Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM102914

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☑ Multiple Zone

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: SALT FLAT CC 20-29 FEDERAL COM 44H

2. Name of Operator: OXY USA INCORPORATED

9. API Well No.: 30 015 47764

3a. Address: 300 SOUTH GILLETTE AVENUE SUITE A-2, GILLETTE,

3b. Phone No. *(include area code)*: (307) 687-0087

10. Field and Pool, or Exploratory: PURPLE SAGE WOLFCAMP/PURPLE SA

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SESE / 1070 FSL / 735 FEL / LAT 32.2132141 / LONG -104.0003516

At proposed prod. zone: SESE / 20 FSL / 840 FEL / LAT 32.181128 / LONG -104.0007988

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 17/T24S/R29E/NMP

14. Distance in miles and direction from nearest town or post office*: 8 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 20 feet

16. No of acres in lease: 150

17. Spacing Unit dedicated to this well: 640.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 35 feet

19. Proposed Depth: 11027 feet / 21885 feet

20. BLM/BIA Bond No. in file: FED: ESB000226

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 2928 feet

22. Approximate date work will start*: 02/22/2021

23. Estimated duration: 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	LESLIE REEVES / Ph: (713) 366-5716	02/19/2020

Title: Advisor Regulatory

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	10/21/2020

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

- Will require a directional survey with the C-104
- NSL Will require an administrative order for non-standard location prior to placing the well on production

Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

KP 12/7/2020 GEO Review

APPROVED WITH CONDITIONS

Approval Date: 10/21/2020

(Continued on page 2)

*(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos 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- 47764	98220	PURPLE SAGE; WOLFCAMP

Property Code	Property Name	Well Number
321601	SALT FLAT CC "20_29" FEDERAL COM	44H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	2927.6'

Surface Location

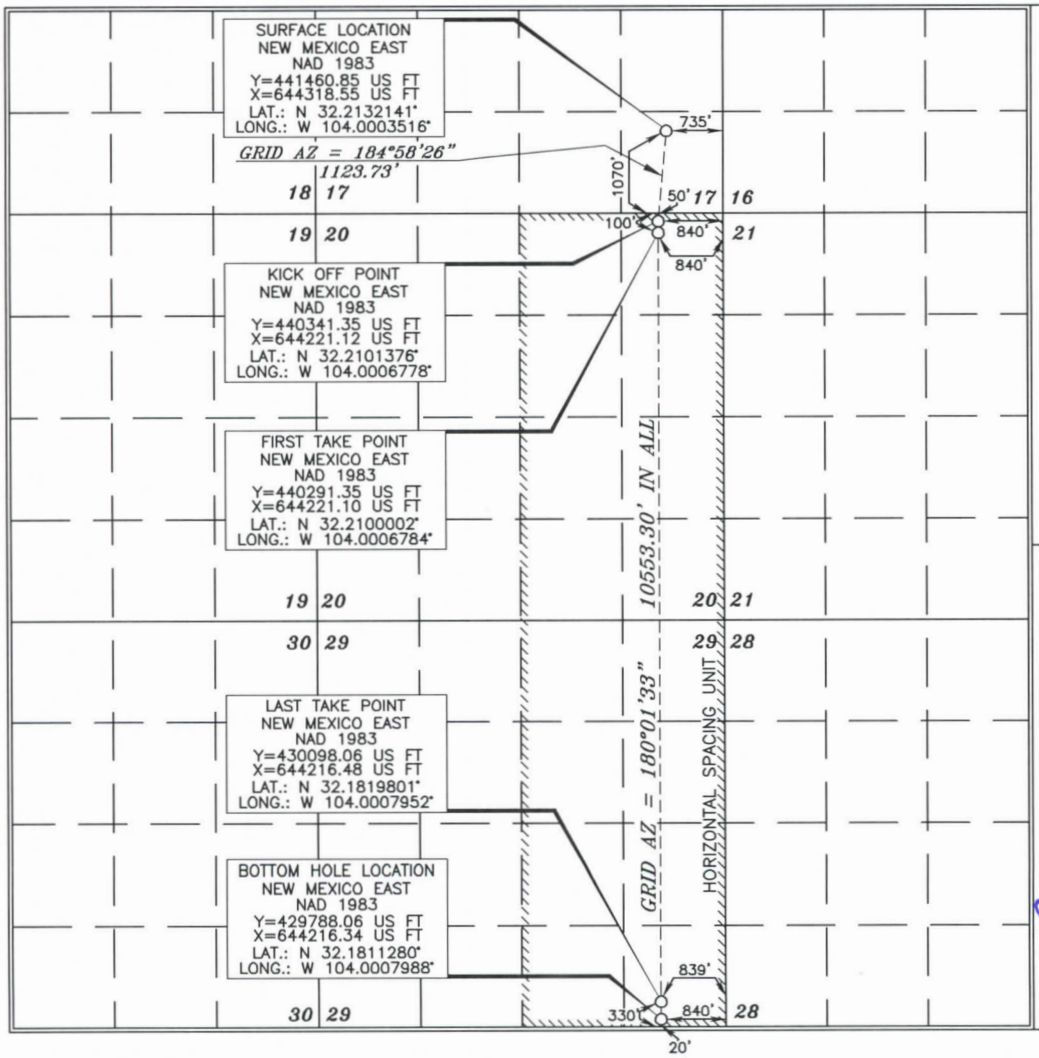
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	17	24 SOUTH	29 EAST, N.M.P.M.		1070'	SOUTH	735'	EAST	EDDY

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
P	29	24 SOUTH	29 EAST, N.M.P.M.		20'	SOUTH	840'	EAST	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 2/19/20
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.

