Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 9. API Well No. 30 015 48221 2. Name of Operator RUSSELL:BONE 10. Field and Pool, or Exploratory SPRING 3a. Address 3b. Phone No. (include area code) 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Date Name (Printed/Typed) Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. 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

APPROVED WITH CONDITIONS Released to Imaging: 4/26/2021 1:45:02 PM Approval Date: 04/12/2021

(Continued on page 2)

*(Instructions on page 2)

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II 811 S. FIRST ST., ARTESIA, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

API Number

Property Code

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

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code Pool Name Property Name Well Number

CHARLIE CHOCOLATE 13_14 FEDERAL COM 313H OGRID No. Operator Name Elevation 3247.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	13	20-S	28-E		1650	SOUTH	930	EAST	EDDY

Bottom Hole Location If Different From Surface

ĺ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	L	14	20-S	28-E		2100	SOUTH	20	WEST	EDDY
	Dedicated Acres	Joint o	r Infill	Consolidation (Code Or	der 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

PROPOSED BOTTOM	
NOLLDBS FIP NOLLDBS FIP NOCE NOC	_
8 É.H. GRID AZ. = 269'51'49". HORZ. DIST. = 10583.2' HORIZONTAL SPACING UNIT HORZ. DIST. = 993.2' S.L. 930'	6
1 2 3	<u>-</u> ⊕

OPERATOR CERTIFICATION

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

Leslie T. Reeves

Signature Date

Printed Name

E-mail Address

SURVEYOR CERTIFICATION

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

SEPTEMBER 26, 2019

Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCRO MEXIC EW.

Certificate No. CHAD HARCROW 17777

W.O. # 19-1724

DRAWN BY: AH

Inter	nt	As Dril	led											
API #	¥		**											
Оре	erator Na	me:	-			Pro	perty i	lame	:					Well Number
Kick (Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From I	N/S	Feet		From	n E/W	County	
Latit	ude				Longitu	ıde			1				NAD	
													l	
UL	Take Poir	Township	Range	Lot	Feet		From I	1/S	Feet		From	ı E/W	County	
Latitu	ude				Longitu	ıde							NAD	
Last T	Take Poin	t (LTP)												
UL	Section	Township	Range	Lot	Feet	Fror	m N/S	Feet	Ĭ	From E	/W	Count	у	
Latitu	ıde				Longitu	ıde						NAD		
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ls this	well the	defining w	ell for th	e Horiz	zontal Sp	pacing	g Unit?]				
ls this	well an i	nfill well?]									
	l is yes pl ng Unit.	ease provi	de API if	availab	le, Oper	ator N	Vame :	and w	ell nu	ımber [.]	for C	efinin	g well fo	r Horizontal
API#														
Ope	rator Nan	ne:				Prop	erty N	ame:				••••••		Well Number

KZ 06/29/2018

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA WTP LP

LEASE NO.: | NMLC0050797

WELL NAME & NO.: | CHARLIE CHOCOLATE 13-14 FEDERAL COM 313H

SURFACE HOLE FOOTAGE: 1650'/S & 930'/E **BOTTOM HOLE FOOTAGE** 2100'/S & 20'/W

LOCATION: Section 13, T.20 S., R.28 E., NMP

COUNTY: Eddy County, New Mexico

COA

H2S	O Yes	⊙ No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	C Low	Medium	• High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other Other
Wellhead	Conventional	© Multibowl	O Both
Other	☐ 4 String Area		□WIPP
Other	☐ Fluid Filled	✓ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	▼ COM	□ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 769 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) 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 **8 hours** 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 **9-5/8** inch intermediate casing shall be set at approximately **3206** feet. The minimum required fill of cement behind the **9-5/8** 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 a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office
 - 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>High Cave/Karst 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.
- ❖ In <u>Capitan Reef 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.
- ❖ Special Capitan Reef requirements. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 3. 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 50 feet on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. 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, potash or capitan reef.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least 50 feet on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. 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, potash or capitan reef.

C. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 3000 (3M) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

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

Offline Cementing

• Contact the BLM prior to the commencement of any offline cementing procedure.

BOP Break Testing Variance

• BOP break testing is not permitted on this well pending sundry submission

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)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 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 Onshore Oil and Gas Order No. 2 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 intergrity 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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 OOGO2.III.A.2.i 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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 Onshore Order No. 2.

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.

NMK03042021



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

Operator Certification Data Report 04/12/2021

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: LESLIE REEVES Signed on: 01/08/2021

Title: Advisor Regulatory

Street Address: 5 GREENWAY PLAZA, SUITE 110

City: HOUSTON State: TX Zip: 77046

Phone: (713)497-2492

Email address: LESLIE_REEVES@OXY.COM

Field Representative

Representative Name: JIM WILSON

Street Address: 6001 DEAUVILLE BLVD.

City: MIDLAND State: TX Zip: 79710

Phone: (575)631-2442

Email address: JIM_WILSON@OXY.COM



APD ID: 10400053183

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

Application Data Report

Submission Date: 01/14/2020

Operator Name: OXY USA WTP LP

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

BLM Office: CARLSBAD User: LESLIE REEVES Title: Advisor Regulatory

Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMLC0050797 Lease Acres:

Surface access agreement in place? Allotted? Reservation:

Agreement in place? NO Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO APD Operator: OXY USA WTP LP

Operator letter of designation:

Operator Info

Operator Organization Name: OXY USA WTP LP

Operator Address: P O BOX 4294
Zip: 77210

Operator PO Box: P O BOX 4294

Operator City: HOUSTON State: TX

Operator Phone: (713)366-5360

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO Master Development Plan name:

Well in Master SUPO? NO Master SUPO name:

Well in Master Drilling Plan? NO Master Drilling Plan name:

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL Well Number: 313H Well API Number:

COM

Field/Pool or Exploratory? Field and Pool

Field Name: COTTON DRAW

Pool Name: COTTON DRAW

BONE SPRING BONE SPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

CHARLIE CHOCOLATE 13-14

Number: 32H, 33H, 313H, 314H

Well Class: HORIZONTAL FEDERAL COM

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 12 Miles Distance to nearest well: 35 FT Distance to lease line: 20 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: CharlieChocolate13_14FdCom313H_C102_20200114113700.pdf

CharlieChocolate13_14FdCom313H_Supplemental_20200114113709.pdf

CharlieChocolate13_14FdCom313H_SitePlan_20200114113716.pdf

Well work start Date: 06/01/2020 Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL	165	FSL	930	FEL	20S	28E	13	Aliquot	32.57095	-	EDD	NEW	NEW	F	NMLC0	324	0	0	N
Leg	0							NESE	7	104.1252	Υ	MEXI	MEXI		50797	7			
#1										35		CO	CO						

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
KOP	210	FSL	50	FEL	20S	28E	13	Aliquot	32.57219		EDD	NEW	NEW	F	NMLC0		837	828	N
Leg #1	0							NESE	2	104.1223 59	Y	MEXI CO	MEXI CO		50797	503 5	8	2	
PPP	210	FSL	100	FEL	20S	28E	13	Aliquot	32.57219	-	EDD	NEW	NEW	F	NMLC0	_	939	896	Υ
Leg	0							NESE	2	104.1225	l	MEXI	MEXI		50797	571	9	1	
#1-1										2		CO	CO			4			
PPP	209	FSL	132	FEL	20S	28E	13	Aliquot	32.57218		EDD	NEW	NEW	F	NMNM	-	154	884	Υ
Leg	7		6					NWSE	3	104.1438	Υ	MEXI	l		6856	559	09	3	
#1-2										39		СО	СО			6			
EXIT	210	FSL	100	FW	20S	28E	14	Aliquot	32.57219		EDD	NEW	NEW	F	NMNM	-	192	876	Υ
Leg	0			L				NWS	6	104.1564	Υ	1	I		6856	552	98	7	
#1								W		55		СО	СО			0			
BHL	210	FSL	20	FW	20S	28E	14	Aliquot	32.57217		EDD	1	NEW	F	NMNM	-	193		N
Leg	0			L				NWS	6	104.1567 15	Y	MEXI CO	MEXI CO		6856	551 9	78	6	
#1								W		13						٦			



APD ID: 10400053183

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

Drilling Plan Data Report

Submission Date: 01/14/2020

Operator Name: OXY USA WTP LP

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation	Formation Name	Elevation	True Vertical			Mineral Resources	Producing Formation
				Depth	Lithologies		
634271	SALADO	3247	404	404	ANHYDRITE, DOLOMITE, SHALE	OTHER : Salt	N
634272	TANSILL	2595	652	652	ANHYDRITE, SANDSTONE, SHALE	OTHER : Salt	N
939375	CAPITAN REEF	2059	1188	1188	LIMESTONE	NATURAL GAS, OIL	N
634273	DELAWARE	91	3156	3156	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
634270	BONE SPRING	-2022	5269	5298	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
634269	BONE SPRING 1ST	-3612	6859	6923	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
634268	BONE SPRING 2ND	-4209	7456	7534	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
634277	BONE SPRING 3RD	-5386	8633	8740	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M Rating Depth: 8961

Equipment: 13-5/8" 3M Annular, Blind Ram, Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: OXY will utilize a 5M annular with a 10M BOPE stack. BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 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. 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 Onshore Order #2 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. 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. A separate sundry will be sent prior to spud that reflects the pad

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

based break testing plan. 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

Choke Diagram Attachment:

CharlieChocolate13_14FdCom313H_ChokeManifold_20200114115759.pdf

BOP Diagram Attachment:

CharlieChocolate13_14FdCom313H_BOP_20200114115812.pdf

CharlieChocolate13_14FdCom313H_FlexHoseCert_20200114115821.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	CONDUCT OR	26	20.0	NEW	API	N	0	304	0	304	3247	2943	304	J-55	78.6	N/A						
2	SURFACE	17.5	13.375	NEW	API	N	0	752	0	752	3247	2495	752	J-55	54.5	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
3		12.2 5	9.625	NEW	API	N	0	3256	0	3256		-9	3256	HCL -80	40	BUTT	1.12 5	1.2	BUOY	1.4	BUOY	1.4
4	PRODUCTI ON	8.5	5.5	NEW	API	N	0	19378	0	8961		-5714	19378	P- 110		OTHER - DQX/DQW/ SFTORQ	1.12 5	1.2	BUOY	1.4	BUOY	1.4

Casing Attachments

Operator Name: OXY USA WTP LP
Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

asing Attachments
Casing ID: 1 String Type: CONDUCTOR
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing ID: 2 String Type: SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
CharlieChocolate13_14FdCom313H_CsgCriteria_20200114115856.pdf
Casing ID: 3 String Type: INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):

