	UNITED STATES	NTERIOR	OMB	1 APPROVED NO. 1004-0137 January 31, 2018
	UREAU OF LAND MANA		5. Lease Serial No. NMNM102914	· · ·
Do not use the abandoned we	is form for proposals to II. Use form 3160-3 (API	drill or to re-enter an D) for such proposals.	6. If Indian, Allottee	or Tribe Name
SUBMIT IN	TRIPLICATE - Other inst	ructions on page 2	7. If Unit or CA/Ag	eement, Name and/or No.
1. Type of Well Image: Type of Well <td>her</td> <td></td> <td>8. Well Name and N SALT FLAT CC</td> <td>20-29 FEDERAL COM 3</td>	her		8. Well Name and N SALT FLAT CC	20-29 FEDERAL COM 3
2. Name of Operator OXY USA INCORPORATED	Contact:	SARAH E CHAPMAN HAPMAN@OXY.COM	9. API Well No. 30-015-45049	-00-X1
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521	E 110	3b. Phone No. (include area code Ph: 713-350-4997		r Exploratory Area E-WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., 7	E., R., M., or Survey Description,)	11. County or Parish	, State
Sec 17 T24S R29E SESE 42 32.211441 N Lat, 104.001961			EDDY COUN	ΓΥ, NM
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICATE NATURE C	DF NOTICE, REPORT, OR OT	HER DATA
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION	
Notice of Intent	□ Acidize	🗖 Deepen	Production (Start/Resume)	□ Water Shut-Off
Subsequent Report	Alter Casing	Hydraulic Fracturing	□ Reclamation	Well Integrity
☐ Final Abandonment Notice	Casing Repair	New Construction Plug and Abandon	Recomplete Temporarily Abandon	Other Change to Original
	Convert to Injection	Plug Back	Water Disposal	PD
OXY USA Inc. respectfully red 1. Update pool, permitted in F 2. BHL is moving 290' east be 3. Drill Plan w/ new TD, casin 4. Directional Plan/Plot Please find all supporting doc	Purple Sage Wolfcamp, mo e 1090' FEL ig depths, cementing volur	oving to Pierce Crossing Bon mes, offline cementing, etc.	e Spring	43458
Thank you.			lsbad Field O Operator Cop	ince y
	Electronic Submission #	468919 verified by the BLM We	Il Information System	
14. I hereby certify that the foregoing i	For OXY USA mmitted to AFMSS for proc	A INCORPORATED, sent to the essing by PRISCILLA PEREZ of	on 06/13/2019 (19PP2419SE)	
		Title REGU	LATORY SPECIALIST	
Cor	E CHAPMAN			
Cor Name (Printed/Typed) SARAH E	E CHAPMAN	Date 06/13/2	2019	
Cor Name (Printed/Typed) SARAH E	Submission)			
Cor Name (Printed/Typed) SARAH E	Submission) THIS SPACE FC	Date 06/13/2 DR FEDERAL OR STATE		Date 07/15/20
Cor Name (Printed/Typed) SARAH E Signature (Electronic Approved By_NDUNGU KAMAU_ Conditions of approval, if any, are attachd certify that the applicant holds legal or eq	Submission) THIS SPACE FC ed. Approval of this notice does uitable title to those rights in the	Date 06/13/2 DR FEDERAL OR STATE TitlePETROL	OFFICE USE	Date 07/15/20
Cor Name (Printed/Typed) SARAH E Signature (Electronic	Submission) THIS SPACE FC ed. Approval of this notice does juitable title to those rights in the fuct operations thereon.	Date 06/13/2 DR FEDERAL OR STATE TitlePETROLF s not warrant or e subject lease Office Carlsba crime for any person knowingly an	OFFICE USE	

Revisions to Operator-Submitted EC Data for Sundry Notice #468919

		•	
		Operator Submitted	BLM Revised (AFMSS)
ę	Sundry Type:	APDCH NOI	APDCH NOI
L	_ease:	NMNM102914	NMNM102914
ļ	Agreement:		
(Operator:	OXY USA INC. P.O. BOX 4294 HOUSTON, TX 77210 Ph: 713-350-4997	OXY USA INCORPORATED 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521 Ph: 713.350.4816
,	Admin Contact:	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997
-	Tech Contact:	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 Ph: 713-350-4997	SARAH E CHAPMAN REGULATORY SPECIALIST E-Mail: SARAH_CHAPMAN@OXY.COM Cell: 281-642-5503 .Ph: 713-350-4997
I	Location: State: County:	NM EDDY	NM EDDY
ł	Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
1	Well/Facility:	SALT FLAT CC 20-29 FEDERAL COM 35H Sec 17 T24S R29E Mer NMP SESE 421FSL 1236FWL 32.211441 N Lat, 104.001962 W Lon	SALT FLAT CC 20-29 FEDERAL COM 35H Sec 17 T24S R29E SESE 421FSL 1236FEL 32.211441 N Lat, 104.001961 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INC.
LEASE NO.:	NMNM094651
WELL NAME & NO.:	SALT FLAT CC 20-29 FED 35H
SURFACE HOLE FOOTAGE:	421'/S & 1236'/E
BOTTOM HOLE FOOTAGE	20'/S & 1090'/E
LOCATION:	SECTION 17, T24S, R29E, NMPM
COUNTY:	EDDY

COA

H2S	⊂ Yes	€ No	
Potash	• None	← Secretary	⊂ R-111-P
Cave/Karst Potential	⊂ Low	• Medium	(High
Variance	∩ None	• Flex Hose	C Other
Wellhead	C Conventional	Multibowl	• • Both
Other	☐ 4 String Area	Capitan Reef	└ WIPP
Other	Fluid Filled	Cement Squeeze	F Pilot Hole
Special Requirements	☐ Water Disposal	COM	└ Unit

ALL PREVIOUS COAs STILL APPLY

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 10-3/4 inch surface casing shall be set at approximately 400 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 <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

Operator has proposed 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>Medium 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.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. <u>Operator must run</u> a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM. Excess calculates to 7% - additional cement might be required.

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 **200 feet** into previous casing string. Operator shall provide method of verification.

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 200 feet into previous casing string.
 Operator shall provide method of verification. Excess calculates to 20%
 additional cement might be required.

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 **5000 (5M)** 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 **5000 (5M)** 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)

BOP Break Testing Variance

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

Offline Cementing

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

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, 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. <u>When the Communitization Agreement number is known, it shall also be</u> on the sign.

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)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - 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. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> hours. WOC time will be recorded in the driller's log.
- <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
- 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: 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.
- 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.