GARY J. ASC... NEW MEXICO 15079 PROFESSIONAL LAND SURVEYOR

Terry Asel 10/30/2019
Certificate Number 15079

WO# 191011WL-c (Rev. A) (AS)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 2-18-2020

☒ Original

Operator & OGRID No.: OXY USA INC. - 16696

☐ Amended - Reason for Amendment:_____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SALT FLAT CC 20-29 FED COM 31H	Pending	M-17-T24S-R29E	252' FSL 1222' FWL	5,500	0	
SALT FLAT CC 20-29 FED COM 32H	Pending	M-17-T24S-R29E	252' FSL 1257' FWL	5,500	0	
SALT FLAT CC 20-29 FED COM 33H	Pending	M-17-T24S-R29E	252' FSL 1292' FWL	5,500	0	
SALT FLAT CC 20-29 FED COM 34H	Pending	P-17-T24S-R29E	421' FSL 1271' FEL	5,500	0	
SALT FLAT CC 20-29 FED COM 35H	Pending	P-17-T24S-R29E	421' FSL 1236' FEL	5,500	0	
SALT FLAT CC 20-29 FED COM 36H	Pending	P-17-T24S-R29E	421' FSL 1201' FEL	5,500	0	
SALT FLAT CC 20-29 FED COM 37H	Pending	N-17-T24S-R29E	435' FSL 1765' FWL	5,500	0	
SALT FLAT CC 20-29 FED COM 38H	Pending	N-17-T24S-R29E	435' FSL 1835' FWL	5,500	0	
OXBOW CC 17-08 FED COM 31H	Pending	M-17-T24S-R29E	432' FSL 1223' FWL	5,500	0	
OXBOW CC 17-08 FED COM 32H	Pending	M-17-T24S-R29E	432' FSL 1258'FWL	5,500	0	
OXBOW CC 17-08 FED COM 33H	Pending	M-17-T24S-R29E	432' FSL 1293' FWL	5,500	0	
OXBOW CC 17-08 FED COM 34H	Pending	P-17-T24S-R29E	601' FSL 1271' FEL	5,500	0	
OXBOW CC 17-08 FED COM 35H	Pending	P-17-T24S-R29E	601'FSL 1236' FEL	5,500	0	
OXBOW CC 17-08 FED COM 36H	Pending	P-17-T24S-R29E	601' FSL 1201' FEL	5,500	0	
OXBOW CC 17-08 FED COM 37H	Pending	N-17-T24S-R29E	255' FSL 1765' FWL	5,500	0	
OXBOW CC 17-08 FED COM 38H	Pending	N-17-T24S-R29E	255' FSL 1835' FWL	5,500	0	
SALT FLAT CC 20_29 FED COM 1H	Pending	D-20-T24S-R29E	558' FNL 851' FWL	4,000	0	

SALT FLAT CC 20_29 FED COM 2H	Pending	N-17-T24S-R29E	435’ FSL 1730’ FWL	4,000	0	
SALT FLAT CC 20_29 FED COM 3H	Pending	N-17-T24S-R29E	435’ FSL 1800’ FWL	4,000	0	
SALT FLAT CC 20_29 FED COM 5H	Pending	P-17-T24S-R29E	421’ FSL 1166’ FEL	4,000	0	
SALT FLAT CC 20_29 FED COM 6H	Pending	P-17-T24S-R29E	421’ FSL 1131’ FEL	4,000	0	
SALT FLAT CC 20_29 FED COM 11H	Pending	D-20-T24S-R29E	599’ FNL 794’ FWL	3,700	0	
SALT FLAT CC 20_29 FED COM 13H	Pending	P-17-T24S-R29E	1070’ FSL 1045’ FEL	3,700	0	
SALT FLAT CC 20_29 FED COM 14H	Pending	P-17-T24S-R29E	1070’ FSL 1010’ FEL	3,700	0	
SALT FLAT CC 20_29 FED COM 15H	Pending	N-17-T24S-R29E	435’ FSL 1700’ FWL	3,700	0	
OXBOW CC 17_08 FED COM 1H	Pending	D-20-T24S-R29E	538’ FNL 880’ FWL	4,000	0	
OXBOW CC 17_08 FED COM 2H	Pending	N-17-T24S-R29E	255’ FSL 1730’ FWL	4,000	0	
OXBOW CC 17_08 FED COM 3H	Pending	N-17-T24S-R29E	255’ FSL 1800’ FWL	4,000	0	
OXBOW CC 17_08 FED COM 5H	Pending	A-8-T24S-R29E	270’ FNL 1200’ FEL	4,000	0	
OXBOW CC 17_08 FED COM 6H	Pending	A-8-T24S-R293	270’ FNL 1135’ FEL	4,000	0	
OXBOW CC 17_08 FED COM 11H	Pending	D-20-T24S-R293	579’ FNL 823’ FWL	3,700	0	
OXBOW CC 17_08 FED COM 13H	Pending	A-8-T24S-R29E	270’ FNL 1235’ FEL	3,700	0	
OXBOW CC 17_08 FED COM 14H	Pending	A-8-T24S-R29E	270’ FNL 1165’FEL	3,700	0	
OXBOW CC 17_08 FED COM 15H	Pending	N-17-T24S-R29E	255’ FSL 1700’ FWL	3,700	0	
SALT FLAT CC 20_29 FED COM 42H	Pending	D-20-T24S-R29E	458’ FNL 995’ FWL	8,000	0	
SALT FLAT CC 20_29 FED COM 51H	Pending	D-20-T24S-R29E	438’ FNL 1024’ FWL	8,000	0	
SALT FLAT CC 20_29 FED COM 12H	Pending	D-20-T24S-R29E	418’ FNL 1052’ FWL	8,000	0	
SALT FLAT CC 20_29 FED COM 43H	Pending	P-17-T24S-R29E	1070’ FSL 805’ FEL	8,000	0	
SALT FLAT CC 20_29 FED COM 44H	Pending	P-17-T24S-R29E	1070’ FSL 735’ FEL	8,000	0	
SALT FLAT CC 20_29 FED COM 52H	Pending	P-17-T24S-R29E	1070’ FSL 770’ FEL	8,000	0	
OXBOW CC 17_08 FED COM 41H	Pending	D-20-T24S-R29E	498’ FNL 938’FWL	8,000	0	
OXBOW CC 17_08 FED COM 42H	Pending	D-20-T24S-R29E	476’ FNL 966’ FWL	8,000	0	
OXBOW CC 17_08 FED COM 45H	Pending	D-20-T24S-R29E	518’ FNL 909’FWL	8,000	0	
OXBOW CC 17_08 FED COM 43H	Pending	A-8-T24S-R29E	270’ FNL 925’ FEL	8,000	0	