 $Charlie Chocolate 13_14 Fd Com 313 H_Csg Criteria_20200114115919. pdf$

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Casing Attachments

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CharlieChocolate13_14FdCom313H_CsgCriteria_20200114115952.pdf

 $Charlie Chocolate 13_14 Fd Com 313 H_5.500 in_x_20_20200114115957.00$

 $Charlie Chocolate 13_14 Fd Com 313 H_5.500 in_x_20_20200114120001.00$

CharlieChocolate13_14FdCom313H_5.500in_x_20_20200114120007.00

Section 4 - Cement	Sec	tion 4	4 - (Jem	ent	
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String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
CONDUCTOR	Lead		0	304	413	1.33	14.8	549	20	Class C	Accelerator
	1			1		1	l .		l .	1	
SURFACE	Lead		0	752	707	1.33	14.8	940	100	Class C Cement	Accelerator
INTERMEDIATE	Lead	1200	0	1200	255	1.73	12.9	441	20	Class C	Accelerator

INTERMEDIATE	Lead	1200	1200	2756	338	1.73	12.9	585	20	Pozzolan C	Retarder
INTERMEDIATE	Tail		2756	3256	141	1.33	14.8	188	20	Class C	Accelerator
PRODUCTION	Lead		1138	8378	1295	2.24	11.9	2899	100	Class H Cement	Retarder, Dispersant, Salt

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		8378	1937 8	2100	1.38	13.2	2898	15	l .	Retarder, Dispersant, Salt

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements. 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.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
752	3256	OTHER: Saturated Brine- Based Mud or Oil-Based Mud	8	10							
304	752	WATER-BASED MUD	8.6	8.8							
3256	1937 8	OTHER : Water- Based Mud and/or Oil-Based Mud	8	9.6							
0	304	WATER-BASED MUD	8.6	8.8							

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Section 6 - Test, Logging, Coring

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

GR from TD to surface (horizontal well vertical portion of hole). Mud Log from Intermediate casing shoe to TD.

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

GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4474 Anticipated Surface Pressure: 2502

Anticipated Bottom Hole Temperature(F): 152

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

CharlieChocolate13_14FdCom313H_H2S1_20200114120443.pdf

CharlieChocolate13_14FdCom313H_H2S2_20200114120448.pdf

CharlieChocolate13_14FdCom313H_H2SEmerCont_20200114120455.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CharlieChocolate13_14FdCom313H_DirectPlan_20200114120509.pdf

CharlieChocolate13_14FdCom313H_DirectPlot_20200114120515.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

CharlieChocolate13_14FdCom313H_SpudRigData_20200114120625.pdf

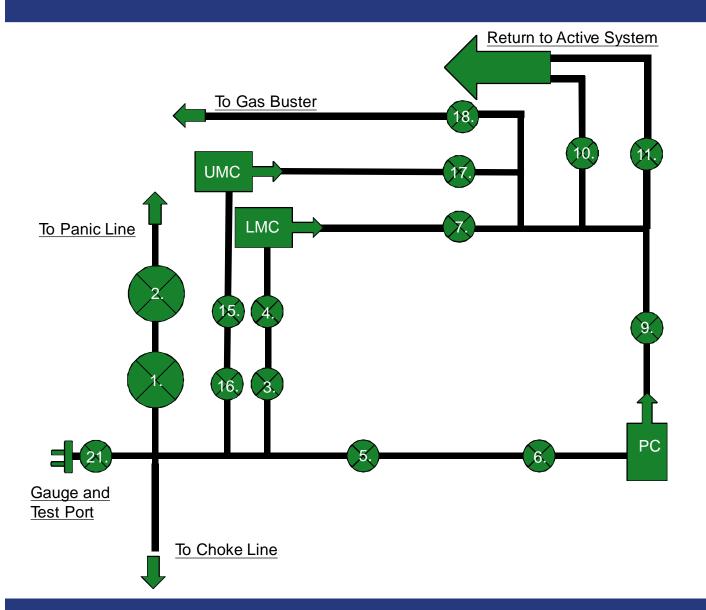
CharlieChocolate13_14FdCom313H_7.625in_x_26_20200114120631.4

CharlieChocolate13_14FdCom313H_7.625in_x_26_20200114120636.4

CharlieChocolate13_14FedCom313H_DrillPlan10DayLetter_1.8.21_20210108090522.pdf

Other Variance attachment:

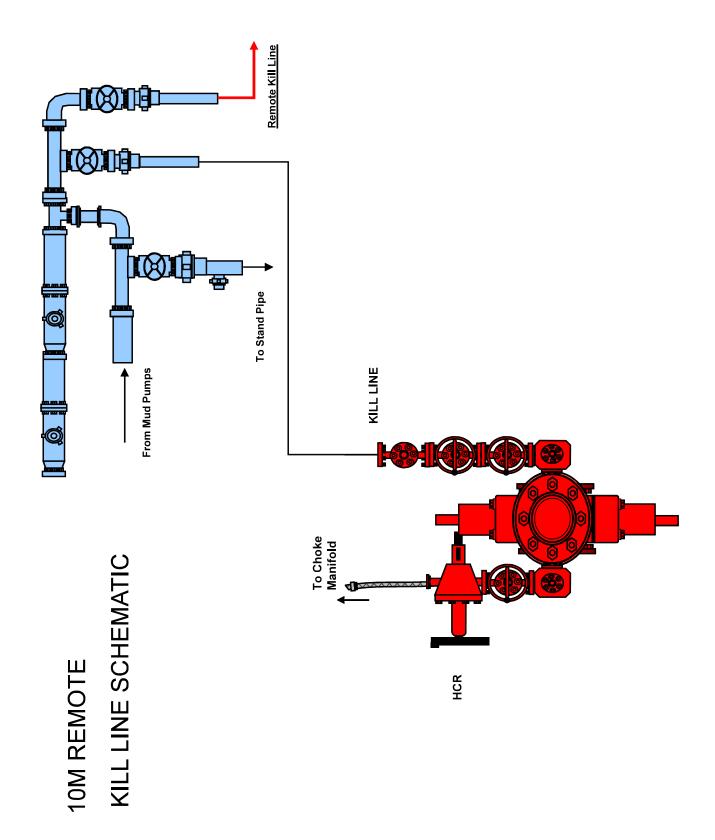
10M Choke Panel

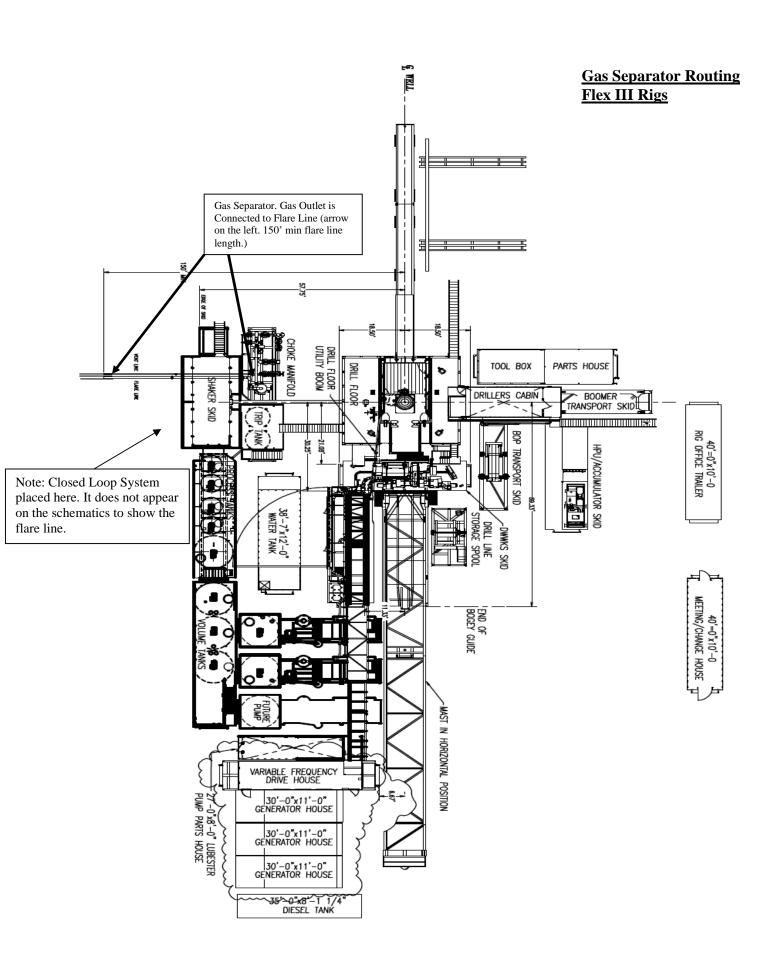


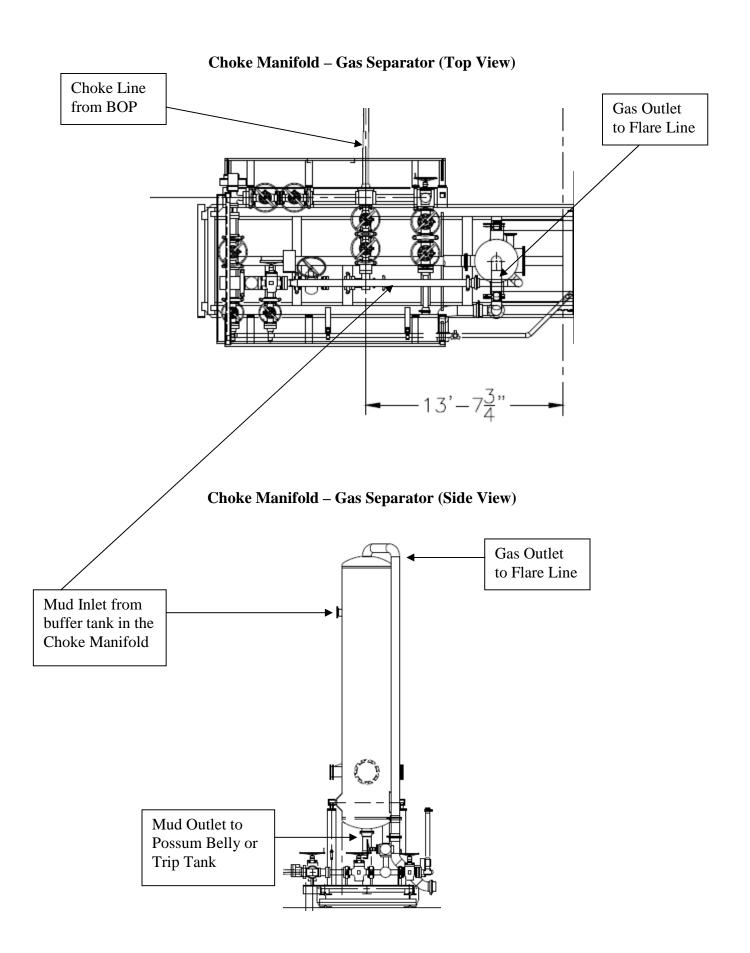
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual 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

