	0.00	0.00	11,292.04	656.07	-937.48	1.00	-1.00	0.00	180.00	
11,930.40	0.00	0.00	11,827.04	656.07	-937.48	0.00	0.00	0.00	0.00	
12,830.40	90.00	179.74	12,400.00	83.12	-934.91	10.00	10.00	19.97	179.74	
23,103.37	90.00	179.74	12,400.00	-10,189.75	-888.95	0.00	0.00	0.00	0.00	PBHL (Chuck Smith

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Chuck Smith MDP1 8_17 Fed Com 1H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3496.00ft
Site:	Chuck Smith MDP1 8_17	**North Reference:**	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	1.00	304.99	4,400.00	0.50	-0.71	-0.44	1.00	1.00	0.00
4,500.00	2.00	304.99	4,499.96	2.00	-2.86	-1.75	1.00	1.00	0.00
4,600.00	3.00	304.99	4,599.86	4.50	-6.43	-3.93	1.00	1.00	0.00
4,700.00	4.00	304.99	4,699.68	8.00	-11.43	-6.98	1.00	1.00	0.00
4,800.00	5.00	304.99	4,799.37	12.50	-17.86	-10.90	1.00	1.00	0.00
4,900.00	6.00	304.99	4,898.90	18.00	-25.72	-15.69	1.00	1.00	0.00
5,000.00	7.00	304.99	4,998.26	24.49	-34.99	-21.35	1.00	1.00	0.00
5,100.00	8.00	304.99	5,097.40	31.97	-45.68	-27.88	1.00	1.00	0.00
5,200.00	9.00	304.99	5,196.30	40.45	-57.79	-35.27	1.00	1.00	0.00
5,300.00	10.00	304.99	5,294.93	49.91	-71.32	-43.52	1.00	1.00	0.00
5,399.55	11.00	304.99	5,392.81	60.31	-86.18	-52.59	1.00	1.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Chuck Smith MDP1 8_17 Fed Com 1H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3496.00ft
Site:	Chuck Smith MDP1 8_17	**North Reference:**	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	11.00	304.99	5,393.26	60.36	-86.25	-52.63	0.00	0.00	0.00
5,500.00	11.00	304.99	5,491.42	71.29	-101.87	-62.17	0.00	0.00	0.00
5,600.00	11.00	304.99	5,589.58	82.23	-117.50	-71.71	0.00	0.00	0.00
5,700.00	11.00	304.99	5,687.75	93.17	-133.13	-81.24	0.00	0.00	0.00
5,800.00	11.00	304.99	5,785.91	104.10	-148.75	-90.78	0.00	0.00	0.00
5,900.00	11.00	304.99	5,884.08	115.04	-164.38	-100.32	0.00	0.00	0.00
6,000.00	11.00	304.99	5,982.24	125.97	-180.01	-109.85	0.00	0.00	0.00
6,100.00	11.00	304.99	6,080.40	136.91	-195.63	-119.39	0.00	0.00	0.00
6,200.00	11.00	304.99	6,178.57	147.84	-211.26	-128.92	0.00	0.00	0.00
6,300.00	11.00	304.99	6,276.73	158.78	-226.89	-138.46	0.00	0.00	0.00
6,400.00	11.00	304.99	6,374.90	169.72	-242.51	-148.00	0.00	0.00	0.00
6,500.00	11.00	304.99	6,473.06	180.65	-258.14	-157.53	0.00	0.00	0.00
6,600.00	11.00	304.99	6,571.23	191.59	-273.77	-167.07	0.00	0.00	0.00
6,700.00	11.00	304.99	6,669.39	202.52	-289.39	-176.61	0.00	0.00	0.00
6,800.00	11.00	304.99	6,767.55	213.46	-305.02	-186.14	0.00	0.00	0.00
6,900.00	11.00	304.99	6,865.72	224.40	-320.65	-195.68	0.00	0.00	0.00
7,000.00	11.00	304.99	6,963.88	235.33	-336.27	-205.22	0.00	0.00	0.00
7,100.00	11.00	304.99	7,062.05	246.27	-351.90	-214.75	0.00	0.00	0.00
7,200.00	11.00	304.99	7,160.21	257.20	-367.53	-224.29	0.00	0.00	0.00
7,300.00	11.00	304.99	7,258.38	268.14	-383.15	-233.83	0.00	0.00	0.00
7,400.00	11.00	304.99	7,356.54	279.08	-398.78	-243.36	0.00	0.00	0.00
7,500.00	11.00	304.99	7,454.70	290.01	-414.41	-252.90	0.00	0.00	0.00
7,600.00	11.00	304.99	7,552.87	300.95	-430.03	-262.43	0.00	0.00	0.00
7,700.00	11.00	304.99	7,651.03	311.88	-445.66	-271.97	0.00	0.00	0.00
7,800.00	11.00	304.99	7,749.20	322.82	-461.29	-281.51	0.00	0.00	0.00
7,900.00	11.00	304.99	7,847.36	333.75	-476.91	-291.04	0.00	0.00	0.00
8,000.00	11.00	304.99	7,945.53	344.69	-492.54	-300.58	0.00	0.00	0.00
8,100.00	11.00	304.99	8,043.69	355.63	-508.17	-310.12	0.00	0.00	0.00
8,200.00	11.00	304.99	8,141.85	366.56	-523.79	-319.65	0.00	0.00	0.00
8,300.00	11.00	304.99	8,240.02	377.50	-539.42	-329.19	0.00	0.00	0.00
8,400.00	11.00	304.99	8,338.18	388.43	-555.04	-338.73	0.00	0.00	0.00
8,500.00	11.00	304.99	8,436.35	399.37	-570.67	-348.26	0.00	0.00	0.00
8,600.00	11.00	304.99	8,534.51	410.31	-586.30	-357.80	0.00	0.00	0.00
8,700.00	11.00	304.99	8,632.67	421.24	-601.92	-367.33	0.00	0.00	0.00
8,800.00	11.00	304.99	8,730.84	432.18	-617.55	-376.87	0.00	0.00	0.00
8,900.00	11.00	304.99	8,829.00	443.11	-633.18	-386.41	0.00	0.00	0.00
9,000.00	11.00	304.99	8,927.17	454.05	-648.80	-395.94	0.00	0.00	0.00