NMK07152019

District 1 1625 N. Franch Dr., Hobba, NM 85240 Phene: (553) 393-6161 Faz: (575) 393-6700 Phene: (515) 748-1832 Faz: (575) 748-9720 Phane: (515) 748-1832 Faz: (575) 748-9720 Phane: (515) 748-1832 Faz: (535) 748-9720 District III 1000 Rio Brazon Road, Aztro, NM 87410 Phone: (505) 334-6178 Faz: (505) 334-6170 Phinter IV 1220 S. St. Francis Dr., Santa Fa, NM 87505 Phone: (505) 476-3460 Faz: (505) 478-3463 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

		I	WELL LOCAT	ION AND) ACF	REAGE D.	EDICA TIO	NPLAT			
	API	Number	Po	ol Code				Pool Name			
30-015	-450	49	5037			Pit	me Crisa	ng Brue	5 Sprir	-81	
Prope	rty Code				Property	' Name	÷	1			Well Number
			SALT FL.	4T CC ",	20-2	?9" FEDI	ERAL COM	ſ			35H
OGF	RID No.				Operator	r Name					Elevation
61	096			OXÝ	US/	A INC.				ź	2925.3'
·				Surfa	ace La	ocation					
UL or lot no.	Section	Touriship	Range		Lot Ida	Feet from the	North/South line	Feet from the	East/We	st line	County
Р	17	24 SOUTH	29 EAST, 1	<i>Т. М. Р. М</i> .		421'	SOUTH	1236'	EAS	T	EDD Y
			Bottom He	le Locatio	on If I	Different I	From Surfac	e	•		- <u>-</u>
UIL or lot no.	Section	Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	EastWe	st line	County
P 29 24 SOUTH 29 EAST, N.M.P.M. 20' SOUTH 1090' EAST ED							EDDY				
Dedicated	Acres	Joint or Infill Consolidation Code Order No.									
640	2										

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.

(F						·
		. 1	1			OPERATOR CERTIFICATION
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LONG.: V	104.0019626				. av	unization rather owns a working interest or unleased mineral
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18 17			50 17	16		a right to drill this well at this location persons to a construct
19 20		100	:090	21		k an owner of mick a mineral or working internat, or to a
KICK OFF			1090'		ve/	lintary pooling agreement or a computing pooling order
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LONG.: W 10					S.	
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X=643971. LAT.: N 32	2100059	- +	- 1			•
LONG.: W 10		5.3	i i i	1 1		SURVEYOR CERTIFICATION
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30 23			25	20	71	
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					Pr	ate of Survey and Seat US SIONAL AND Ofensional Survey
BOTTOM HOL				•		
NEW MEXI NAD 1	S83 i	GRID	E E E			
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LAT.: N 32. LONG.: W 10		$\sim NL$	1090' 3		G	ertificate Number 15079
30 29	Ì		Y	28		
	<u> </u>	VIII NOT				WO 171110WL-d (Rev. A) (KA)

RW 10-29-19

Intent 🖌 As Drilled		
API# 30-015-45049		
Operator Name:	Property Name:	Well Number
OVU USA Inc.	Salt Flat CC 20-29 Fed Com	35H
· · · · · · · · · · · · · · · · · · ·		

Kick Off Point (KOP)

UL Ą	Section 2つ	Township 245	Range 295	Lot	Feet 50	From N/S Morth	Feet 1090	From E/W	County EDD Y	
Latitu	de				Longitude				NAD J	
32.2101434				-104.0	014861			NAD83		

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County	
A	20	245	296		100	nown	1090	last	EDAM	
Latitu	Latitude					Longitude				
32.2100059				-104.00	14860			NA183		

Last Take Point (LTP)

UL P	Section 29	Township 245	Range 29É	Lot	Feet	From N/S Simth	Feet 1090	From E/W Cgt	County	
Latitu	de				Longitu	de			NAD	
32.		518			-10	4.00140	59		NAD83	

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X

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

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If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API#		
Operator Name:	Property Name:	Well Number
		KZ 06/29/2018

PERFORMANCE DATA

5.500 in

TMK UP TORQ[™] DQW Technical Data Sheet

Tubular Parameters

Size	5.500	in .
Nominal Weight	20.00	lbs/ft
Grade	P110 CY	
PE Weight	19.81	lbs/ft
Wall Thickness	0.361	in
Nominal ID	4.778	in -
Drift Diameter	4.653	in
Nom. Pipe Body Area	5.828	in²

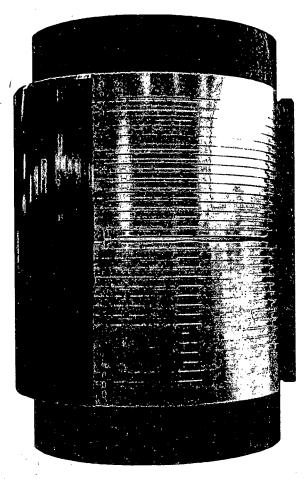
Connection	Parameters
------------	------------

Connection OD	6.050	in _.
Connection ID	4.778	in
Make-Up Loss	4.324	in
Critical Section Area	5.828	in²
Tension Efficiency	- 100.0	%
Compression Efficiency	· 100.0	%
Yield Load In Tension	641.000	lbs
Min. Internal Yield Pressure	12.640	psi
Collapse Pressure	11,110	psi
Uniaxial Bending	92	°/ 100 ft
	-	

Make-Up Torques

	and the second	
Min. Make-Up Torque	14,000	ft-Ibs
Opt. Make-Up Torque	16,000	ft-lbs
Max. Make-Up Torque	18,000	ft-lbs .
Operating Torque	36,800	ft-lbs
Yield Torque	46,000	ft-lbs

• ·		
Minimum Yield	110,000	psi
Minimum Tensile	125,000	psi
Yield Load	641,000	lbs
Tensile Load	729,000	lbs
Min. Internal Yield Pressure	12,640	psi
Collapse Pressure	11,110	psi .
	-	



Printed on: March-05-2019

NOTE:

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20.00 lbs/ft

P110 CY

PERFORMANCE DATA

5.500 in

TMK UP DQX Technical Data Sheet

Tubular Parameters

Size	5.500	ì in _,
Nominal Weight	20.00	lbs/ft
Grade	P-110	
PE Weight	19.81	lbs/ft
Wall Thickness	0.361	in
Nominal ID	4.778	in
Drift Diameter	4.653	in
Nom. Pipe Body Area	5.828	in²
		1

Connection Parameters		
Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4.122	in
Critical Section Area	5.828	in²
Tension Efficiency	- 100.0	%
Compression Efficiency	· 100.0	%
Yield Load In Tension	641.000	lbs
Min. Internal Yield Pressure	12,600	psi [†]
Collapse Pressure	11,100	psi

Make-Up Torques

Min. Make-Up Torque	11,600	ft-lbs
Opt. Make-Up Torque	12,900	ft-lbs
Max. Make-Up Torque	14,100	ft-lbs
Yield Torque	20,600	ft-lbs

Printed on: July-29-2014

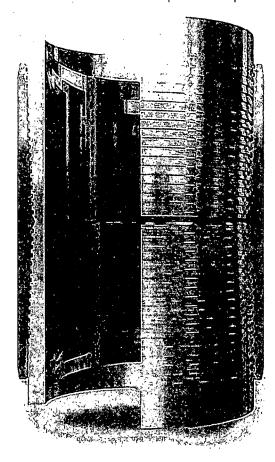
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i		
Minimum Yield	110,000	psi
Minimum Tensile	125,000	psi
Yield Load	641,000	lbs
Tensile Load	729,000	lbs
Min. Internal Yield Pressure	12,600	psi
Collapse Pressure	11,100	psi

