

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

Sundry Print Report 95/22/2024

Well Name: TOP SPOT 12_13 FED Well Location: T22S / R31E / SEC 13 / County or Parish/State: EDDY /

COM SESE / 32.385594 / -103.726397

Well Number: 24H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM29233 Unit or CA Name: Unit or CA Number:

Notice of Intent

Sundry ID: 2781919

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/27/2024 Time Sundry Submitted: 10:05

Date proposed operation will begin: 07/01/2024

Procedure Description: Oxy USA Inc. respectfully requests approval to amend the subject APD with the following information: 3S SLIM BASE PLAN W/ 4S FALCON CONTINGENCY PLAN - THE SHL, BHL, HSU SIZE, TVD, SURFACE CASING, INTERMEDIATE CASING, AND PRODUCTION CASING ARE CHANGING. The C-102, DRILL PLAN, CASING CONNECTIONS, DIRECTIONAL PLAN AND A CONTINGENCY TIE BACK ARE ATTACHED. UPDATED VARIANCE REQUESTS FOR BOP BREAK TESTING, BRADENHEAD CBL, AND OFFLINE CEMENT ARE ATTACHED. "SHL MOVING BY 180 FEET AND THERE IS NO ADDITIONAL SURFACE DISTURBANCE RELATED TO THIS SUNDRY"

NOI Attachments

Procedure Description

TOPSPOT12_13FEDCOM24H_FalconSL1AnnClearanceVariance_20240327100427.pdf

TOPSPOT12_13FEDCOM24H_TNSWedge463_7.827in_39.30ppf_P110S_20240327100416.pdf

TOPSPOT12_13FEDCOM24H_API_BTC_SC_10.750in_45.50ppf_L80IC_20240327100409.pdf

TOPSPOT12_13FEDCOM24H_4SFalconSL1ContingencyTiebackDetails_20240327100358.pdf

TOPSPOT12_13FEDCOM24H_DrillPlan_4S_Cont_20240327100346.pdf

TOPSPOT12_13FEDCOM24H_ProdCsgAnnClearanceVariance_20240327100328.pdf

TOPSPOT12_13FEDCOM24H_OfflineCementVariance_20240327100317.pdf

 $TOPSPOT12_13FEDCOM24H_BradenheadCBLVariance_20240327100301.pdf$

eived by OCD: 5/28/2024 8:39:08 AM Well Name: TOP SPOT 12_13 FED

COM

Well Location: T22S / R31E / SEC 13 /

SESE / 32.385594 / -103.726397

County or Parish/State: Page 2 of

Well Number: 24H Type of Well: OIL WELL **Allottee or Tribe Name:**

Unit or CA Number: Lease Number: NMNM29233 **Unit or CA Name:**

US Well Number: 3001547954 Operator: OXY USA INCORPORATED

TOPSPOT12_13FEDCOM24H_BOPBreakTestingVariance_20240327100250.pdf

TOPSPOT12_13FEDCOM24H__FlexHoseCert_20240327100233.pdf

TOPSPOT12 13FEDCOM24H ChkManifolds 20240327100223.pdf

TOPSPOT12_13FEDCOM24H_TNSWedge461_5.500in_20.00ppf_P110CY_20240327100212.pdf

TOPSPOT12_13FEDCOM24H_DirectPlan_20240327100125.pdf

TOPSPOT12_13FEDCOM24H_DrillPlan_Sundry_20240327100112.pdf

TOPSPOT12_13FEDCOM24H_C102_20240327100044.pdf

TOPSPOT12_13FEDCOM24H_OXY_APD_CHANGE_SUNDRY_LIST_03.27.24_20240327100027.pdf

Conditions of Approval

Additional

TOP_SPOT_12_13_FED_COM_24H___SUNDRY_COA_20240521085107.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: MAR 27, 2024 10:05 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:

Phone:

Email address:

Zip:

Well Name: TOP SPOT 12_13 FED

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Well Location: T22S / R31E / SEC 13 / County or Parish/State: EDDY 7 of

COM SESE / 32.385594 / -103.726397

Well Number: 24H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM29233 Unit or CA Name: Unit or CA Number:

US Well Number: 3001547954 **Operator:** OXY USA INCORPORATED

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:** 05/22/2024

Signature: Chris Walls

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

5. Lease Serial N	lo
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BURE	EAU OF LAND MANAGEMENT	5. Lease Seriai No.			
Do not use this fo	OTICES AND REPORTS ON Worm for proposals to drill or to lse Form 3160-3 (APD) for suc	6. If Indian, Allottee or Tribe Name			
abandoned well. C	Se I omi 3100-3 (Al D) for suc	п ргорозаіз.	7 1011 : 004/4	() Y	
	RIPLICATE - Other instructions on page	2	7. If Unit of CA/Agree	ment, Name and/or No.	
1. Type of Well Oil Well Gas W	ell Other		8. Well Name and No.		
2. Name of Operator	оп		9. API Well No.	9. API Well No.	
3a. Address	3b. Phone No. ((include area code)	10. Field and Pool or E	exploratory Area	
4. Location of Well (Footage, Sec., T.,R.	,M., or Survey Description)		11. Country or Parish,	11. Country or Parish, State	
12. CHEC	CK THE APPROPRIATE BOX(ES) TO INC	OICATE NATURE OF NOT	ICE, REPORT OR OTH	ER DATA	
TYPE OF SUBMISSION		TYPE OF AC	TION		
Notice of Intent	Acidize Deepe	en Prod	luction (Start/Resume)	Water Shut-Off	
	Alter Casing Hydra	nulic Fracturing Recl	lamation	Well Integrity	
Subsequent Report			omplete	Other	
Final Abandonment Notice	Change Plans Plug a Convert to Injection Plug a		porarily Abandon er Disposal		
the proposal is to deepen directional the Bond under which the work will completion of the involved operation completed. Final Abandonment Notics ready for final inspection.)	peration: Clearly state all pertinent details, in ly or recomplete horizontally, give subsurfabe perfonned or provide the Bond No. on fins. If the operation results in a multiple comices must be filed only after all requirements	ce locations and measured a le with BLM/BIA. Required pletion or recompletion in a	nd true vertical depths of I subsequent reports mus new interval, a Form 31	f all pertinent markers and zones. Attach to be filed within 30 days following 60-4 must be filed once testing has been	
4. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Title			
		Title			
Signature Date					
	THE SPACE FOR FEDE	RAL OR STATE OF	FICE USE		
Approved by					
11		Title	l.	Date Control of the C	
	ed. Approval of this notice does not warrant quitable title to those rights in the subject leaduct operations thereon.	or	,-		
	U.S.C Section 1212, make it a crime for an		Ifully to make to any dep	partment or agency of the United States	

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SESE / 490 FSL / 1065 FEL / TWSP: 22S / RANGE: 31E / SECTION: 13 / LAT: 32.385594 / LONG: -103.726397 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 100 FSL / 2200 FEL / TWSP: 22S / RANGE: 31E / SECTION: 13 / LAT: 32.38452 / LONG: -103.730076 (TVD: 10394 feet, MD: 10899 feet) PPP: SWNE / 2637 FNL / 2200 FEL / TWSP: 22S / RANGE: 31E / SECTION: 12 / LAT: 32.406035 / LONG: -103.730066 (TVD: 10394 feet, MD: 18725 feet) BHL: NWNE / 20 FNL / 2200 FEL / TWSP: 22S / RANGE: 31E / SECTION: 12 / LAT: 32.413227 / LONG: -103.730063 (TVD: 10394 feet, MD: 21343 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED
WELL NAME & NO.: TOP SPOT 12-13 FED COM 24H
SURFACE HOLE FOOTAGE: 310'/S & 1216'/E
BOTTOM HOLE FOOTAGE 20'/N & 1750'/E
LOCATION: Section 13, T.22 S., R.31 E.
COUNTY: Eddy County, New Mexico

COA

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

A. CASING

Primary Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **898** 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 **9,225**. 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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

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.
 - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 13-3/8" 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.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The **5-1/2** inch production casing shall be set at approximately **20,581**. 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.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Contingency 4S Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **898** 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
 - e. 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.
 - f. 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)
 - g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The 10-3/4 inch intermediate casing(salt string) shall be set at approximately 4,595. The minimum required fill of cement behind the 10-3/4 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 3. The **7.827** inch intermediate casing shall be set at approximately **9,225**. The minimum required fill of cement behind the **7.827** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

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.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- d. 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.
 - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7.827" 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 7.827" 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.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

4. The **5-1/2** inch production liner shall be set at approximately **20,581**. 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 200 feet into previous casing string.
 Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

(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 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Surface and intermediate**(s) **intervals**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at Eddy County: 575-361-2822.

Casing Clearance:

- Overlap clearance OK in design A
- Casing clearance variance in place for liner overlap in design B. Clearance only not met at connections. Successfully pressure tested liner top will serve as zonal isolation barrier. CBL required if pool top is across liner interval.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

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)
 - If well located in Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

 BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822
 - If well located in Lea County 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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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-P 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 part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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:

- 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. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
- e. 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.
 - a. 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).
 - b. 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.)
 - c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. 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.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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 5/21/2024

Falcon SL1 Production Casing Annular Clearance Variance Request

If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal.
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.



TenarisHydril Wedge 463®



Coupling	Pipe Body
Grade: P110-S	Grade: P110-S
Body: White	1st Band: White
1st Band: Orange	2nd Band: Orange
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.827 in.	Wall Thickness	0.500 in.	Grade	P110-S
Min. Wall Thickness	87.50 %	Pipe Body Drift	Special Drift	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	7.827 in.	Wall Thickness	0.500 in.
Nominal Weight	39.30 lb/ft	Plain End Weight	39.16 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.827 in.		

Performance	
Body Yield Strength	1266 x1000 lb
Min. Internal Yield Pressure	12,300 psi
SMYS	110,000 psi
Collapse Pressure	10,490 psi

Connection Data

8.500 in.
10.950 in.
6.814 in.
4.520 in.
3.25
Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	1266 x1000 lb
Internal Pressure Capacity	12,300 psi
Compression Efficiency	100 %
Compression Strength	1266 x1000 lb
Max. Allowable Bending	64.42 °/100 ft
External Pressure Capacity	10,490 psi
Coupling Face Load	414,177 lb

Make-Up Torques	
Minimum	22,000 ft-lb
Optimum	23,000 ft-lb
Maximum	27,000 ft-lb
Operation Limit Torques	
Operating Torque	61,000 ft-lb
Operating Torque Yield Torque	61,000 ft-lb
	·
Yield Torque	·

Notes

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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PII/CII

■Tenaris

API BTC -Special Clearance

Coupling Pipe Body Grade: I 80-IC Grade: I 80-IC

Body: Red 1st Band: Red 1st Band: Brown 2nd Band: Brown 2nd Band: -3rd Band: Pale Green 3rd Band: -4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Туре	Casing
Connection OD Option	Special Clearance				

Pipe Body Data

Geometry			
Nominal OD	10.750 in.	Drift	9.875 in.
Wall Thickness	0.400 in.	Plain End Weight	44.26 lb/ft
Nominal Weight	45.500 lb/ft	OD Tolerance	API
Nominal ID	9.950 in.		

Performance	
SMYS	80,000 psi
Min UTS	95,000 psi
Body Yield Strength	1040 x1000 lb
Min. Internal Yield Pressure	5210 psi
Collapse Pressure	2950 psi
Max. Allowed Bending	34 °/100 ft

Connection Data

Geometry	
Thread per In	5
Connection OD	11.250 in.
Hand Tight Stand Off	1 in.

Performance	
Joint Strength	1041 x1000 lb
Coupling Face Load	478 x1000 lb
Internal Pressure Capacity	4150 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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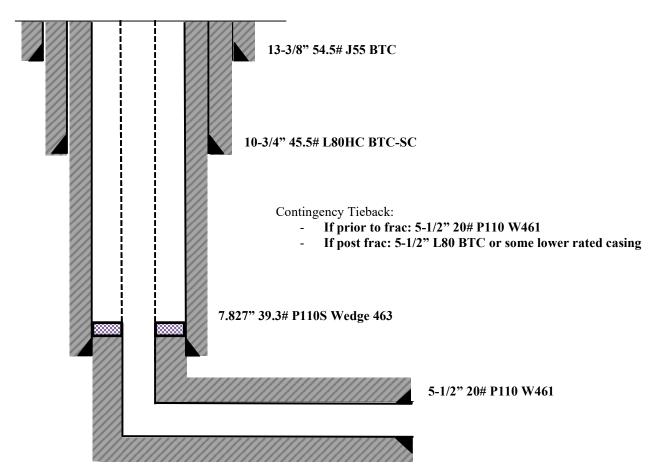
OXY USA WTP LP

4S Falcon SL1 Contingnecy Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 17-1/2" hole x 13-3/8" casing for surface section. Cement to surface.
- Drill 12-1/4" hole x 10-3/4" casing for intermediate #1 section. Cement to surface.
- Drill 9-7/8" hole x 7.827" casing for intermediate #2 section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 200' inside 7.827" shoe.
- Release drilling rig from location.
- If contingency tieback required pre-frac:
 - Move in workover rig and run a 5-1/2" 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Pump hydraulic fracture job.
 - Flowback and produce well.
- If contingency tieback required post-frac:
 - o Move in workover rig and run a 5-1/2" L80 BTC or lesser rated tie-back string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - Return well to production.