9,100.00	11.00	304.99	9,025.33	464.99	-664.43	-405.48	0.00	0.00	0.00
9,200.00	11.00	304.99	9,123.50	475.92	-680.06	-415.02	0.00	0.00	0.00
9,300.00	11.00	304.99	9,221.66	486.86	-695.68	-424.55	0.00	0.00	0.00
9,400.00	11.00	304.99	9,319.82	497.79	-711.31	-434.09	0.00	0.00	0.00
9,500.00	11.00	304.99	9,417.99	508.73	-726.94	-443.63	0.00	0.00	0.00
9,600.00	11.00	304.99	9,516.15	519.67	-742.56	-453.16	0.00	0.00	0.00
9,700.00	11.00	304.99	9,614.32	530.60	-758.19	-462.70	0.00	0.00	0.00
9,800.00	11.00	304.99	9,712.48	541.54	-773.82	-472.24	0.00	0.00	0.00
9,900.00	11.00	304.99	9,810.65	552.47	-789.44	-481.77	0.00	0.00	0.00
10,000.00	11.00	304.99	9,908.81	563.41	-805.07	-491.31	0.00	0.00	0.00
10,100.00	11.00	304.99	10,006.97	574.34	-820.70	-500.84	0.00	0.00	0.00
10,200.00	11.00	304.99	10,105.14	585.28	-836.32	-510.38	0.00	0.00	0.00
10,295.85	11.00	304.99	10,199.23	595.76	-851.30	-519.52	0.00	0.00	0.00
10,300.00	10.95	304.99	10,203.30	596.22	-851.95	-519.92	1.00	-1.00	0.00
10,400.00	9.95	304.99	10,301.64	606.62	-866.82	-528.99	1.00	-1.00	0.00
10,500.00	8.95	304.99	10,400.28	616.04	-880.27	-537.20	1.00	-1.00	0.00
10,600.00	7.95	304.99	10,499.19	624.47	-892.32	-544.55	1.00	-1.00	0.00
10,700.00	6.95	304.99	10,598.35	631.90	-902.95	-551.04	1.00	-1.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Chuck Smith MDP1 8_17 Fed Com 1H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3496.00ft
Site:	Chuck Smith MDP1 8_17	**North Reference:**	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,800.00	5.95	304.99	10,697.71	638.35	-912.15	-556.66	1.00	-1.00	0.00
10,900.00	4.95	304.99	10,797.26	643.80	-919.94	-561.41	1.00	-1.00	0.00
11,000.00	3.95	304.99	10,896.96	648.25	-926.30	-565.29	1.00	-1.00	0.00
11,100.00	2.95	304.99	10,996.77	651.71	-931.24	-568.31	1.00	-1.00	0.00
11,200.00	1.95	304.99	11,096.68	654.16	-934.75	-570.45	1.00	-1.00	0.00
11,300.00	0.95	304.99	11,196.65	655.62	-936.83	-571.71	1.00	-1.00	0.00
11,395.40	0.00	0.00	11,292.04	656.07	-937.48	-572.11	1.00	-1.00	0.00
11,400.00	0.00	0.00	11,296.64	656.07	-937.48	-572.11	0.00	0.00	0.00
11,500.00	0.00	0.00	11,396.64	656.07	-937.48	-572.11	0.00	0.00	0.00
11,600.00	0.00	0.00	11,496.64	656.07	-937.48	-572.11	0.00	0.00	0.00
11,700.00	0.00	0.00	11,596.64	656.07	-937.48	-572.11	0.00	0.00	0.00
11,800.00	0.00	0.00	11,696.64	656.07	-937.48	-572.11	0.00	0.00	0.00
11,900.00	0.00	0.00	11,796.64	656.07	-937.48	-572.11	0.00	0.00	0.00
11,930.40	0.00	0.00	11,827.04	656.07	-937.48	-572.11	0.00	0.00	0.00
12,000.00	6.96	179.74	11,896.47	651.85	-937.46	-567.91	10.00	10.00	0.00
12,100.00	16.96	179.74	11,994.18	631.15	-937.37	-547.30	10.00	10.00	0.00
12,200.00	26.96	179.74	12,086.80	593.80	-937.20	-510.10	10.00	10.00	0.00
12,300.00	36.96	179.74	12,171.54	540.94	-936.96	-457.46	10.00	10.00	0.00
12,400.00	46.96	179.74	12,245.80	474.16	-936.66	-390.96	10.00	10.00	0.00
12,500.00	56.96	179.74	12,307.35	395.50	-936.31	-312.63	10.00	10.00	0.00
12,600.00	66.96	179.74	12,354.29	307.36	-935.92	-224.85	10.00	10.00	0.00
12,700.00	76.96	179.74	12,385.22	212.39	-935.49	-130.29	10.00	10.00	0.00
12,800.00	86.96	179.74	12,399.19	113.50	-935.05	-31.81	10.00	10.00	0.00
12,830.40	90.00	179.74	12,400.00	83.12	-934.91	-1.55	10.00	10.00	0.00
12,900.00	90.00	179.74	12,400.00	13.52	-934.60	67.76	0.00	0.00	0.00
13,000.00	90.00	179.74	12,400.00	-86.48	-934.16	167.34	0.00	0.00	0.00
13,100.00	90.00	179.74	12,400.00	-186.48	-933.71	266.92	0.00	0.00	0.00
13,200.00	90.00	179.74	12,400.00	-286.48	-933.26	366.51	0.00	0.00	0.00
13,300.00	90.00	179.74	12,400.00	-386.48	-932.81	466.09	0.00	0.00	0.00
13,400.00	90.00	179.74	12,400.00	-486.48	-932.37	565.67	0.00	0.00	0.00
13,500.00	90.00	179.74	12,400.00	-586.48	-931.92	665.25	0.00	0.00	0.00
13,600.00	90.00	179.74	12,400.00	-686.48	-931.47	764.83	0.00	0.00	0.00
13,700.00	90.00	179.74	12,400.00	-786.47	-931.02	864.41	0.00	0.00	0.00
13,800.00	90.00	179.74	12,400.00	-886.47	-930.58	964.00	0.00	0.00	0.00
13,900.00	90.00	179.74	12,400.00	-986.47	-930.13	1,063.58	0.00	0.00	0.00