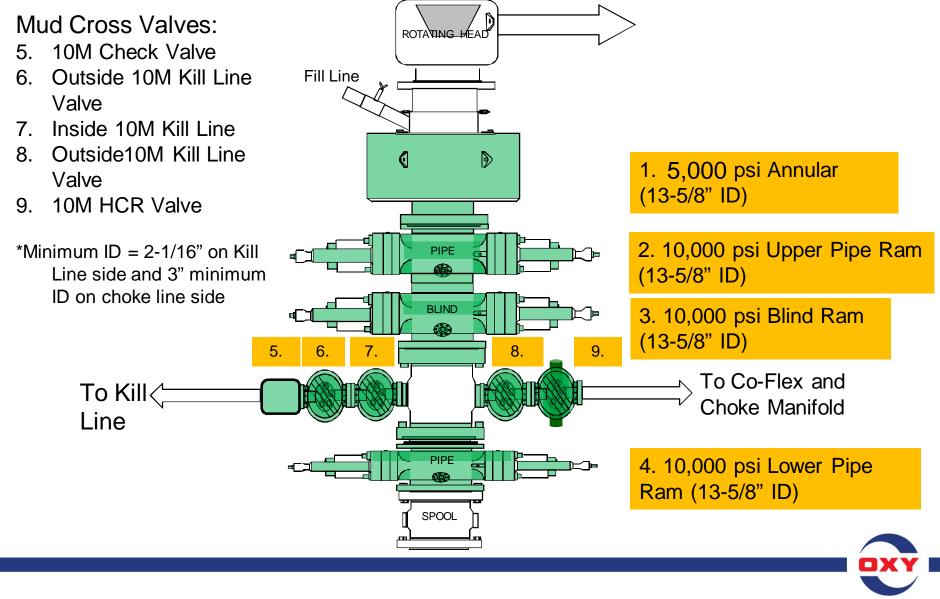








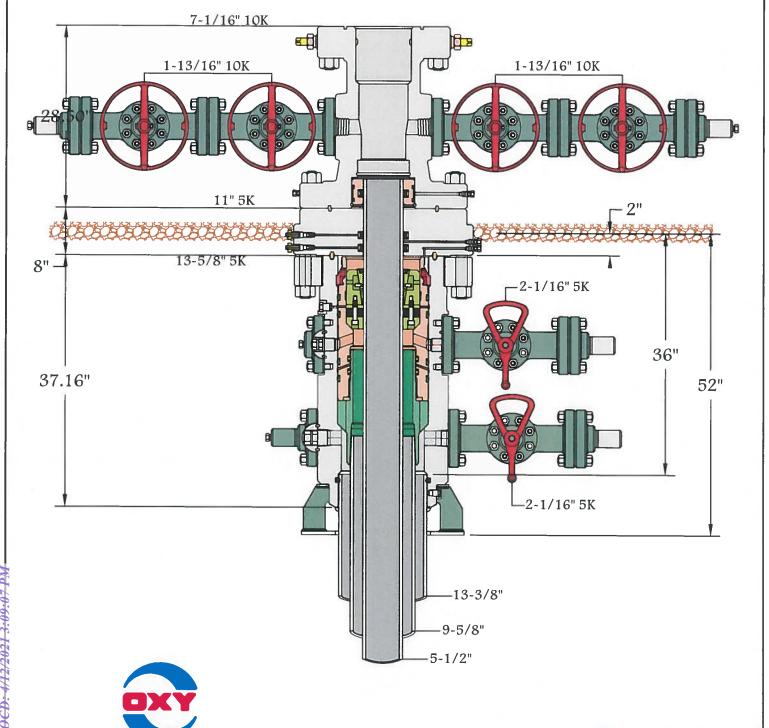
5/10M BOP Stack



CAMERON A Schlumberger Company

1505172

#



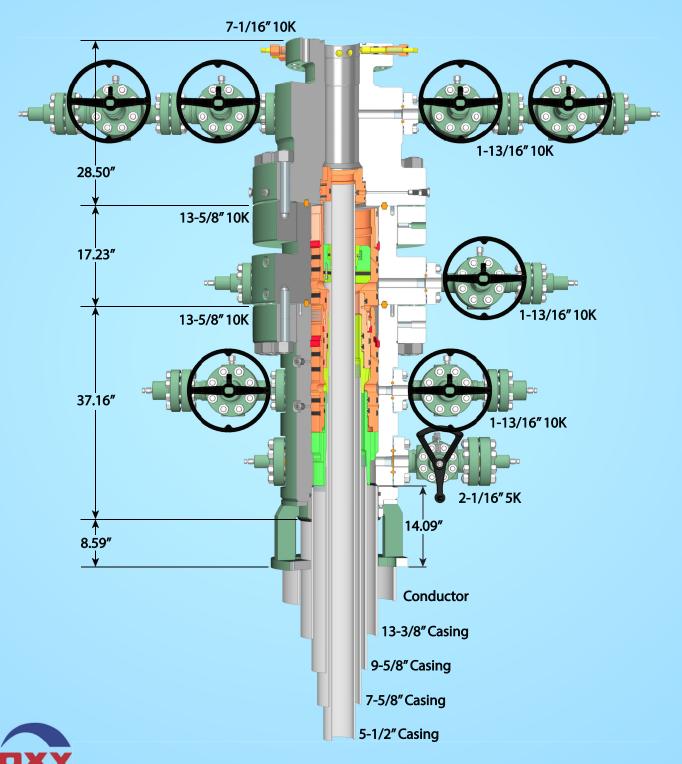
Brandon

5-10-17

13-5/8" 5K MN-DS



13-5/8" 10K MN-DS Wellhead Four String



1615045

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

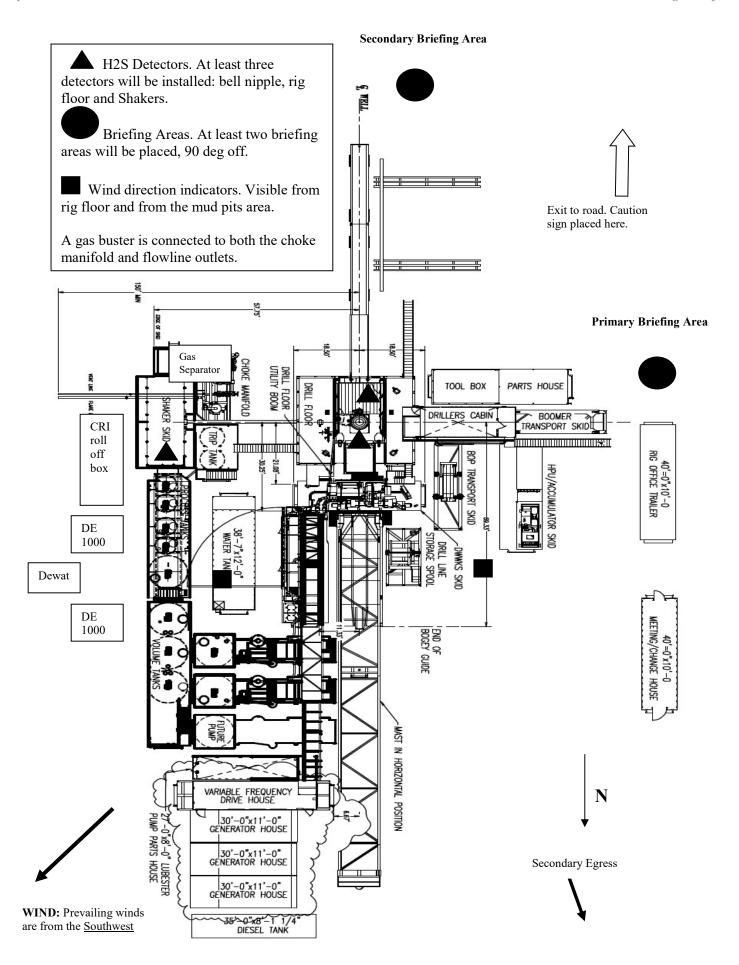


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Charlie Chocolate 13_14 Fed Com 313H

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H2S) gas.

While drilling this well, it is possible to encounter H2S bearing formations. At all times, the first barrier to control H2S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

- 1. Provide an immediate and predetermined response plan to any condition when H2S is detected. All H2S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
- 2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
- 3. Provide proper evacuation procedures to cope with emergencies.
- 4. Provide immediate and adequate medical attention should an injury occur.

Discussion

Implementation: This plan with all details is to be fully implemented

before drilling to <u>commence</u>.

Emergency response

Procedure:

This section outlines the conditions and denotes steps

to be taken in the event of an emergency.

Emergency equipment

Procedure:

This section outlines the safety and emergency

equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that must

be adhered to prior to drilling.

Drilling emergency call lists: Included are the telephone numbers of all persons to

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

Public safety: Public safety personnel will be made aware of any

potential evacuation and any additional support

needed.

Check lists: Status check lists and procedural check lists have been

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

- 1. The hazards and characteristics of H2S.
- 2. Proper use and maintenance of personal protective equipment and life support systems.
- 3. H2S detection.
- 4. Proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
- 5. Proper techniques for first aid and rescue procedures.
- 6. Physical effects of hydrogen sulfide on the human body.
- 7. Toxicity of hydrogen sulfide and sulfur dioxide.
- 8. Use of SCBA and supplied air equipment.
- 9. First aid and artificial respiration.
- 10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan.