OXBOW CC 17_08 FED COM 44H	Pending	A-8-T24S-R29E	270' FNL 825' FEL	8,000	0	
OXBOW CC 17_08 FED COM 52H	Pending	A-8-T24S-R39E	270'FNL 860' FEL	8,000	0	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility is dedicated to Enterprise Field Services, LLC ("Enterprise") and is connected to Enterprise low/high pressure gathering system located in Eddy County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at OXY USA WTP LP Processing Plant located in Sec. 23, Twn. 21S, Rng. 23E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Enterprise system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

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

Alternatives to Reduce Flaring

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

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

Oxy USA Inc. - Salt Flat CC 20_29 Federal Com 44H

1. Geologic Formations

TVD of target	11026'	Pilot Hole Depth	N/A
MD at TD:	21884'	Deepest Expected fresh water:	397'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	295	
Salado	612	Salt
Castile	1,270	Salt
Lamar/Delaware	2,828	Oil/Gas/Brine
Bell Canyon	2,901	Oil/Gas/Brine
Cherry Canyon	3,754	Oil/Gas/Brine
Brushy Canyon	5,009	Losses
Bone Spring	6,642	Oil/Gas
1st Bone Spring	7,553	Oil/Gas
2nd Bone Spring	8,347	Oil/Gas
3rd Bone Spring	9,491	Oil/Gas
Wolfcamp	**9,849**	**Oil/Gas**

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

2. Casing Program

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	Buoyant Body SF Tension	Buoyant Joint SF Tension
	From (ft)	To (ft)								
14.75	0	552	10.75	40.5	J-55	BTC	1.125	1.2	1.4	1.4
9.875	0	10432	7.625	26.4	L-80 HC	BTC	1.125	1.2	1.4	1.4
6.75	0	10982	5.5	26	P-110 CYHP	TORQ SFW	1.125	1.2	1.4	1.4
6.75	10982	21884	5	21.4	P-110 CYHP	TORQ DQW	1.125	1.2	1.4	1.4
							SF Values 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 TORQ SFW and/or TORQ DQW connections to accommodate hole conditions or drilling operations.

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM 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?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	448	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)	714	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate 2nd Stage (Tail Slurry) to be pumped as Bradenhead Squeeze from surface, down the Intermediate annulus						
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	647	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)	1146	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	552	100%
Intermediate 1st Stage (Lead)	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	5259	10432	5%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	5259	10%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	9932	21884	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.
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:
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		5M	Blind Ram	✓	250 psi / 5000 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure
		10M	Blind Ram	✓	250 psi / 5100 psi
			Pipe Ram		
			Double Ram	✓	
			Other*		

*Specify if additional ram is utilized.

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

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 per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.	

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. A separate sundry will be sent prior to spud that reflects the pad based break testing plan.

BOP break test under the following conditions:

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

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

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

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

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

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	552	Water-Based Mud	8.6-8.8	40-60	N/C
552	10432	Saturated Brine-Based or Oil-Based Mud	8.0-10.0	35-45	N/C
10432	21884	Water-Based or Oil-Based Mud	9.5-13.0	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 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	ICP - TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7454 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	169°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. • We plan to drill the three well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. • Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total estimated cuttings volume: 1559.5 bbls**.**

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

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Salt Flat CC 20-29 Federal Com
Well: Salt Flat CC 20_29 Federal Com 44H
Wellbore: Wellbore #1
Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