14,000.00	90.00	179.74	12,400.00	-1,086.47	-929.68	1,163.16	0.00	0.00	0.00
14,100.00	90.00	179.74	12,400.00	-1,186.47	-929.23	1,262.74	0.00	0.00	0.00
14,200.00	90.00	179.74	12,400.00	-1,286.47	-928.79	1,362.32	0.00	0.00	0.00
14,300.00	90.00	179.74	12,400.00	-1,386.47	-928.34	1,461.90	0.00	0.00	0.00
14,400.00	90.00	179.74	12,400.00	-1,486.47	-927.89	1,561.49	0.00	0.00	0.00
14,500.00	90.00	179.74	12,400.00	-1,586.47	-927.45	1,661.07	0.00	0.00	0.00
14,600.00	90.00	179.74	12,400.00	-1,686.47	-927.00	1,760.65	0.00	0.00	0.00
14,700.00	90.00	179.74	12,400.00	-1,786.46	-926.55	1,860.23	0.00	0.00	0.00
14,800.00	90.00	179.74	12,400.00	-1,886.46	-926.10	1,959.81	0.00	0.00	0.00
14,900.00	90.00	179.74	12,400.00	-1,986.46	-925.66	2,059.39	0.00	0.00	0.00
15,000.00	90.00	179.74	12,400.00	-2,086.46	-925.21	2,158.98	0.00	0.00	0.00
15,100.00	90.00	179.74	12,400.00	-2,186.46	-924.76	2,258.56	0.00	0.00	0.00
15,200.00	90.00	179.74	12,400.00	-2,286.46	-924.31	2,358.14	0.00	0.00	0.00
15,300.00	90.00	179.74	12,400.00	-2,386.46	-923.87	2,457.72	0.00	0.00	0.00
15,400.00	90.00	179.74	12,400.00	-2,486.46	-923.42	2,557.30	0.00	0.00	0.00
15,500.00	90.00	179.74	12,400.00	-2,586.46	-922.97	2,656.89	0.00	0.00	0.00
15,600.00	90.00	179.74	12,400.00	-2,686.46	-922.52	2,756.47	0.00	0.00	0.00
15,700.00	90.00	179.74	12,400.00	-2,786.45	-922.08	2,856.05	0.00	0.00	0.00
15,800.00	90.00	179.74	12,400.00	-2,886.45	-921.63	2,955.63	0.00	0.00	0.00
15,900.00	90.00	179.74	12,400.00	-2,986.45	-921.18	3,055.21	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Chuck Smith MDP1 8_17 Fed Com 1H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3496.00ft
Site:	Chuck Smith MDP1 8_17	**North Reference:**	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,000.00	90.00	179.74	12,400.00	-3,086.45	-920.73	3,154.79	0.00	0.00	0.00
16,100.00	90.00	179.74	12,400.00	-3,186.45	-920.29	3,254.38	0.00	0.00	0.00
16,200.00	90.00	179.74	12,400.00	-3,286.45	-919.84	3,353.96	0.00	0.00	0.00
16,300.00	90.00	179.74	12,400.00	-3,386.45	-919.39	3,453.54	0.00	0.00	0.00
16,400.00	90.00	179.74	12,400.00	-3,486.45	-918.94	3,553.12	0.00	0.00	0.00
16,500.00	90.00	179.74	12,400.00	-3,586.45	-918.50	3,652.70	0.00	0.00	0.00
16,600.00	90.00	179.74	12,400.00	-3,686.45	-918.05	3,752.28	0.00	0.00	0.00
16,700.00	90.00	179.74	12,400.00	-3,786.44	-917.60	3,851.87	0.00	0.00	0.00
16,800.00	90.00	179.74	12,400.00	-3,886.44	-917.16	3,951.45	0.00	0.00	0.00
16,900.00	90.00	179.74	12,400.00	-3,986.44	-916.71	4,051.03	0.00	0.00	0.00
17,000.00	90.00	179.74	12,400.00	-4,086.44	-916.26	4,150.61	0.00	0.00	0.00
17,100.00	90.00	179.74	12,400.00	-4,186.44	-915.81	4,250.19	0.00	0.00	0.00
17,200.00	90.00	179.74	12,400.00	-4,286.44	-915.37	4,349.77	0.00	0.00	0.00
17,300.00	90.00	179.74	12,400.00	-4,386.44	-914.92	4,449.36	0.00	0.00	0.00
17,400.00	90.00	179.74	12,400.00	-4,486.44	-914.47	4,548.94	0.00	0.00	0.00
17,500.00	90.00	179.74	12,400.00	-4,586.44	-914.02	4,648.52	0.00	0.00	0.00
17,600.00	90.00	179.74	12,400.00	-4,686.44	-913.58	4,748.10	0.00	0.00	0.00
17,700.00	90.00	179.74	12,400.00	-4,786.43	-913.13	4,847.68	0.00	0.00	0.00
17,800.00	90.00	179.74	12,400.00	-4,886.43	-912.68	4,947.27	0.00	0.00	0.00
17,900.00	90.00	179.74	12,400.00	-4,986.43	-912.23	5,046.85	0.00	0.00	0.00
18,000.00	90.00	179.74	12,400.00	-5,086.43	-911.79	5,146.43	0.00	0.00	0.00
18,100.00	90.00	179.74	12,400.00	-5,186.43	-911.34	5,246.01	0.00	0.00	0.00
18,200.00	90.00	179.74	12,400.00	-5,286.43	-910.89	5,345.59	0.00	0.00	0.00
18,300.00	90.00	179.74	12,400.00	-5,386.43	-910.44	5,445.17	0.00	0.00	0.00
18,400.00	90.00	179.74	12,400.00	-5,486.43	-910.00	5,544.76	0.00	0.00	0.00
18,500.00	90.00	179.74	12,400.00	-5,586.43	-909.55	5,644.34	0.00	0.00	0.00
18,600.00	90.00	179.74	12,400.00	-5,686.43	-909.10	5,743.92	0.00	0.00	0.00
18,700.00	90.00	179.74	12,400.00	-5,786.42	-908.65	5,843.50	0.00	0.00	0.00
18,800.00	90.00	179.74	12,400.00	-5,886.42	-908.21	5,943.08	0.00	0.00	0.00
18,900.00	90.00	179.74	12,400.00	-5,986.42	-907.76	6,042.66	0.00	0.00	0.00