General well schematic:



Oxy USA Inc. - TOP SPOT 12_13 FED COM 24H Drill Plan

1. Geologic Formations

TVD of Target (ft):	9911	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20581	Deepest Expected Fresh Water (ft):	838

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	838	838	
Salado	1137	1137	Salt
Castile	2882	2882	Salt
Delaware	4495	4495	Oil/Gas/Brine
Bell Canyon	4553	4553	Oil/Gas/Brine
Cherry Canyon	5415	5414	Oil/Gas/Brine
Brushy Canyon	6654	6634	Losses
Bone Spring	8442	8389	Oil/Gas
Bone Spring 1st	9583	9509	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		N	ID	T\	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	898	0	898	13.375	54.5	J-55	втс
Salt	12.25	0	4595	0	4595	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	9225	0	9155	7.827	39.3	P110S	Wedge 463
Production	6.75	9025	20581	8955	9911	5.5	20	P-110	Wedge 461

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

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All Casing SF Values will meet or exceed							
those below							
SF SF Body SF Joint SF							
		•					
Collapse	Burst		Tension				

*If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
too mic provides suching.	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	11
if yes, are there strings cemented to surface?	

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3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	938	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,095	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	645	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	292	1.65	13.2	5%	6,904	Circulate	Class H+Accel., Disper., Salt
Int. 2	2	Intermediate 2S - Tail BH	887	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	654	1.84	13.3	25%	9,025	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.

Cement Top and Liner Overlap

• Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 200 ft into previous casing string

The reason for this is so that we can come back and develop shallower benches from the same 7.625"/7.827" mainbore in the future

Cement will be brought to the top of this liner hanger

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4. Pressure Control Equipment

BOP installed and		Min.					TVD Depth	
tested before drilling	Size?	Required		Туре	✓	Tested to:	(ft) per	
which hole?		WP					Section:	
		5M		Annular	✓	70% of working pressure		
				Blind Ram	✓			
12.25" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	4595	
		SIVI		Double Ram	✓	250 psi / 5000 psi		
			Other*					
		5M		Annular	✓	70% of working pressure		
				Blind Ram	✓			
9.875" Hole	13-5/8"	514	Pipe Ram			250 mai / 5000 mai	9155	
		5M	Double Ram		✓	250 psi / 5000 psi		
			Other*					
		5M		Annular	✓	70% of working pressure		
				Blind Ram	✓			
6.75" Hole	13-5/8"	5M		Pipe Ram		250 poi / 5000 poi	9911	
		SIVI		Double Ram	✓	250 psi / 5000 psi		
			Other*					

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 manifold.

^{*}Specify if additional ram is utilized

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

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

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

Y Are anchors required by manufacturer?

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

See attached schematics.

BOP Break Testing Request

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

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

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5. Mud Program

Section	Section Depth Depth - TVD		Weight	Weight Viscosity				
Section	From (ft)	To (ft)	From (ft)	To (ft)	Type	(ppg)	Viscosity	Loss
Surface	0	898	0	898	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	898	4595	898	4595	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4595	9225	4595	9155	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	9225	20581	9155	9911	Water-Based or Oil- Based Mud	8.0 - 9.6	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, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	PV1/IVID TOLCO/VISUAL IVIOLITICOTING

6. Logging and Testing Procedures

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

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

Occidental - Permian New Mexico

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4948 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	160°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 zonal

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.

L		==	
	Ν	H2S is present	
	Υ	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 6 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.	
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.	

Total Estimated Cuttings Volume: 1748 bbls

Production Casing Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from 43 CFR part 3170 Subpart 3172 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Offline Cementing Variance 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.

1. Cement Program

No changes to the cement program will take place for offline cementing.

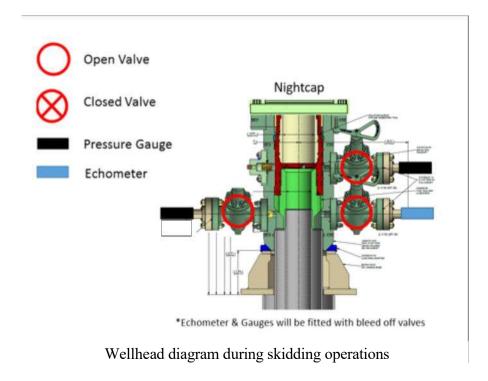
2. Offline Cementing Procedure

The operational sequence will be as follows:

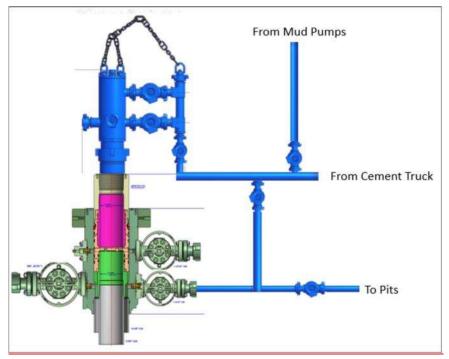
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi

Annular packoff with both external and internal seals





- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50 psi compressive strength if cannot be verified.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3^{rd} party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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

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.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1) Wellhead flange, co-flex hose, check valve, upper pipe rams

See supporting information below:

Subject: Request for a Variance Allowing Break Testing of a Blowout Preventer Stack

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads. This practice entails retesting only the connections of the **BOP** stack that have been disconnected during this operation and not a complete **BOP** test.

Background

43 CFR part 3170 Subpart 3172 states that a **BOP** test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) is this requires a complete **BOP** test and not just a test of the affected component. 43 CFR part 3170 Subpart 3172, Section I.D.2. states, "Some situations may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this Order. This situation can be resolved by requesting a variance...". OXY feels the practice of break testing the **BOP** stack is such a situation. Therefore, as per 43 CFR part 3170 Subpart 3172, Section IV., OXY submits this request for the variance.

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **BLM** continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procldure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53,

Blowout Prevention Equipment Systems for Drilling Wells (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations. BSEE issued new offshore regulations under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*, which became effective on July 28, 2016. Section 250.737(d.1) states "Follow the testing requirements of API Standard 53". In addition, Section 250.737(d.8) has adopted language from **API** Standard 53 as it states "Pressure test affected **BOP** components following the disconnection or repair of any well-pressure containment seal in the wellhead or **BOP** stack assembly".

Break testing has been approved by the BLM in the past. See the Appendix for a Sundry Notice that was approved in 2015 by the Farmington Field Office. This approval granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads.

Oxy feels break testing and our current procedures meet the intent of 43 CFR part 3170 Subpart 3172 and often exceed it. We have not seen any evidence that break testing results in more components failing tests than seen on full BOP tests. As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often. Therefore, there are more opportunities to ensure components are in good working order. Also, Oxy's standard requires complete BOP tests more often than that of 43 CFR part 3170 Subpart 3172. In addition to function testing the annular at least weekly and the pipe and blind rams on each trip, Oxy also performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of 43 CFR part 3170 Subpart 3172.

Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing (See Appendix for examples)
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the 30-day BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - > Between the check valve and the kill line
 - ➤ Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - > Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 8) A shell teit is performed against the upper pipe rams testing all thlee breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

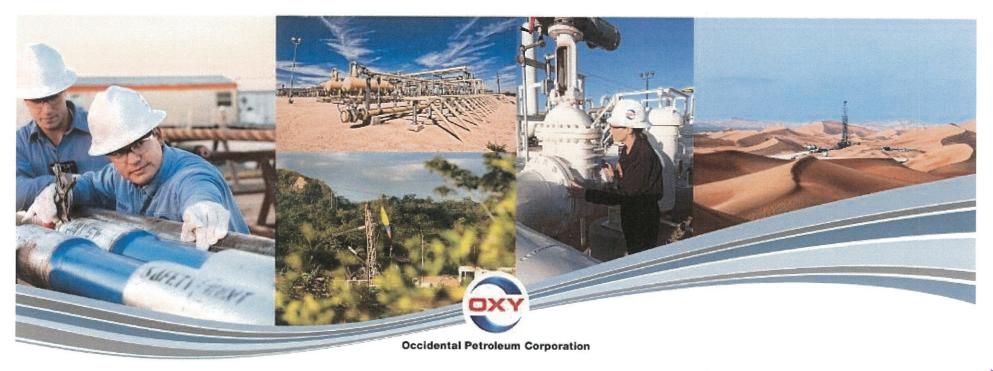
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

OXY requests a variance to allow break testing of the BOP stack when skidding drilling rigs between wells on multi-well pads. API standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry and the BLM. API Standard 53 recognizes break testing as an acceptable practice and BSEE adopted language from this standard into its newly created 30 CFR Part 250 which also supports break testing. Due to this, OXY feels this request meets the intent of 43 CFR part 3170

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Request for Variance

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads

- This practice entails retesting only the connections of the BOP stack that have been disconnected during this operation and not a complete BOP test.
- As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested, no further testing of the manifold is done until the next full BOP test.
- This request is being made as per Section IV of the Onshore Oil and Gas Order (OOGO) No. 2

Rationale for Allowing BOP Break Testing

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry

- (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break API Standard 53, Blowout Prevention Equipment Systems for Drilling Wells testing as an acceptable practice.
- Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the BOP stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."



Rationale for Allowing BOP Break Testing

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

- BSEE issued new offshore regulations in July 2016 under 30 CFR Part 250, Oil Preventer Systems and Well Control. Within these regulations is language and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout adopted from API Standard 53 which also supports break testing.
- components following the disconnection or repair of any well-pressure Specifically, Section 250.737(d.8) states "Pressure test affected BOP containment seal in the wellhead or BOP stack assembly."



Rationale for Allowing BOP Break Testing

Break testing has been approved by the BLM in the past

- The Farmington Field Office approved a Sundry Notice (SN) to allow break testing
- This SN granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads

Oxy feels break testing and our current procedures meet or exceed the intent of OOGO

- BOP shell and components such as the pipe rams and check valve get tested to As skidding operations take place within the 30-day full BOPE test window, the the full rated working pressure more often
- Oxy's standard requires complete BOP tests more often than that of OOGO No. 2
- training is a vital part of well control, this procedure to simulate step one of the - Oxy performs a choke drill prior to drilling out every casing shoe. As a crew's Driller's Method exceeds the requirements of OOGO No. 2



Break Testing Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing
- OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the full BOP test window 5
- After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP. 3
 - Between the check valve and the kill line
- Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- The BOP is then lifted and removed from the wellhead by the hydraulic winch system 4
- After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed 2
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed

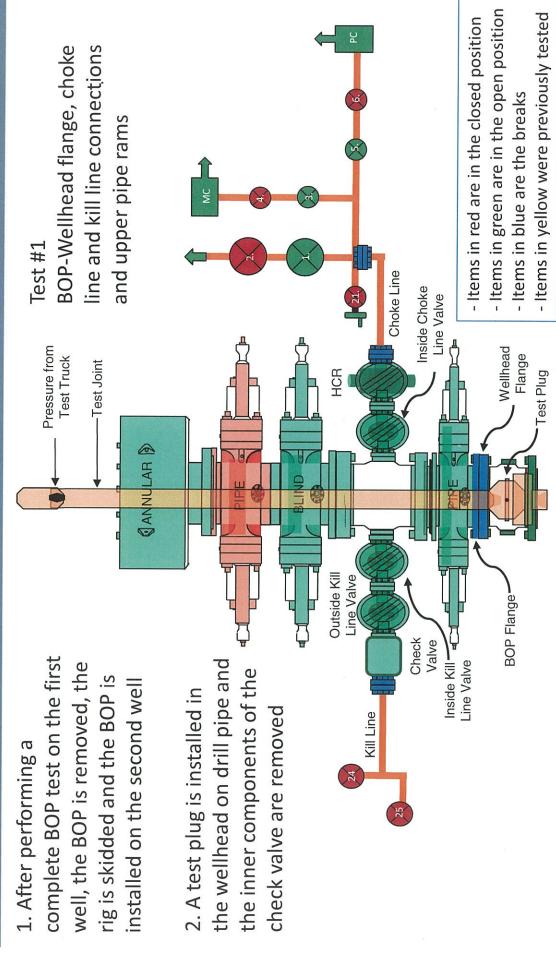


Break Testing Procedures

- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10)These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the first break test will be tested