20.00 lbs/ft



P-110

TECHNICAL DATA SHEET TMK UP DQX 5.5 X 20 P110

TUBULAR PARAMETERS		PIPE BODY PROPERTIES	
Nominal OD, (inch)	5.500	PE Weight, (lbs/ft)	19.81
Wall Thickness, (inch)	0.361	Nominal Weight, (lbs/ft)	20.00
Pipe Grade	P110	Nominal ID, (inch)	4.778
Coupling	Regular	Drift Diameter, (inch)	4.653
Coupling Grade	· P110	Nominal Pipe Body Area, (sq inch)	5.828
Drift	Standard	Yield Strength in Tension, (klbs)	641
		Min. Internal Yield Pressure, (psi)	12 640
CONNECTION PARAMETERS	•	Collapse Pressure, (psi)	11 110
Connection OD (inch)	6.05		
Connection ID, (inch)	4.778	internal Pressula	
Make-Up Loss, (inch)	4.122		
Connection Critical Area, (sq inch)	5.828		
		Same de la care de care de la de la desta	Barrin Alexander Continuer

Make-Up Loss, (Inch)	4.122
Connection Critical Area, (sq inch)	5.828
Yield Strength In Tension, (klbs)	641
Yeld Strength in Compression, (klbs)	641
Tension Efficiency	100%
Compression Efficiency	100%
Min. Internal Yield Pressure, (psi)	12 640
Collapse Pressure, (psi)	11 110
Uniaxial Bending (deg/100ft)	. 91.7

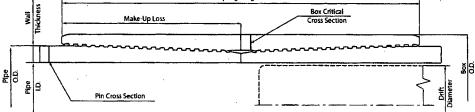
direction of the second	

Estamal Pressure

the Saily

Optimum Make-Up Torque, (ft-lb) 12 900 Maximum Make-Up Torque, (ft-lb) 14 100 Coupling Length Make-Up Loss

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20 600

11 600

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Print dale: 12/07/2017 18:09

MAKE-UP TORQUES

Yield Torque, (ft-lb)

Minimum Make-Up Torque, (ft-lb)

PERFORMANCE DATA

TMK UP SF TORQ™

5.500 in

20.00 lbs/ft

P110 HC

Technical Data Sheet

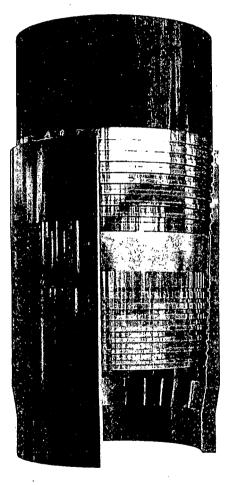
Tubular Parameters

Size	5.500	in	
Nominal Weight	20.00	lbs/ft	
Grade	P110 HC		
PE Weight	19.81	lbs/ft	
Wall Thickness	0.361	in	
Nominal ID	4.778	in	
Drift Diameter	4.653	in	
Nom. Pipe Body Area	、5.828	lin²	
Connection Parameters			
	F 777	1:0	

		r. 11
Make-Up Torques		
Uniaxial Bending	83	1/1001
•	02	0/ 100 f
Collapse Pressure	12,780	psi
Min. Internal Yield Pressure	12.640	psi
Yield Load In Tension	576,000	lbs
Compression Efficiency	90.0	%
Tension Efficiency	90.0	%
Critical Section Area	5.875	in²
Make-Up Loss	5.823	in
Connection ID	4.734	in
Connection OD	5.777	lin

Min. Make-Up Forque	15,700	11-105
Ópt. Make-Up Torque	19,600	ft-lbs
Max. Make-Up Torque	21.600	ft-lbs
Operating Torque	29,000	ft-lbs
Yield Torque	36,000	ft-lbs

• •		
Minimum Yield	110,000	psi
Minimum Tensile	125,000	psi
Yield Load	641,000	lbs
Tensile Load	728,000	lbs
Min. Internal Yield Pressure	12,640	[.] psi
Collapse Pressure	12,780	psi



Printed on: February-22-2018

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ΟΧΥ

PRD NM DIRECTIONAL PLANS (NAD 1983) SALT FLAT CC 20-29 FED COM Salt Flat CC 20-29 Federal Com 35H