19,000.00	90.00	179.74	12,400.00	-6,086.42	-907.31	6,142.25	0.00	0.00	0.00
19,100.00	90.00	179.74	12,400.00	-6,186.42	-906.87	6,241.83	0.00	0.00	0.00
19,200.00	90.00	179.74	12,400.00	-6,286.42	-906.42	6,341.41	0.00	0.00	0.00
19,300.00	90.00	179.74	12,400.00	-6,386.42	-905.97	6,440.99	0.00	0.00	0.00
19,400.00	90.00	179.74	12,400.00	-6,486.42	-905.52	6,540.57	0.00	0.00	0.00
19,500.00	90.00	179.74	12,400.00	-6,586.42	-905.08	6,640.15	0.00	0.00	0.00
19,600.00	90.00	179.74	12,400.00	-6,686.42	-904.63	6,739.74	0.00	0.00	0.00
19,700.00	90.00	179.74	12,400.00	-6,786.41	-904.18	6,839.32	0.00	0.00	0.00
19,800.00	90.00	179.74	12,400.00	-6,886.41	-903.73	6,938.90	0.00	0.00	0.00
19,900.00	90.00	179.74	12,400.00	-6,986.41	-903.29	7,038.48	0.00	0.00	0.00
20,000.00	90.00	179.74	12,400.00	-7,086.41	-902.84	7,138.06	0.00	0.00	0.00
20,100.00	90.00	179.74	12,400.00	-7,186.41	-902.39	7,237.65	0.00	0.00	0.00
20,200.00	90.00	179.74	12,400.00	-7,286.41	-901.94	7,337.23	0.00	0.00	0.00
20,300.00	90.00	179.74	12,400.00	-7,386.41	-901.50	7,436.81	0.00	0.00	0.00
20,400.00	90.00	179.74	12,400.00	-7,486.41	-901.05	7,536.39	0.00	0.00	0.00
20,500.00	90.00	179.74	12,400.00	-7,586.41	-900.60	7,635.97	0.00	0.00	0.00
20,600.00	90.00	179.74	12,400.00	-7,686.41	-900.15	7,735.55	0.00	0.00	0.00
20,700.00	90.00	179.74	12,400.00	-7,786.40	-899.71	7,835.14	0.00	0.00	0.00
20,800.00	90.00	179.74	12,400.00	-7,886.40	-899.26	7,934.72	0.00	0.00	0.00
20,900.00	90.00	179.74	12,400.00	-7,986.40	-898.81	8,034.30	0.00	0.00	0.00
21,000.00	90.00	179.74	12,400.00	-8,086.40	-898.37	8,133.88	0.00	0.00	0.00
21,100.00	90.00	179.74	12,400.00	-8,186.40	-897.92	8,233.46	0.00	0.00	0.00
21,200.00	90.00	179.74	12,400.00	-8,286.40	-897.47	8,333.04	0.00	0.00	0.00
21,300.00	90.00	179.74	12,400.00	-8,386.40	-897.02	8,432.63	0.00	0.00	0.00
21,400.00	90.00	179.74	12,400.00	-8,486.40	-896.58	8,532.21	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Chuck Smith MDP1 8_17 Fed Com 1H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3496.00ft
Site:	Chuck Smith MDP1 8_17	**North Reference:**	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,500.00	90.00	179.74	12,400.00	-8,586.40	-896.13	8,631.79	0.00	0.00	0.00
21,600.00	90.00	179.74	12,400.00	-8,686.40	-895.68	8,731.37	0.00	0.00	0.00
21,700.00	90.00	179.74	12,400.00	-8,786.39	-895.23	8,830.95	0.00	0.00	0.00
21,800.00	90.00	179.74	12,400.00	-8,886.39	-894.79	8,930.53	0.00	0.00	0.00
21,900.00	90.00	179.74	12,400.00	-8,986.39	-894.34	9,030.12	0.00	0.00	0.00
22,000.00	90.00	179.74	12,400.00	-9,086.39	-893.89	9,129.70	0.00	0.00	0.00
22,100.00	90.00	179.74	12,400.00	-9,186.39	-893.44	9,229.28	0.00	0.00	0.00
22,200.00	90.00	179.74	12,400.00	-9,286.39	-893.00	9,328.86	0.00	0.00	0.00
22,300.00	90.00	179.74	12,400.00	-9,386.39	-892.55	9,428.44	0.00	0.00	0.00
22,400.00	90.00	179.74	12,400.00	-9,486.39	-892.10	9,528.03	0.00	0.00	0.00
22,500.00	90.00	179.74	12,400.00	-9,586.39	-891.65	9,627.61	0.00	0.00	0.00
22,600.00	90.00	179.74	12,400.00	-9,686.39	-891.21	9,727.19	0.00	0.00	0.00
22,700.00	90.00	179.74	12,400.00	-9,786.38	-890.76	9,826.77	0.00	0.00	0.00
22,800.00	90.00	179.74	12,400.00	-9,886.38	-890.31	9,926.35	0.00	0.00	0.00
22,900.00	90.00	179.74	12,400.00	-9,986.38	-889.86	10,025.93	0.00	0.00	0.00
23,000.00	90.00	179.74	12,400.00	-10,086.38	-889.42	10,125.52	0.00	0.00	0.00
23,100.00	90.00	179.74	12,400.00	-10,186.38	-888.97	10,225.10	0.00	0.00	0.00
23,103.37	90.00	179.74	12,400.00	-10,189.75	-888.95	10,228.45	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Chuck Smith - plan misses target center by 1144.24ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	656.07	-937.48	451,427.78	705,241.71	32.239939	-103.803208
PBHL (Chuck Smith - plan hits target center - Point	0.00	0.01	12,400.00	-10,189.75	-888.95	440,582.63	705,290.23	32.210127	-103.803224
FTP (Chuck Smith - plan misses target center by 25.55ft at 12663.01ft MD (12375.72 TVD, 248.13 N, -935.65 E) - Point	0.00	0.00	12,400.00	256.06	-936.28	451,027.79	705,242.91	32.238839	-103.803211