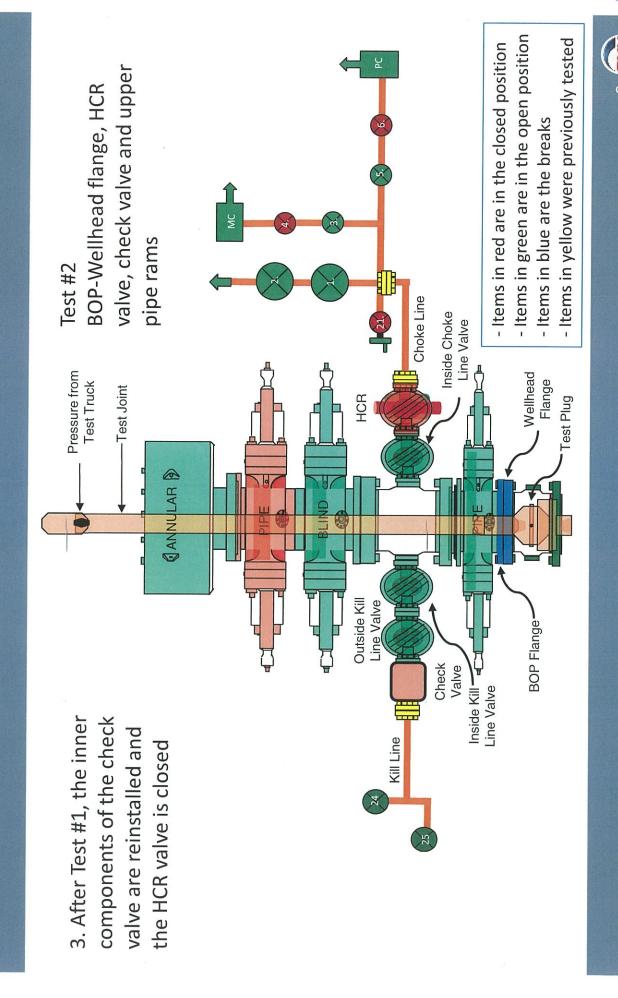


Break Testing Procedures and Tests

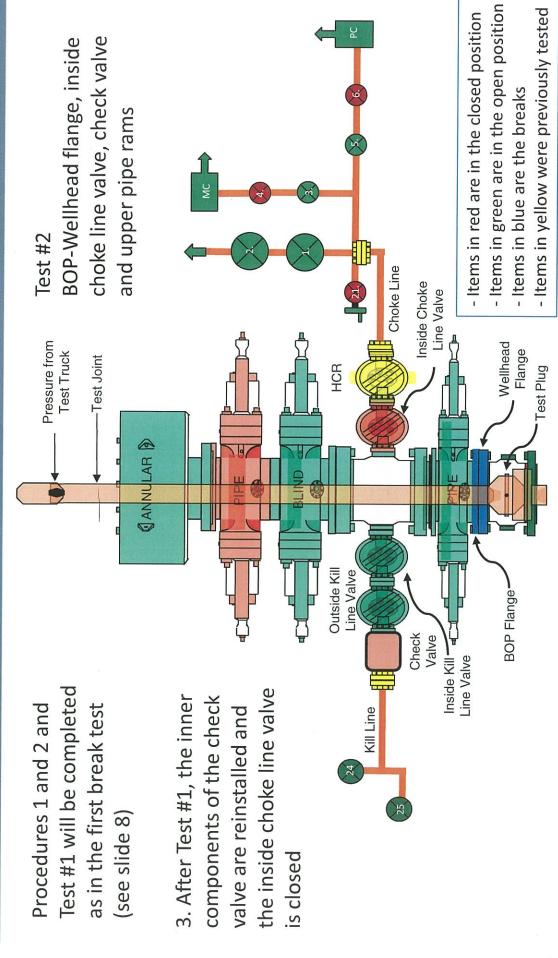




Break Testing Procedures and Tests



Second Break Testing Procedures and Tests



()

BOP standing in its carrier



system which

BOP Handling System

12

Wellhead

BOP Handling System

system moving the BOP over to the wellhead

Hydraulic winch

Summary for Variance Request for Break Testing

- API standards, specifications and recommended practices are considered industry standards
- OOGO No. 2 recognized API Recommended Practices (RP) 53 in its original development
- API Standard 53 recognizes break testing as an acceptable practice
- standards, specifications and best practices in the development of its offshore The Bureau of Safety and Environmental Enforcement has utilized API oil and gas regulations
- API Standard 53 recognizes break testing as an acceptable practice
- OXY feels break testing meets the intent of OOGO No. 2 to protect public health and safety and the environment



Certificate of Conformity



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

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

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

30 RECERTIFICATION

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

70024

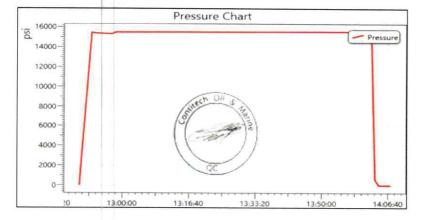
10,000

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



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SERIAL #:

:YTITNAUD

Gates Engineering & Services North America

Houston, TX. 77086 7603 Prairie Oak Dr.

PHONE: (281) 602-4119

:XA7

EMAIL: Troy.Schmidt@gates.com

CERTIFICATE OF CONFORMANCE

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

SALES ORDER #:	786915
	CLAMPS
PART DESCRIPTION:	RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE
-IAOITRICARIONI-	ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155
/	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL
CUSTOMER P/N:	JOKER3.012.0CK411610KFIXXFLT SSA SC LE
:#.O.9 283MOTZUO	4128128 (RIG 1 PO 002773)
CUSTOMER:	A-A AUSTIN INC DBA AUSTIN HOSE

H2-112019-4

:3TAG 11/20/2019 :3JTIT **QUALITY ASSURANCE SIGNATURE:**



Houston, TX 7086 7603 Prairie Oak Dr. GATES ENGINEERING & SERVICES NORTH AMERICA

4128128 (RIG 1 PO 002773) Hose Serial No.: **BEOH NITZUA ABO DNI NITZUA V-A** Test Date:

Created By:

Working Pressure: Test Pressure: Assembly Code:

: 9160 Production:

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

: aumeuőis

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

SIØZ/OZ/TT YTIJAUD

management system.

CUSTOMER P/N:

Oracle Star No.:

Product Description:

:1 gnitting 1:

Invoice No.:

Customer:

Customer Ref.:

F-PRD-005

: andengi2

: ested

Quality:

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

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates Gates Engineering & Services North America certifies that:

10KFR3.012.0CK411610KF1XXFLT SSA SC LE 6246486-01000689 4 1/10 10K FLANGES FIXED

286915

End Fitting 2:

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

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

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

PRESSURE TEST CERTIFICATE

www.gates.com

EMAIL: Troy.Schmidt@gates.com

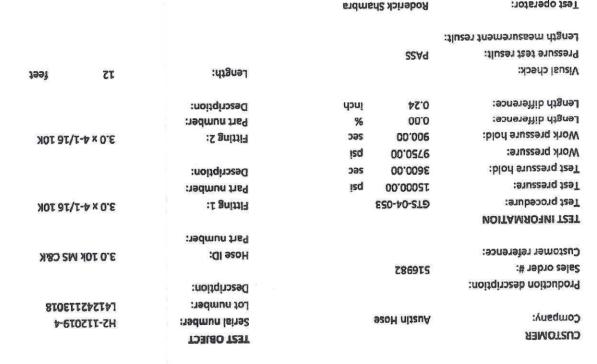
PHONE: (281) 602 - 4119

Page 1/2

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TEST REPORT

GAUGE TRACEABILITY

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5050-03-12	2019-03-17	TTOPMCTO	W-A-25-8
2020-04-14	91-40-6102	TTOVBOSK	W-A-2S-2
			Comment

Page 2/2

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Certificate of Conformance

DM INDUSTRIES INC.

Houston, TX 77087 **6287 Long Drive**

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

NAMER UNIONS	C\M CE 3,, TO'000 bei M	OA-5640-4815-		Customer Part Number:	Purchase
0707/97/70	Assembly Date:	τ		CTY Ordered:	ise Ora
OSS620DW-2	Serial Number:	₽-2001-S184-0495-AO		DW Industries Part Number:	ler Info
20020163	DW Industries Work Order Number:	CONTACT PAUL HOFFMAN FOR		Customer Purchase Order Number:	Order Information
	PAUL HOI	CITADEL DRILLING Customer Contact:		CITADEL	Customer Name:

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

Certificate Issue Date: 2/27/2020

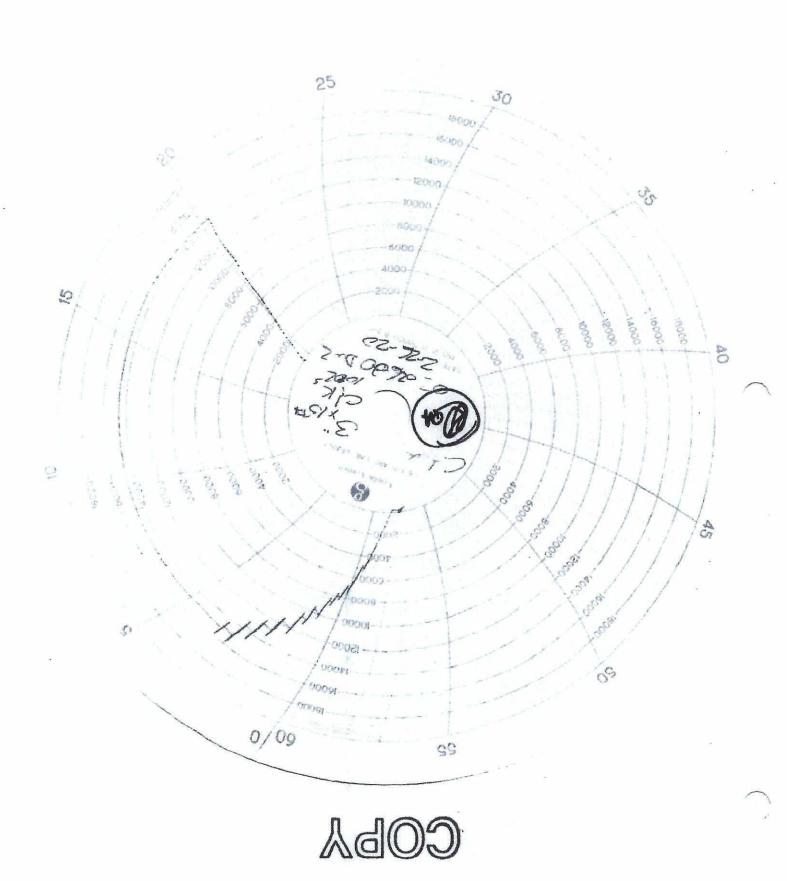
Carrett Crawford, Director of Quality

DW Industries Inc.

Page 56 of 99

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

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Certificate of Conformance

COBA

DW INDUSTRIES INC.
Houston, TX 77087

7964-4947 XF	Z7E8-448 E17 .l9T

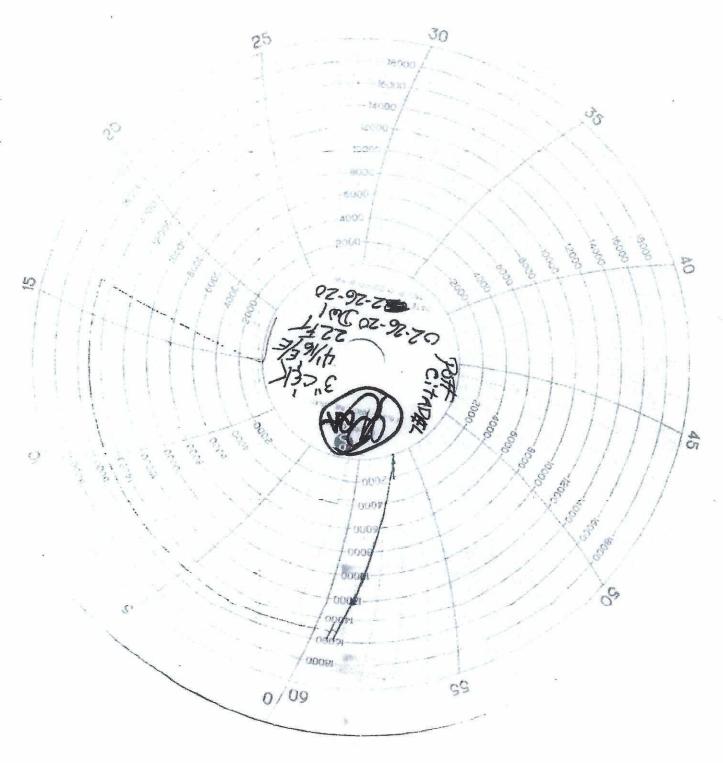
SEDNAJA TAOJA	3". 10,000 psi W	Part Description:	1 A S640-4822-4- Part Description		Purcha
0202/92/20	:91sG yldm922A	T		CITY Ordered:	se Orc
O22620DW-1	Serial Number:	OA-5640-4822-4-1/16FXFL-ALE		DW Industries Part Number:	ler Info
70020164	Order Number:	SONTACT PAUL HOFFMAN FOR INFO		Customer Purchase Order Number:	Purchase Order Information
	PAUL HOP Las-264	Customer Contact:	CITADEL DRILLING		Customer Name:

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

Certificate Issue Date: 2/27/2020

Garrett Crawford, Director of Quality

DW Industries Inc.