H2S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H2S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H2S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H2S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site briefing

Emergency Equipment Requirements

1. Well control equipment

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as BLM Onshore Order #2.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground. Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. <u>Protective equipment for personnel</u>

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. Hydrogen sulfide sensors and alarms

- A. H2S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H2S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. <u>Visual Warning Systems</u>

A. One sign located at each location entrance with the following language:

Caution – potential poison gas Hydrogen sulfide No admittance without authorization *Wind sock – wind streamers:*

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

Condition flags

A. One each condition flag to be displayed to denote conditions.

```
green – normal conditions
yellow – potential danger
red – danger, H2S present
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B. Condition flag shall be posted at each location sign entrance.

5. <u>Mud Program</u>

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. <u>Metallurgy</u>

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

9. <u>Designated area</u>

- A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
- B. There will be a designated smoking area.
- C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.

B. If uncontrollable conditions occur:

1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

- 1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

All personnel:

- 1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
- 2. Check status of personnel (buddy system).
- 3. Secure breathing equipment.
- 4. Await orders from supervisor.

Drill site manager:

- 1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
- 3. Determine H2S concentrations.
- 4. Assess situation and take control measures.

Tool pusher:

- 1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).
- 3. Determine H2S concentration.
- 4. Assess situation and take control measures.

Driller:

1. Don escape unit, shut down pumps, continue

- rotating DP.
- 2. Check monitor for point of release.
- 3. Report to nearest upwind designated safe briefing / muster area.
- 4. Check status of personnel (in an attempt to rescue, use the buddy system).
- 5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
- 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.

Derrick man Floor man #1 Floor man #2 1. Will remain in briefing / muster area until instructed by supervisor.

Mud engineer:

- 1. Report to nearest upwind designated safe briefing / muster area.
- 2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)

Safety personnel:

1. Mask up and check status of all personnel and secure operations as instructed by drill site manager.

Taking a kick

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope controlling the blowout under the prevailing conditions at the well.

<u>Instructions for igniting the well</u>

- 1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
- 2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
- 3. Ignite upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best for protection, and which offers an easy escape route.
- 5. Before firing, check for presence of combustible gas.
- 6. After lighting, continue emergency action and procedure as before.
- 7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

Remember: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. **Do not assume the area is safe after the well is ignited.**

Status check list

Note: All items on this list must be completed before drilling to production casing point.

- 1. H2S sign at location entrance.
- 2. Two (2) wind socks located as required.
- 3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
- 4. Air packs inspected and ready for use.
- 5. Cascade system and hose line hook-up as needed.
- 6. Cascade system for refilling air bottles as needed.
- 7. Condition flag on location and ready for use.
- 8. H2S detection system hooked up and tested.
- 9. H2S alarm system hooked up and tested.
- 10. Hand operated H2S detector with tubes on location.
- 11. 1 100' length of nylon rope on location.
- 12. All rig crew and supervisors trained as required.
- 13. All outside service contractors advised of potential H2S hazard on well.
- 14. No smoking sign posted and a designated smoking area identified.
- 15. Calibration of all H2S equipment shall be noted on the IADC report.

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i neckea ny	<i>)</i> •	Date:
Checked o	•	Butc

Procedural check list during H2S events

Perform each tour:

- 1. Check fire extinguishers to see that they have the proper charge.
- 2. Check breathing equipment to ensure that it in proper working order.
- 3. Make sure all the H2S detection system is operative.

Perform each week:

- 1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
- 2. BOP skills (well control drills).
- 3. Check supply pressure on BOP accumulator stand by source.
- 4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
- 5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
- 6. Confirm pressure on all supply air bottles.
- 7. Perform breathing equipment drills with on-site personnel.
- 8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

General evacuation plan

- 1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
- 2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
- 4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
- 5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

<u>Important:</u> Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

- 1. Evacuate all personnel to "Safe Briefing / Muster Areas" or off location if needed.
- 2. If sour gas evacuate rig personnel.
- 3. If sour gas evacuate public within 3000 ft radius of exposure.
- 4. Don SCBA and shut well in if possible using the buddy system.
- 5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
- 6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
- 6. Give first aid as needed.

Person down location/facility

- 1. If immediately possible, contact 911. Give location and wait for confirmation.
- 2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity – 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i Toxicity of various gases

Common	Chemical	Specific	Threshold	Hazardous	Lethal concentration
name	formula	gravity	limit	limit	(3)
		(sc=1)	(1)	(2)	
Hydrogen	Hen	0.94	10 ppm	150 ppm/hr	300 ppm
Cyanide			• •	**	**
Hydrogen	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfide			• •	**	**
Sulfur	So2	2.21	5 ppm	-	1000 ppm
Dioxide			* *		**
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
			**	**	**
Carbon	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Monoxide			11	11	**
Carbon	Co2	1.52	5000 ppm	5%	10%
Dioxide			11		
Methane	Ch4	0.55	90,000 ppm	Combustibl	e above 5% in air

- 1) threshold limit concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit concentration that will cause death with short-term exposure.
- 3) lethal concentration concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

		Concentration	Physical effects
Percent (%)	<u>Ppm</u>	Grains	
		100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.

0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in $3 - 15$ minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

^{*}at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper facepiece to face seal. They shall wear SCBA's in normal air and then wear them in a
 test atmosphere. (note: such items as facial hair {beard or sideburns} and
 eyeglasses will not allow proper seal.) Anyone that may be reasonably expected
 to wear SCBA's should have these items removed before entering a toxic
 atmosphere. A special mask must be obtained for anyone who must wear
 eyeglasses or contact lenses.
- 4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 - 1. Inspection for defects, including leak checks.
 - 2. Cleaning and disinfecting.
 - 3. Repair.
 - 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 - 1. Fully charged cylinders.
 - 2. Regulator and warning device operation.
 - 3. Condition of face piece and connections.
 - 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
- 6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

- B. When breaking out any line where H2S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H2S exists.