WELL DETAILS: Salt Flat CC 20_29 Federal Com 44H

Ground Level: 2927.60

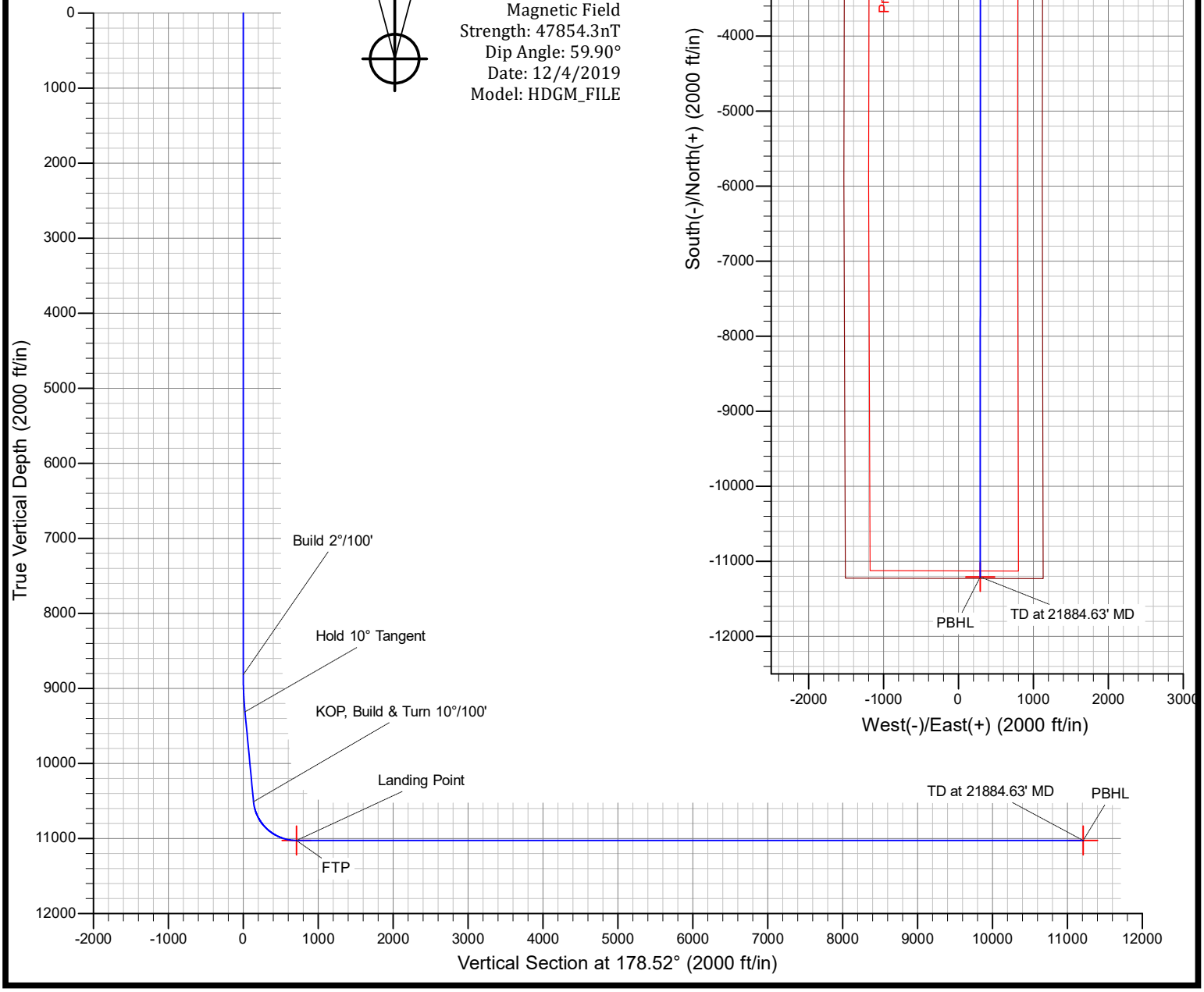
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	440993.93	643925.93	32° 12' 42.962286 N	104° 0' 5.852564 W