COBA

Certificate of Conformance

DW INDUSTRIES INC.

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

\draw EIC 602 MX	u d"XI2d" 3K M [^]	Customer Part Number:		Purchase	
1/57/2023	Steembly Date:		τ	QTY Ordered:	se Ord
23010065	Serial Number:	Z09-"42148-8£0229-AO		DW Industries Part Number:	ler Info
23010065	DW Industries Work Order Number:	∠∠6⊅0∠00		Customer Purchase Order Number:	Order Information
ARE	וחםג דכ	Contamer:	SOH MITOSA		Ustomer Name:

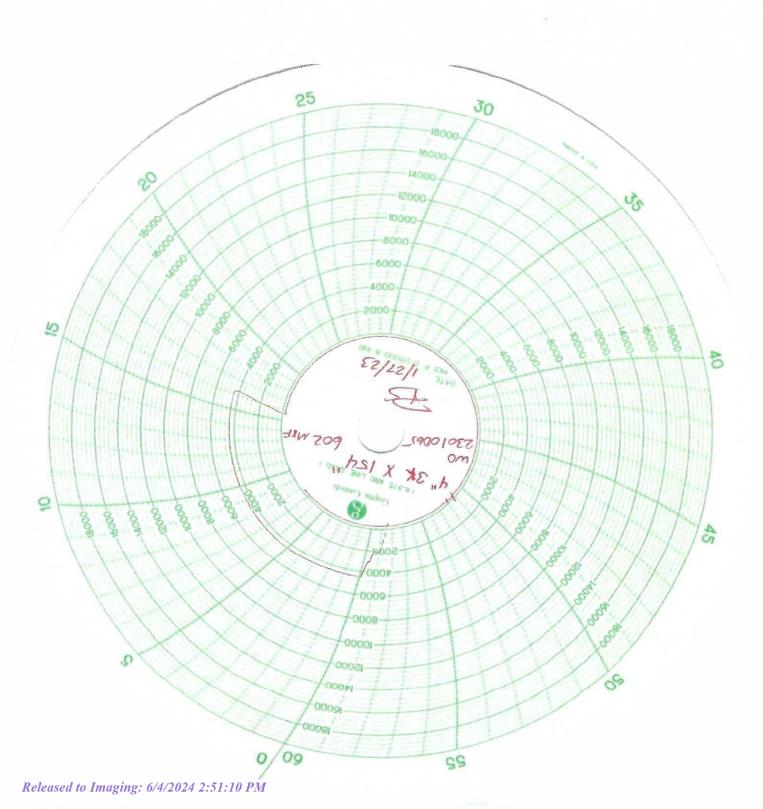
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS,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

Certificate Issue Date: 1/27/2023

D. Sun Giller

Quality Assurance, DW Industries, Inc.

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IN SERVICE 12-20-21



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

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

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

PRESSURE TEST CERTIFICATE

Customer:

A-7 AUSTIN INC DBA AUSTIN HOSE

10/15/2021

Customer Ref.:

00595477

Hose Serial No.:

H3-101521-2

Invoice No.:

521925

Created By:

Test Date:

Micky Mhina

Product Description:

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

End Fitting 1:

Oracle Star No.:

CUSTOMER P/N:

4 1/16 10K FIXED FLANGE 68703010-10074881

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

End Fitting 2: Assembly Code:

Test Pressure:

Working Pressure:

4 1/16 10K FLOAT HEAT TREATED FLANGES L41975 091719

> 15,000 PSI. 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:

Date:

Signature:

QUALITY

10/15/2021 nkul Production:

Date:

Signature:

PRODUCTION

10/15/2021

Revision 6_05032021

F-PRD-005B



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

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

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

CERTIFICATE OF CONFORMANCE

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

CUSTOMER:

A-7 AUSTIN INC DBA AUSTIN HOSE

CUSTOMER P.O.#:

00595477

CUSTOMER P./N.#:

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

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

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

STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

SALES ORDER #:

521925

QUANTITY:

1

SERIAL #:

H3-101521-2

SIGNATURE:	Minya wnw	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	



H3-6963

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TEST REPORT

CUSTOMER

Company:

Sales order #:

Austin Distributing

TEST OBJECT

Serial number:

Lot number:

H3-101521-2 L41975091719

Description:

Hose ID:

3" 10k ck

Part number:

TEST INFORMATION

Customer reference:

Production description:

Test procedure:

Test pressure:

Test pressure hold: Work pressure:

Work pressure hold: Length difference:

Length difference:

3600.00 10000.00 900.00

GTS-04-053

15000.00

521925

sec % inch

psi

sec

psi

0.00 0.00 Fitting 1:

Part number:

Description:

Fitting 2:

Length:

Part number:

Description:

3.0 x 4-1/16 10K

35

feet

3.0 x 4-1/16 10K

Visual check:

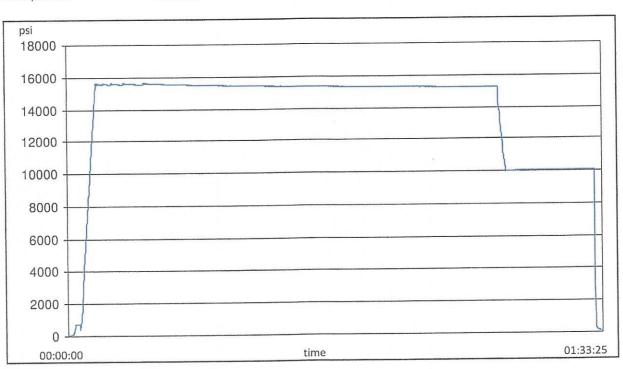
Pressure test result:

PASS

Length measurement result:

Test operator:

francisco





H3-6963

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TEST REPORT

GAUGE TRACEABILITY

Serial number Calibration date Calibration due S-25-A-W 110AQA1S 2021-02-24 2022-02-24 S-25-A-W 110D3PHQ 2021-03-11 2022-03-11
S-25-A-W 110D3PHO 2021-03-11 2022-02-11
3-23-A-W 110D3PHQ 2021-03-11 2022-03-11
Comment

Hydrostatic Test Certificate

Hydrostatic Test Certifi	cate	ContiTech
Certificate Number H100163	COM Order Reference 1429702 740382384	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE
Customer Purchase Order No:	1400000	TULSA, OK 74119 USA
Project:		Accepted by Client Inspection
Test Center Address	Accepted by COM Inspection Gerson Mejia-Lazo	
ContiTech Oll & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed: Date: 07/14/22	Lie the heat of Olif

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

Item	knowledge are foun	Description	Qnty	Serial Number	Work, Press. (psi)	Test Press. (psi)	Test Time (minutes)	-
			4	70025	10,000	15,000	60	

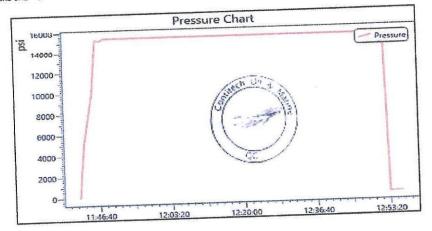
RECERTIFICATION

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

70025

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

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



RECERTIFICATION

50

intinent

Certificate of Conformity

Certificate of Como	illity	ContiTech
Certificate Number	COM Order Reference	Customer Name & Address
H100163	1429702	HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	740382384	1434 SOUTH BOULDER AVE
Customer I di cinado a la cinado		TULSA, OK 74119
Project:		USA
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp.	Gerson Mejia-Lazo	73
11535 Brittmoore Park Drive	Signed:	
Houston, TX 77041	2 1 1744100	
IUSA	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
1	L				

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

70025

ContiTech Standard

ARMORED CHOKE HOSE

TOSANHAL

4-29-22.



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 120 / 2019

Page: 16/91

ContiTech

QUAL INSPECTION A	ITY CON		ATE		CERT. N	lo:	75819	
PURCHASER:	ContiTech (Oil & Marine (Corp.		P.O. N°:		4501225327	
CONTITECH RUBBER order N°	ID		Choke an	d Kill Hose				
HOSE SERIAL N°:	75819	NOMINAL / AC	TUAL LE	NGTH:		10,67 r	n / 10,68 m	
W.P. 69,0 MPa 10	T.P. 103,5	MPa	1500	00 psi	Duration:	60	min.	
Pressure test with water at ambient temperature See attachment (1 page)								
COUPLINGS Typ	е	Seria	l Nº	T	Qua	ality	Heat N°	
3" coupling with	1	602	26		AISI	4130	A0607J	
4 1/16" 10K API Swivel F	lange end				AISI	4130	040841	
Hub					AISI	4130	54194	
3" coupling with	1	601	16		AISI	4130	A0607J	
4 1/16" 10K API b.w. Fla	ange end			AISI 4130			4130 040431	
Not Designed For Wo	Not Designed For Well Testing API Spec 16 C 2 nd Edition—FSL2 Temperature rate: "B"							
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE TO						H THE TERM	IS OF THE ORDER	
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					ol Coz	ntiTech Rub adustrial Ki lity Control I	2	5



Prepared by	C	Cristian Rivera		Date:	8/27/2022		QIN:	N/A	
Customer: HELMERICH & PAYNE, INC			Location:	H&P INT	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALEN PARK,TX,77547-2738			4	
User contact: MITCH MCKINNIS Ph		Phone:	e-mail: <u>mitch.mckinnis@h</u>			oinc.com			
Paramet		ete	ers	•	Н	ose Deta	ils	Test Status	
	PO		740398454 (88000240 SN:70035)						
		Gates SO			525035				
		Serial #:			88000240 SN:70035				
		As Tested Seria	al:		H2-082722-1 RE-TEST				
Hose ID:				3 IN					
Hose type:			INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END						
Application								D 4 6 6	
Information Working pressure: 1			10000 PSI.	•			PASS		

1. Visual Examination

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

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

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

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

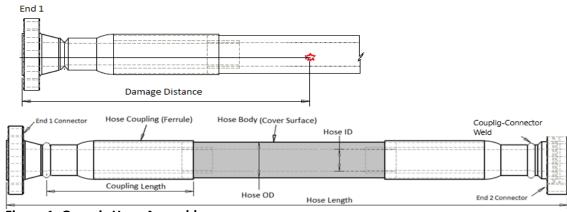


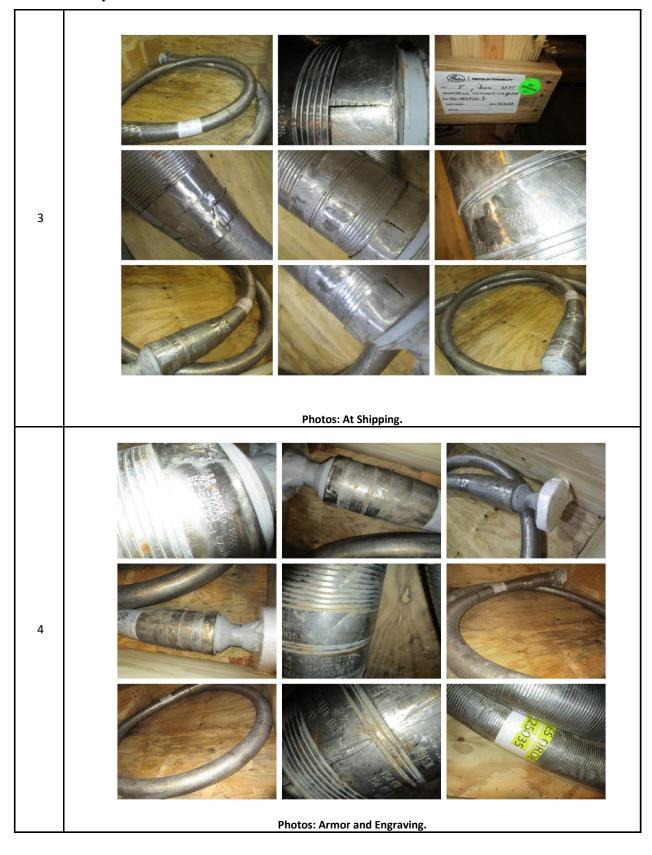
Figure 1: Generic Hose Assembly







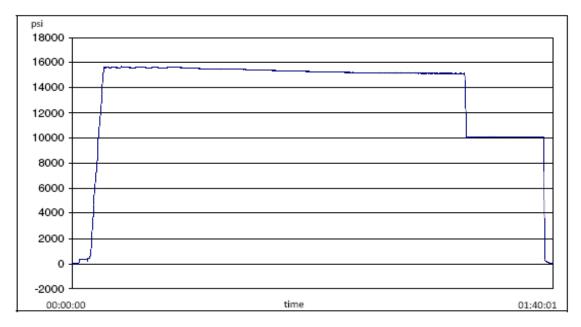








2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

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

2.2 **Gates Hydrostatic Pressure tester**

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



2.3 Hydro Static Test Pressure results

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

Note:

1. Hydrostatic Pressure report is given in Appendix 1

3. Hose borescope inspection

3.2 Internal Failure Details

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





Photos: Liner/Coupling Interface END 1

F-ENG-001 Page: 5 of 9 Revision_0_042419





Photos: Liner/Coupling Interface END 2

<u>Note</u>

Borescope completed? Yes

4. Summary

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

F-ENG-001 Page: 6 of 9 Revision_0_042419



APPENDIX 1: Pressure Chart



H2-8316

8/27/2022 8:51:22 AM

TEST REPORT

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

Length:

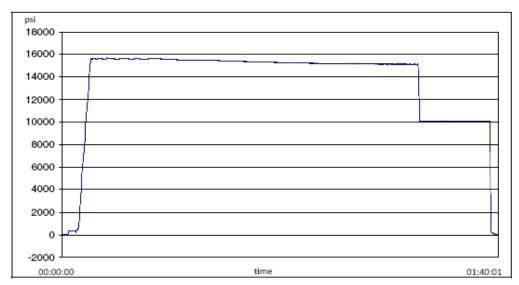
35

feet

Visual check: PASS Pressure test result:

Length measurement result:

Test operator: Martin



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





H2-8316

8/27/2022 8:51:22 AM **TEST REPORT**

GAUGE TRACEABILITY

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

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



APPENDIX 2: Certificate of Conformance



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr.

Houston, TX. 77086

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

CERTIFICATE OF CONFORMANCE

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

CUSTOMER:

HELMERICH & PAYNE, INC

CUSTOMER P.O.#:

740398454 (88000240 | SN:70035)

CUSTOMER P/N:

88000240 | SN:70035

PART DESCRIPTION:

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

FLANGES BX155 RING GROOVE EACH END

SALES ORDER #:

525035

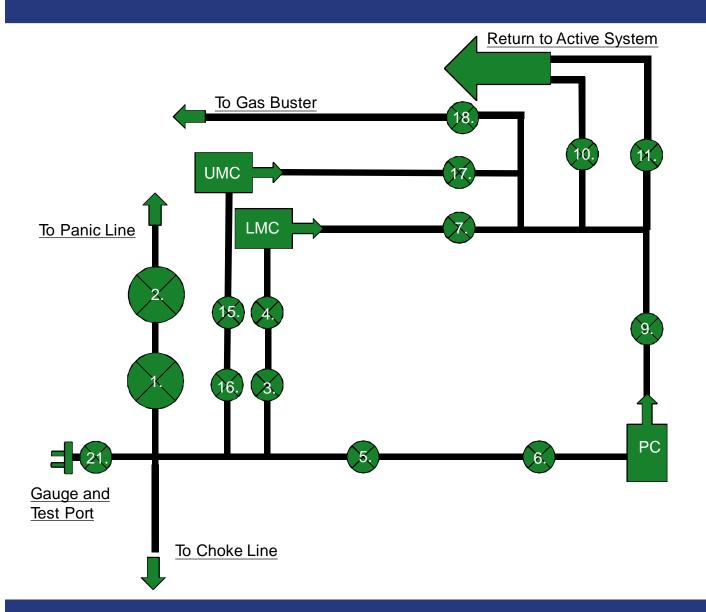
QUANTITY: SERIAL #:

H2-082722-1 RE-TEST

IGNATURE:	(River c	
TITLE:	QUALITY ASSURANCE	
DATE:	8/27/2022	

F-ENG-001 Page: 9 of 9 Revision_0_042419

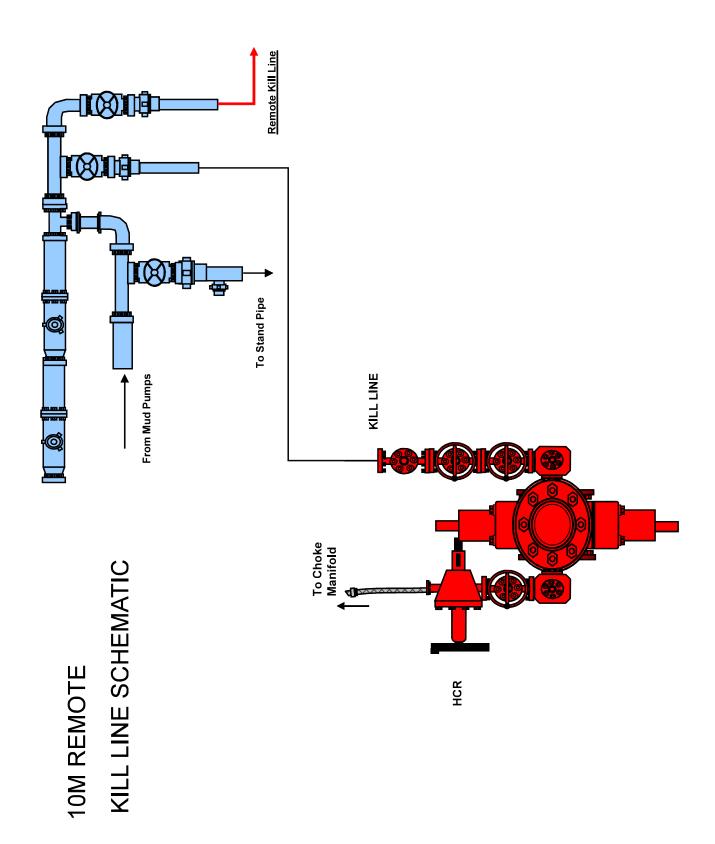
10M Choke Panel

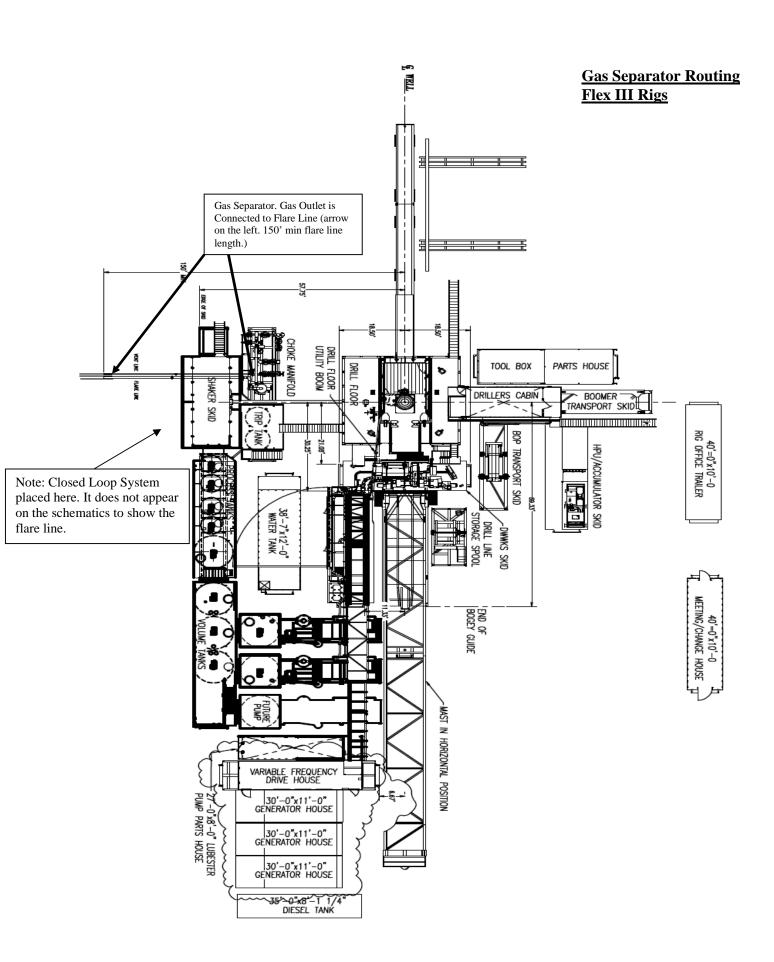


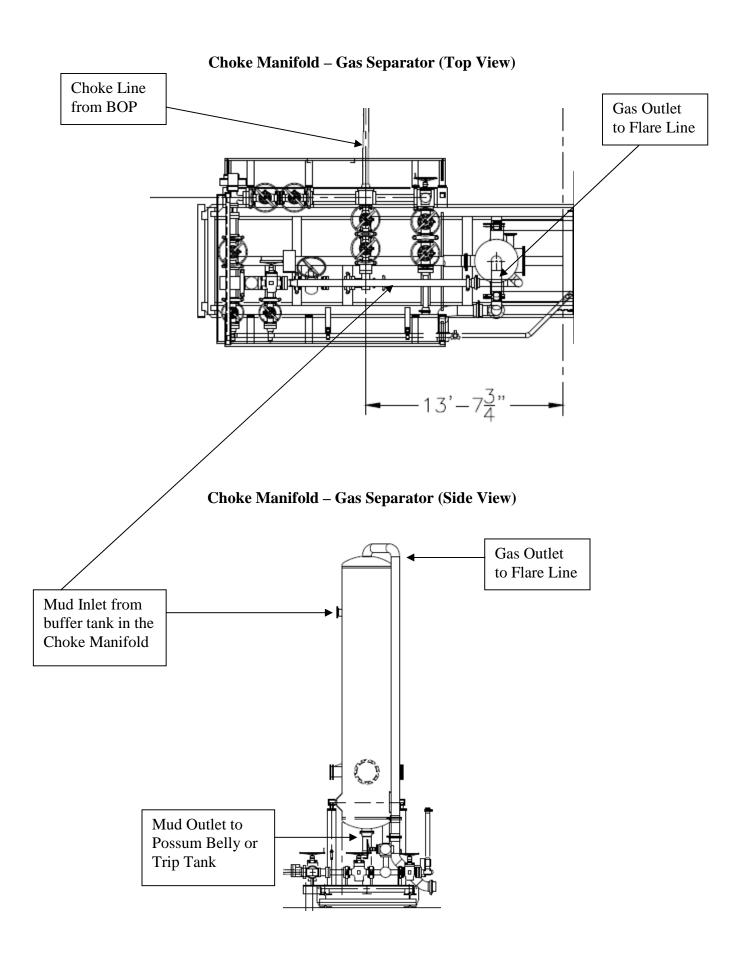
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual Choke
- 13. UMC Upper manual choke
- 15. Choke Manifold Valve
- 16. Choke Manifold Valve
- 17. Choke Manifold Valve
- 18. Choke Manifold Valve
- 21. Vertical Choke Manifold Valve

*All Valves 3" minimum









TenarisHydril

5.500" 20.00 lb/ft P110-CY TenarisHydril Wedge 461™ Matched Strength



Special Data Sheet TH DS-20.0359 12 August 2020 Rev 00

Nominal OD	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min Wall Thickness	87.5%	Туре	CASING	Connection OD Option	MATCHED STRENGTH
Pipe Body Data					
Geometry				Performance	
Nominal OD	5.500 in.	Nominal ID	4.778 in.	Body Yield Strength	641 x 1000 lbs
Nominal Weight	20.00 lbs/ft	Wall Thickness	0.361 in.	Internal Yield	12640 psi
Standard Drift Diameter	4.653 in.	Plain End Weight	19.83 lbs/ft	SMYS	110000 psi
Special Drift Diameter	N/A	OD Tolerance	API	Collapse Pressure	11110 psi
Connection Data					
Geometry		Performance		Make-up Torques	
Matched Strength OD	6.050 in.	Tension Efficiency	100%	Minimum	17000 ft-lbs
Make-up Loss	3.775 in.	Joint Yield Strength	641 x 1000 lbs	Optimum	18000 ft-lbs
Threads per in.	3.40	Internal Yield	12640 psi	Maximum	21600 ft-lbs
Connection OD Option	MATCHED STRENGTH	Compression Efficiency	100%	Operational Limit Torques	;
Coupling Length	7.714 in.	Compression Strength	641 x 1000 lbs	Operating Torque	32000 ft-lbs
		Bending	92 °/100 ft	Yield Torque	38000 ft-lbs
		Collapse	11110 psi	Buck-On Torques	
				Minimum	21600 ft-lbs
				Maximum	23100 ft-lbs