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Chuck Smith MDP1 8_17 Fed Com 1H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 3496.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 3496.00ft
Site:	Chuck Smith MDP1 8_17	**North Reference:**	Grid
Well:	Chuck Smith MDP1 8_17 Fed Com 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
620.00	620.00	RUSTLER			
981.00	981.00	SALADO			
2,782.00	2,782.00	CASTILE			
4,229.00	4,229.00	DELAWARE			
4,251.00	4,251.00	BELL CANYON			
5,222.99	5,219.00	CHERRY CANYON			
6,444.93	6,419.00	BRUSHY CANYON			
8,170.61	8,113.00	BONE SPRING			
9,222.93	9,146.00	BONE SPRING 1ST			
9,879.99	9,791.00	BONE SPRING 2ND			
11,141.28	11,038.00	BONE SPRING 3RD			
11,593.36	11,490.00	WOLFCAMP			
11,770.36	11,667.00	WOLFCAMP A			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
4,300.00	4,300.00	0.00	0.00	Build 1°/100'
5,399.55	5,392.81	60.31	-86.18	Hold 11° Tangent
10,295.85	10,199.23	595.76	-851.30	Drop 1°/100'
11,395.40	11,292.04	656.07	-937.48	Hold Vertical
11,930.40	11,827.04	656.07	-937.48	KOP, Build & Turn 10°/100'
12,830.40	12,400.00	83.12	-934.91	Landing Point
23,103.37	12,400.00	-10,189.75	-888.95	TD at 23103.37' 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 #	Surface		Intermediate		Production	
		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? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching 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 3rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd 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)	Expected Fluids
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 (lb/gal)	Excess:	TOC	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.