- D. When working in areas where over 10 ppm H2S has been detected.
- E. At any time there is a doubt as to the H2S level in the area to be entered.

Rescue First aid for H2S poisoning

Do not panic!

Remain calm – think!

- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
- 4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
- 5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H2S gas poisoning no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Charlie Chocolate 13-14-15 Charlie Chocolate 13_14 Fed Com 313H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

23 October, 2019

Planning Report

HOPSPP Database:

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Charlie Chocolate 13-14-15

Well: Charlie Chocolate 13 14 Fed Com 313H

Wellbore: Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Charlie Chocolate 13_14 Fed Com 313H

RKB=26.5' @ 3273.70ft

RKB=26.5' @ 3273.70ft Grid Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983

North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

Site Charlie Chocolate 13-14-15

Northing: 574,700.48 usft 32° 34' 47.130378 N Site Position: Latitude: From: Мар Easting: 600,645.96 usft Longitude: 104° 8' 26.833530 W **Position Uncertainty:** 2.00 ft Slot Radius: 13.200 in **Grid Convergence:** 0.10°

Well Charlie Chocolate 13_14 Fed Com 313H

Well Position +N/-S 32° 34' 15.443956 N -3,193.37 ft Northing: 571,507.39 usft Latitude: 104° 7' 30.844075 W 605,442.78 usft +E/-W 4,797.25 ft Easting: Longitude:

Position Uncertainty 2.00 ft Wellhead Elevation: **Ground Level:** 3,247.20 ft

Wellbore #1 Wellbore Declination Field Strength **Dip Angle** Magnetics **Model Name** Sample Date (°) (°) (nT) 47,948.70000000 HDGM FILE 10/23/2019 7.22 60.28

Design Permitting Plan **Audit Notes:** Phase: Version: **PROTOTYPE** Tie On Depth: 0.00 Depth From (TVD) Direction **Vertical Section:** +N/-S +E/-W (ft) (ft) (ft) (°) 0.00 0.00 272.52 0.00

Depth From Depth To (ft) (ft) Survey (Wellbore) Remarks **Tool Name**

Permitting Plan (Wellbore #1) OWSG MWD + HRGM

Date 10/23/2019

B001Mb_MWD+HRGM

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,575.00	0.00	0.00	3,575.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,175.00	12.00	65.33	4,170.62	26.13	56.89	2.00	2.00	0.00	65.33	
8,378.45	12.00	65.33	8,282.22	390.91	851.07	0.00	0.00	0.00	0.00	
9,398.63	91.12	269.86	8,960.70	450.60	277.15	10.00	7.76	-15.24	-154.89	
19,377.56	91.12	269.86	8,765.70	426.17	-9,699.84	0.00	0.00	0.00	0.00	PBHL (Charlie

Plan Survey Tool Program

0.00

19,377.56

Planning Report

Database: Company:

Project:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Charlie Chocolate 13-14-15

Well: Charlie Chocolate 13_14 Fed Com 313H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Charlie Chocolate 13_14 Fed Com 313H

RKB=26.5' @ 3273.70ft

RKB=26.5' @ 3273.70ft

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,575.00	0.00	0.00	3,575.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.50	65.33	3,600.00	0.05	0.10	-0.10	2.00	2.00	0.00
3,700.00	2.50	65.33	3,699.96	1.14	2.48	-2.43	2.00	2.00	0.00
3,800.00	4.50	65.33	3,799.77	3.69	8.03	-7.86	2.00	2.00	0.00
3,900.00	6.50	65.33	3,899.30	7.69	16.73	-16.38	2.00	2.00	0.00
4,000.00	8.50	65.33	3,998.44	13.13	28.60	-27.99	2.00	2.00	0.00
4,100.00	10.50	65.33	4,097.07	20.02	43.59	-42.67	2.00	2.00	0.00
4,175.00	12.00	65.33	4,170.62	26.13	56.89	-55.69	2.00	2.00	0.00
4,200.00	12.00	65.33	4,195.08	28.30	61.61	-60.31	0.00	0.00	0.00
4,300.00	12.00	65.33	4,292.89	36.98	80.51	-78.80	0.00	0.00	0.00
4,400.00	12.00	65.33	4,390.71	45.66	99.40	-97.30	0.00	0.00	0.00
4,500.00	12.00	65.33	4,488.52	54.33	118.29	-115.79	0.00	0.00	0.00
4,600.00	12.00	65.33	4,586.34	63.01	137.19	-134.29	0.00	0.00	0.00
4,700.00	12.00	65.33	4,684.15	71.69	156.08	-152.78	0.00	0.00	0.00
4,800.00	12.00	65.33	4,781.97	80.37	174.97	-171.28	0.00	0.00	0.00
4,900.00	12.00	65.33	4,879.78	89.05	193.87	-189.77	0.00	0.00	0.00
5,000.00	12.00	65.33	4,977.60	97.72	212.76	-208.27 -226.76	0.00	0.00	0.00
5,100.00	12.00	65.33	5,075.41	106.40	231.65		0.00	0.00	0.00

Planning Report

Database: Company:

Project:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Charlie Chocolate 13-14-15

Well: Charlie Chocolate 13_14 Fed Com 313H

Wellbore: Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Charlie Chocolate 13_14 Fed Com 313H

RKB=26.5' @ 3273.70ft RKB=26.5' @ 3273.70ft

esign:	Permitting Pla	an							
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)
5,200.00	12.00	65.33	5,173.22	115.08	250.55	-245.25	0.00	0.00	0.00
5,300.00	12.00	65.33	5,271.04	123.76	269.44	-263.75	0.00	0.00	0.00
5,400.00	12.00	65.33	5,368.85	132.44	288.33	-282.24	0.00	0.00	0.00
5,500.00	12.00	65.33	5,466.67	141.11	307.23	-300.74	0.00	0.00	0.00
5,600.00	12.00	65.33	5,564.48	149.79	326.12	-319.23	0.00	0.00	0.00
5,700.00	12.00	65.33	5,662.30	158.47	345.01	-337.73	0.00	0.00	0.00
5,800.00	12.00	65.33	5,760.11	167.15	363.91	-356.22	0.00	0.00	0.00
5,900.00	12.00	65.33	5,857.93	175.83	382.80	-374.71	0.00	0.00	0.00
6,000.00	12.00	65.33	5,955.74	184.50	401.69	-393.21	0.00	0.00	0.00
6,100.00	12.00	65.33	6,053.56	193.18	420.59	-411.70	0.00	0.00	0.00
6,200.00	12.00	65.33	6,151.37	201.86	439.48	-430.20	0.00	0.00	0.00
6,300.00	12.00	65.33	6,249.19	210.54	458.38	-448.69	0.00	0.00	0.00
6,400.00	12.00	65.33	6,347.00	219.22	477.27	-467.19	0.00	0.00	0.00
6,500.00	12.00	65.33	6,444.82	227.89	496.16	-485.68	0.00	0.00	0.00
6,600.00	12.00	65.33	6,542.63	236.57	515.06	-504.18	0.00	0.00	0.00
6,700.00	12.00	65.33	6,640.45	245.25	533.95	-522.67	0.00	0.00	0.00
6,800.00	12.00	65.33	6,738.26	253.93	552.84	-541.16	0.00	0.00	0.00
6,900.00	12.00	65.33	6,836.08	262.61	571.74	-559.66	0.00	0.00	0.00
7,000.00	12.00	65.33	6,933.89	271.28	590.63	-578.15	0.00	0.00	0.00
7,100.00	12.00	65.33	7,031.71	279.96	609.52	-596.65	0.00	0.00	0.00
7,100.00	12.00	65.33	7,129.52	288.64	628.42	-615.14	0.00	0.00	0.00
7,300.00	12.00	65.33	7,227.33	297.32	647.31	-633.64	0.00	0.00	0.00
7,400.00	12.00	65.33	7,325.15	306.00	666.20	-652.13	0.00	0.00	0.00
7,500.00	12.00	65.33	7,422.96	314.68	685.10	-670.62	0.00	0.00	0.00
7,600.00	12.00	65.33	7,520.78	323.35	703.99	-689.12	0.00	0.00	0.00
7,700.00	12.00	65.33	7,618.59	332.03	722.88	-707.61	0.00	0.00	0.00
7,800.00	12.00	65.33	7,716.41	340.71	741.78	-726.11	0.00	0.00	0.00
7,900.00	12.00	65.33	7,814.22	349.39	760.67	-744.60	0.00	0.00	0.00
8,000.00	12.00	65.33	7,912.04	358.07	779.56	-763.10	0.00	0.00	0.00
8,100.00	12.00	65.33	8,009.85	366.74	798.46	-781.59	0.00	0.00	0.00
8,200.00	12.00	65.33	8,107.67	375.42	817.35	-800.09	0.00	0.00	0.00
8,300.00	12.00	65.33	8,205.48	384.10	836.25	-818.58	0.00	0.00	0.00
8,378.45	12.00	65.33	8,282.22	390.91	851.07	-833.09	0.00	0.00	0.00
8,400.00	10.09	60.10	8,303.37	392.78	854.74	-836.68 942.70	10.00	-8.86 4.87	-24.25 74.15
8,500.00	5.22	345.95	8,402.64	401.58	861.25	-842.79	10.00	-4.87 7.12	-74.15
8,600.00	12.33	293.86	8,501.53	410.33	850.35	-831.52	10.00	7.12	-52.09
8,700.00	21.83	282.74	8,597.03	418.77	822.38	-803.20	10.00	9.50	-11.12
8,800.00	31.63	278.23	8,686.25	426.64	778.18	-758.71	10.00	9.80	-4.51
8,900.00	41.51	275.70	8,766.47	433.71	719.11	-699.38	10.00	9.89	-2.53
9,000.00	51.44	274.01	8,835.25	439.75	646.94	-627.02	10.00	9.92	-1.69
9,100.00	61.38	272.73	8,890.50	444.58	563.89	-543.83	10.00	9.94	-1.28
9,200.00	71.34	271.67	8,930.55	448.07	472.46	-452.34	10.00	9.95	-1.06
9,200.00	81.30	271.67	8,954.18	450.07	375.45	-452.34 -355.33	10.00	9.95	-0.94
9,398.63	91.12	269.86	8.960.70	450.60	277.15	-257.11	10.00	9.96	-0.89
9,400.00	91.12	269.86	8.960.67	450.59	275.79	-255.74	0.00	0.00	0.00
9,500.00	91.12	269.86	8,958.72	450.35	175.81	-155.87	0.00	0.00	0.00
9,600.00	91.12	269.86	8,956.76	450.10	75.82	-56.00	0.00	0.00	0.00
9,700.00	91.12	269.86	8,954.81	449.86	-24.16	43.88	0.00	0.00	0.00
9,800.00	91.12	269.86	8,952.85	449.61	-124.14	143.75	0.00	0.00	0.00
9,900.00	91.12	269.86	8,950.90	449.37	-224.12	243.63	0.00	0.00	0.00
10,000.00	91.12	269.86	8,948.94	449.12	-324.10	343.50	0.00	0.00	0.00
10,100.00	91.12	269.86	8,946.99	448.88	-424.08	443.37	0.00	0.00	0.00
10,200.00	91.12	269.86	8,945.04	448.63	-524.06	543.25	0.00	0.00	0.00
10,300.00	91.12	269.86	8,943.08	448.39	-624.04	643.12	0.00	0.00	0.00

Planning Report

Database: Company:

Project:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Charlie Chocolate 13-14-15

Well: Charlie Chocolate 13_14 Fed Com 313H

Wellbore: Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Charlie Chocolate 13_14 Fed Com 313H

RKB=26.5' @ 3273.70ft RKB=26.5' @ 3273.70ft

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)
10,400.00	91.12	269.86	8,941.13	448.14	-724.02	742.99	0.00	0.00	0.00