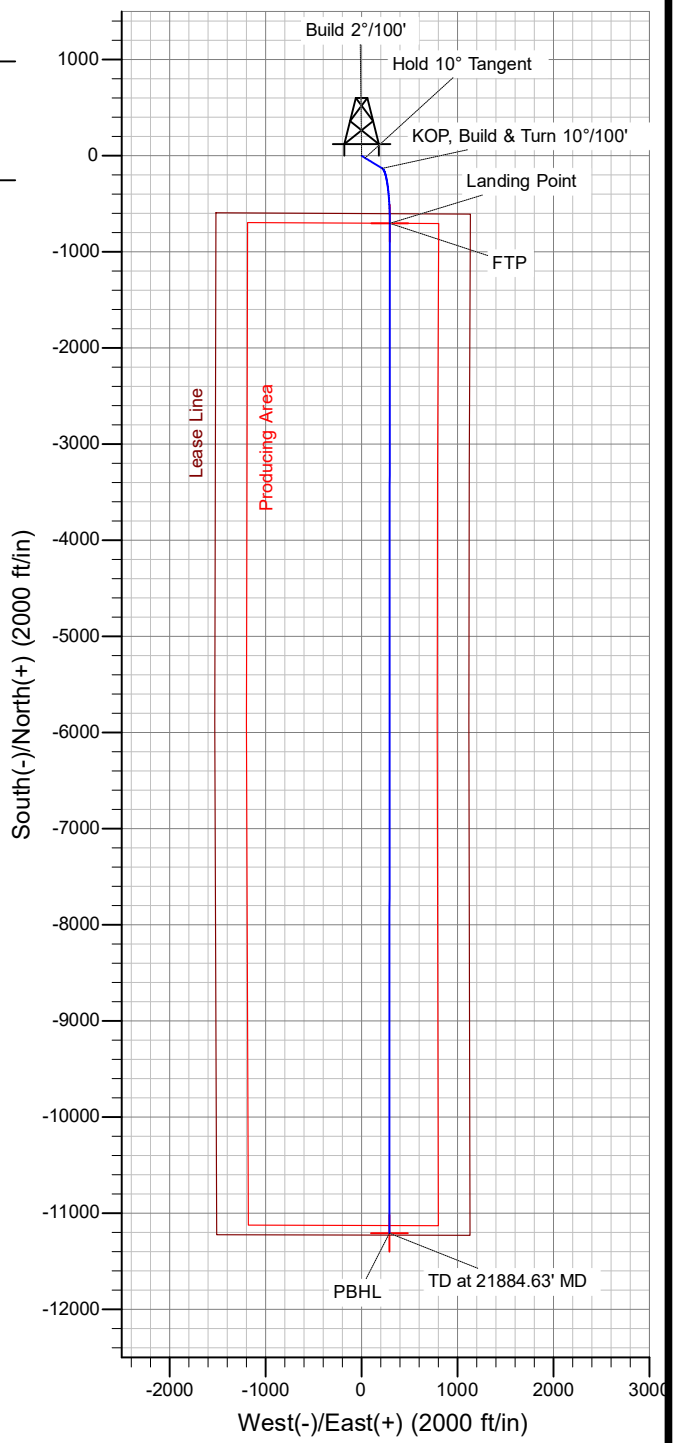
SECTION DETAILS

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	
8816.00	0.00	0.00	8816.00	0.00	0.00	0.00	0.00	0.00	Build 2°/100'
9315.76	10.00	121.22	9313.23	-22.54	37.18	2.00	121.22	23.49	Hold 10° Tangent
10532.07	10.00	121.22	10511.08	-131.96	217.72	0.00	0.00	137.56	KOP, Build & Turn 10°/100'
11380.49	90.00	180.03	11026.70	-702.64	295.19	10.00	59.19	710.05	Landing Point
21884.63	90.00	180.03	11026.70	-11206.78	290.43	0.00	0.00	11210.54	TD at 21884.63' MD

Azimuths to Grid North
True North: -0.18°
Magnetic North: 6.72°

Magnetic Field
Strength: 47854.3nT
Dip Angle: 59.90°
Date: 12/4/2019
Model: HDGM_FILE





OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Salt Flat CC 20-29 Federal Com
Salt Flat CC 20_29 Federal Com 44H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

04 December, 2019

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 44H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2954.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2954.10ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 44H	**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 44H

Well Position	**+N/-S**	179.27 ft	**Northing:**	440,993.93 usft	**Latitude:**	32° 12' 42.962286 N
	+E/-W	138.71 ft	**Easting:**	643,925.93 usft	**Longitude:**	104° 0' 5.852564 W
Position Uncertainty		2.00 ft	**Wellhead Elevation:**	0.00 ft	**Ground Level:**	2,927.60 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/4/2019	6.90	59.90	47,854.30000000

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	178.52

Plan Survey Tool Program **Date** 12/4/2019

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,884.63	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	
8,816.00	0.00	0.00	8,816.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,315.76	10.00	121.22	9,313.23	-22.54	37.18	2.00	2.00	0.00	121.22	
10,532.07	10.00	121.22	10,511.08	-131.96	217.72	0.00	0.00	0.00	0.00	
11,380.49	90.00	180.03	11,026.70	-702.64	295.19	10.00	9.43	6.93	59.19	FTP (Salt Flat CC
21,884.63	90.00	180.03	11,026.70	-11,206.78	290.43	0.00	0.00	0.00	0.00	PBHL (Salt Flat CC

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 44H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2954.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2954.10ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 44H	**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
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	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
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 44H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2954.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2954.10ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 44H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,816.00	0.00	0.00	8,816.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	1.68	121.22	8,899.99	-0.64	1.05	0.67	2.00	2.00	0.00
9,000.00	3.68	121.22	8,999.87	-3.06	5.05	3.19	2.00	2.00	0.00
9,100.00	5.68	121.22	9,099.54	-7.29	12.03	7.60	2.00	2.00	0.00
9,200.00	7.68	121.22	9,198.85	-13.32	21.98	13.88	2.00	2.00	0.00
9,300.00	9.68	121.22	9,297.70	-21.14	34.88	22.04	2.00	2.00	0.00
9,315.76	10.00	121.22	9,313.23	-22.54	37.18	23.49	2.00	2.00	0.00
9,400.00	10.00	121.22	9,396.19	-30.12	49.69	31.39	0.00	0.00	0.00
9,500.00	10.00	121.22	9,494.67	-39.11	64.53	40.77	0.00	0.00	0.00
9,600.00	10.00	121.22	9,593.16	-48.11	79.37	50.15	0.00	0.00	0.00
9,700.00	10.00	121.22	9,691.64	-57.11	94.22	59.53	0.00	0.00	0.00
9,800.00	10.00	121.22	9,790.12	-66.10	109.06	68.91	0.00	0.00	0.00
9,900.00	10.00	121.22	9,888.60	-75.10	123.90	78.28	0.00	0.00	0.00
10,000.00	10.00	121.22	9,987.08	-84.10	138.74	87.66	0.00	0.00	0.00
10,100.00	10.00	121.22	10,085.57	-93.09	153.59	97.04	0.00	0.00	0.00
10,200.00	10.00	121.22	10,184.05	-102.09	168.43	106.42	0.00	0.00	0.00
10,300.00	10.00	121.22	10,282.53	-111.09	183.27	115.80	0.00	0.00	0.00
10,400.00	10.00	121.22	10,381.01	-120.08	198.12	125.17	0.00	0.00	0.00
10,500.00	10.00	121.22	10,479.50	-129.08	212.96	134.55	0.00	0.00	0.00

