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

Sundry Print Report

06/10/2022

Well Name: SALT FLAT CC 20-29 FED COM

Well Location: T24S / R29E / SEC 20 / NWNW /

County or Parish/State:

Well Number: 51H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM17224

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001548278

Well Status: Approved Application for Permit to Drill

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2634934

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 10/13/2021

Time Sundry Submitted: 11:41

Date proposed operation will begin: 01/01/2022

Procedure Description: OXY USA Inc. respectfully requests approval to amend the AAPD well name, pool and casing design. Surface hole is not changing. The new well name is Salt Flat CC 20-29 Federal Com 51H. See the attached C102 well plat, drilling plan and directional. Drill Plan Revised as requested.12/21/21

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

SaltFlatCC20_29FederalCom51H_TNSWedge461_5.000in_21.40_P110_ICY_20211221105851.pdf

SaltFlatCC20_29FederalCom51H_TNSWedge425_5.500in_26.00_P110_ICY_20211221105844.pdf

SaltFlatCC20_29FederalCom51H_TMKUPTORQDQW_5.00in_21.4_P110CYHP_20211221105838.pdf

SaltFlatCC20_29FederalCom51H_DrillPlan_20211221105755.pdf

SaltFlatCC20_29FedCom51H_H2S2_20211013113936.pdf

SaltFlatCC20_29FedCom51H_H2S1_20211013113914.pdf

SaltFlatCC20_29FedCom51H_DirectPlan_20211013113901.pdf

Well Name: SALT FLAT CC 20-29 FED COM	**Well Location:** T24S / R29E / SEC 20 / NWNW /	**County or Parish/State:**
Well Number: 51H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM17224	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3001548278	**Well Status:** Approved Application for Permit to Drill	**Operator:** OXY USA INCORPORATED

SaltFlatCC20_29FedCom51H_DirectPlot_20211013113850.pdf

SaltFlatCC20_29FedCom51H_BOP_20211013113500.pdf

SaltFlatCC20_29FedCom51H_C102_20211013113438.pdf

Conditions of Approval

Additional

Salt_Flat_CC_20_29_Federal_Com_51H_DrillingCOA_Sundry_2634934_20220606150040.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: LESLIE REEVES **Signed on:** DEC 21, 2021 10:59 AM

Name: OXY USA INCORPORATED

Title: Advisor Regulatory

Street Address: 5 GREENWAY PLAZA, SUITE 110

City: HOUSTON **State:** TX

Phone: (713) 497-2492

Email address: LESLIE_REEVES@OXY.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS **BLM POC Title:** Petroleum Engineer

BLM POC Phone: 5752342234 **BLM POC Email Address:** cwalls@blm.gov

Disposition: Approved **Disposition Date:** 06/09/2022

Signature: Chris Walls

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

ALL PREVIOUS COAs STILL APPLY.

OPERATOR'S NAME:	OXY USA INCORPORATED
LEASE NO.:	NMNM
LOCATION:	Section 20, T.24 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Salt Flat CC 20_29 Federal Com 51H
SURFACE HOLE FOOTAGE:	438'/N & 1024'/W
BOTTOM HOLE FOOTAGE	20'/S & 1140'/W

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	○ Multibowl	◉ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☑ Fluid Filled	☑ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. CASING

Casing Design:

3. The minimum required fill of cement behind the **5-1/2 X 5** 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.

B. 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 **5000 (5M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (3.5M) 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 **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (3.5M) 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.

C. 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

BOPE Break Testing Variance (Note: For 5M BOPE or less)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- 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 BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☑ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-48278	98220	PURPLE SAGE WOLFCAMP (GAS)

Property Code	Property Name	Well Number
321633	SALT FLAT CC "20_29" FEDERAL COM	51H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	2966.4'

Surface Location

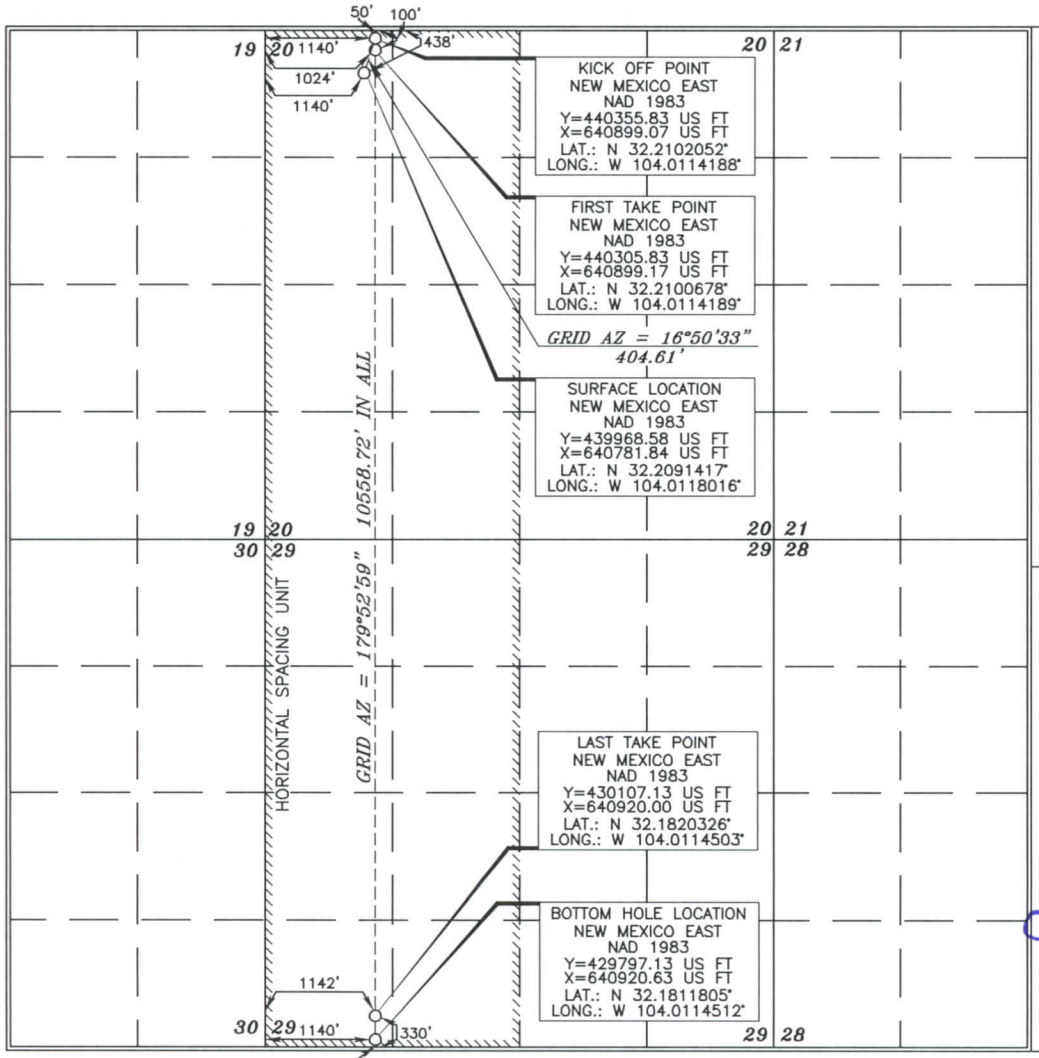
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	20	24 SOUTH	29 EAST, N.M.P.M.		438'	NORTH	1024'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	29	24 SOUTH	29 EAST, N.M.P.M.		20'	SOUTH	1140'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

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.



OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Leslie T. Reeves 10/13/2021
Signature Date

LESLIE REEVES
Printed Name

LESLIE_REEVES@OXY.COM
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.

OCTOBER 11, 2019
Date of Survey

Signature and Seal of Professional Surveyor:

JERRY J ASH — NEW MEXICO — 15079 — REGISTERED PROFESSIONAL LAND SURVEYOR

Jerry Ash 10/23/2019
Certificate Number 15079

WO# 191011WL-d (KA)

Oxy USA Inc. - Salt Flat CC 20_29 Federal Com 51H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	10856	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21772	Deepest Expected Fresh Water (ft):	305

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	305	305	
Salado	614	614	Salt
Castile	1258	1258	Salt
Delaware	2810	2810	Oil/Gas/Brine
Bell Canyon	2858	2858	Oil/Gas/Brine
Cherry Canyon	3742	3742	Oil/Gas/Brine
Brushy Canyon	4986	4986	Losses
Bone Spring	6601	6579	Oil/Gas
Bone Spring 1st	7568	7531	Oil/Gas
Bone Spring 2nd	8406	8356	Oil/Gas
Bone Spring 3rd	9526	9459	Oil/Gas
Wolfcamp	9882	9810	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		MD		TVD					
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	554	0	554	10.75	45.5	J-55	BTC
Intermediate	9.875	0	10162	0	10084	7.625	26.4	L-80 HC	BTC
Production	6.75	0	10712	0	10520	5.5	26	P-110 CYHP	TORQ SFW
Production	6.75	10712	21772	10520	10856	5	21.4	P-110 CYHP	TORQ DQW

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

*Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

All Casing SF Values will meet or exceed those below			
SF Collapse	**SF Burst**	**Body SF Tension**	**Joint SF Tension**
1.125	1.2	1.4	1.4

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement 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 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? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd 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?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Capacities	ft^3/ft	Excess:	From	To	Sacks	Volume (ft^3)	Placement
Surface	1	Surface - Tail	OH x Csg	0.5563	100%	554	-	463	616	Circulate
Int.	1	Intermediate 1S - Tail	OH x Csg	0.2148	5%	10,162	5,236	673	1111	Circulate
Int.	2	Intermediate 2S - Tail BH	OH x Csg	0.2148	25%	5,236	554	655	1257	Bradenhead
Int.	2	Intermediate 2S - Tail BH	Csg x Csg	0.2338	0%	554	-	67	130	Bradenhead
Prod.	1	Production - Tail	OH x Csg2	0.2812	20%	21,772	10,712	2705	3733	Circulate
Prod.	1	Production - Tail	OH x Csg1	0.2526	20%	10,712	10,162	121	167	Circulate
Prod.	1	Production - Tail	Csg x Csg	0.0999	0%	10,162	9,662	36	50	Circulate

Description	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)	500psi Time (hh:mm)	Cmt. Class	Accelerator	Retarder	Dispersant	Salt
Surface - Tail	14.8	1.33	6.365	5:26	C	x			
Intermediate 1S - Tail	13.2	1.65	8.64	11:54	H	x	x	x	x
Intermediate 2S - Tail BH	12.9	1.92	10.41	23:10	C	x			
Production - Tail	13.2	1.38	6.686	3:39	H		x	x	x

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.
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.
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.

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✔	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	3M	Annular	✔	70% of working pressure	10084
		3M	Blind Ram	✔	250 psi / 3000 psi	
			Pipe Ram			
			Double Ram	✔		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✔	100% of working pressure	10856
		10M	Blind Ram	✔	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✔		
			Other*			

*Specify if additional ram is utilized

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

	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.

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.

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

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	554	0	554	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	554	10162	554	10084	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	10162	21772	10084	10856	Water-Based or Oil-Based Mud	9.5 - 13	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 of fluid?	PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7339 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	167°F

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 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. We plan to drill the 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 1542 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
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Filip Krneta	Drilling Engineer Supervisor	713-350-4751	832-244-4980
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Salt Flat CC 20-29 Federal Com
Well: Salt Flat CC 20_29 Federal Com 51H
Wellbore: Wellbore #1
Design: Permitting Plan

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: Salt Flat CC 20_29 Federal Com 51H

2966.40

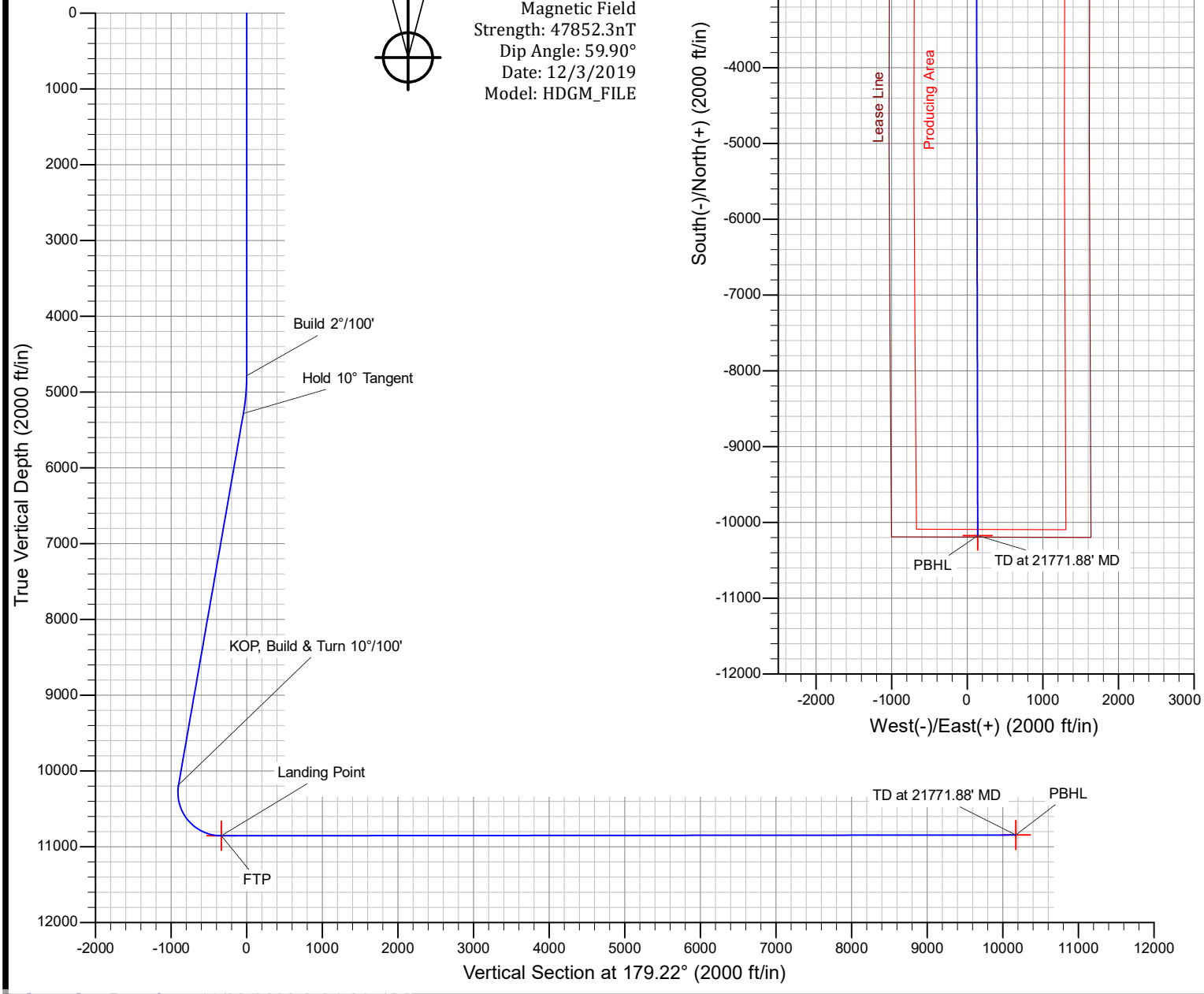
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	439968.58	640781.84	32° 12' 32.910042 N	104° 0' 42.485526 W