10,500.00	91.12	269.86	8,939.17	447.90	-824.00	842.87	0.00	0.00	0.00
10,600.00	91.12	269.86	8,937.22	447.65	-923.98	942.74	0.00	0.00	0.00
10,700.00	91.12	269.86	8,935.27	447.41	-1,023.96	1,042.61	0.00	0.00	0.00
10,800.00	91.12	269.86	8,933.31	447.17	-1,123.94	1,142.49	0.00	0.00	0.00
10,900.00	91.12	269.86	8,931.36	446.92	-1,223.92	1,242.36	0.00	0.00	0.00
11,000.00	91.12	269.86	8,929.40	446.68	-1,323.90	1,342.23	0.00	0.00	0.00
11,100.00	91.12	269.86	8,927.45	446.43	-1,423.88	1,442.11	0.00	0.00	0.00
11,200.00	91.12	269.86	8,925.50	446.19	-1,523.86	1,541.98	0.00	0.00	0.00
11,300.00	91.12	269.86	8,923.54	445.94	-1,623.85	1,641.85	0.00	0.00	0.00
11,400.00	91.12	269.86	8,921.59	445.70	-1,723.83	1,741.73	0.00	0.00	0.00
11,500.00	91.12	269.86	8,919.63	445.45	-1,823.81	1,841.60	0.00	0.00	0.00
11,600.00	91.12	269.86	8,917.68	445.21	-1,923.79	1,941.47	0.00	0.00	0.00
11,700.00	91.12	269.86	8,915.73	444.96	-2,023.77	2,041.35	0.00	0.00	0.00
11,800.00	91.12	269.86	8,913.77	444.72	-2,123.75	2,141.22	0.00	0.00	0.00
11,900.00	91.12	269.86	8,911.82	444.47	-2,223.73	2,241.10	0.00	0.00	0.00
12,000.00	91.12	269.86	8,909.86	444.23	-2,323.71	2,340.97	0.00	0.00	0.00
12,100.00	91.12	269.86	8,907.91	443.98	-2,423.69	2,440.84	0.00	0.00	0.00
12,200.00	91.12	269.86	8,905.96	443.74	-2,523.67	2,540.72	0.00	0.00	0.00
12,300.00	91.12	269.86	8,904.00	443.49	-2,623.65	2,640.59	0.00	0.00	0.00
12,400.00	91.12	269.86	8,902.05	443.25	-2,723.63	2,740.46	0.00	0.00	0.00
12,500.00	91.12	269.86	8,900.09	443.00	-2,823.61	2,840.34	0.00	0.00	0.00
12,600.00	91.12	269.86	8,898.14	442.76	-2,923.59	2,940.21	0.00	0.00	0.00
12,700.00	91.12	269.86	8,896.18	442.51	-3,023.57	3,040.08	0.00	0.00	0.00
12,800.00	91.12	269.86	8,894.23	442.27	-3,123.55	3,139.96	0.00	0.00	0.00
12,900.00	91.12	269.86	8,892.28	442.02	-3,223.54	3,239.83	0.00	0.00	0.00
13,000.00	91.12	269.86	8,890.32	441.78	-3,323.52	3,339.70	0.00	0.00	0.00
13,100.00	91.12	269.86	8,888.37	441.53	-3,423.50	3,439.58	0.00	0.00	0.00
13,200.00	91.12	269.86	8,886.41	441.29	-3,523.48	3,539.45	0.00	0.00	0.00
13,300.00	91.12	269.86	8,884.46	441.05	-3,623.46	3,639.32	0.00	0.00	0.00
13,400.00	91.12	269.86	8,882.51	440.80	-3,723.44	3,739.20	0.00	0.00	0.00
13,500.00	91.12	269.86	8,880.55	440.56	-3,823.42	3,839.07	0.00	0.00	0.00
13,600.00	91.12	269.86	8,878.60	440.31	-3,923.40	3,938.94	0.00	0.00	0.00
13,700.00	91.12	269.86	8,876.64	440.07	-4,023.38	4,038.82	0.00	0.00	0.00
13,800.00	91.12	269.86	8,874.69	439.82	-4,123.36	4,138.69	0.00	0.00	0.00
13,900.00	91.12	269.86	8,872.74	439.58	-4,223.34	4,238.57	0.00	0.00	0.00
14,000.00	91.12	269.86	8,870.78	439.33	-4,323.32	4,338.44	0.00	0.00	0.00
14,100.00	91.12	269.86	8,868.83	439.09	-4,423.30	4,438.31	0.00	0.00	0.00
14,200.00	91.12	269.86	8,866.87	438.84	-4,523.28	4,538.19	0.00	0.00	0.00
14,300.00	91.12	269.86	8,864.92	438.60	-4,623.26	4,638.06	0.00	0.00	0.00
14,400.00	91.12	269.86	8,862.97	438.35	-4,723.24	4,737.93	0.00	0.00	0.00
14,500.00	91.12	269.86	8,861.01	438.11	-4,823.22	4,837.81	0.00	0.00	0.00
14,600.00 14,700.00 14,800.00 14,900.00 15,000.00	91.12 91.12 91.12 91.12	269.86 269.86 269.86 269.86 269.86	8,859.06 8,857.10 8,855.15 8,853.20 8,851.24	437.86 437.62 437.37 437.13 436.88	-4,923.21 -5,023.19 -5,123.17 -5,223.15 -5,323.13	4,937.68 5,037.55 5,137.43 5,237.30 5,337.17	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,100.00	91.12	269.86	8,849.29	436.64	-5,423.11	5,437.05	0.00	0.00	0.00
15,200.00	91.12	269.86	8,847.33	436.39	-5,523.09	5,536.92	0.00	0.00	0.00
15,300.00	91.12	269.86	8,845.38	436.15	-5,623.07	5,636.79	0.00	0.00	0.00
15,400.00	91.12	269.86	8,843.42	435.90	-5,723.05	5,736.67	0.00	0.00	0.00
15,500.00	91.12	269.86	8,841.47	435.66	-5,823.03	5,836.54	0.00	0.00	0.00
15,600.00	91.12	269.86	8,839.52	435.42	-5,923.01	5,936.42	0.00	0.00	0.00
15,700.00	91.12	269.86	8,837.56	435.17	-6,022.99	6,036.29	0.00	0.00	0.00

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Charlie Chocolate 13-14-15

Well: Charlie Chocolate 13_14 Fed Com 313H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Charlie Chocolate 13_14 Fed Com 313H

RKB=26.5' @ 3273.70ft RKB=26.5' @ 3273.70ft

Grid

esign:	Permitting Pla	an							
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)
15,800.00	91.12	269.86	8,835.61	434.93	-6,122.97	6,136.16	0.00	0.00	0.00
15,900.00	91.12	269.86	8,833.65	434.68	-6,222.95	6,236.04	0.00	0.00	0.00
16,000.00	91.12	269.86	8,831.70	434.44	-6,322.93	6,335.91	0.00	0.00	0.00
16,100.00	91.12	269.86	8,829.75	434.19	-6,422.91	6,435.78	0.00	0.00	0.00
16,200.00	91.12	269.86	8,827.79	433.95	-6,522.90	6,535.66	0.00	0.00	0.00
16,300.00	91.12	269.86	8,825.84	433.70	-6,622.88	6,635.53	0.00	0.00	0.00
16,400.00	91.12	269.86	8,823.88	433.46	-6,722.86	6,735.40	0.00	0.00	0.00
16,500.00	91.12	269.86	8,821.93	433.21	-6,822.84	6,835.28	0.00	0.00	0.00
16,600.00	91.12	269.86	8,819.98	432.97	-6,922.82	6,935.15	0.00	0.00	0.00
16,700.00	91.12	269.86	8,818.02	432.72	-7,022.80	7,035.02	0.00	0.00	0.00
16,800.00	91.12	269.86	8,816.07	432.48	-7,122.78	7,134.90	0.00	0.00	0.00
16,900.00	91.12	269.86	8,814.11	432.23	-7,222.76	7,234.77	0.00	0.00	0.00
17,000.00	91.12	269.86	8,812.16	431.99	-7,322.74	7,334.64	0.00	0.00	0.00
17,100.00	91.12	269.86	8,810.21	431.74	-7,422.72	7,434.52	0.00	0.00	0.00
17,200.00	91.12	269.86	8,808.25	431.50	-7,522.70	7,534.39	0.00	0.00	0.00
17,300.00	91.12	269.86	8,806.30	431.25	-7,622.68	7,634.26	0.00	0.00	0.00
17,400.00	91.12	269.86	8,804.34	431.01	-7,722.66	7,734.14	0.00	0.00	0.00
17,500.00	91.12	269.86	8,802.39	430.76	-7,822.64	7,834.01	0.00	0.00	0.00
17,600.00	91.12	269.86	8,800.44	430.52	-7,922.62	7,933.89	0.00	0.00	0.00
17,700.00	91.12	269.86	8,798.48	430.27	-8,022.60	8,033.76	0.00	0.00	0.00
17,800.00	91.12	269.86	8,796.53	430.03	-8,122.59	8,133.63	0.00	0.00	0.00
17,900.00	91.12	269.86	8,794.57	429.78	-8,222.57	8,233.51	0.00	0.00	0.00
18,000.00	91.12	269.86	8,792.62	429.54	-8,322.55	8,333.38	0.00	0.00	0.00
18,100.00	91.12	269.86	8,790.66	429.30	-8,422.53	8,433.25	0.00	0.00	0.00
18,200.00	91.12	269.86	8,788.71	429.05	-8,522.51	8,533.13	0.00	0.00	0.00
18,300.00	91.12	269.86	8,786.76	428.81	-8,622.49	8,633.00	0.00	0.00	0.00
18,400.00	91.12	269.86	8,784.80	428.56	-8,722.47	8,732.87	0.00	0.00	0.00
18,500.00	91.12	269.86	8,782.85	428.32	-8,822.45	8,832.75	0.00	0.00	0.00
18,600.00	91.12	269.86	8,780.89	428.07	-8,922.43	8,932.62	0.00	0.00	0.00
18,700.00	91.12	269.86	8,778.94	427.83	-9,022.41	9,032.49	0.00	0.00	0.00
18,800.00	91.12	269.86	8,776.99	427.58	-9,122.39	9,132.37	0.00	0.00	0.00
18,900.00	91.12	269.86	8,775.03	427.34	-9,222.37	9,232.24	0.00	0.00	0.00
19,000.00	91.12	269.86	8,773.08	427.09	-9,322.35	9,332.11	0.00	0.00	0.00
19,100.00	91.12	269.86	8,771.12	426.85	-9,422.33	9,431.99	0.00	0.00	0.00
19,200.00	91.12	269.86	8,769.17	426.60	-9,522.31	9,531.86	0.00	0.00	0.00
19,300.00	91.12	269.86	8,767.22	426.36	-9,622.29	9,631.73	0.00	0.00	0.00
19,377.56	91.12	269.86	8,765.70	426.17	-9,699.84	9,709.19	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Charlie - plan hits target ce - Point	0.00 enter	0.00	8,765.70	426.17	-9,699.84	571,933.52	595,743.80	32° 34' 19.834176 N	104° 9' 24.180857
FTP (Charlie - plan misses targe - Point	0.00 t center by 21	0.00 8.63ft at 89	8,960.70 51.47ft MD	451.82 (8803.44 TVI	834.61 D, 436.96 N, 6	571,959.17 683.47 E)	606,277.32	32° 34' 19.898271 N	104° 7' 21.080957

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Charlie Chocolate 13-14-15

Well: Charlie Chocolate 13_14 Fed Com 313H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Charlie Chocolate 13_14 Fed Com 313H

RKB=26.5' @ 3273.70ft RKB=26.5' @ 3273.70ft

Grid

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coor +N/-S (ft)	rdinates +E/-W (ft)	Comment
3,575.00	3,575.00	0.00	0.00	Build 2°/100'
4,175.00	4,170.62	26.13	56.89	Hold 12° Tangent
8,378.45	8,282.22	390.91	851.07	KOP, Build & Turn 10°/100'
9,398.63	8,960.70	450.60	277.15	Landing Point
19,377.56	8,765.70	426.17	-9,699.84	TD at 19377.56' MD



4000-

5000-

6000-

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Charlie Chocolate 13-14-15

Well: Charlie Chocolate 13_14 Fed Com 313H

Wellbore: Wellbore #1 Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

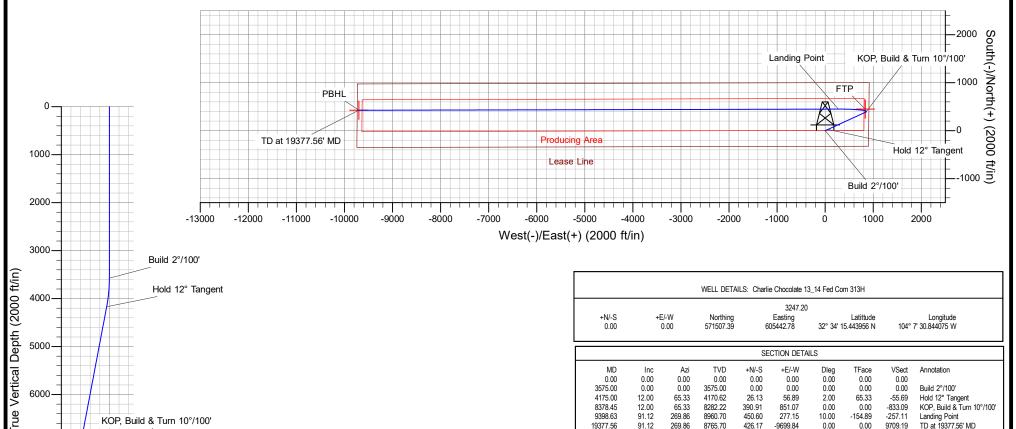
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

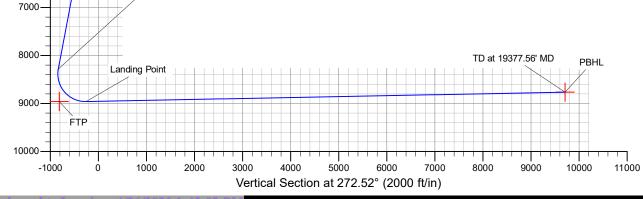
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



WELL DETAILS: Charlie Chocolate 13_14 Fed Com 313H									
+N/-S 0.00	+E/-W 0.00	Northing 571507.39	3247.20 Easting 605442.78) Latittude 32° 34' 15.443956 N	Longitude 104° 7' 30.844075 W				

				SE	CTION DETA	ILS			
MD 0.00	Inc 0.00	Azi 0.00	TVD 0.00	+N/-S 0.00	+E/-W 0.00	Dleg 0.00	TFace 0.00	VSect 0.00	Annotation