Notes

^{*}If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

PRD NM DIRECTIONAL PLANS (NAD 1983) Top Spot 12_13 Fed Com Top Spot 12_13 Fed Com 24H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

25 March, 2024

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

 Site:
 Top Spot 12_13 Fed Com

 Well:
 Top Spot 12_13 Fed Com 24H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: RKE
MD Reference: RKE

North Reference: Survey Calculation Method: Well Top Spot 12_13 Fed Com 24H

RKB=25' @ 3608.60ft RKB=25' @ 3608.60ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983

Map Zone: North American Datum 1983
New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

Site Top Spot 12_13 Fed Com

 Site Position:
 Northing:
 514,494.39 usft
 Latitude:
 32.413000

 From:
 Map
 Easting:
 725,461.56 usft
 Longitude:
 -103.736677

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Top Spot 12_13 Fed Com 24H

Well Position +N/-S 0.00 ft 504.361.29 usf Latitude: 32.385099 Northing: +E/-W 728,540.92 usf -103.726885 0.00 ft Easting: Longitude: **Position Uncertainty** 2.00 ft Wellhead Elevation: 0.00 ft **Ground Level:** 3,583.60 ft

Grid Convergence: 0.32 °

Wellbore Wellbore #1

Magnetics Model Name Sample Date Declination Dip Angle Field Strength

(°) (°) (nT)

HDGM_FILE 1/16/2024 6.37 59.98 47,568.80000000

Design Permitting Plan

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.00

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

1.10 0.00 0.00 356.71

Plan Survey Tool Program Date 3/25/2024

Depth From Depth To

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

0.00 20,581.09 Permitting Plan (Wellbore #1) B001Mc_MWD+HRGM_R5

MWD+HRGM

Plan Sections Measured Vertical Dogleg Build Turn Depth Depth +N/-S Inclination Azimuth +E/-W Rate Rate Rate **TFO** (ft) (ft) (°/100ft) (°/100ft) (°/100ft) (ft) (°) (°) (ft) (°) **Target** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4,810.00 0.00 0.00 4,810.00 0.00 0.00 0.00 0.00 0.00 0.00 5,910.20 216.87 5,903.45 -84.25 -63.18 1.00 1.00 0.00 216.87 11.00 9,324.62 11.00 216.87 9,255.12 -605.56 -454.13 0.00 0.00 0.00 0.00 10,312.09 90.00 359.70 9.910.70 -39.68 -534.15 10.00 8.00 14 46 142 32 20,581.09 90.00 359.70 9,910.70 10,229.17 -588.77 0.00 0.00 0.00 0.00 PBHL (Top Spot

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Top Spot 12_13 Fed Com
Well: Top Spot 12_13 Fed Com 24H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Top Spot 12_13 Fed Com 24H

RKB=25' @ 3608.60ft RKB=25' @ 3608.60ft

Grid

esign:	. cg	Permitting Plan										
lanned Survey												
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00			
500.00	0.00		500.00					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			
,		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	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00			
4,500.00	0.00	0.00	4.500.00	0.00	0.00	0.00	0.00	0.00	0.00			
4.600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00			
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00			
4.800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00			
4,810.00	0.00	0.00	4,810.00	0.00	0.00	0.00	0.00	0.00	0.00			
4,900.00	0.90	216.87	4,900.00	-0.57	-0.42	-0.54	1.00	1.00	0.00			
5,000.00	1.90	216.87	4,999.97	-2.52	-1.89	-2.41	1.00	1.00	0.00			
5,100.00	2.90	216.87	5,099.88	-5.87	-4.40	-5.61	1.00	1.00	0.00			
5,200.00	3.90	216.87	5,199.70	-10.61	-7.96	-10.14	1.00	1.00	0.00			
5,300.00	4.90	216.87	5,299.40	-16.75	-12.56	-16.00	1.00	1.00	0.00			

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

 Site:
 Top Spot 12_13 Fed Com

 Well:
 Top Spot 12_13 Fed Com 24H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Top Spot 12_13 Fed Com 24H

RKB=25' @ 3608.60ft RKB=25' @ 3608.60ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	5.90	216.87	5,398.96	-24.28	-18.21	-23.19	1.00	1.00	0.00
5,500.00	6.90	216.87	5,498.33	-33.20	-24.90	-31.71	1.00	1.00	0.00
5,600.00 5,700.00	7.90 8.90	216.87 216.87	5,597.50 5,696.43	-43.50 -55.19	-32.62 -41.39	-41.56 -52.72	1.00 1.00	1.00 1.00	0.00 0.00
5,800.00	9.90	216.87	5,795.08	-68.26	-41.39 -51.19	-52.72 -65.20	1.00	1.00	0.00
5,900.00	10.90	216.87	5,893.44	-82.70	-62.02	-79.00	1.00	1.00	0.00
5,910.20	11.00	216.87	5,903.45	-84.25	-63.18	-80.48	1.00	1.00	0.00
6,000.00	11.00	216.87	5,991.60	-97.96	-73.46	-93.58	0.00	0.00	0.00
6,100.00	11.00	216.87	6,089.76	-113.23	-84.91	-108.16	0.00	0.00	0.00
6,200.00	11.00	216.87	6,187.93	-128.49	-96.36	-122.75	0.00	0.00	0.00
6,300.00	11.00	216.87	6,286.09	-143.76	-107.81	-137.33	0.00	0.00	0.00
6,400.00	11.00	216.87	6,384.25	-159.03	-119.26	-151.91	0.00	0.00	0.00
6,500.00 6,600.00	11.00	216.87 216.87	6,482.41 6,580.57	-174.30 -189.57	-130.71 -142.16	-166.50 -181.08	0.00 0.00	0.00 0.00	0.00 0.00
6,700.00	11.00 11.00	216.87	6,580.57 6,678.74	-189.57 -204.83	-142.16 -153.61	-181.08 -195.67	0.00	0.00	0.00
6,800.00	11.00	216.87	6,776.90	-220.10	-165.06	-210.25	0.00	0.00	0.00
6,900.00	11.00	216.87	6,875.06	-220.10	-176.51	-210.25 -224.84	0.00	0.00	0.00
7,000.00	11.00	216.87	6,973.22	-250.64	-187.96	-239.42	0.00	0.00	0.00
7,100.00	11.00	216.87	7,071.38	-265.91	-199.41	-254.01	0.00	0.00	0.00
7,200.00	11.00	216.87	7,169.55	-281.17	-210.86	-268.59	0.00	0.00	0.00
7,300.00	11.00	216.87	7,267.71	-296.44	-222.31	-283.18	0.00	0.00	0.00
7,400.00	11.00	216.87	7,365.87	-311.71	-233.76	-297.76	0.00	0.00	0.00
7,500.00	11.00	216.87	7,464.03	-326.98	-245.21	-312.35	0.00	0.00	0.00
7,600.00	11.00	216.87	7,562.19	-342.25	-256.66	-326.93	0.00	0.00	0.00
7,700.00	11.00	216.87	7,660.36	-357.51	-268.11	-341.52	0.00	0.00	0.00
7,800.00	11.00	216.87	7,758.52	-372.78	-279.56	-356.10	0.00	0.00	0.00
7,900.00	11.00	216.87	7,856.68	-388.05	-291.01	-370.69	0.00	0.00	0.00
8,000.00	11.00	216.87	7,954.84	-403.32	-302.46	-385.27	0.00	0.00	0.00
8,100.00	11.00	216.87	8,053.00	-418.59	-313.91	-399.86	0.00	0.00	0.00
8,200.00	11.00	216.87	8,151.17	-433.85	-325.36	-414.44	0.00	0.00	0.00
8,300.00	11.00	216.87	8,249.33	-449.12	-336.81	-429.03	0.00	0.00	0.00
8,400.00 8,500.00	11.00 11.00	216.87 216.87	8,347.49 8,445.65	-464.39 -479.66	-348.26 -359.71	-443.61 -458.20	0.00 0.00	0.00 0.00	0.00 0.00
8,600.00	11.00	216.87	8,543.81	-494.93	-371.16	-436.20 -472.78	0.00	0.00	0.00
8,700.00	11.00	216.87	8,641.98	-510.19	-382.61	-487.37	0.00	0.00	0.00
8,800.00	11.00	216.87	8,740.14	-525.46	-394.06	-501.95	0.00	0.00	0.00
8,900.00	11.00	216.87	8,838.30	-540.73	-405.51	-516.53	0.00	0.00	0.00
9,000.00	11.00	216.87	8,936.46	-556.00	-416.96	-531.12	0.00	0.00	0.00
9,100.00	11.00	216.87	9,034.63	-571.27	-428.41	-545.70	0.00	0.00	0.00
9,200.00	11.00	216.87	9,132.79	-586.53	-439.86	-560.29	0.00	0.00	0.00
9,300.00	11.00	216.87	9,230.95	-601.80	-451.31	-574.87	0.00	0.00	0.00
9,324.62	11.00	216.87	9,255.12	-605.56	-454.13	-578.47	0.00	0.00	0.00
9,400.00	6.81	259.44	9,329.65	-612.14	-462.85	-584.54	10.00	-5.56	56.48
9,500.00	11.04	322.66	9,428.62	-605.60	-474.51	-577.34	10.00	4.23	63.22
9,600.00	19.91	340.77	9,524.95	-581.86	-485.95	-552.97	10.00	8.87	18.11
9,700.00	29.49	347.71	9,615.71	-541.62	-496.82	-512.18	10.00	9.59	6.94
9,800.00	39.27	351.44	9,698.15	-486.13	-506.80	-456.21	10.00	9.78	3.73
9,900.00 10,000.00	49.13 59.03	353.86 355.65	9,769.75 9,828.35	-417.06 -336.52	-515.58 -522.89	-386.75 -305.91	10.00	9.86 9.90	2.43
10,000.00	68.94	355.65 357.10	9,828.35	-330.52 -246.94	-522.89 -528.52	-305.91 -216.16	10.00 10.00	9.90 9.92	1.79 1.45
10,200.00	78.87	358.37	9,899.84	-151.06 51.79	-532.28 534.07	-120.22 21.00	10.00	9.93	1.27
10,300.00 10,312.09	88.80 90.00	359.55 359.70	9,910.57 9,910.70	-51.78 -39.68	-534.07 -534.15	-21.00 -8.93	10.00 10.00	9.93 9.93	1.18 1.17
10,312.09	90.00	359.70	9,910.70	-39.00 48.22	-534.15 -534.61	-0.93 78.86	0.00	0.00	0.00
10,500.00	90.00	359.70	9,910.70	148.22	-535.15	178.73	0.00	0.00	0.00
. 5,555.56			-,				0.00		

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Top Spot 12_13 Fed Com
Well: Top Spot 12_13 Fed Com 24H

Wellbore: Wellbore #1

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Well Top Spot 12_13 Fed Com 24H