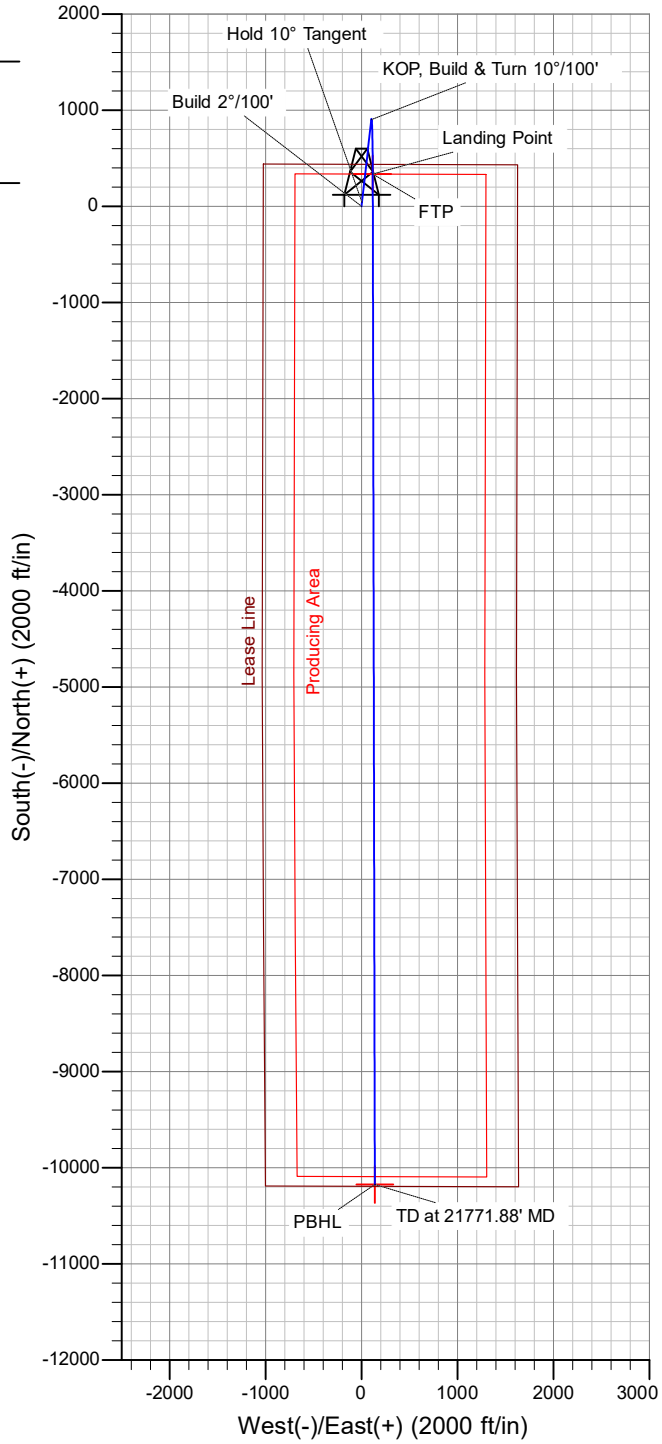
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4785.00	0.00	0.00	4785.00	0.00	0.00	0.00	0.00	0.00	Build 2°/100'
5285.08	10.00	6.49	5282.54	43.26	4.92	2.00	6.49	-43.19	Hold 10° Tangent
10262.41	10.00	6.49	10184.23	902.16	102.55	0.00	0.00	-900.68	KOP, Build & Turn 10°/100'
11262.30	90.05	179.88	10855.90	337.28	117.34	10.00	173.30	-335.65	Landing Point
21771.88	90.05	179.88	10845.90	-10172.28	138.80	0.00	0.00	10173.23	TD at 21771.88' MD

Azimuths to Grid North
True North: -0.17°
Magnetic North: 6.75°

Magnetic Field
Strength: 47852.3nT
Dip Angle: 59.90°
Date: 12/3/2019
Model: HDGM_FILE





OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Salt Flat CC 20-29 Federal Com
Salt Flat CC 20_29 Federal Com 51H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

03 December, 2019

Oxy Inc.

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 51H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2992.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2992.90ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 51H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

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

Site Salt Flat CC 20-29 Federal Com

Site Position:		**Northing:**	440,814.67 usft	**Latitude:**	32° 12' 41.192577 N
From:	Map	**Easting:**	643,787.23 usft	**Longitude:**	104° 0' 7.473464 W
Position Uncertainty:	50.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.18 °

Well Salt Flat CC 20_29 Federal Com 51H

Well Position	**+N/-S**	-846.16 ft	**Northing:**	439,968.58 usft	**Latitude:**	32° 12' 32.910043 N
	+E/-W	-3,005.63 ft	**Easting:**	640,781.84 usft	**Longitude:**	104° 0' 42.485526 W
Position Uncertainty		1.00 ft	**Wellhead Elevation:**		**Ground Level:**	2,966.40 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/3/2019	6.92	59.90	47,852.30000000

Design Permitting Plan

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.22

Plan Survey Tool Program **Date** 12/3/2019

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,771.88	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM	
				OWSG MWD + HRGM	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,785.00	0.00	0.00	4,785.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,285.08	10.00	6.49	5,282.54	43.26	4.92	2.00	2.00	0.00	6.49	
10,262.41	10.00	6.49	10,184.23	902.16	102.55	0.00	0.00	0.00	0.00	
11,262.30	90.05	179.88	10,855.90	337.28	117.34	10.00	8.01	17.34	173.30	FTP (Salt Flat CC
21,771.88	90.05	179.88	10,845.90	-10,172.28	138.80	0.00	0.00	0.00	0.00	PBHL (Salt Flat CC

Oxy Inc.