WB00

Plan: Permitting Plan

Standard Planning Report

23 May, 2019

Oxy Planning Report

Database Company Project: Site Well Wellbore: Design	PRD NM SALT FL Salt Flat WB00 Permittir	ERING DESI I DIRECTION AT CC 20-29 CC 20-29 Fe	AL PLANS (FED COM deral Com 3	35H	TVD Referen MD Referen North Refere	ce:	RKE RKE Gric	Il Salt Flat CC 3=26.5' @ 295 3=26.5' @ 295 d imum Curvatu	51.80ft 51.80ft	ral Com 35H
Project	US State F	DIRECTION	L PLANS (I	NAD 1983)	System Datur		Mean	Sea Level	- metalan	t. Detry wood extracticaties (r 1932) -
Geo Datum: Map Zone:		rican Datum 1 to Eastern Zo					Using	geodetic scal	e factor	
Site	SALT FL	AT CC 20-29	FED COM	2012 (2012) 2012 (2012) 2013 (2012)	and name and the second states	adabat 157 databat da kal	RE VICENCIA E		W THE PRESENCE	Remain difference of the second
Site Position:			North	ling:	440,814	4.67 usft Lat	itude:			32° 12' 41.192577 1
From:	Мар	50.0	Easti	•			ngitude:			104° 0' 7.473464 V
Position Uncertai	nty: 	50.0	υπ Slot F	Radius:		3.200 in Gri	d Converger	108:	·=	0.18
Welle	Salt Flat (CC 20-29 Fed	eral Com 35	5H		antalan an ana dharana		49		Mar% 6.18 / 316 ° F
Well Position	+N/-S	-0.	18 ft No	orthing:	4.522.17.3 <i>7</i> 4.42.07.77278.5 4	40,814.49 usf	Latituc	de:	1775,500.a.v	32° 12' 41.189728
	+E/-W	35.	00 ft Ea	asting:	e	543,822.23 usf	t Longit	ude:		104° 0' 7.066072 V
Position Uncertai	nty WB00	2.		ellhead Elevati			Groun	d Level:		2,925.30
Wellbore	WB00	li Name HDGM	00 ft W		on: Management (27) Déclinatio		Groun	le	Field(S	anna an tha a Tha an tha an
Wellbore Magnetics Design		li Name HDGM	00 ft W	e(Dáte	and a state of a state	n	Dip Ang	le/		Strength (TT)
Wellbore	WB00	li Name HDGM	OO ft W	e/Date 5/23/2019	Declinatio	n 6.97	Dip Ang	le ² 59.93		Strength (TT)
Wellbore Magnetics Design Audit Notes: Version:	WB00 Mode	I)Name HDGM g Plan	OO ft W	e;Date 5/23/2019 se: PR	Declinatio (j)	6.97 Tie Or	Dip Ang	le 59.93	.00	Strength (TT)
Wellbore	WB00 Mode	I)Name HDGM g Plan	OO ft W	e/Date 5/23/2019	Declinatio (j)	n 6.97	Dip Ang	le ² 59.93	.00	Strength (TT)
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Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Vertical Sections Measured Depth Inc ((t) 0.00 7,541.00	Mode Permitting	IIName HDGM g Plan Den Zimuth?	00 ft W Samp Phas Phas pthFrom (T (ft) 0.00 Vertical Depth (ft) 0.00 7,541.00	eiDate 5/23/2019 se: PR VD) +N/Sc (fi) 0.00 0.00	COTOTYPE +N/-S (ft) 0.00 +E/-W (ft) 0.00 0.00	n 6.97 Tie Or 5.2/-W (ft) 0.00 0.00 0.00 0.00	Dip Ang (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	1000 0 179 179 179 0.00 0.00 0.00 0.00	.00 tion .25 TFO ()) 0.00 0.00	Strength nT)) 47,902
Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Vertical Sections Measured Depth (tt) 0.00 7,541.00 8,041.20	WB00 Mode Permittin Permittin	HDGM g Plan 200 200 200 0.00 0.00 50.34	00 ft W Samp Phas Phas pthFrom (T (ft) 0.00 7,541.00 8,038.67	e;Date 5/23/2019 se: PR VD) +N/S (ft) 0.00 0.00 0.00 27.80	COTOTYPE +N/S (ft) 0.00 +E/W (ft) 0.00 0.00 0.00 33.53	n 6.97 Tie Or £/.W (ft) 0.00 Dogleg Rate /100ft) 0.00 0.00 0.00 2.00	Dip Ang (2) (2) Depth: Depth: Build Rate /100ft) (1 0.00 0.00 2.00	16 59.93 0 Direc (179 179 Turn Rate (100ft) 0.00 0.00 0.00	.00 tion .25 	Strength nT)) 47,902
Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Vertical Sections Measured Depth Depth (tt) 0.00 7.541.00 8.041.20 8.449.89	WB00 Mode Permittin Permittin () () () () () () () () () () () () ()	HDGM g Plan zimuth 0.00 0.00 50.34 50.34	00 ft W Samp Phas pth(From (T (ft)) 0.00 Vertical? Depth (ft) 0.00 7,541.00 8,038.67 8,441.13	e;Date 5/23/2019 se: PR VD) +N/S (ft) 0.00 0.00 0.00 27.80 73.11	Déclinatio () COTOTYPE +N.S. (ft) 0.00 +E/W (ft) 0.00 0.00 0.00 33.53 88.19	n 6.97 Tie Or £//.W (ft) 0.00 Dogleg Rate /100ft) 0.00 0.00 2.00 0.00	Dip Ang (2) (2) Depth: Depth: Build Rate /100ft) (1 0.00 0.00 2.00 0.00	16 59.93 0 Direc (179 179 Turn Rate (100ft) 0.00 0.00 0.00 0.00	.00 tion .25 TFO () 0.00 0.00 50.34 0.00	Strength nT)) 47,902
Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Vertical Sections Measured Depth (tt) 0.00 7,541.00 8,041.20	WB00 Mode Permittin Permittin	HDGM g Plan 200 200 200 0.00 0.00 50.34	00 ft W Samp Phas Phas pthFrom (T (ft) 0.00 7,541.00 8,038.67	e;Date 5/23/2019 se: PR VD) +N/S (ft) 0.00 0.00 0.00 27.80	COTOTYPE +N/S (ft) 0.00 +E/W (ft) 0.00 0.00 0.00 33.53	n 6.97 Tie Or £/.W (ft) 0.00 Dogleg Rate /100ft) 0.00 0.00 0.00 2.00	Dip Ang (2) (2) Depth: Depth: Build Rate /100ft) (1 0.00 0.00 2.00	16 59.93 0 Direc (179 179 Turn Rate (100ft) 0.00 0.00 0.00	.00 tion .25 .25 .000 0.00 50.34 0.00 154.51	Strength nT)) 47,902

Оху Planning Report

Project: PRD NM DIRECTIONAL PLANS (NAD 1983) MD Reference RKB=26.5' @ 2951. Site: SALT FLAT CC 20-29 FED COM North Reference Grid Well Salt Flat CC 20-29 Federal Com 35H Survey. Calculation, Method: Grid Wellore: WB00 Permitting Plan Survey. Survey. Planned Survey. Vertical: Vertical: Vertical: Dogleg Builting Rate Measured Vertical: Depth +N/S) +E/-W Section Rate Rate	id.	Turn
Design Permitting Plan Planned Survey Weasured Vertical	te Oft)	Turn Rate
Planned Survey/ Measured Vertical Dogleg Bu	te Oft)	Turn Rate
Measured Vertical Vertical Post	te Oft)	Turn Rate
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5,000.00 0.00 0.00 5,000.00 0.00	0.00	0.00
5,100.00 0.00 0.00 5,100.00 0.00 0.00 0.00 0.00 5,200.00 0.00 0.00 5,200.00 0.00 0.00 0.00 0.00	0.00	0.00
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COMPASS 5000.1 Build 74