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 44H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2954.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2954.10ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 44H	**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)
10,532.07	10.00	121.22	10,511.08	-131.96	217.72	137.56	0.00	0.00	0.00
10,600.00	14.67	144.87	10,577.46	-142.07	227.72	147.92	10.00	6.88	34.81
10,700.00	23.49	159.73	10,671.93	-171.19	241.95	177.40	10.00	8.82	14.86
10,800.00	32.96	166.58	10,759.96	-216.46	255.20	223.00	10.00	9.47	6.86
10,900.00	42.66	170.61	10,838.88	-276.51	267.07	283.33	10.00	9.70	4.03
11,000.00	52.45	173.37	10,906.30	-349.49	277.20	356.56	10.00	9.79	2.76
11,100.00	62.29	175.48	10,960.16	-433.21	285.28	440.46	10.00	9.84	2.11
11,200.00	72.16	177.24	10,998.82	-525.11	291.07	532.48	10.00	9.87	1.76
11,300.00	82.04	178.82	11,021.12	-622.41	294.39	629.83	10.00	9.88	1.57
11,380.49	90.00	180.03	11,026.70	-702.64	295.19	710.05	10.00	9.89	1.50
11,400.00	90.00	180.03	11,026.70	-722.15	295.19	729.55	0.00	0.00	0.00
11,500.00	90.00	180.03	11,026.70	-822.15	295.14	829.52	0.00	0.00	0.00
11,600.00	90.00	180.03	11,026.70	-922.15	295.09	929.48	0.00	0.00	0.00
11,700.00	90.00	180.03	11,026.70	-1,022.15	295.05	1,029.45	0.00	0.00	0.00
11,800.00	90.00	180.03	11,026.70	-1,122.15	295.00	1,129.41	0.00	0.00	0.00
11,900.00	90.00	180.03	11,026.70	-1,222.15	294.96	1,229.38	0.00	0.00	0.00
12,000.00	90.00	180.03	11,026.70	-1,322.15	294.91	1,329.34	0.00	0.00	0.00
12,100.00	90.00	180.03	11,026.70	-1,422.15	294.87	1,429.31	0.00	0.00	0.00
12,200.00	90.00	180.03	11,026.70	-1,522.15	294.82	1,529.27	0.00	0.00	0.00
12,300.00	90.00	180.03	11,026.70	-1,622.15	294.78	1,629.24	0.00	0.00	0.00
12,400.00	90.00	180.03	11,026.70	-1,722.15	294.73	1,729.20	0.00	0.00	0.00
12,500.00	90.00	180.03	11,026.70	-1,822.15	294.69	1,829.17	0.00	0.00	0.00
12,600.00	90.00	180.03	11,026.70	-1,922.15	294.64	1,929.13	0.00	0.00	0.00
12,700.00	90.00	180.03	11,026.70	-2,022.15	294.60	2,029.10	0.00	0.00	0.00
12,800.00	90.00	180.03	11,026.70	-2,122.15	294.55	2,129.06	0.00	0.00	0.00
12,900.00	90.00	180.03	11,026.70	-2,222.15	294.51	2,229.03	0.00	0.00	0.00
13,000.00	90.00	180.03	11,026.70	-2,322.15	294.46	2,328.99	0.00	0.00	0.00
13,100.00	90.00	180.03	11,026.70	-2,422.15	294.41	2,428.96	0.00	0.00	0.00
13,200.00	90.00	180.03	11,026.70	-2,522.15	294.37	2,528.93	0.00	0.00	0.00
13,300.00	90.00	180.03	11,026.70	-2,622.15	294.32	2,628.89	0.00	0.00	0.00
13,400.00	90.00	180.03	11,026.70	-2,722.15	294.28	2,728.86	0.00	0.00	0.00
13,500.00	90.00	180.03	11,026.70	-2,822.15	294.23	2,828.82	0.00	0.00	0.00
13,600.00	90.00	180.03	11,026.70	-2,922.15	294.19	2,928.79	0.00	0.00	0.00
13,700.00	90.00	180.03	11,026.70	-3,022.15	294.14	3,028.75	0.00	0.00	0.00
13,800.00	90.00	180.03	11,026.70	-3,122.15	294.10	3,128.72	0.00	0.00	0.00
13,900.00	90.00	180.03	11,026.70	-3,222.15	294.05	3,228.68	0.00	0.00	0.00
14,000.00	90.00	180.03	11,026.70	-3,322.15	294.01	3,328.65	0.00	0.00	0.00
14,100.00	90.00	180.03	11,026.70	-3,422.15	293.96	3,428.61	0.00	0.00	0.00
14,200.00	90.00	180.03	11,026.70	-3,522.15	293.92	3,528.58	0.00	0.00	0.00
14,300.00	90.00	180.03	11,026.70	-3,622.15	293.87	3,628.54	0.00	0.00	0.00
14,400.00	90.00	180.03	11,026.70	-3,722.15	293.83	3,728.51	0.00	0.00	0.00
14,500.00	90.00	180.03	11,026.70	-3,822.15	293.78	3,828.47	0.00	0.00	0.00
14,600.00	90.00	180.03	11,026.70	-3,922.15	293.73	3,928.44	0.00	0.00	0.00
14,700.00	90.00	180.03	11,026.70	-4,022.15	293.69	4,028.40	0.00	0.00	0.00
14,800.00	90.00	180.03	11,026.70	-4,122.15	293.64	4,128.37	0.00	0.00	0.00
14,900.00	90.00	180.03	11,026.70	-4,222.15	293.60	4,228.33	0.00	0.00	0.00
15,000.00	90.00	180.03	11,026.70	-4,322.15	293.55	4,328.30	0.00	0.00	0.00
15,100.00	90.00	180.03	11,026.70	-4,422.15	293.51	4,428.27	0.00	0.00	0.00
15,200.00	90.00	180.03	11,026.70	-4,522.15	293.46	4,528.23	0.00	0.00	0.00
15,300.00	90.00	180.03	11,026.70	-4,622.15	293.42	4,628.20	0.00	0.00	0.00
15,400.00	90.00	180.03	11,026.70	-4,722.15	293.37	4,728.16	0.00	0.00	0.00
15,500.00	90.00	180.03	11,026.70	-4,822.15	293.33	4,828.13	0.00	0.00	0.00
15,600.00	90.00	180.03	11,026.70	-4,922.15	293.28	4,928.09	0.00	0.00	0.00
15,700.00	90.00	180.03	11,026.70	-5,022.15	293.24	5,028.06	0.00	0.00	0.00