Planning Report

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Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2992.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2992.90ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 51H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,785.00	0.00	0.00	4,785.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.30	6.49	4,800.00	0.04	0.00	-0.04	2.00	2.00	0.00
4,900.00	2.30	6.49	4,899.97	2.29	0.26	-2.29	2.00	2.00	0.00
5,000.00	4.30	6.49	4,999.80	8.01	0.91	-8.00	2.00	2.00	0.00
5,100.00	6.30	6.49	5,099.37	17.19	1.95	-17.16	2.00	2.00	0.00
5,200.00	8.30	6.49	5,198.55	29.81	3.39	-29.77	2.00	2.00	0.00

Oxy Inc.

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 51H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2992.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2992.90ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 51H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,285.08	10.00	6.49	5,282.54	43.26	4.92	-43.19	2.00	2.00	0.00
5,300.00	10.00	6.49	5,297.24	45.83	5.21	-45.76	0.00	0.00	0.00
5,400.00	10.00	6.49	5,395.72	63.09	7.17	-62.99	0.00	0.00	0.00
5,500.00	10.00	6.49	5,494.20	80.35	9.13	-80.21	0.00	0.00	0.00
5,600.00	10.00	6.49	5,592.68	97.60	11.09	-97.44	0.00	0.00	0.00
5,700.00	10.00	6.49	5,691.16	114.86	13.06	-114.67	0.00	0.00	0.00
5,800.00	10.00	6.49	5,789.64	132.11	15.02	-131.90	0.00	0.00	0.00
5,900.00	10.00	6.49	5,888.12	149.37	16.98	-149.12	0.00	0.00	0.00
6,000.00	10.00	6.49	5,986.60	166.63	18.94	-166.35	0.00	0.00	0.00
6,100.00	10.00	6.49	6,085.08	183.88	20.90	-183.58	0.00	0.00	0.00
6,200.00	10.00	6.49	6,183.56	201.14	22.86	-200.81	0.00	0.00	0.00
6,300.00	10.00	6.49	6,282.04	218.40	24.83	-218.04	0.00	0.00	0.00
6,400.00	10.00	6.49	6,380.52	235.65	26.79	-235.26	0.00	0.00	0.00
6,500.00	10.00	6.49	6,479.00	252.91	28.75	-252.49	0.00	0.00	0.00
6,600.00	10.00	6.49	6,577.48	270.16	30.71	-269.72	0.00	0.00	0.00
6,700.00	10.00	6.49	6,675.96	287.42	32.67	-286.95	0.00	0.00	0.00
6,800.00	10.00	6.49	6,774.44	304.68	34.63	-304.18	0.00	0.00	0.00
6,900.00	10.00	6.49	6,872.92	321.93	36.60	-321.40	0.00	0.00	0.00
7,000.00	10.00	6.49	6,971.40	339.19	38.56	-338.63	0.00	0.00	0.00
7,100.00	10.00	6.49	7,069.88	356.45	40.52	-355.86	0.00	0.00	0.00
7,200.00	10.00	6.49	7,168.36	373.70	42.48	-373.09	0.00	0.00	0.00
7,300.00	10.00	6.49	7,266.84	390.96	44.44	-390.32	0.00	0.00	0.00
7,400.00	10.00	6.49	7,365.32	408.21	46.40	-407.54	0.00	0.00	0.00
7,500.00	10.00	6.49	7,463.80	425.47	48.37	-424.77	0.00	0.00	0.00
7,600.00	10.00	6.49	7,562.28	442.73	50.33	-442.00	0.00	0.00	0.00
7,700.00	10.00	6.49	7,660.77	459.98	52.29	-459.23	0.00	0.00	0.00
7,800.00	10.00	6.49	7,759.25	477.24	54.25	-476.46	0.00	0.00	0.00
7,900.00	10.00	6.49	7,857.73	494.50	56.21	-493.68	0.00	0.00	0.00
8,000.00	10.00	6.49	7,956.21	511.75	58.17	-510.91	0.00	0.00	0.00
8,100.00	10.00	6.49	8,054.69	529.01	60.14	-528.14	0.00	0.00	0.00
8,200.00	10.00	6.49	8,153.17	546.27	62.10	-545.37	0.00	0.00	0.00
8,300.00	10.00	6.49	8,251.65	563.52	64.06	-562.59	0.00	0.00	0.00
8,400.00	10.00	6.49	8,350.13	580.78	66.02	-579.82	0.00	0.00	0.00
8,500.00	10.00	6.49	8,448.61	598.03	67.98	-597.05	0.00	0.00	0.00
8,600.00	10.00	6.49	8,547.09	615.29	69.94	-614.28	0.00	0.00	0.00
8,700.00	10.00	6.49	8,645.57	632.55	71.91	-631.51	0.00	0.00	0.00
8,800.00	10.00	6.49	8,744.05	649.80	73.87	-648.73	0.00	0.00	0.00
8,900.00	10.00	6.49	8,842.53	667.06	75.83	-665.96	0.00	0.00	0.00
9,000.00	10.00	6.49	8,941.01	684.32	77.79	-683.19	0.00	0.00	0.00
9,100.00	10.00	6.49	9,039.49	701.57	79.75	-700.42	0.00	0.00	0.00
9,200.00	10.00	6.49	9,137.97	718.83	81.71	-717.65	0.00	0.00	0.00
9,300.00	10.00	6.49	9,236.45	736.08	83.67	-734.87	0.00	0.00	0.00
9,400.00	10.00	6.49	9,334.93	753.34	85.64	-752.10	0.00	0.00	0.00
9,500.00	10.00	6.49	9,433.41	770.60	87.60	-769.33	0.00	0.00	0.00
9,600.00	10.00	6.49	9,531.89	787.85	89.56	-786.56	0.00	0.00	0.00
9,700.00	10.00	6.49	9,630.37	805.11	91.52	-803.79	0.00	0.00	0.00
9,800.00	10.00	6.49	9,728.85	822.37	93.48	-821.01	0.00	0.00	0.00
9,900.00	10.00	6.49	9,827.33	839.62	95.44	-838.24	0.00	0.00	0.00
10,000.00	10.00	6.49	9,925.81	856.88	97.41	-855.47	0.00	0.00	0.00
10,100.00	10.00	6.49	10,024.29	874.13	99.37	-872.70	0.00	0.00	0.00
10,200.00	10.00	6.49	10,122.77	891.39	101.33	-889.93	0.00	0.00	0.00
10,262.41	10.00	6.49	10,184.23	902.16	102.55	-900.68	0.00	0.00	0.00
10,300.00	6.28	10.50	10,221.44	907.43	103.30	-905.93	10.00	-9.89	10.67
10,400.00	4.00	163.01	10,321.27	909.48	105.32	-907.96	10.00	-2.29	152.51

Oxy Inc.