Oxy Planning Report

	atabase; ompany; roject: ite vell: vell: vellbore: besign:	HOPSPP	G DESIGNS CTIONAL PLA C 20-29 FED C)-29 Federal C	Local Co-ordinate Reference TVD Reference: LANS (NAD 1983) MD Reference: COM North Reference:			Well Salt Flat CC 20-29 Federal Com 35H RKB=26.5' @ 2951.80ft RKB=26.5' @ 2951.80ft Grid Minimum Curvature			
「いいいた」のようないなられないという	Planned Survey Measured Depth (ft)	Ainclination	,Azimuth			TEI WILL SS	/ertical) ection (ft)	Rate	Bülld Rate %100ft)	Turm Rate (*/100ft)
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	6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	6,500.00 6,600.00 6,700.00 6,800.00 6,800.00 6,900.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	6,500.00 6,600.00 6,700.00 6,800.00 6,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	7,000.00 7,100.00 7,200.00 7,300.00 7,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	7,000.00 7,100.00 7,200.00 7,300.00 7,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	7,500.00 7,541.00 7,600.00 7,700.00 7,800.00	0.00 0.00 1.18 3.18 5.18	0.00 0.00 50.34 50.34 50.34	7,500.00 7,541.00 7,600.00 7,699.92 7,799.65	0.00 0.00 0.39 2.82 7.47	0.00 0.00 0.47 3.40 9.01	0.00 0.00 -0.38 -2.77 -7.35	0.00 0.00 2.00 2.00 2.00	0.00 0.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
	7,900.00 8,000.00 8,041.20 8,100.00 8,200.00	7.18 9.18 10.00 10.00 10.00	50.34 50.34 50.34 50.34 50.34	7,899.06 7,998.04 8,038.67 8,096.57 8,195.05	14.34 23.42 27.80 34.32 45.40	17.30 28.25 33.53 41.40 54.77	-14.11 -23.04 -27.36 -33.77 -44.68	2.00 2.00 2.00 0.00 0.00	2.00 2.00 2.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	8,300.00 8,400.00 8,449.89 8,500.00 8,600.00	10.00 10.00 10.00 9.11 7.41	50.34 50.34 50.34 53.07 60.42	8,293.53 8,392.01 8,441.13 8,490.55 8,589.52	56.49 67.58 73.11 78.27 86.21	68.15 81.52 88.19 94.72 106.65	-55.59 -66.50 -71.95 -77.02 -84.81	0.00 0.00 2.00 2.00	0.00 0.00 0.00 -1.79 -1.70	0.00 0.00 0.00 5.44 7.35
	8,700.00 8,800.00 8,900.00 9,000.00 9,100.00	5.89 4.75 4.29 4.71 5.83	71.79 89.67 114.59 139.73 157.95	8,688.84 8,788.42 8,888.12 8,987.82 9,087.40	90.99 92.62 91.09 86.40 78.56	117.13 126.15 133.69 139.74 144.31	-89.45 -90.97 -89.34 -84.57 -76.66	2.00 2.00 2.00 2.00 2.00	-1.51 -1.14 -0.46 0.42 1.12	11.37 17.88 24.93 25.14 18.22
	9,200.00 9,300.00 9,354.36 9,400.00 9,500.00	7.33 9.03 10.00 14.56 24.56	169.56 177.04 180.03 180.03 180.03	9,186.74 9,285.72 9,339.34 9,383.92 9,478.03	67.57 53.45 44.47 34.77 1.33	147.37 148.93 149.15 149.14 149.13	-65.64 -51.50 -42.52 -32.82 0.62	2.00 2.00 10.00 10.00	1.50 1.70 1.78 10.00 10.00	11.61 7.48 5.49 0.00 0.00
	9,600.00 9,700.00 9,800.00 9,900.00 10,000.00	34.56 44.56 54.56 64.56 74.56	180.03 180.03 180.03 180.03 180.03	9,564.90 9,641.89 9,706.67 9,757.26 9,792.14	-47.95 -111.56 -187.58 -273.69 -367.28	149.11 149.08 149.04 149.00 148.96	49.90 113.50 189.51 275.61 369.19	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
	10,100.00 10,156.44 10,200.00	84.56 90.21 90.21	180.03 180.03 180.03	9,810.23 9,812.80 9,812.64	-465.50 -521.85 -565.42	148.92 148.89 148.87	467.40 523.75 567.31	10.00 10.00 0.00	10.00 10.00 ·	0.00 0.00 0.00

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Planning Report

	I ANDROLINI			Set States					ALSO AND
Database: Same well HC	PSPP			Local C	o-ordinate Re	ference:	Well Salt Flat CC		I Com 35H
Company: EN	IGINEERING	DESIGNS		TVD Re	ference:		RKB=26.5' @ 29	51.80ft	
Part Marches March 25 12			NS (NAD 1983)	1.5 1.5 1.6 1.6	C 1 3 3 1 1 1 1 1 1 1 1 1		RKB=26.5' @ 29	51.80ft	
PER ALLAND PROVIDENT AND					eference:	的资料 的新生产。	Grid		Ì
A ANTON OF LEAST AND A ANTONIO		20-29 FED C0		F 12,5296.1 +	とうこうえていていていたいがったり				,
Well:	It Flat CC 20-	29 Federal Co	m 35H	Survey	Calculation M	ethod:	Minimum Curvat	ure	
Wellbore:	B00					La a Sector			;
the state of the second s	mitting Plan			44775.02	以"我们不 计				1
Design: Pe				- PARADORS		and the second			
THE PACE STREET STREET	11.01.1.25.00.00.000000	L. L. WARANTAN MAN	a anasar salah sa ka	AND ALL MARKED AND A DESCRIPTION OF A DE		lentigatatoria Gl	an a	1 - 1. K. 1926 A	ar i gadada kalenda kalendari yang barang barang kalendari yang barang barang barang barang barang barang baran
Planned Survey	Marana ang ang ang ang ang ang ang ang ang	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	103			N	NINI PROVIDENCE		
Constant Statistics			Laver to 342 ast		· 新花花的"	S. Dagestan	1	and the provide state of	
Measured	$\{a,b,c,b,c,d,c,c,c,c,c,c,c,c,c,c,c,c,c,c,c$	ay Bart C	Vertical	"想定"例外,"是		Vertical 🤤		Build	Turn
Depth	lination	Azimuth 3	Depth	+N/-S: 3. 14		Section		Rate C. De	Rate