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 44H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2954.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2954.10ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 44H	**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	90.00	180.03	11,026.70	-5,122.15	293.19	5,128.02	0.00	0.00	0.00
15,900.00	90.00	180.03	11,026.70	-5,222.15	293.15	5,227.99	0.00	0.00	0.00
16,000.00	90.00	180.03	11,026.70	-5,322.15	293.10	5,327.95	0.00	0.00	0.00
16,100.00	90.00	180.03	11,026.70	-5,422.15	293.06	5,427.92	0.00	0.00	0.00
16,200.00	90.00	180.03	11,026.70	-5,522.15	293.01	5,527.88	0.00	0.00	0.00
16,300.00	90.00	180.03	11,026.70	-5,622.15	292.96	5,627.85	0.00	0.00	0.00
16,400.00	90.00	180.03	11,026.70	-5,722.15	292.92	5,727.81	0.00	0.00	0.00
16,500.00	90.00	180.03	11,026.70	-5,822.15	292.87	5,827.78	0.00	0.00	0.00
16,600.00	90.00	180.03	11,026.70	-5,922.15	292.83	5,927.74	0.00	0.00	0.00
16,700.00	90.00	180.03	11,026.70	-6,022.15	292.78	6,027.71	0.00	0.00	0.00
16,800.00	90.00	180.03	11,026.70	-6,122.15	292.74	6,127.67	0.00	0.00	0.00
16,900.00	90.00	180.03	11,026.70	-6,222.15	292.69	6,227.64	0.00	0.00	0.00
17,000.00	90.00	180.03	11,026.70	-6,322.15	292.65	6,327.61	0.00	0.00	0.00
17,100.00	90.00	180.03	11,026.70	-6,422.15	292.60	6,427.57	0.00	0.00	0.00
17,200.00	90.00	180.03	11,026.70	-6,522.15	292.56	6,527.54	0.00	0.00	0.00
17,300.00	90.00	180.03	11,026.70	-6,622.15	292.51	6,627.50	0.00	0.00	0.00
17,400.00	90.00	180.03	11,026.70	-6,722.15	292.47	6,727.47	0.00	0.00	0.00
17,500.00	90.00	180.03	11,026.70	-6,822.15	292.42	6,827.43	0.00	0.00	0.00
17,600.00	90.00	180.03	11,026.70	-6,922.15	292.38	6,927.40	0.00	0.00	0.00
17,700.00	90.00	180.03	11,026.70	-7,022.15	292.33	7,027.36	0.00	0.00	0.00
17,800.00	90.00	180.03	11,026.70	-7,122.15	292.28	7,127.33	0.00	0.00	0.00
17,900.00	90.00	180.03	11,026.70	-7,222.15	292.24	7,227.29	0.00	0.00	0.00
18,000.00	90.00	180.03	11,026.70	-7,322.15	292.19	7,327.26	0.00	0.00	0.00
18,100.00	90.00	180.03	11,026.70	-7,422.15	292.15	7,427.22	0.00	0.00	0.00
18,200.00	90.00	180.03	11,026.70	-7,522.15	292.10	7,527.19	0.00	0.00	0.00
18,300.00	90.00	180.03	11,026.70	-7,622.15	292.06	7,627.15	0.00	0.00	0.00
18,400.00	90.00	180.03	11,026.70	-7,722.15	292.01	7,727.12	0.00	0.00	0.00
18,500.00	90.00	180.03	11,026.70	-7,822.15	291.97	7,827.08	0.00	0.00	0.00
18,600.00	90.00	180.03	11,026.70	-7,922.15	291.92	7,927.05	0.00	0.00	0.00
18,700.00	90.00	180.03	11,026.70	-8,022.15	291.88	8,027.01	0.00	0.00	0.00
18,800.00	90.00	180.03	11,026.70	-8,122.15	291.83	8,126.98	0.00	0.00	0.00
18,900.00	90.00	180.03	11,026.70	-8,222.15	291.79	8,226.95	0.00	0.00	0.00
19,000.00	90.00	180.03	11,026.70	-8,322.15	291.74	8,326.91	0.00	0.00	0.00
19,100.00	90.00	180.03	11,026.70	-8,422.15	291.70	8,426.88	0.00	0.00	0.00
19,200.00	90.00	180.03	11,026.70	-8,522.15	291.65	8,526.84	0.00	0.00	0.00
19,300.00	90.00	180.03	11,026.70	-8,622.15	291.60	8,626.81	0.00	0.00	0.00
19,400.00	90.00	180.03	11,026.70	-8,722.15	291.56	8,726.77	0.00	0.00	0.00
19,500.00	90.00	180.03	11,026.70	-8,822.15	291.51	8,826.74	0.00	0.00	0.00
19,600.00	90.00	180.03	11,026.70	-8,922.15	291.47	8,926.70	0.00	0.00	0.00
19,700.00	90.00	180.03	11,026.70	-9,022.15	291.42	9,026.67	0.00	0.00	0.00
19,800.00	90.00	180.03	11,026.70	-9,122.15	291.38	9,126.63	0.00	0.00	0.00
19,900.00	90.00	180.03	11,026.70	-9,222.15	291.33	9,226.60	0.00	0.00	0.00
20,000.00	90.00	180.03	11,026.70	-9,322.15	291.29	9,326.56	0.00	0.00	0.00
20,100.00	90.00	180.03	11,026.70	-9,422.15	291.24	9,426.53	0.00	0.00	0.00
20,200.00	90.00	180.03	11,026.70	-9,522.15	291.20	9,526.49	0.00	0.00	0.00
20,300.00	90.00	180.03	11,026.70	-9,622.15	291.15	9,626.46	0.00	0.00	0.00
20,400.00	90.00	180.03	11,026.70	-9,722.15	291.11	9,726.42	0.00	0.00	0.00
20,500.00	90.00	180.03	11,026.70	-9,822.15	291.06	9,826.39	0.00	0.00	0.00
20,600.00	90.00	180.03	11,026.70	-9,922.15	291.02	9,926.35	0.00	0.00	0.00
20,700.00	90.00	180.03	11,026.70	-10,022.15	290.97	10,026.32	0.00	0.00	0.00
20,800.00	90.00	180.03	11,026.70	-10,122.15	290.93	10,126.28	0.00	0.00	0.00
20,900.00	90.00	180.03	11,026.70	-10,222.15	290.88	10,226.25	0.00	0.00	0.00
21,000.00	90.00	180.03	11,026.70	-10,322.15	290.83	10,326.22	0.00	0.00	0.00
21,100.00	90.00	180.03	11,026.70	-10,422.15	290.79	10,426.18	0.00	0.00	0.00