Oxy USA Inc. - CHUCK SMITH MDP1 8_17 FED COM 1H
Drill Plan

1. Geologic Formations

TVD of Target (ft):	12400	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	23103	Deepest Expected Fresh Water (ft):	620

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
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

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

2. Casing Program

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	921	0	921	10.75	45.5	J-55	BTC
Intermediate	9.875	0	11953	0	11850	7.625	29.7	L-80 HC	BTC
Production	6.75	0	23103	0	12400	5.5	23	P-110	Sprint-SF

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

All Casing SF Values will meet or exceed those below			
SF Collapse	**SF Burst**	**Body SF Tension**	**Joint SF 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? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching 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 3rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd 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. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	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.

Offline Cementing Request

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

Bradenhead CBL Request

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

4. Pressure Control Equipment

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

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	921	0	921	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	921	11953	921	11850	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11953	23103	11850	12400	Water-Based or Oil-Based Mud	9.5 - 13.5	38-50	N/C

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

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

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).
	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

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

7. Drilling Conditions

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

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

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

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
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, 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.	Yes

Total Estimated Cuttings Volume: 1734 bbls

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024
PAGE 1 OF 2

Submittal Type: ☐ Initial Submittal ☑ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-54261	98220	PURPLE SAGE;WOLFCAMP

Property Code	Property Name	Well Number
334580	CHUCK SMITH MDP1 8_17 FED COM	1H

OGRID No.	Operator Name	Ground Level Elevation
16696	OXY USA INC.	3471'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
C	08	24S	31E		361' FNL	2535' FWL	32.23812278	-103.80018651	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	17	24S	31E		20' FSL	1600' FWL	32.21012714	-103.80322395	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
640.00	Defining	30-015-54261	N	

Order Numbers:
Well setbacks are under Common Ownership: ☐ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	05	24S	31E		300' FSL	1600' FWL	32.23993882	-103.80320782	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
C	08	24S	31E		100' FNL	1600' FWL	32.23883932	-103.80321032	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	17	24S	31E		100' FSL	1600' FWL	32.21034705	-103.80322384	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation
		3471'

OPERATOR CERTIFICATIONS

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

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

Melissa Guidry 09/25/24
Signature Date

Melissa Guidry
Printed Name

melissa_guidry@oxy.com
Email Address

SURVEYOR CERTIFICATIONS

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

LLOYD P. SHORT NEW MEXICO 21653 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
21653	SEPTEMBER 18, 2024