RKB=25' @ 3608.60ft RKB=25' @ 3608.60ft

Grid

Planned Survey	Design:	Permitting Pla	an							
Depth	Planned Survey									
10,700.00 90.00 359.70 9,910.70 348.22 -556.21 378.45 0.00 0.00 0.00 10,800.00 90.00 359.70 9,910.70 548.21 -537.27 578.18 0.00 0.00 0.00 0.00 11,000.00 90.00 359.70 9,910.70 548.21 -537.27 578.18 0.00 0.00 0.00 0.00 11,000.00 90.00 359.70 9,910.70 748.21 -538.34 777.91 0.00 0.00 0.00 0.00 11,200.00 90.00 359.70 9,910.70 48.21 -538.34 777.91 0.00 0.00 0.00 0.00 11,400.00 90.00 359.70 9,910.70 48.21 -539.40 977.64 0.00 0.00 0.00 0.00 11,400.00 90.00 359.70 9,910.70 14.62.1 -539.40 977.64 0.00 0.00 0.00 0.00 11,500.00 90.00 359.70 9,910.70 14.62.1 -539.40 977.64 0.00 0.00 0.00 0.00 11,500.00 90.00 359.70 9,910.70 14.62.21 -539.40 977.64 0.00 0.00 0.00 0.00 11,500.00 90.00 359.70 9,910.70 14.62.21 -540.47 11,77.37 0.00 0.00 0.00 0.00 11,500.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,77.09 0.00 0.00 0.00 0.00 11,800.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,77.09 0.00 0.00 0.00 0.00 11,800.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,77.09 0.00 0.00 0.00 0.00 12,000.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,77.09 0.00 0.00 0.00 0.00 12,000.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,76.68 0.00 0.00 0.00 0.00 12,000.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,76.68 0.00 0.00 0.00 0.00 12,000.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,76.68 0.00 0.00 0.00 0.00 12,000.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,76.68 0.00 0.00 0.00 0.00 12,000.00 90.00 359.70 9,910.70 14.62.20 -541.53 13,76.68 0.00 0.00 0.00 0.00 12,000.00 90.00 359.70 9,910.70 24.64.99 -544.72 1976.28 0.00 0.00 0.00 0.00 12,000.00 359.70 9,910.70 24.64.99 -544.72 1976.28 0.00 0.00 0.00 0.	Depth			Depth			Section	Rate	Rate	Rate
10,800.00 90.00 389.70 9,910.70 448.22 -536.74 478.32 0.00 0.00 0.00 0.00 11,000.00 90.00 389.70 9,910.70 648.21 -537.27 578.18 0.00 0.00 0.00 0.00 11,100.00 90.00 389.70 9,910.70 648.21 -537.81 678.05 0.00 0.00 0.00 0.00 11,100.00 90.00 389.70 9,910.70 848.21 -538.34 77.79 0.00 0.00 0.00 0.00 11,300.00 90.00 389.70 9,910.70 148.21 -538.87 877.77 0.00 0.00 0.00 0.00 11,300.00 90.00 389.70 9,910.70 148.21 -538.87 877.77 0.00 0.00 0.00 0.00 11,500.00 90.00 389.70 9,910.70 14.48.21 -540.47 1,177.37 0.00 0.00 0.00 0.00 11,500.00 90.00 389.70 9,910.70 14.48.21 -540.47 1,177.37 0.00 0.00 0.00 0.00 11,500.00 90.00 389.70 9,910.70 14.48.20 -541.00 12,772.3 0.00 0.00 0.00 0.00 11,500.00 90.00 389.70 9,910.70 14.48.20 -541.00 12,772.3 0.00 0.00 0.00 0.00 11,500.00 90.00 389.70 9,910.70 14.48.20 -542.66 14.76.90 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.48.20 -542.66 14.76.90 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.48.20 -542.66 14.76.90 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.48.20 -542.66 14.76.90 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.48.20 -542.66 14.76.90 0.00 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.88.20 -542.69 1,765.82 0.00 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.88.20 -542.69 1,765.82 0.00 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.88.20 -542.69 1,765.82 0.00 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.88.20 -542.69 1,765.82 0.00 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.88.20 -542.69 1,765.82 0.00 0.00 0.00 0.00 12,000 90.00 389.70 9,910.70 14.88.20 94.47 94.4										
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14,900.00 90.00 359.70 9,910.70 4,548.16 -558.55 4,572.74 0.00 0.00 0.00 15,000.00 90.00 359.70 9,910.70 4,648.16 -559.08 4,672.60 0.00 0.00 0.00 15,100.00 90.00 359.70 9,910.70 4,748.15 -559.62 4,772.47 0.00 0.00 0.00 15,200.00 90.00 359.70 9,910.70 4,848.15 -560.15 4,872.33 0.00 0.00 0.00 15,300.00 90.00 359.70 9,910.70 4,948.15 -560.68 4,972.19 0.00 0.00 0.00 15,400.00 90.00 359.70 9,910.70 5,048.15 -561.21 5,072.06 0.00 0.00 0.00 15,600.00 90.00 359.70 9,910.70 5,248.15 -561.74 5,171.92 0.00 0.00 0.00 15,700.00 90.00 359.70 9,910.70 5,348.15 -562.27 5,271.79 0.00 0.00 0.00 15,800.00 90.00 359.70 9,910.70 <th></th> <td></td> <td>359.70</td> <td>9,910.70</td> <td></td> <td></td> <td>4,373.01</td> <td></td> <td></td> <td></td>			359.70	9,910.70			4,373.01			
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15,700.00 90.00 359.70 9,910.70 5,348.15 -562.81 5,371.65 0.00 0.00 0.00 15,800.00 90.00 359.70 9,910.70 5,448.14 -563.34 5,471.51 0.00 0.00 0.00	15.600.00	90.00	359.70		5,248.15	-562.27		0.00	0.00	0.00
15,800.00 90.00 359.70 9,910.70 5,448.14 -563.34 5,471.51 0.00 0.00 0.00	· ·									
15,900.00 90.00 359.70 9,910.70 5,548.14 -563.87 5,571.38 0.00 0.00 0.00				9,910.70						
16,000.00 90.00 359.70 9,910.70 5,648.14 -564.40 5,671.24 0.00 0.00 0.00	16,000.00	90.00	359.70	9,910.70	5,648.14	-564.40	5,671.24	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Top Spot 12_13 Fed Com
Well: Top Spot 12_13 Fed Com 24H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Top Spot 12_13 Fed Com 24H

RKB=25' @ 3608.60ft RKB=25' @ 3608.60ft

Grid

sign:	Permitting Pla	Permitting Plan									
anned Survey											
Measured Depth (ft)	Inclination	Azimuth	Vertical Depth (ft)	+N/-S	+E/-W	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)		
	(°)	(°)		(ft)	(ft)		,	,	, ,		
16,100.00	90.00	359.70	9,910.70	5,748.14	-564.93	5,771.11	0.00	0.00	0.00		
16,200.00	90.00	359.70	9,910.70	5,848.14	-565.47	5,870.97	0.00	0.00	0.00		
16,300.00	90.00	359.70	9,910.70	5,948.14	-566.00	5,970.83	0.00	0.00	0.00		
16,400.00	90.00	359.70	9,910.70	6,048.14	-566.53	6,070.70	0.00	0.00	0.00		
16,500.00	90.00	359.70	9,910.70	6,148.13	-567.06	6,170.56	0.00	0.00	0.00		
16,600.00	90.00	359.70	9,910.70	6,248.13	-567.59	6,270.42	0.00	0.00	0.00		
16,700.00	90.00	359.70	9,910.70	6,348.13	-568.13	6,370.29	0.00	0.00	0.00		
16,800.00	90.00	359.70	9,910.70	6,448.13	-568.66	6,470.15	0.00	0.00	0.00		
16,900.00	90.00	359.70	9,910.70	6,548.13	-569.19	6,570.02	0.00	0.00	0.00		
17,000.00	90.00	359.70	9,910.70	6,648.13	-569.72	6,669.88	0.00	0.00	0.00		
17,100.00	90.00	359.70	9,910.70	6,748.13	-570.25	6,769.74	0.00	0.00	0.00		
17,200.00	90.00	359.70	9,910.70	6,848.13	-570.79	6,869.61	0.00	0.00	0.00		
17,300.00	90.00	359.70	9,910.70	6,948.12	-571.32	6,969.47	0.00	0.00	0.00		
17,400.00	90.00	359.70	9,910.70	7,048.12	-571.85	7,069.34	0.00	0.00	0.00		
17,500.00	90.00	359.70	9,910.70	7,148.12	-572.38	7,169.20	0.00	0.00	0.00		
17,600.00	90.00	359.70	9,910.70	7,248.12	-572.91	7,269.06	0.00	0.00	0.00		
17,700.00	90.00	359.70	9,910.70	7,348.12	-573.45	7,269.00	0.00	0.00	0.00		
17,800.00	90.00	359.70	9,910.70	7,348.12 7,448.12	-573.43	7,300.93	0.00	0.00	0.00		
	90.00	359.70	9,910.70	7,446.12 7,548.12	-573.96 -574.51	7,568.66	0.00	0.00	0.00		
17,900.00	90.00	359.70	9,910.70	7,546.12 7,648.11	-574.51 -575.04	7,566.50	0.00	0.00	0.00		
18,000.00				•							
18,100.00	90.00	359.70	9,910.70	7,748.11	-575.57	7,768.38	0.00	0.00	0.00		
18,200.00	90.00	359.70	9,910.70	7,848.11	-576.11	7,868.25	0.00	0.00	0.00		
18,300.00	90.00	359.70	9,910.70	7,948.11	-576.64	7,968.11	0.00	0.00	0.00		
18,400.00	90.00	359.70	9,910.70	8,048.11	-577.17	8,067.98	0.00	0.00	0.00		
18,500.00	90.00	359.70	9,910.70	8,148.11	-577.70	8,167.84	0.00	0.00	0.00		
18,600.00	90.00	359.70	9,910.70	8,248.11	-578.23	8,267.70	0.00	0.00	0.00		
18,700.00	90.00	359.70	9,910.70	8,348.10	-578.76	8,367.57	0.00	0.00	0.00		
18,800.00	90.00	359.70	9,910.70	8,448.10	-579.30	8,467.43	0.00	0.00	0.00		
18,900.00	90.00	359.70	9,910.70	8,548.10	-579.83	8,567.30	0.00	0.00	0.00		
19,000.00	90.00	359.70	9,910.70	8,648.10	-580.36	8,667.16	0.00	0.00	0.00		
19,100.00	90.00	359.70	9,910.70	8,748.10	-580.89	8,767.02	0.00	0.00	0.00		
19,200.00	90.00	359.70	9,910.70	8,848.10	-581.42	8,866.89	0.00	0.00	0.00		
19,300.00	90.00	359.70	9,910.70	8,948.10	-581.96	8,966.75	0.00	0.00	0.00		
19,400.00	90.00	359.70	9,910.70	9,048.09	-582.49	9,066.61	0.00	0.00	0.00		
19,500.00	90.00	359.70	9,910.70	9,148.09	-583.02	9,166.48	0.00	0.00	0.00		
19,600.00	90.00	359.70	9,910.70	9,248.09	-583.55	9,266.34	0.00	0.00	0.00		
19,700.00	90.00	359.70	9,910.70	9,348.09	-584.08	9,366.21	0.00	0.00	0.00		
19,800.00	90.00	359.70	9,910.70	9,448.09	-584.62	9,466.07	0.00	0.00	0.00		
19,900.00	90.00	359.70	9,910.70	9,548.09	-585.15	9,565.93	0.00	0.00	0.00		
20,000.00	90.00	359.70	9,910.70	9,648.09	-585.68	9,665.80	0.00	0.00	0.00		
20,100.00	90.00	359.70	9,910.70	9,748.08	-586.21	9,765.66	0.00	0.00	0.00		
20,200.00	90.00	359.70	9,910.70	9,848.08	-586.74	9,865.53	0.00	0.00	0.00		
20,300.00	90.00	359.70	9,910.70	9,948.08	-587.28	9,965.39	0.00	0.00	0.00		
20,400.00	90.00	359.70	9,910.70	10,048.08	-587.81	10,065.25	0.00	0.00	0.00		
20,500.00	90.00	359.70	9,910.70	10,148.08	-588.34	10,165.12	0.00	0.00	0.00		
20,581.09	90.00	359.70	9,910.70	10,229.17	-588.77	10,246.10	0.00	0.00	0.00		

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Top Spot 12_13 Fed Com
Well: Top Spot 12_13 Fed Com 24H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Top Spot 12_13 Fed Com 24H

RKB=25' @ 3608.60ft RKB=25' @ 3608.60ft

Grid

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 (Top Spot 12_13 - plan misses target - Point	0.00 center by 81	0.00 10.50ft at 0.0	0.00 00ft MD (0.0	-612.30 0 TVD, 0.00 I	-531.04 N, 0.00 E)	503,749.02	728,009.91	32.383425	-103.728616
FTP (Top Spot 12_13 - plan misses target - Point	0.00 center by 25	0.00 5.46ft at 101	9,910.70 44.12ft MD	-212.36 (9886.42 TVI	-533.23 D, -205.25 N,	504,148.94 -530.41 E)	728,007.72	32.384524	-103.728616
PBHL (Top Spot - plan hits target cer - Point	0.00 nter	0.00	9,910.70	10,229.17	-588.77	514,589.92	727,952.18	32.413224	-103.728605

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	837.60	837.60	RUSTLER			
	1,136.60	1,136.60	SALADO			
	2,881.60	2,881.60	CASTILE			
	4,494.60	4,494.60	DELAWARE			
	4,552.60	4,552.60	BELL CANYON			
	5,414.72	5,413.60	CHERRY CANYON			
	6,654.02	6,633.60	BRUSHY CANYON			
	8,441.88	8,388.60	BONE SPRING			
	9,582.70	9,508.60	BONE SPRING 1ST			

Plan Annotations				
Meası Dep (ft)	Vertical Depth (ft)	Local Coord +N/-S (ft)	dinates +E/-W (ft)	Comment
5,9	4,810.00 5,903.45 9,255.12 9,910.70 9.910.70	0.00 -84.25 -605.56 -39.68 10.229.17	0.00 -63.18 -454.13 -534.15 -588.77	Build 1°/100' Hold 11° Tangent KOP, Build & Turn 10°/100' Landing Point TD at 20581.09' MD

Oxy USA Inc. - TOP SPOT 12_13 FED COM 24H Drill Plan

1. Geologic Formations

TVD of Target (ft):	9911	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20581	Deepest Expected Fresh Water (ft):	838

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	838	838	
Salado	1137	1137	Salt
Castile	2882	2882	Salt
Delaware	4495	4495	Oil/Gas/Brine
Bell Canyon	4553	4553	Oil/Gas/Brine
Cherry Canyon	5415	5414	Oil/Gas/Brine
Brushy Canyon	6654	6634	Losses
Bone Spring	8442	8389	Oil/Gas
Bone Spring 1st	9583	9509	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		MD		TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	898	0	898	13.375	54.5	J-55	BTC
Intermediate	9.875	0	9225	0	9155	7.625	26.4	L-80 HC	втс
Production	6.75	0	20581	0	9911	5.5	20	P-110	Wedge 461

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

*Oxy requests the option to run the 10.75" Intermediate I as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary. This would make the planned 7.625" / 7.827" Casing the Intermediate II.