	(°)	191 3	*4•(ft)) - ₹*3*	(fi)	(ft) * * *	6 (ft) 5 2 3 5	((°/100ft) (******(*	+4498612	°/100ft): // 🗧 🖓
State State State	C. A. State State	Salar and Street	and a state of the second state		Carl Course		The Albert La	Restances and the second	and france in interest
10,300.00	90.21	180.03	9,812.28	-665.41	148.83	667.30	0.00	0.00	0.00
10,400.00	90.21	180.03	9,811.92	-765.41	148.78	767.29	0.00	0.00	0.00
				005.44	440 74	007.00	0.00	0.00	0.00
10,500.00	90.21	180.03	9,811.56	-865.41	148.74	867.28	0.00	0.00	0.00
10,600.00	90.21	180.03	9,811.20	-965.41	148.69	967.27	0.00	0.00	0.00
10,700.00	90.21	180.03	9,810.83	-1,065.41	148.65	1,067.26	0.00	0.00	0.00
10,800.00	90.21	180.03	9,810.47	-1,165.41	148.60	1,167.25	0.00	0.00	0.00
10,900.00	90.21	. 180.03	9,810.11	-1,265.41	148.55	1,267.24	0.00	0.00	0.00
					440 54	1 367 00	0.00	0.00	0.00
11,000.00	90.21	180.03	9,809.75	-1,365.41	148.51	1,367.23			
11,100.00	90.21	180.03	9,809.39	-1,465.41	148.46	1,467.22	0.00	0.00	0.00
11,200.00	90.21	180.03	9,809.03	-1,565.41	148.42	1,567.21	0.00	0.00	0.00
11,300.00	90.21	180.03	9,808.66	-1,665.41	148.37	1,667.21	0.00	0.00	0.00
11,400.00	90.21	180.03	9,808.30	-1,765.41	148.33	1,767.20	0.00	0.00	0.00
14 500 00	00.24	180.03	9,807.94	-1,865.41	148.28	1,867,19	0.00	0.00	0.00
11,500.00	90.21	180.03	9,807.94 9,807.58	-1,965.41	148.24	1,967.18	0.00	0.00	0.00
11,600.00	90.21						0.00	0.00	0.00
11,700.00	90.21	180.03	9,807.22	-2,065.41	148.19	2,067.17			0.00
11,800.00	90.21	180.03	9,806.85	-2,165.40	148.15	2,167.16	0.00	0.00	
11,900.00	90.21	180.03	9,806.49	-2,265.40	148.10	2,267.15	0.00	0.00	0.00
12,000.00	90.21	180.03	9,806,13	-2,365.40	148.05	2,367.14	0.00	0.00	0.00
.12,100.00	90.21	180.03	9,805.77	-2,465.40	148.01	2,467.13	0.00	0.00	0.00
		180.03	9,805.41	-2,565.40	147.96	2,567.12	0.00	0.00	0.00
12,200.00	90.21		9,805.05	-2,665.40	147.92	2,667.11	0.00	0.00	0.00
12,300.00	90.21	180.03	,		147.87	2,767.10	0.00	0.00	0.00
12,400.00	90.21	180.03	9,804.68	-2,765.40	147.07	2,707.10	0.00	0.00	
12,500.00	90.21	180.03	9,804.32	-2,865.40	147.83	2,867.09	0.00	0.00	0.00
12,600.00	90.21	180.03	9,803.96	-2,965.40	147.78	2,967.08	0.00	0.00	0.00
12,700.00	90.21	180.03	9,803.60	-3,065.40	147.74	3,067.07	0.00	0.00	0.00
12,800.00	90.21	180.03	9,803.24	-3,165.40	147.69	3,167.06	0.00	0.00	0.00
12,900.00	90.21	180.03	9,802.88	-3,265.40	147.65	3,267.05	0.00	0.00	0.00
12,900.00	50.21	100.00	3,002.00						
13,000.00	90.21	180.03	9,802.51	-3,365.40	147.60	3,367.04	0.00	0.00	0.00
13,100.00	90.21	180.03	9,802.15	-3,465.40	147.56	3,467.03	0.00	0.00	0.00
13,200.00	90.21	180.03	9,801.79	-3,565.40	147.51	3,567.02	0.00	0.00	0.00
13,300.00	90.21	180.03	9,801.43	-3,665.40	147.46	3,667.01	0.00	0.00	0.00
13,400.00	90.21	180.03	9,801.07	-3,765.39	147.42	3,767.00	0.00	0.00	0.00
				· ·				0.00	0.00
13,500.00	90.21	180.03	9,800.71	-3,865.39	147.37	3,866.99	0.00	0.00	0.00
13,600.00	90.21	180.03	9,800.34	-3,965.39	147.33	3,966.98	0.00	0.00	
13,700.00	90.21	180.03	9,799.98	-4,065.39	147.28	4,066.97	0.00	0.00	0.00
13,800.00	90.21	180.03	9,799.62	-4,165.39	147.24	4,166.96	0.00	0.00	0.00
13,900.00	90.21	180.03	9,799.26	-4,265.39	147.19	4,266.95	0.00	0.00	0.00
14 000 00	00.04	180.03	9,798.90	-4,365.39	147.15	4,366.94	0.00	0.00	0.00
14,000.00	90.21		9,798.90 9.798.53	-4,365.39 -4,465.39	147.15	4,300.94	0.00	0.00	0.00
14,100.00	90.21	180.03			147.10	4,400.93	0.00	0.00	0.00
14,200.00	90.21	180.03	9,798.17	-4,565.39		4,566.92	0.00	0.00	0.00
14,300.00	90.21	180.03	9,797.81	-4,665.39	147.01			· 0.00	0.00
14,400.00	90.21	180.03	9,797.45	-4,765.39	146.96	4,766.90	0.00	0.00	
14,500.00	90.21	180.03	9,797.09	-4,865.39	146.92	4,866.89	0.00	0.00	0.00
14,600.00	90.21	180.03	9,796.73	-4,965.39	146.87	4,966.88	0.00	0.00	0.00
1	90.21	180.03	9,796.36	-5,065.39	146.83	5,066.87	0.00	0.00	0.00
14,700.00				-5,065.39	146.78	5,166.86	0.00	0.00	0.00
14,800.00	90.21	180.03	9,796.00			5,266.85	0.00	0.00	0.00
14,900.00	90.21	180.03	9,795.64	-5,265.38	146.74	3,200.00	0.00		
15,000.00	90.21	180.03	9,795.28	-5,365.38	146.69	5,366.84	0.00	0.00	0.00
15,100.00	90.21	180.03	9,794.92	-5,465.38	146.65	5,466.83	0.00	0.00	0.00
	90.21	180.03	9,794.56 9,794.56	-5,565.38	146.60	5,566.82	0.00	0.00	0.00
15,200.00				-5,665.38	146.56	5,666.81	, 0.00	0.00	0.00
15,300.00	90.21	180.03	9,794.19		146.51	5,766.80	0.00	0.00	0.00
15,400.00	90.21	180.03	9,793.83	-5,765.38	. 140.01				
15,500.00	90.21	180.03	9,793.47	-5,865.38	146.47	5,866.79	0.00	0.00	0.00
15,600.00	90.21	180.03	9,793.11	-5,965.38	146.42	5,966.78	0.00	0.00	0.00
L. 10,000.00	50.21	,00.00	0,.00.11						