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

ACREAGE DEDICATION PLATS

CHUCK SMITH MDP1 8_17 FED COM 1H

PAGE 2 OF 2

SHL (NAD83)
X:706179.13' / Y:450771.75'
LAT:32.23812278 / LON:-103.80018651

SHL (NAD27)
X:664995.22' / Y:450712.72'
LAT:32.23799957 / LON:-103.79970193

KOP (NAD83)
X:705241.71' / Y:451427.78'
LAT:32.23993882 / LON:-103.80320782

KOP (NAD27)
X:664057.83' / Y:451368.74'
LAT:32.23981564 / LON:-103.80272308

PPP-1 (NAD83)
X:705242.61' / Y:451127.79'
LAT:32.23911419 / LON:-103.80320969

PPP-1 (NAD27)
X:664058.72' / Y:451068.75'
LAT:32.23899100 / LON:-103.80272498

FTP (NAD83)
X:705242.91' / Y:451027.79'
LAT:32.23883932 / LON:-103.80321032

FTP (NAD27)
X:664059.01' / Y:450968.76'
LAT:32.23871613 / LON:-103.80272563

PPP-2 (NAD83)
X:705266.39' / Y:445844.92'
LAT:32.22459240 / LON:-103.80321709

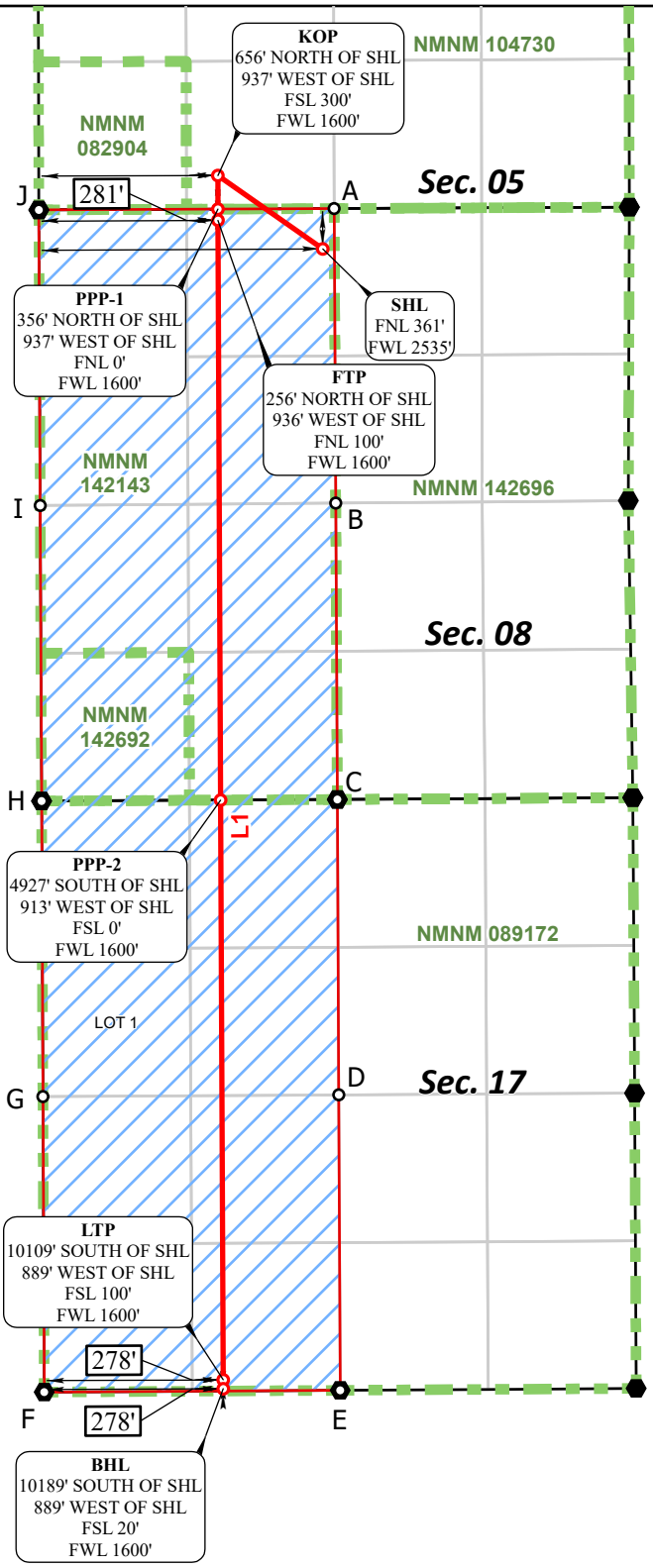
PPP-2 (NAD27)
X:664082.32' / Y:445786.00'
LAT:32.22446907 / LON:-103.80273306

LTP (NAD83)
X:705289.87' / Y:440662.63'
LAT:32.21034705 / LON:-103.80322384

LTP (NAD27)
X:664105.61' / Y:440603.83'
LAT:32.21022359 / LON:-103.80274047

BHL (NAD83)
X:705290.23' / Y:440582.63'
LAT:32.21012714 / LON:-103.80322395

BHL (NAD27)
X:664105.97' / Y:440523.83'
LAT:32.21000368 / LON:-103.80274060



CORNER COORDINATES NAD 83, SPCS NM EAST	CORNER COORDINATES NAD 27, SPCS NM EAST
A - X: 706280.65' / Y:451132.79'	A - X: 665096.75' / Y:451073.75'
B - X: 706295.17' / Y:448500.08'	B - X: 665111.18' / Y:448441.10'
C - X: 706309.79' / Y:445850.38'	C - X: 665125.71' / Y:445791.46'
D - X: 706322.46' / Y:443210.66'	D - X: 665138.28' / Y:443151.81'
E - X: 706335.13' / Y:440568.92'	E - X: 665150.86' / Y:440510.12'
F - X: 703690.34' / Y:440553.00'	F - X: 662506.09' / Y:440494.20'
G - X: 703678.53' / Y:443194.77'	G - X: 662494.37' / Y:443135.91'
H - X: 703666.72' / Y:445836.54'	H - X: 662482.65' / Y:445777.62'
I - X: 703654.60' / Y:448478.31'	I - X: 662470.62' / Y:448419.33'
J - X: 703642.47' / Y:451120.07'	J - X: 662458.59' / Y:451061.04'