**If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate I at 1st trip point below Brushy top (estimated top in formation table above). Cement volumes will be updated on C103 submission.

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

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

	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	Y				
the collapse pressure rating of the casing?	Y				
Is well located within Capitan Reef?	N				
If yes, does production casing cement tie back a minimum of 50' above the Reef?					
Is well within the designated 4 string boundary.					
Is well located in SOPA but not in R-111-P?	Y				
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	Y				
500' into previous casing?					
T 111 - 11 P 111 P 100P10					
Is well located in R-111-P and SOPA?	N				
If yes, are the first three strings cemented to surface?	_				
Is 2 nd string set 100' to 600' below the base of salt?					
Is well located in high Cave/Karst?	N				
If yes, are there two strings cemented to surface?					
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?					
Is well located in critical Cave/Karst?	N				
If yes, are there three strings cemented to surface?					

TOP SPOT 12_13 FED COM 24H

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3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	938	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	317	1.65	13.2	5%	6,904	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1232	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	671	1.84	13.3	25%	8,725	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.

TOP SPOT 12 13 FED COM 24H

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4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	✓	Tested to:	Deepest TVD Depth (ft) per Section:
		5M		Annular	✓	70% of working pressure	
				Blind Ram	✓		
9.875" Hole	13-5/8"	5M	Pipe Ram			250 psi / 5000 psi	9155
			Double Ram		✓	230 psi / 3000 psi	
			Other*				
		5M		Annular	✓	70% of working pressure	
	13-5/8"		Blind Ram		✓		
6.75" Hole		5M		Pipe Ram		250 psi / 5000 psi	9911
				Double Ram		230 psi / 3000 psi	
			Other*				

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 manifold.

^{*}Specify if additional ram is utilized

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

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

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

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.

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5. Mud Program

Castian	Depth -	- MD	Depth -	TVD	Toma	Weight	Vicesita	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	898	0	898	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	898	9225	898	9155	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	9225	20581	9155	9911	Water-Based or Oil- Based Mud	8.0 - 9.6	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, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	F V 1/1VID TOLCO/ VISUAL WIGHTONING

6. Logging and Testing Procedures

Loggi	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						

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

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4948 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	160°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 zonal

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.

the bi	LIVI.
N	H2S is present
Υ	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 6 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: 1559 bbls

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

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

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

AMENDED REPORT

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POINTS

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code ³ Pool Name			
30-015-47954 0569		05695	5 BILBREY BASIN; BONE SPRING		
4 Property Code		5 Pr	operty Name		6 Well Number
		TOP SPOT	12_13 FED COM		24H
7 OGRID No.	8 O		erator Name		⁹ Elevation
		OX	Y USA INC.		3583.6'

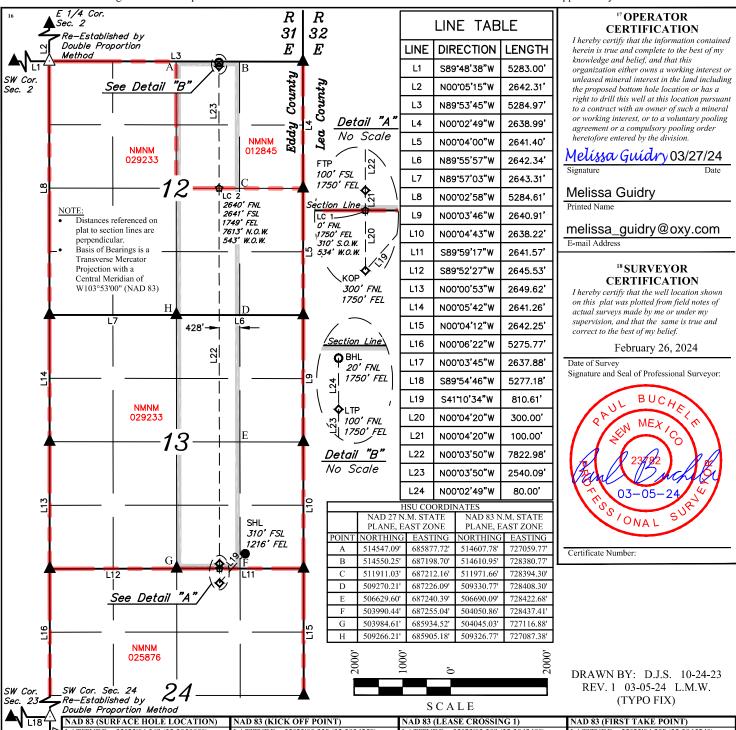
Surface Location

_										
- 1	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
- 1	n	12	າາຕໍ	210		210	COLUTII	1216	EACT	L EDDÝ
- 1	P	13	228	31E		310	SOUTH	1216	EASI	EDDY

"Bottom Hole Location If Different From Surface

UL or lot no. B	Section 12	Township 22S	Range 31E	Lot Idn	Feet from 20	the	North/South line NORTH	Feet from the 1750	East/West line EAST	County EDDY
12 Dedicated Acro	es 13	Joint or Infill	14 Conso	olidation Code	15 Ord	er No.				

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



\checkmark	Double Proportion Method		SCALE	(1110111)
÷	NAD 83 (SURFACE HOLE LOCATION)	NAD 83 (KICK OFF POINT)	NAD 83 (LEASE CROSSING 1)	NAD 83 (FIRST TAKE POINT)
12	LATITUDE = 32°23'06.36" (32.385099°)	LATITUDE = 32°23'00.33" (32.383425°)	LATITUDE = 32°23'03.30" (32.384249°)	LATITUDE = 32°23'04.29" (32.384524°)
J۲	LONGITUDE = -103°43'36.78" (-103.726884°)	LONGITUDE = -103°43'43.02" (-103.728616°)	LONGITUDE = -103°43'43.02" (-103.728616°)	LONGITUDE = -103°43'43.02" (-103.728616
-	NAD 27 (SURFACE HOLE LOCATION)	NAD 27 (KICK OFF POINT)	NAD 27 (LEASE CROSSING 1)	NAD 27 (FIRST TAKE POINT)
lack	LATITUDE = 32°23'05.92" (32.384977°)	LATITUDE = 32°22'59.89" (32.383302°)	LATITUDE = 32°23'02.86" (32.384126°)	LATITUDE = 32°23'03.84" (32.384401°)
Cor	LONGITUDE = -103°43'35.02" (-103.726396°)	LONGITUDE = -103°43'41.26" (-103.728127°)	LONGITUDE = -103°43'41.26" (-103.728127°)	LONGITUDE = -103°43'41.26" (-103.728127
5	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
	N: 504361.29' E: 728540.92'	N: 503749.02' E: 728009.91'	N: 504048.96' E: 728008.27'	N: 504148.94' E: 728007.72'
	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
	N: 504300.86' E: 687358.56'	N: 503688.62' E: 686827.53'	N: 503988.55' E: 686825.90'	N: 504088.52' E: 686825.36'
	NAD 83 (LEASE CROSSING 2)	NAD 83 (LAST TAKE POINT)	NAD 83 (BOTTOM HOLE LOCATION)	● = SURFACE HOLE LOCATION
	LATITUDE = 32°24'21.68" (32.406023°)	LATITUDE = 32°24'46.81" (32.413004°)	LATITUDE = 32°24'47.61" (32.413224°)	♦ = KICK OFF POINT/TAKE POINT
	LONGITUDE = -103°43'42.99" (-103.728607°)	()	LONGITUDE = -103°43'42.98" (-103.728604°)	S = LEASE CROSSING
	NAD 27 (LEASE CROSSING 2)	NAD 27 (LAST TAKE POINT)	NAD 27 (BOTTOM HOLE LOCATION)	O = BOTTOM HOLE LOCATION
	LATITUDE = 32°24'21.24" (32.405901°)	LATITUDE = 32°24'46.37" (32.412881°)	LATITUDE = 32°24'47.16" (32.413101°)	▲ = SECTION CORNER LOCATED
	LONGITUDE = -103°43'41.22" (-103.728118°)	()	LONGITUDE = -103°43'41.21" (-103.728114°)	= LEASE LINE
	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	= HORIZONTAL SPACING UNIT
	N: 511970.36' E: 727966.10'	N: 514509.94' E: 727952.59'	N: 514589.92' E: 727952.18'	N.O.W. = NORTH OF WELL
	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	S.O.W. = SOUTH OF WELL
	N: 511909.73' E: 686783.97'	N: 514449.24' E: 686770.52'	N: 514529.23' E: 686770.12'	W.O.W. = WEST OF WELL

OXY APD CHANGE SUNDRY LIST

DATE	3/27/2024	
WELL NAME	TOP SPOT 12_13 FEDERAL COM #024H	
API NUMBER	30-015-47954	
SPUD DATE	7/1/2024	

ITEM	PREVIOUS	UPDATE
NAME	TOP SPOT 12 13 FEDERAL COM #025H	N/A
NSL	NA	N/A
SHL	490' FSL, 1065' FEL	310' FSL, 1216' FEL
PAD	LSTTNK 1302	N/A
BHL	20' FNL, 220' FEL	20' FNL, 1750' FEL
HSU SIZE, ACRES	640	320
POOL	BONESPRING	N/A
TARGET FORMATION	BILBREY BASIN, BONE SPRING	N/A
TVD	10394'	9911'
SURFACE CASING	891' MD, 17.5 (in), 54.5 LBS, 13.375 (in), J-55, BTC	898' MD, 17.5 (in), 54.5 LBS, 13.375 (in), J-55, BTC
INTERMEDIATE CASING	5470' MD, 12.25 (in), 36 lbs, 9.625 (in), J-55, BTC	9225' MD, 9.875 (in), 26.4 lbs, 7.625 (in), L-80 HC, BTC
INTERMEDIATE 2 CASING	N/A	N/A
PRODUCTION CASING	21343' MD, 8.5 (in), 20 lbs, 5.5 (in), P-110, DQX	20581' MD, 6.75 (in), 20 lbs, 5.5 (in), P-110, Wedge 461
LINER OR TIE BACK	N/A	N/A
CEMENT	Surface (Tail)- 942 sxs, 14.8 wt, 1.33 yld, Class C, Accel	938 sxs, 14.8 wt, 1.33 yld., Class C+Accel
	Interm (Lead) - 1295 sxs, 12.9 wt, 1.73 yld, Pozz Cement, Retarder	Tail BH - 1232 sxs, 13.3 wt, 1.71 yld, Class C+Accel
	Interm, (Tail) - 156 sxs, 14.8 wt, 1.33 yld, Class C, Accel	317 sxs, 13.2 wt, 1.65 yld, Class H+Accel, Disper, Salt
	Prod (Lead) - 543 sxs, 11.9 wt, 2.24 yld, Class H, Ret, Dispers, Salt	Removed
	Prod (Tail) - 2287 sxs, 13.2 wt, 1.38 yld, Class H, Ret, Dispers, Salt	671 sxs, 13.3 wt, 1.84 yld, Class C+Ret
FACILITIES	NA	N/A
OTHER	NA	N/A

OTHER COMMENTS

3S SLIM BASE PLAN W/ 4S FALCON CONTINGENCY PLAN - THE SHL, BHL, HSU SIZE, TVD, SURFACE CASING, INTERMEDIATE CASING, AND PRODUCTION CASING ARE CHANGING.

ATTACHMENTS

The C-102, DRILL PLAN, CASING CONNECTIONS, DIRECTIONAL PLAN AND A CONTINGENCY TIE BACK ARE ATTACHED. UPDATED VARIANCE REQUESTS FOR BOP BREAK TESTING, BRADENHEAD CBL, AND OFFLINE CEMENT ARE ATTACHED. "SHL MOVING BY 180 FEET AND THERE IS NO ADDITIONAL SURFACE DISTURBANCE RELATED TO THIS SUNDRY"

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

CONDITIONS

Action 348188

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	348188
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	6/4/2024