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Oxy Planning Report

	Contraction of the second s		1.91.41175-3389673		ordinate Ref		Well Salt Flat C	C 20-29 Feder	and there the set in a
	HOPSPP			Local Co		erence:			
Company:	ENGINEERING	DESIGNS		TVD Ref	erence:	a states a	RKB=26.5' @ 2		
Project:	PRD NM DIREC	TIONAL PLAN	IS (NAD 1983)	MD Refe	rence: 🖓		RKB=26.5' @ 2	951.80ft	
Site:	SALT FLAT CC			L'10 206 31 7575	eference:	Same and	Grid		
ET STATES	Salt Flat CC 20-2				Calculation M	ethod:	Minimum Curva	ture	•
Well:	21		11 3311	120	15.25 F 24				
Wellbore:	5 WB00								
Design:	Permitting Plan	مەربىيە 17 خاندىم، مەرمەر دىمۇمانىيە بىلىچىن			Sales and the second	- Carlon - Carlon		nan an ar frankrigen er en anderen. Bri	
AND THE REAL PROPERTY OF	Le par	erace cate	an 's constant anna an 's	STREET, DESCRIPTION	and the second state of th	PERSONAL PROPERTY OF AN AND ADDRESS	Weiling and a start of the	nderlasseneite (CB	Rund K., KORUNDO, D'A BUTWILL, DO BUTTING
Planned Survey	TATA T TRANSFER MANT	THE REPORT OF	re-strage	THE REAL PROPERTY OF THE RE			STREET.	THE FACE OF	STREED FOR
				相比较变得的	14999年1月1日	3. A & CON & W.	Charles Marken	Build	Turn
Measured			Vertical		Jane	Vertical	Dogleg	Rate	Rate
Depth		zimuth	Depti	*+N/-S 20-6913.		Section, (ft).	+Rate (*/100ft)	A & A & A & A & A & A & A & A & A & A &	(°/100ft)
(ft)	S. (1)	C) Star	(ft)	(ft)	(ft); 51,	ille the second			
THE PARTY AND ADDRESS OF		490.02	0 702 75	-6,065.38	146.37	6,066.77	0.00	0.00	0.00
15,700.00	90.21	180.03	9,792.75 9,792.39	-6,165.38	146.33	6,166.76	0.00	0.00	0.00
15,800.00	90.21	180.03	9,792.02	-6,265.38	146.28	6,266.75	0.00	0.00	0.00
15,900.00	90.21	180.03	9,792.02	-0,205.50		-			
16,000.00	90.21	180.03	9,791.66	-6,365.38	146.24	6,366.74	0.00	0.00	0.00
16,100.00	90.21	180.03	9,791.30	-6,465.38	146.19	6,466.73	0.00	0.00	0.00
16,200.00	90.21	180.03	9,790.94	-6,565.38	146.15	6,566.73	0.00	0.00	0.00
16,300.00	90.21	180.03	9,790.58	-6,665.38	146.10	6,666.72	0.00	0.00	0.00
16,400.00	90.21	180.03	9,790.21	-6,765.37	146.06	6,766.71	0.00	0.00	0.00
16 500 00	90.21	180.03	9,789.85	-6,865.37	146.01	6,866.70	0.00	0.00	0.00
16,500.00 16,600.00	90.21	180.03	9,789.49	-6,965.37	145.97	6,966.69	0.00	0.00	0.00
	90.21	180.03	9,789.13	-7,065.37	145.92	7,066.68	0.00	0.00	0.00
16,700.00 16,800.00	90.21	180.03	9,788.77	-7,165.37	145.88	7,166.67	0.00	0.00	0.00
16,900.00	90.21	180.03	9,788.41	-7,265.37	145.83	7,266.66	0.00	0.00	0.00
10,900.00	50.21							0.00	0.00
17,000.00	90.21	180.03	9,788.04	-7,365.37	145.78	7,366.65	0.00	0.00	0.00
17,100.00	90.21	180.03	9,787.68	-7,465.37	145.74	7,466.64	0.00	0.00	0.00
17,200.00	90.21	180.03	9,787.32	-7,565.37	145.69	7,566.63	0.00	0.00	0.00
17,300.00	90.21	180.03	9,786.96	-7,665.37	145.65	7,666.62	0.00	0.00	0.00
, 17,400.00	90.21	180.03	9,786.60	-7,765.37	145.60	7,766.61	0.00	0.00	0.00
17,500.00	90.21	180.03	9,786.24	-7,865.37	145.56	7,866.60	0.00	.0.00	0.00
17,600.00	90.21	180.03	9,785.87	-7,965.37	145.51	7,966.59	0.00	0.00	0.00
17,700.00	90.21	180.03	9,785.51	-8,065.37	145.47	8,066.58	0.00	0.00	0.00
17,800.00	90.21	180.03	9,785.15	-8,165.37	145.42	8,166.57	0.00	0.00	0.00
17,900.00	90.21	180.03	9,784.79	-8,265.36	145.38	8,266.56	0.00	0.00	0.00
17,500.00								0.00	0.00
18,000.00	90.21	180.03	9,784.43	-8,365.36	145.33	8,366.55	0.00	0.00 0.00	0.00
18,100.00	90.21	180.03	9,784.07	-8,465.36	145.28	8,466.54	0.00	0.00	0.00
18,200.00	90.21	180.03	9,783.70	-8,565.36	145.24	8,566.53	0.00	0.00	0.00
18,300.00	90.21	180.03	9,783.34	-8,665.36	145.19	8,666.52	0.00	0.00	0.00
18,400.00	90.21	180.03	9,782.98	-8,765.36	145.15	8,766.51	0.00	0.00	
18,500.00	90.21	180.03	9,782.62	-8,865.36	145.10	8,866.50	0.00	0.00	0.00
18,600.00	90.21	180.03	9,782.26	-8,965.36	145.06	8,966.49	0.00	0.00	0.00
18,700.00	90.21	180.03	9,781.90	-9,065.36	145.01	9,066.48	0.00	0.00	0.00
18,800.00	90.21	180.03	9,781.53	-9,165.36	144.97	9,166.47	0.00	0.00	0.00
18,900.00	90.21	180.03	9,781.17	-9,265.36	144.92	9,266.46	0.00	0.00	0.00
		180.03	9,780.81	-9,365.36	144.88	9,366.45	0.00	0.00	0.00
19,000.00	90.21		9,780.81	-9,365.36	144.83	9,466.44	0.00	0.00	0.00
19,100.00	90.21	180.03	9,780.45 9,780.09	-9,465.36 -9,565.36	144.65	9,400.44	0.00	0.00	0.00
19,200.00	90.21	180.03 180.03	9,780.09	-9,565.36 -9,665.36	144.74	9,666.42	0.00	0.00	0.00
19,300.00		180.03	9,779.72 9,779.36	-9,765.35	144.69	9,766.41	0.00	0.00	0.00
19,400.00									
19,500.00	90.21	180.03	9,779.00	-9,865.35	144.65	9,866.40	0.00	0.00	0.00
19,600.00	90.21	180.03	9,778.64	-9,965.35	144.60	9,966.39	0.00	. 0.00	0.00
19,700.00	90.21	180.03	9,778.28	-10,065.35	144.56	10,066.38	0.00	0.00	0.00
19,800.00		180.03	9,777.92	-10,165.35	144.51	10,166.37	0.00	· 0.00	. 0.00
19,900.00	90.21	180.03	9,777.55	-10,265.35	144.47	10,266.36	0.00	0.00	0.00
20.000.00	90.21	180.03	9,777.19	-10,365.35	144.42	10,366.35	0.00	0.00	0.00
20,000.00		180.03	9,776.83	-10,465.35	144.38	10,466.34	• 0.00	0.00	0.00
20,100.00			9,776.47 9,776.47	-10,465.35	144.33	10,566.33	0.00	0.00	0.00
20,200.00		180.03		-10,565.35	144.33	10,666.32	0.00	0.00	0.00
20,300.00		180.03	9,776.11 9,775.75	-10,065.35	144.29	10,766.31	0.00	0.00	0.00
20,400.00	90.21	180.03	9,775.75						
20,500.00	90.21	180.03	9,775.38	-10,865.35	144.19	10,866.30	0.00	0.00	0.00
20,600.00		180.03	9,775.02	-10,965.35	144.15	10,966.29	0.00	0.00	0.00
20,661.32		180.03	9,774.80	-11,026.66	144.12	11,027.60	0.00	0.00	0.00
							, ,		