*FTP TO LTP LINE BEARINGS

LINE	BEARING
L1	S 00°15'34" E ~ 10365.26'

*FTP TO LTP LEASE DISTANCES

TRACT	DISTANCE
NMNM 142143	5182.92'
NMNM 089172	5182.34'
TOTAL	10365.26'

Drill Line Events | Section Corners | Drill Line | Dimension Lines | Federal Leases | HSU | HSU Corners

JOB No. R4289_003_13739
REV 4 NDS 9/17/2024

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

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99977581 and a Convergence Angle: 0.27195833°

OXY APD CHANGE SUNDRY LIST FORM

DATE SUNDRY WORKSHEET CREATED	9/25/2024
WELL NAME_NUMBER	Chuck Smith MDP1 8-17 Federal Com #001H
API NUMBER	30-015-54261
ESTIMATED SPUD DATE	1/1/2025

	ITEM	APD BASE LINE (For Regulatory to Complete)	SUNDRY PLAN (Groups to complete the latest plan)
		Date APD/BASE LINE APPROVED: 09/26/2023	DATE Sundry Worksheet : 9/25/2024
Surface Planning	NAME	Chuck Smith MDP1 8-17 Federal Com #001H	Chuck Smith MDP1 8-17 Federal Com #001H
	NSL		YES
	SHL	361' FNL 2534' FWL C-8- 24S-31E	361' FNL 2535' FWL C-8-24S-31E
	PAD	SND_DNS_T24SR31E_0802	SND_DNS_T24SR31E_0802
	BHL	20' FSL 1740'FWL N-17-24S-31E	20' FSL 1600'FWL N-17-24S-31E
	HSU SIZE, ACRES	640 WEST/2	640 WEST/2
	POOL	PURPLE SAGE; WOLFCAMP	PURPLE SAGE; WOLFCAMP
	TVD	12296' TVD	12400' TVD
	TARGET FORMATION	WOLFCAMP	WOLFCAMP

CASING PROGRAM

APD BASE LINE								SUNDRY PLAN							
Section	Hole Size (in.)	MD	TVD	Csg OD	Csg WT	Grade	Conn.	Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT (ppf)	Grade	Conn.
Surface	17.5	921'	921'	13.375	54.5	J-55	BTC	Surface	14.75	921'	921'	10.75	45.5	J-55	BTC
Int	12.25	11578'	11511'	9.625	40	HCL-80	BTC	Int	9.875	11953'	11850'	7.625	29.7	L-80 HC	BTC
Int2								Int2							
Prod	8.75 X 8.5	22828	12296	7 X 5.5	32/20	P-110	DQX/WDG 461	Prod	6.75	23103	12400	5.5	23	P-110	Sprint-SF
Liner								Liner							

CEMENT PROGRAM

APD BASE LINE									SUNDRY PLAN								
Section/Stage	Slurry	Sacks	Yield (ft^3/	Density (lb	Excess	TOC	Placement	Description	Section/Stage	Slurry	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess	TOC	Placement	Description
Surf	SURF TAIL	962	1.33	14.8	100%	0	CIRC	CL C _ACC	Surf	SURF TAIL	770	1.33	14.8	100%	0	CIRC	CLC_ACC
Int/1	INT TAIL	976	1.65	13.2	5%	6683'	CIRC	CL H _A,D, S	Int/1	INT TAIL	706	1.68	13.2	5%	6695	CIRC	CLC_RET, D
Int/2	TAIL BH	1515	1.71	13.3	25%	0	BH	CL C _ACC	Int/2	TAIL BH	1032	1.71	13.3	25%	0	BH	CLC_ACC
Int2									Int2								
Int2									Int2								
Prod	TAIL	2581	1.38	13.2	25%	11078'	CIRC	CL H_RET,D, S	Prod	TAIL	658	1.84	13.3	25%	11453	CIRC	CLC_RET

VARIANCES

APD BASE LINE		SUNDRY PLAN	
BOP Break Tesing Variance	X	BOP Break Tesing Variance	X
5M Annular BOP Variance		5M Annular BOP Variance	X
Bradenhead CBL Variance		Bradenhead CBL Variance	X
Offline Cementing Variance	X	Offline Cementing Variance	X
Production Annular Clearance Variance		Production Annular Clearance Variance	
Flexible Choke Line Variance	X	Flexible Choke Line Variance	
(Pilot Hole, Logs etc.)		(Pilot 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 P.O. Box 4294 Houston, TX 772104294	16696
	Action Number: 416030
	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