3575.00 4175.00	0.00 12.00	0.00 65.33	3575.00 4170.62	0.00 26.13	0.00 56.89	0.00 2.00	0.00 65.33	0.00 -55.69	Build 2°/100' Hold 12° Tangent
8378.45 9398.63	12.00 12.00 91.12	65.33 269.86	8282.22 8960.70	390.91 450.60	851.07 277.15	0.00 10.00	0.00 -154.89	-833.09 -257.11	KOP, Build & Turn 10°/100' Landing Point
19377.56	91.12	269.86	8765.70	426.17	-9699.84	0.00	0.00	9709.19	TD at 19377.56' MD





Azimuths to Grid North True North: -0.11° Magnetic North: 7.10°

Magnetic Field Strength: 47948.7nT Dip Angle: 60.28° Date: 10/23/2019 Model: HDGM_FILE

Hold 12° Tangent

KOP, Build & Turn 10°/100'

Oxy USA Inc. - Charlie Chocolate 13_14 Fed Com 313H Drill Plan

1. Geologic Formations

TVD of Target (ft):	8961	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	19378	Deepest Expected Fresh Water (ft):	100

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler			
Salado	404	404	Salt
Tansill	652	652	Salt
Capitan Reef	1188	1188	
Delaware	3156	3156	Oil/Gas/Brine
Bone Spring	5298	5269	Oil/Gas/Brine
Bone Spring 1st	6923	6859	Oil/Gas/Brine
Bone Spring 2nd	7534	7457	Oil/Gas
Bone Spring 3rd	8740	8634	Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

2. Casing Program

		V	ID	T\	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Conductor	26	0	304	0	304	20	78.6	J-55	Welded
Surface	17.5	0	752	0	752	13.375	54.5	J-55	ВТС
Intermediate	12.25	0	3256	0	3256	9.625	40	L-80 HC	ВТС
Production	8.5	0	19378	0	8961	5.5	20	P-110	DQX

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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

^{*}Oxy requests the option to run the 7.625" Intermediate II as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary.

^{*}Oxy requests the option to run production casing with DQX, TORQ DQW and/or TORQ SFW connections to accommodate hole conditions or drilling operations.

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

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 Onshore Order #2 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.

As per the agreement reached by Oxy/BLM on July 23, 2019, Oxy requests permission to deepen conductor to meet the 4 string casing design requirement of this area. Conductor and Surface casing will be set as follows:

- 1. Conductor casing will be set 70ft into Rustler formation where present.
- 2. Surface casing will be set 100ft into Tansil formation to isolate the Capitan Reef groundwater from salt bearing formations above.

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

3. Cementing Program

Section	Stage	Slurry:	Capacities	ft^3/ft	Excess:	From	То	Sacks	Volume (ft^3)	Placement
Conductor	1	Conductor/Surface - Tail	OH x Csg	1.5054	20%	304	-	413	549	Circulate
Surface	1	Conductor/Surface - Tail	OH x Csg	0.6946	100%	752	304	468	622	Circulate
Surface	1	Conductor/Surface - Tail	Csg x Csg	1.0454	0%	304	-	239	318	Circulate
Int.	1	Intermediate - Tail	OH x Csg	0.3132	20%	3,256	2,756	141	188	Circulate
Int.	1	Intermediate - Lead	OH x Csg	0.3132	20%	2,756	1,200	338	585	Circulate
Int.	2	Intermediate - Lead	OH x Csg	0.3132	20%	1,200	752	97	168	Circulate
Int.	2	Intermediate - Lead	Csg x Csg	0.3627	0%	752	-	158	273	Circulate
Prod.	1	Production - Tail	OH x Csg	0.2291	15%	19,378	8,378	2100	2898	Circulate
Prod.	1	Production - Lead	OH x Csg	0.2291	100%	8,378	3,256	1048	2347	Circulate
Prod.	1	Production - Lead	Csg x Csg	0.2608	0%	3,256	1,138	247	552	Circulate

Description	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)	500psi Time (hh:mm)	Cmt. Class	Accelerator	Retarder	Dispersant	Salt
Conductor/Surface - Tail	14.8	1.33	6.365	5:26	С	X			
Intermediate - Lead	12.9	1.73	8.784	15:26	Pozz		X		
Intermediate - Tail	14.8	1.33	6.368	7:11	С	X			
Production - Lead	11.9	2.24	12.327	14:46	Н		X	X	Х
Production - Tail	13.2	1.38	6.686	3:39	Н		X	Х	Х

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Offline Cementing

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.

The summarized operational sequence will be as follows:

Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).

Land casing.

Fill pipe with kill weight fluid, and confirm well is static.

If well 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.

The summarized 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.
- 3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.
- After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange.
- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
- 9. Install offline cement tool.
- 10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
- 11. Perform cement job.
- 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.

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Occidental - Permian New Mexico

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		1	Tested to:	Deepest TVD Depth (ft) per Section:	
			Diverter	- 500 psi Rotating Head	√	N/A		
				Annular				
17.5" Hole	13-5/8"			Blind Ram			752	
17.5 Hole	13-5/6			Pipe Ram			/52	
				Double Ram				
			Other*					
		3M		Annular	✓	70% of working pressure		
		21.4	Blind Ram		\			
12.25" Hole	13-5/8"		Pipe Ram			250 mai / 2000 mai	3256	
		3M		Double Ram	✓	250 psi / 3000 psi		
			Other*					
		3M		Annular	✓	70% of working pressure		
				Blind Ram	√			
8.5" Hole	13-5/8"	204	Pipe Ram			250 mai / 2000 mai	8961	
		3M		Double Ram		250 psi / 3000 psi		
			Other*					

Oxy requests a variance from Onshore Order No. 2 to drill the 17.5" surface hole with a diverter system in place of the required BOP system outlined in Section III.A.2.a.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 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

^{*}Specify if additional ram is utilized

Formation integrity test will be performed per Onshore Order #2.

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 Onshore Oil and Gas Order #2 III.B.1.i.

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 Onshore Order #2 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. A separate sundry will be sent prior to spud that reflects the pad based break testing plan.

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.

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight	Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Conductor	0	304	0	304	Water-Based Mud	8.6-8.8	40-60	N/C
Surface	304	752	304	752	Water-Based Mud	8.6-8.8	35-45	N/C
Intermediate	752	3256	752	3256	Saturated Brine-Based or Oil-Based Mud	8.0-10.0	35-45	N/C
Production	3256	19378	3256	8961	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	DVT/NAD Totas (Visual Manitoring
loss or gain of fluid?	PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

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

Add	itional logs planned	Interval	
No	Resistivity		
No	Density		
No	CBL		
Yes	Mud log	Bone Spring – TD	
No	PEX		

7. Drilling Conditions

Condition	Specify what type and where?		
BH Pressure at deepest TVD	4474 psi		
Abnormal Temperature	No		
BH Temperature at deepest TVD	152°F		

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

H2S is present

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 4 well pad in batch by section: all surface sections, intermediate	Vac
sections and production sections. The wellhead will be secured with a night cap whenever	Yes
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	

Total Estimated Cuttings Volume: 1830 bbls

Attachments

- _x__ Directional Plan
- _x__ H2S Contingency Plan
- _x__ Flex III Attachments
- _x__ Spudder Rig Attachment

9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
William Turner	Drilling Engineer Supervisor	713-350-4951	661-817-4586
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932



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

SUPO Data Report

APD ID: 10400053183 **Submission Date:** 01/14/2020

Operator Name: OXY USA WTP LP

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

 $Charlie Chocolate 13_14 Fd Com 313 H_Exist Roads_20200114120742.pdf$

Existing Road Purpose: ACCESS,FLUID TRANSPORT Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

CharlieChocolate13_14FdCom313H_NewRoads10DayLetter_20201021085034.pdf

New road type: LOCAL

Length: 3429.07 Feet

Width (ft.): 30

Max slope (%): 0 Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Watershed Diversion every 200' if needed.

New road access plan or profile prepared? Y

New road access plan attachment:

CharlieChocolate13_14FdCom313H_NewRoads10DayLetter_20201021085251.pdf

Access road engineering design? N

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information: None

Access miscellaneous information:

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) description: Watershed Diversion every 200' if needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