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 51H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2992.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2992.90ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 51H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.00	13.87	175.17	10,419.94	894.16	107.35	-892.62	10.00	9.88	12.16
10,600.00	23.85	177.25	10,514.45	861.94	109.33	-860.37	10.00	9.98	2.08
10,700.00	33.84	178.15	10,601.93	813.79	111.21	-812.20	10.00	9.99	0.90
10,800.00	43.84	178.67	10,679.73	751.18	112.91	-749.57	10.00	9.99	0.52
10,900.00	53.83	179.03	10,745.47	676.01	114.40	-674.39	10.00	10.00	0.36
11,000.00	63.83	179.31	10,797.15	590.56	115.63	-588.93	10.00	10.00	0.28
11,100.00	73.83	179.54	10,833.22	497.43	116.55	-495.80	10.00	10.00	0.23
11,200.00	83.83	179.76	10,852.58	399.46	117.14	-397.82	10.00	10.00	0.21
11,262.30	90.05	179.88	10,855.90	337.28	117.34	-335.65	10.00	10.00	0.20
11,300.00	90.05	179.88	10,855.86	299.58	117.42	-297.95	0.00	0.00	0.00
11,400.00	90.05	179.88	10,855.77	199.58	117.62	-197.95	0.00	0.00	0.00
11,500.00	90.05	179.88	10,855.67	99.58	117.82	-97.96	0.00	0.00	0.00
11,600.00	90.05	179.88	10,855.58	-0.42	118.03	2.03	0.00	0.00	0.00
11,700.00	90.05	179.88	10,855.48	-100.42	118.23	102.03	0.00	0.00	0.00
11,800.00	90.05	179.88	10,855.39	-200.42	118.44	202.02	0.00	0.00	0.00
11,900.00	90.05	179.88	10,855.29	-300.42	118.64	302.01	0.00	0.00	0.00
12,000.00	90.05	179.88	10,855.20	-400.42	118.85	402.01	0.00	0.00	0.00
12,100.00	90.05	179.88	10,855.10	-500.42	119.05	502.00	0.00	0.00	0.00
12,200.00	90.05	179.88	10,855.01	-600.42	119.25	601.99	0.00	0.00	0.00
12,300.00	90.05	179.88	10,854.91	-700.42	119.46	701.99	0.00	0.00	0.00
12,400.00	90.05	179.88	10,854.82	-800.42	119.66	801.98	0.00	0.00	0.00
12,500.00	90.05	179.88	10,854.72	-900.42	119.87	901.97	0.00	0.00	0.00
12,600.00	90.05	179.88	10,854.63	-1,000.42	120.07	1,001.97	0.00	0.00	0.00
12,700.00	90.05	179.88	10,854.53	-1,100.42	120.28	1,101.96	0.00	0.00	0.00
12,800.00	90.05	179.88	10,854.44	-1,200.42	120.48	1,201.95	0.00	0.00	0.00
12,900.00	90.05	179.88	10,854.34	-1,300.42	120.68	1,301.95	0.00	0.00	0.00
13,000.00	90.05	179.88	10,854.25	-1,400.42	120.89	1,401.94	0.00	0.00	0.00
13,100.00	90.05	179.88	10,854.15	-1,500.42	121.09	1,501.93	0.00	0.00	0.00
13,200.00	90.05	179.88	10,854.06	-1,600.42	121.30	1,601.93	0.00	0.00	0.00
13,300.00	90.05	179.88	10,853.96	-1,700.42	121.50	1,701.92	0.00	0.00	0.00
13,400.00	90.05	179.88	10,853.87	-1,800.42	121.71	1,801.91	0.00	0.00	0.00
13,500.00	90.05	179.88	10,853.77	-1,900.42	121.91	1,901.90	0.00	0.00	0.00
13,600.00	90.05	179.88	10,853.68	-2,000.42	122.11	2,001.90	0.00	0.00	0.00
13,700.00	90.05	179.88	10,853.58	-2,100.42	122.32	2,101.89	0.00	0.00	0.00
13,800.00	90.05	179.88	10,853.49	-2,200.42	122.52	2,201.88	0.00	0.00	0.00
13,900.00	90.05	179.88	10,853.39	-2,300.42	122.73	2,301.88	0.00	0.00	0.00
14,000.00	90.05	179.88	10,853.30	-2,400.42	122.93	2,401.87	0.00	0.00	0.00
14,100.00	90.05	179.88	10,853.20	-2,500.42	123.13	2,501.86	0.00	0.00	0.00
14,200.00	90.05	179.88	10,853.10	-2,600.42	123.34	2,601.86	0.00	0.00	0.00
14,300.00	90.05	179.88	10,853.01	-2,700.42	123.54	2,701.85	0.00	0.00	0.00
14,400.00	90.05	179.88	10,852.91	-2,800.42	123.75	2,801.84	0.00	0.00	0.00
14,500.00	90.05	179.88	10,852.82	-2,900.42	123.95	2,901.84	0.00	0.00	0.00
14,600.00	90.05	179.88	10,852.72	-3,000.42	124.16	3,001.83	0.00	0.00	0.00
14,700.00	90.05	179.88	10,852.63	-3,100.42	124.36	3,101.82	0.00	0.00	0.00
14,800.00	90.05	179.88	10,852.53	-3,200.42	124.56	3,201.82	0.00	0.00	0.00
14,900.00	90.05	179.88	10,852.44	-3,300.41	124.77	3,301.81	0.00	0.00	0.00
15,000.00	90.05	179.88	10,852.34	-3,400.41	124.97	3,401.80	0.00	0.00	0.00
15,100.00	90.05	179.88	10,852.25	-3,500.41	125.18	3,501.80	0.00	0.00	0.00
15,200.00	90.05	179.88	10,852.15	-3,600.41	125.38	3,601.79	0.00	0.00	0.00
15,300.00	90.05	179.88	10,852.06	-3,700.41	125.59	3,701.78	0.00	0.00	0.00
15,400.00	90.05	179.88	10,851.96	-3,800.41	125.79	3,801.78	0.00	0.00	0.00
15,500.00	90.05	179.88	10,851.87	-3,900.41	125.99	3,901.77	0.00	0.00	0.00
15,600.00	90.05	179.88	10,851.77	-4,000.41	126.20	4,001.76	0.00	0.00	0.00
15,700.00	90.05	179.88	10,851.68	-4,100.41	126.40	4,101.76	0.00	0.00	0.00

Oxy Inc.