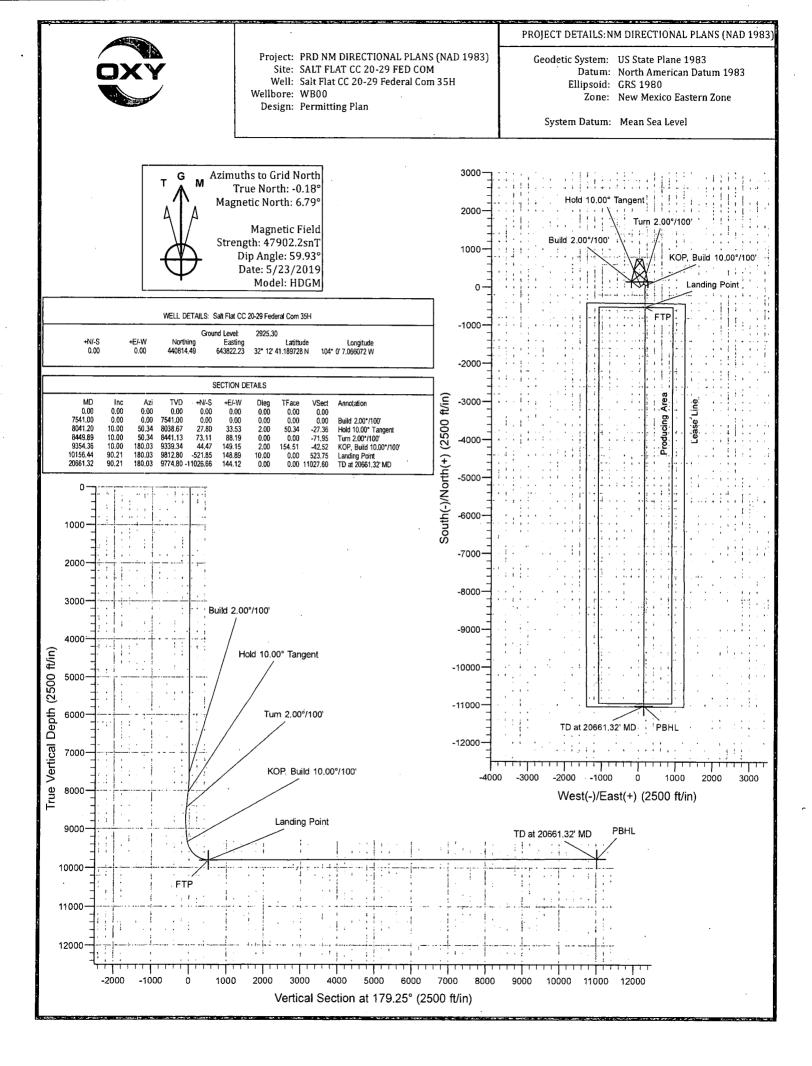
COMPASS 5000.1 Build 74

Oxy Planning Report

Project PRD Site SALT Well Salt F Wellbore: WBO	NEERING DESI NM DIRECTION FLAT CC 20-29 Tat CC 20-29 Fe	AL PLANS (NAD 198 FED COM	3) MD Refe North Re	-ordinate Reference prence: ference: acculation Méthod:	Well Salt Flat CC 20-29 Fede RKB=26.5' @ 2951.80ft RKB=26.5' @ 2951.80ft Grid Minimum Curvature	ral Com 35H
/Design Targets Target Name - hit/miss target / Dip - Shape	Angle Dip Dii	TVD +N/ ((f)) (f	T	Northing (üsft)	Easting ((üsft)	Longitudes
PBHL (Salt Flat CC - plan hits target center - Point	0.00 0.0	00 9,774.80 -11,0	26.66 144.12	429,788.72	643,966.34 32° 10' 52.074947 N	104° 0' 5.784556 W
FTP (Salt Flat CC - plan hits target center - Point	0.00 0.0	00 9,812.80 -5.	21.85 148.89	440,292.68	643,971.11 32° 12' 36.021393 N	104° 0' 5,351869 W
Plan Annotations Measured Depth (ft) 7,541.00	Vertical Depth (ft) 7,541.00	Local Coor +N/S (ft) 0.00		Comment as		
8,041.20 8,449.89 9,354.36 10,156.44 20,661.32	8,038.67 8,441.13 9,339.34 9,812.80 9,774.80	27.80 73.11 44.47 -521.85 -11.026.66	33.53 88.19 149.15 148.89 144.12	Hold 10.00° Tanger Turn 2.00°/100' KOP, Build 10.00°/ Landing Point TD at 20661.32' MI	100'	

5/23/2019 3:47:15PM

COMPASS 5000.1 Build 74



Oxy USA Inc. - Salt Flat CC 20-29 Federal Com 35H

1. Geologic Formations

TVD of target	9812'	Pilot Hole Depth	N/A
MD at TD:	20661'	Deepest Expected fresh water:	293'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	293	
Salado	610	Salt
Castile	1,265	Salt
Lamar/Delaware	2,823	Oil/Gas/Brine
Bell Canyon	2,894	Oil/Gas/Brine
Cherry Canyon	3,750	Oil/Gas/Brine
Brushy Canyon	5,004	Losses
Bone Spring	6,636	Oil/Gas .
1st Bone Spring	7,549	Oil/Gas
2nd Bone Spring	8,350	Oil/Gas
3rd Bone Spring	9,486	Oil/Gas

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

2. Casing Program

									Buoyant	Buoyant
Hole Size (in)	SE Casing lift	erval	Csg. Size	Weight	12.220		SF		Body SF	Joint SF
E ZC	From (ft)	75 To (ft)	₹ (ň)	(lbs)	Grade	Conn	Collapse Liv 2	SF, Burst	Tension	Tension
14.75	0	550	10.75	40.5	J-55	BTC	1.125	1.2	1.4	1.4
9.875	0	9254	7.625	26.4	L-80 HC	BTC	1.125	1.2	1.4	1.4
6.75	0	20661	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
							SF Value	s will meet	or Exceed	

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

*Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancelation cone and not pump the second stage.

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

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.

	Y or Nu.
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? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
	200 7890 - 83
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?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	
	· · · · · · · · · · · · · · · · · · ·
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
A MARKET AND A REAL AND	The second s
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing String	# Sks	₩Ľ (Ìb/gâl)	Yid (ft3/sack)	H20 (gål/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	447	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	554	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate 2nd Stage	(Tail Shurry) t	o be pumped a	is Bradenhead	l Squeeze from	n surface, dow	vn the Intermediate annulus
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	646 ·	12.9	1.92	10.41	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	873	13.2	1.38	6.686	3:39	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
·· Surface (Tail)	0	550	100%
Intermediate 1st Stage (Lead)	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	5254	9254	5%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	5254	10%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	8754	20661	20%

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:

- 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.
- 5. 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.

3 Drilling Plan

- 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.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре			Tested to:
	,	3M	Annula	r	~	70% of working pressure
9.875" Hole	13-5/8"		Blind Ra	ım	🖌	
7.875 HOIC		3M	Pipe Ram Double Ram			250 psi / 3000 psi
					1	
			Other*			
		5M	Annula	r	1	70% of working pressure
6.75" Hole	13-5/8" 5M	5) (Blind Ra	ım	√	
0.75 11010			Pipe Ram			250 : (5000 -)
		5101	. Double R	am		250 psi / 5000 psi
· · ·			Other*			

*Specify if additional ram is utilized.

Oxy will utilize a 5M annular with a 10M BOPE stack. The 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. See attached schematics.

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

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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

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

5. Mud Program

From (ff)	pth To ₄ (ft)	Туре	Weight (ppg)	Viscosity	Water Loss
0	550	Water-Based Mud	8.6-8.8	40-60	N/C
550	9254	Saturated Brine- Based or Oil-Based Mud	8.0-10.0	35-45	N/C
9254	20661	Water-Based or Oil- Based Mud	9.5-12.0	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 loss or gain	PVT/MD Totco/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

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

Addi	tional logs planned	Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	ICP - TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6123 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	159°F

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

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.

N H2S is present

Y H2S Plan attached

8. Other facets of operation

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

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Total estimated cuttings volume: 1445.7 bbls.

Attachments

- _x__ Directional Plan
- _x__H2S Contingency Plan

_x__ Flex III Attachments

_x__ Spudder Rig Attachment

x Premium Connection Specs

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Christopher Hollis	Drilling Engineer	713-350-4754	713-380-7754
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