CharlieChocolate13_14FdCom313H_ExistWells_20200114120908.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

CharlieChocolate13_14FedCom313H_LeaseFacilityInfo10DayLetter_20201021085400.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Water source type: GW WELL

Water source use type: SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

OTHER Describe use type: Drilling

Source latitude: Source longitude:

Source datum:

Water source permit type: WATER WELL

Water source transport method: PIPELINE

TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2000 Source volume (acre-feet): 0.25778618

Source volume (gal): 84000

Water source and transportation map:

CharlieChocolate13_14FdCom313H_GRRWtrSrc_20200114121043.pdf CharlieChocolate13_14FdCom313H_MesqWtrSrc_20200114121048.pdf

Water source comments: This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite) in the area and will be hauled to location by transport truck using existing and proposed roads.

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aguifer documentation:

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Primary - All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary - The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6" of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120' X 120' area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120' X 120' within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be provided from Mesquite.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water

Amount of waste: 1891 barrels

Waste disposal frequency: Daily

Safe containment description: Haul-Off Bins

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

CharlieChocolate13_14FdCom313H_WellSiteCL_20200114121140.pdf

Comments: V-Door-South - CL Tanks- East - 330' X 510' 4 Well Pad

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: CHARLIE CHOCOLATE 13-14 FEDERAL

COM

Multiple Well Pad Number: 32H, 33H, 313H, 314H

Recontouring attachment:

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion

Well pad proposed disturbance

(acres): 3.86

Road proposed disturbance (acres):

2.36

Powerline proposed disturbance

(acres): 20.68

Pipeline proposed disturbance

(acres): 60.61

Other proposed disturbance (acres): 0

Total proposed disturbance:

87.5099999999999

Disturbance Comments: See Below

Well pad interim reclamation (acres):

(acres): 2.57

Road interim reclamation (acres): 1.26 Road long term disturbance (acres):

Powerline interim reclamation (acres): Powerline long term disturbance

Pipeline interim reclamation (acres):

37.8

Other interim reclamation (acres): 0

Total interim reclamation: 61.03

Well pad long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 22.81

Other long term disturbance (acres): 0

Total long term disturbance:

26.47999999999997

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by the BLM.

Existing Vegetation at the well pad: To be determined by the BLM at Onsite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: To be determined by the BLM at Onsite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: To be determined by the BLM at Onsite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: To be determined by the BLM at Onsite.

Existing Vegetation Community at other disturbances attachment:

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Pounds/Acre

Total pounds/Acre:

Seed Type

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: JIM Last Name: WILSON

Phone: (575)631-2442 Email: JIM_WILSON@OXY.COM

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To be determined by the BLM.

Weed treatment plan attachment:

Monitoring plan description: To be determined by the BLM.

Monitoring plan attachment:

Success standards: To be determined by the BLM.

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Pit closure description: NA

Pit closure attachment:

	Section 11 - Surface Ownership	
Di	sturbance type: WELL PAD	
De	escribe:	
Sı	ırface Owner:	
O	her surface owner description:	
ВІ	A Local Office:	
В	OR Local Office:	
C	DE Local Office:	
D	DD Local Office:	
N	PS Local Office:	
St	ate Local Office:	
M	litary Local Office:	
U	SFWS Local Office:	
O	her Local Office:	
U	SFS Region:	
U	SFS Forest/Grassland:	USFS Ranger District:
	sturbance type: PIPELINE	
De	escribe:	

BOR Local Office:

BIA Local Office:

Surface Owner:

Other surface owner description:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: OTHER	
Describe: Electric Line	
Surface Owner:	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: NEW ACCESS ROAD	
Describe:	
Surface Owner:	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	

DOD Local Office:

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? Y

Use APD as ROW? Y

ROW Type(s): 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,288101 ROW - O&G Facility Sites,289001 ROW- O&G Well Pad

ROW Applications

SUPO Additional Information: Permian Basin MOA - To be submitted after APD acceptance. GIS shapefiles available for BLM download from shared FTP site after APD submittal. **Use a previously conducted onsite?** N

Previous Onsite information:

Other SUPO Attachment

 $Charlie Chocolate 13_14 Fd Com 313 H_AM_20200114121410.pdf$

CharlieChocolate13_14FdCom313H_GasCapPlan_20200114121416.pdf

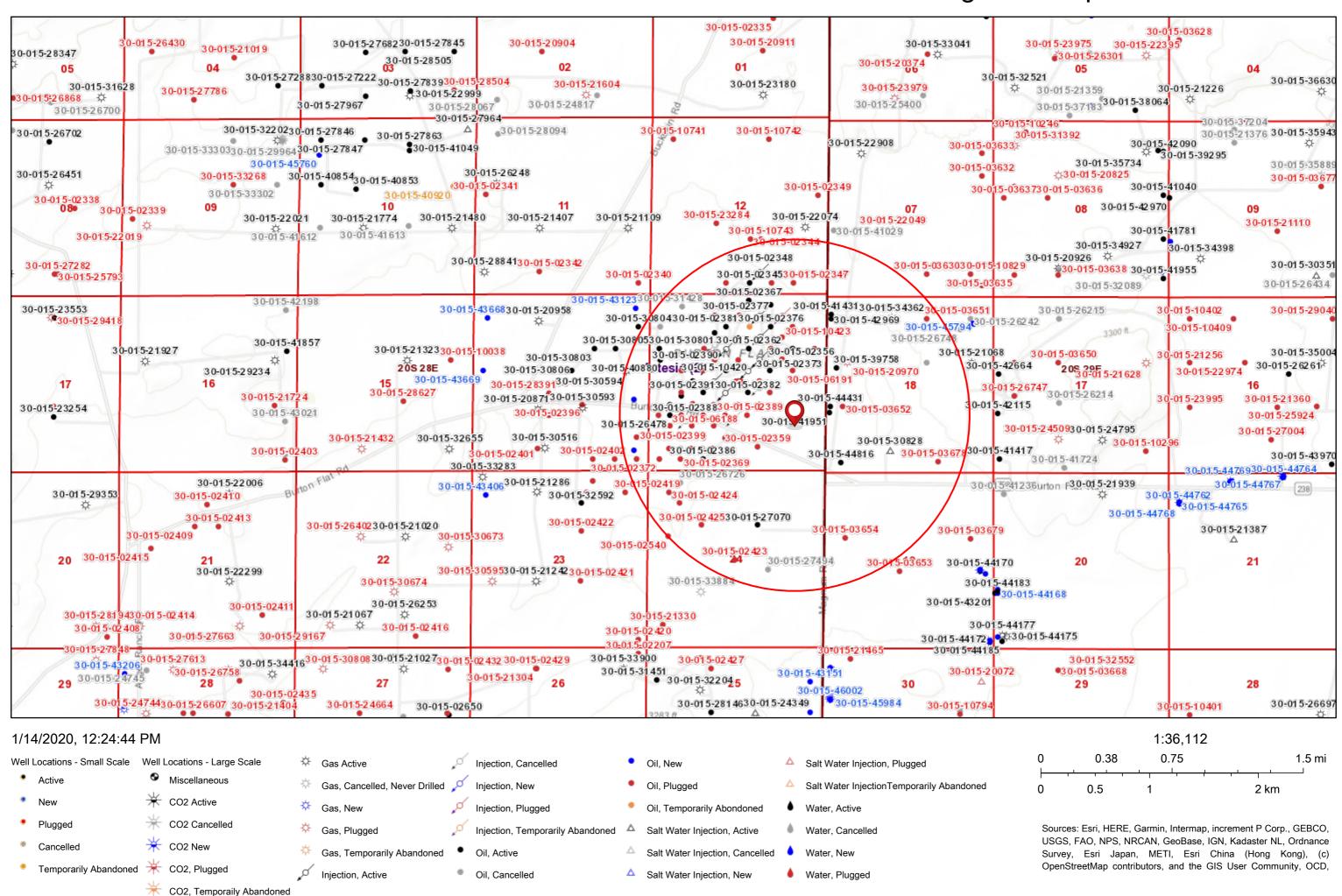
 $Charlie Chocolate 13_14 Fd Com 313 H_LVM_20200114121424.pdf$

 $Charlie Chocolate 13_14 Fd Com 313 H_Loc_20200114121431.pdf$

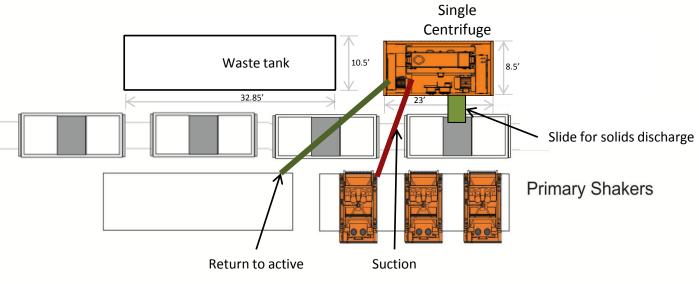
CharlieChocolate13_14FdCom313H_StakeForm_20200114121446.pdf

 $Charlie Chocolate 13_14 Fed Com 313 H_SUPO 10 Day Letter_2020 102 1085732.pdf$

Charlie Chocolate 13-14 Fed Com 313H 1-Mile Existing Well Map







Well Head

Oxy Single Centrifuge Closed Loop System – New Mexico Flex III May 28, 2013 District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Date: 01/10/2020

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

GAS CAPTURE PLAN

□ Original	Operator & OGRID No.: OXY USA INC 16696
☐ Amended - Reason for Amer	ndment:
This Gas Capture Plan outlines	actions to be taken by the Operator to reduce well/production facility flaring/venting for
new completion (new drill, reco	mplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
CHARLIE CHOCOLATE 13-14 FED COM 21H	Pending	A-13-T20S-R28E	1300FNL 300FEL	1,600	0	
CHARLIE CHOCOLATE 13-14 FED COM 23H	Pending	P-13-T20S-R28E	1080FSL 215FEL	1,600	0	
CHARLIE CHOCOLATE 13-14 FED COM 24H	Pending	P-13-T20S-R28E	1080FSL 180FEL	1,600	0	
CHARLIE CHOCOLATE 13-14 FED COM 312H	Pending	A-13-T20S-R28E	1300FNL 335FEL	3,100	0	
CHARLIE CHOCOLATE 13-14 FED COM 313H	Pending	I-13-T20S-R28E	1650FSL 930FEL	3,100	0	
CHARLIE CHOCOLATE 13-14 FED COM 314H	Pending	I-13-T20S-R28E	1580FSL 930FEL	3,100	0	
CHARLIE CHOCOLATE 13-14 FED COM 31H	Pending	A-13-T20S-R28E	460FNL 300FEL	3,100	0	
CHARLIE CHOCOLATE 13-14 FED COM 32H	Pending	I-13-T20S-R28E	1680FSL 930FEL	3,100	0	
CHARLIE CHOCOLATE 13-14 FED COM 33H	Pending	I-13-T20S-R28E	1615FSL 930FEL	3,100	0	
CHARLIE CHOCOLATE 13-14 FED COM 311H	Pending	A-13-T20S-R28E	1300FNL 370FEL	3,100	0	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility is dedicated to Enterprise Field Services, LLC ("Enterprise") and is connected to Enterprise low/high pressure gathering system located in Eddy County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise's Processing Plant located in Sec. 36, Twn. 24S, Rng. 30E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the *Released to Imaging:* 4/26/2021 1:45:02 PM

production facilities, unless there are operational issues on <u>Enterprise</u> system at that time. Based on current information, it is <u>OXY's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



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

Bond Info Data Report

Submission Date: 01/14/2020

Operator Name: OXY USA WTP LP

Well Name: CHARLIE CHOCOLATE 13-14 FEDERAL COM Well Number: 313H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

APD ID: 10400053183

Federal/Indian APD: FED

BLM Bond number: ESB000226

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 23793

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
OXY USA WTP LIMITED PARTNERSHI	P.O. Box 4294	Houston, TX772104294	192463	23793	FORM 3160-3

Created By	Comment	Comment Date
kpickford	KP GEO Review 4/17/2021	04/17/2021

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CONDITIONS

Action 23793

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:	
OXY USA WTP LIMITED PARTNERS	HI P.O. Box 4294	Houston, TX772104294	192463	23793	FORM 3160-3	

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system