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 51H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2992.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2992.90ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 51H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,800.00	90.05	179.88	10,851.58	-4,200.41	126.61	4,201.75	0.00	0.00	0.00
15,900.00	90.05	179.88	10,851.49	-4,300.41	126.81	4,301.74	0.00	0.00	0.00
16,000.00	90.05	179.88	10,851.39	-4,400.41	127.01	4,401.74	0.00	0.00	0.00
16,100.00	90.05	179.88	10,851.30	-4,500.41	127.22	4,501.73	0.00	0.00	0.00
16,200.00	90.05	179.88	10,851.20	-4,600.41	127.42	4,601.72	0.00	0.00	0.00
16,300.00	90.05	179.88	10,851.11	-4,700.41	127.63	4,701.72	0.00	0.00	0.00
16,400.00	90.05	179.88	10,851.01	-4,800.41	127.83	4,801.71	0.00	0.00	0.00
16,500.00	90.05	179.88	10,850.92	-4,900.41	128.04	4,901.70	0.00	0.00	0.00
16,600.00	90.05	179.88	10,850.82	-5,000.41	128.24	5,001.69	0.00	0.00	0.00
16,700.00	90.05	179.88	10,850.73	-5,100.41	128.44	5,101.69	0.00	0.00	0.00
16,800.00	90.05	179.88	10,850.63	-5,200.41	128.65	5,201.68	0.00	0.00	0.00
16,900.00	90.05	179.88	10,850.54	-5,300.41	128.85	5,301.67	0.00	0.00	0.00
17,000.00	90.05	179.88	10,850.44	-5,400.41	129.06	5,401.67	0.00	0.00	0.00
17,100.00	90.05	179.88	10,850.35	-5,500.41	129.26	5,501.66	0.00	0.00	0.00
17,200.00	90.05	179.88	10,850.25	-5,600.41	129.47	5,601.65	0.00	0.00	0.00
17,300.00	90.05	179.88	10,850.16	-5,700.41	129.67	5,701.65	0.00	0.00	0.00
17,400.00	90.05	179.88	10,850.06	-5,800.41	129.87	5,801.64	0.00	0.00	0.00
17,500.00	90.05	179.88	10,849.96	-5,900.41	130.08	5,901.63	0.00	0.00	0.00
17,600.00	90.05	179.88	10,849.87	-6,000.41	130.28	6,001.63	0.00	0.00	0.00
17,700.00	90.05	179.88	10,849.77	-6,100.41	130.49	6,101.62	0.00	0.00	0.00
17,800.00	90.05	179.88	10,849.68	-6,200.41	130.69	6,201.61	0.00	0.00	0.00
17,900.00	90.05	179.88	10,849.58	-6,300.41	130.89	6,301.61	0.00	0.00	0.00
18,000.00	90.05	179.88	10,849.49	-6,400.41	131.10	6,401.60	0.00	0.00	0.00
18,100.00	90.05	179.88	10,849.39	-6,500.41	131.30	6,501.59	0.00	0.00	0.00
18,200.00	90.05	179.88	10,849.30	-6,600.41	131.51	6,601.59	0.00	0.00	0.00
18,300.00	90.05	179.88	10,849.20	-6,700.41	131.71	6,701.58	0.00	0.00	0.00
18,400.00	90.05	179.88	10,849.11	-6,800.41	131.92	6,801.57	0.00	0.00	0.00
18,500.00	90.05	179.88	10,849.01	-6,900.41	132.12	6,901.57	0.00	0.00	0.00
18,600.00	90.05	179.88	10,848.92	-7,000.41	132.32	7,001.56	0.00	0.00	0.00
18,700.00	90.05	179.88	10,848.82	-7,100.41	132.53	7,101.55	0.00	0.00	0.00
18,800.00	90.05	179.88	10,848.73	-7,200.41	132.73	7,201.55	0.00	0.00	0.00
18,900.00	90.05	179.88	10,848.63	-7,300.40	132.94	7,301.54	0.00	0.00	0.00
19,000.00	90.05	179.88	10,848.54	-7,400.40	133.14	7,401.53	0.00	0.00	0.00
19,100.00	90.05	179.88	10,848.44	-7,500.40	133.35	7,501.53	0.00	0.00	0.00
19,200.00	90.05	179.88	10,848.35	-7,600.40	133.55	7,601.52	0.00	0.00	0.00
19,300.00	90.05	179.88	10,848.25	-7,700.40	133.75	7,701.51	0.00	0.00	0.00
19,400.00	90.05	179.88	10,848.16	-7,800.40	133.96	7,801.51	0.00	0.00	0.00
19,500.00	90.05	179.88	10,848.06	-7,900.40	134.16	7,901.50	0.00	0.00	0.00
19,600.00	90.05	179.88	10,847.97	-8,000.40	134.37	8,001.49	0.00	0.00	0.00
19,700.00	90.05	179.88	10,847.87	-8,100.40	134.57	8,101.48	0.00	0.00	0.00
19,800.00	90.05	179.88	10,847.78	-8,200.40	134.77	8,201.48	0.00	0.00	0.00
19,900.00	90.05	179.88	10,847.68	-8,300.40	134.98	8,301.47	0.00	0.00	0.00
20,000.00	90.05	179.88	10,847.59	-8,400.40	135.18	8,401.46	0.00	0.00	0.00
20,100.00	90.05	179.88	10,847.49	-8,500.40	135.39	8,501.46	0.00	0.00	0.00
20,200.00	90.05	179.88	10,847.40	-8,600.40	135.59	8,601.45	0.00	0.00	0.00
20,300.00	90.05	179.88	10,847.30	-8,700.40	135.80	8,701.44	0.00	0.00	0.00
20,400.00	90.05	179.88	10,847.21	-8,800.40	136.00	8,801.44	0.00	0.00	0.00
20,500.00	90.05	179.88	10,847.11	-8,900.40	136.20	8,901.43	0.00	0.00	0.00
20,600.00	90.05	179.88	10,847.02	-9,000.40	136.41	9,001.42	0.00	0.00	0.00
20,700.00	90.05	179.88	10,846.92	-9,100.40	136.61	9,101.42	0.00	0.00	0.00
20,800.00	90.05	179.88	10,846.83	-9,200.40	136.82	9,201.41	0.00	0.00	0.00
20,900.00	90.05	179.88	10,846.73	-9,300.40	137.02	9,301.40	0.00	0.00	0.00
21,000.00	90.05	179.88	10,846.63	-9,400.40	137.23	9,401.40	0.00	0.00	0.00
21,100.00	90.05	179.88	10,846.54	-9,500.40	137.43	9,501.39	0.00	0.00	0.00

Oxy Inc.

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 51H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2992.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2992.90ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 51H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,200.00	90.05	179.88	10,846.44	-9,600.40	137.63	9,601.38	0.00	0.00	0.00
21,300.00	90.05	179.88	10,846.35	-9,700.40	137.84	9,701.38	0.00	0.00	0.00
21,400.00	90.05	179.88	10,846.25	-9,800.40	138.04	9,801.37	0.00	0.00	0.00
21,500.00	90.05	179.88	10,846.16	-9,900.40	138.25	9,901.36	0.00	0.00	0.00
21,600.00	90.05	179.88	10,846.06	-10,000.40	138.45	10,001.36	0.00	0.00	0.00
21,700.00	90.05	179.88	10,845.97	-10,100.40	138.65	10,101.35	0.00	0.00	0.00
21,771.88	90.05	179.88	10,845.90	-10,172.28	138.80	10,173.23	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 (Salt Flat CC - plan hits target center - Point	0.00	0.00	10,845.90	-10,172.28	138.80	429,797.13	640,920.63	32° 10' 52.249734 N	104° 0' 41.224437
FTP (Salt Flat CC - plan hits target center - Point	0.00	0.00	10,855.90	337.28	117.34	440,305.83	640,899.17	32° 12' 36.243970 N	104° 0' 41.108088

Plan Annotations

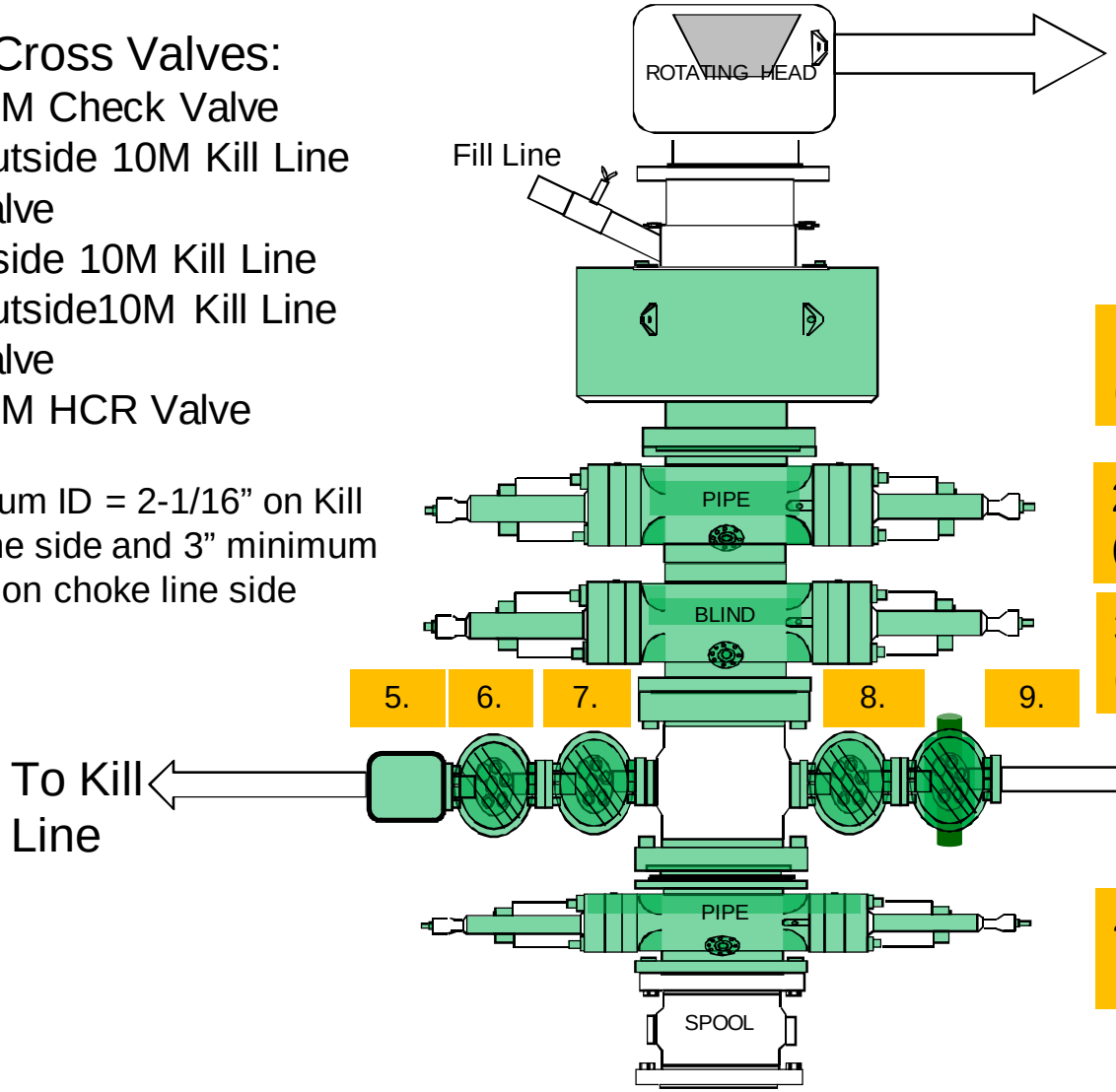
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
4,785.00	4,785.00	0.00	0.00	Build 2°/100'
5,285.08	5,282.54	43.26	4.92	Hold 10° Tangent
10,262.41	10,184.23	902.16	102.55	KOP, Build & Turn 10°/100'
11,262.30	10,855.90	337.28	117.34	Landing Point
21,771.88	10,845.90	-10,172.28	138.80	TD at 21771.88' MD

5/10M BOP Stack

Mud Cross Valves:

5. 10M Check Valve
6. Outside 10M Kill Line Valve
7. Inside 10M Kill Line
8. Outside10M Kill Line Valve
9. 10M HCR Valve

*Minimum ID = 2-1/16” on Kill Line side and 3” minimum ID on choke line side



1. 5,000 psi Annular (13-5/8” ID)

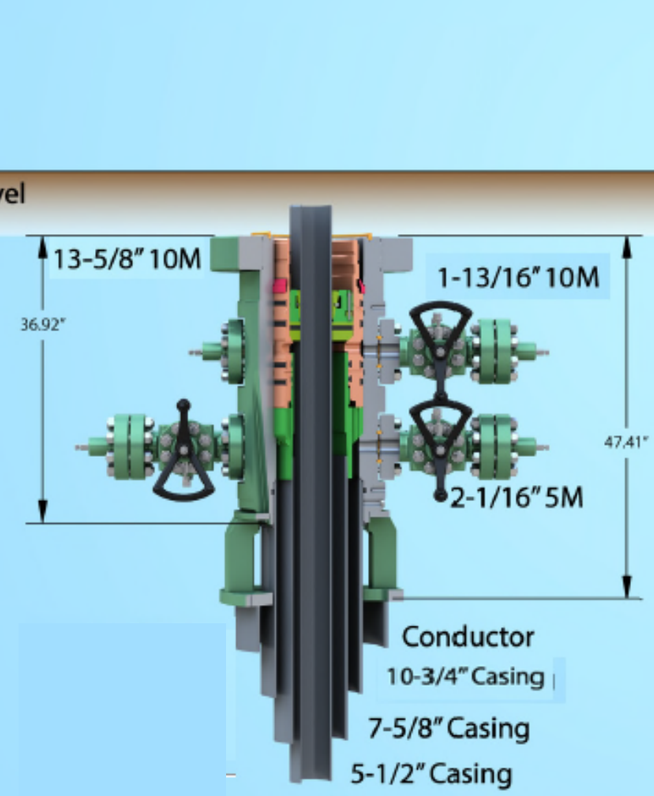
2. 10,000 psi Upper Pipe Ram (13-5/8” ID)

3. 10,000 psi Blind Ram (13-5/8” ID)

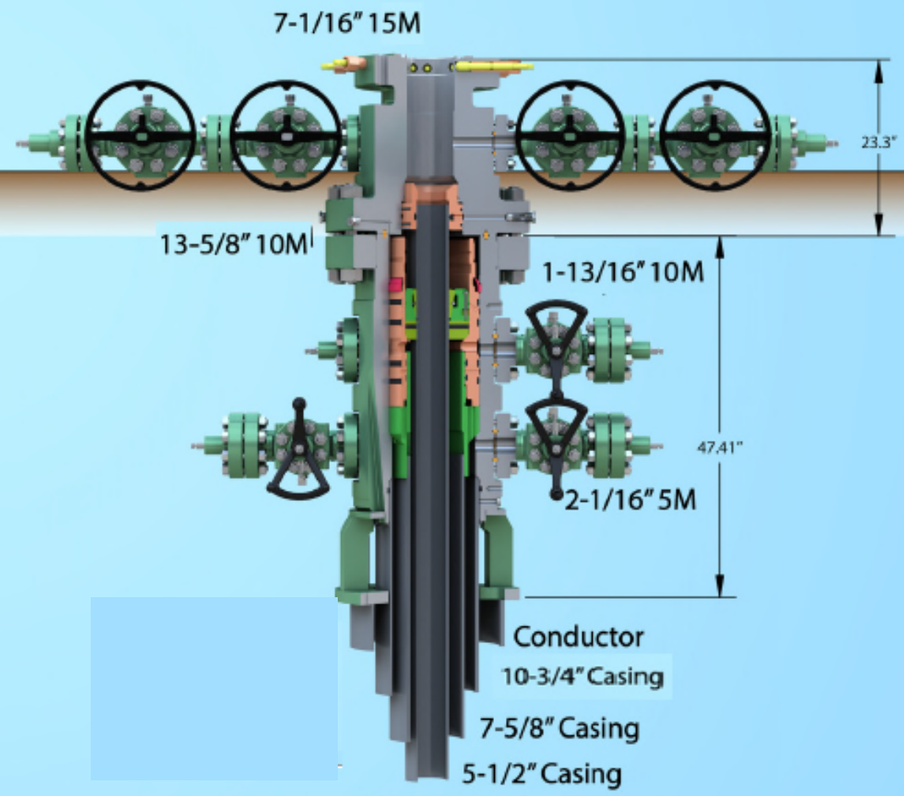
4. 10,000 psi Lower Pipe Ram (13-5/8” ID)

CAMERON
A Schlumberger Company

13-5/8" 10M MN-DS Wellhead System
Slips



NOTE: All dimensions on this drawing are estimated measurements determined by master quote and may vary by components used in the field.



NOTE: All dimensions on this drawing are estimated measurements determined by master quote and may vary by components used in the field.

OXY

2017-192-01 Rev02

Permian Drilling
Hydrogen Sulfide Drilling Operations Plan
Salt Flat CC 20_29 Federal Com 51H

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.

▲ H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.

● Briefing Areas. At least two briefing areas will be placed, 90 deg off.

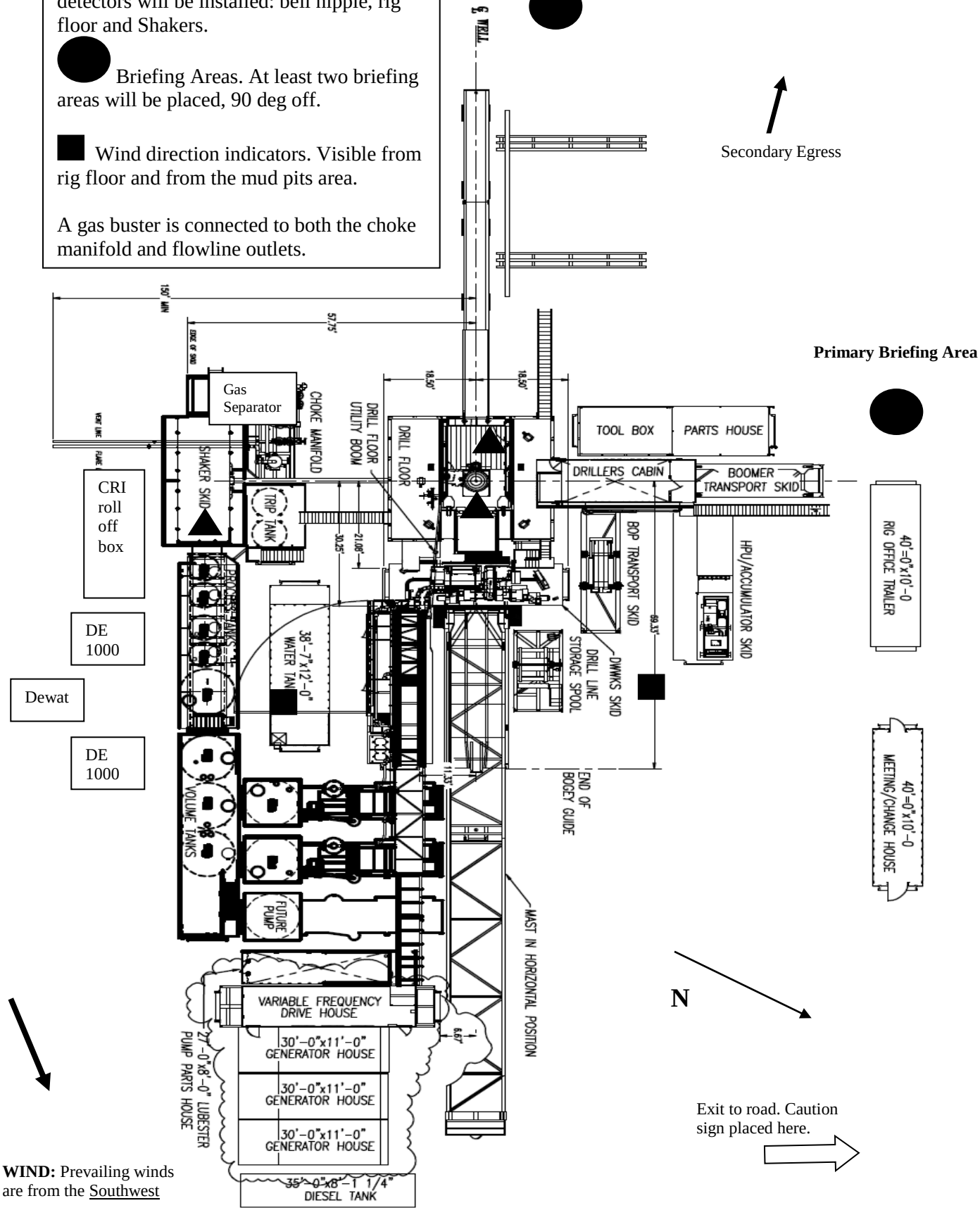
■ Wind direction indicators. Visible from rig floor and from the mud pits area.

A gas buster is connected to both the choke manifold and flowline outlets.

Secondary Briefing Area

Secondary Egress

Primary Briefing Area



WIND: Prevailing winds are from the Southwest

Exit to road. Caution sign placed here.

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) 476-3470 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

CONDITIONS

Action 115701

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 115701
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Adhere to previosu COAs	11/29/2022