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Salt Flat CC 20_29 Federal Com 44H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 2954.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 2954.10ft
Site:	Salt Flat CC 20-29 Federal Com	**North Reference:**	Grid
Well:	Salt Flat CC 20_29 Federal Com 44H	**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	90.00	180.03	11,026.70	-10,522.15	290.74	10,526.15	0.00	0.00	0.00
21,300.00	90.00	180.03	11,026.70	-10,622.15	290.70	10,626.11	0.00	0.00	0.00
21,400.00	90.00	180.03	11,026.70	-10,722.15	290.65	10,726.08	0.00	0.00	0.00
21,500.00	90.00	180.03	11,026.70	-10,822.15	290.61	10,826.04	0.00	0.00	0.00
21,600.00	90.00	180.03	11,026.70	-10,922.15	290.56	10,926.01	0.00	0.00	0.00
21,700.00	90.00	180.03	11,026.70	-11,022.15	290.52	11,025.97	0.00	0.00	0.00
21,800.00	90.00	180.03	11,026.70	-11,122.15	290.47	11,125.94	0.00	0.00	0.00
21,884.63	90.00	180.03	11,026.70	-11,206.78	290.43	11,210.54	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	11,026.70	-11,206.78	290.43	429,788.06	644,216.34	32° 10' 52.060777 N	104° 0' 2.875558 W
FTP (Salt Flat CC - plan hits target center - Point	0.00	0.01	11,026.70	-702.64	295.19	440,291.35	644,221.10	32° 12' 36.000585 N	104° 0' 2.442092 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
8,816.00	8,816.00	0.00	0.00	Build 2°/100'
9,315.76	9,313.23	-22.54	37.18	Hold 10° Tangent
10,532.07	10,511.08	-131.96	217.72	KOP, Build & Turn 10°/100'
11,380.49	11,026.70	-702.64	295.19	Landing Point
21,884.63	11,026.70	-11,206.78	290.43	TD at 21884.63' MD

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Oxy USA Incorporated
LEASE NO.:	NMNM17224
WELL NAME & NO.:	SALT FLAT CC 20-29 FEDERAL COM 44H
SURFACE HOLE FOOTAGE:	1070'/S & 735'/E
BOTTOM HOLE FOOTAGE	20'/S & 840'/E
LOCATION:	Section 17, T.24 S., R.17 E., NMP
COUNTY:	Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **552** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **10-3/4** inch intermediate casing shall be set at approximately **10432** feet. 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 **Medium Cave/Karst Areas** if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must run a CBL/ ECHO-METER from TD of the 7-5/8" casing to surface. Submit results to BLM.

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.

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 **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 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 **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 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)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Offline Cementing

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

BOP Break Testing Variance

- BOP break testing is not permitted on this well.

GENERAL REQUIREMENTS

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

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

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

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

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

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

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

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

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

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

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

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

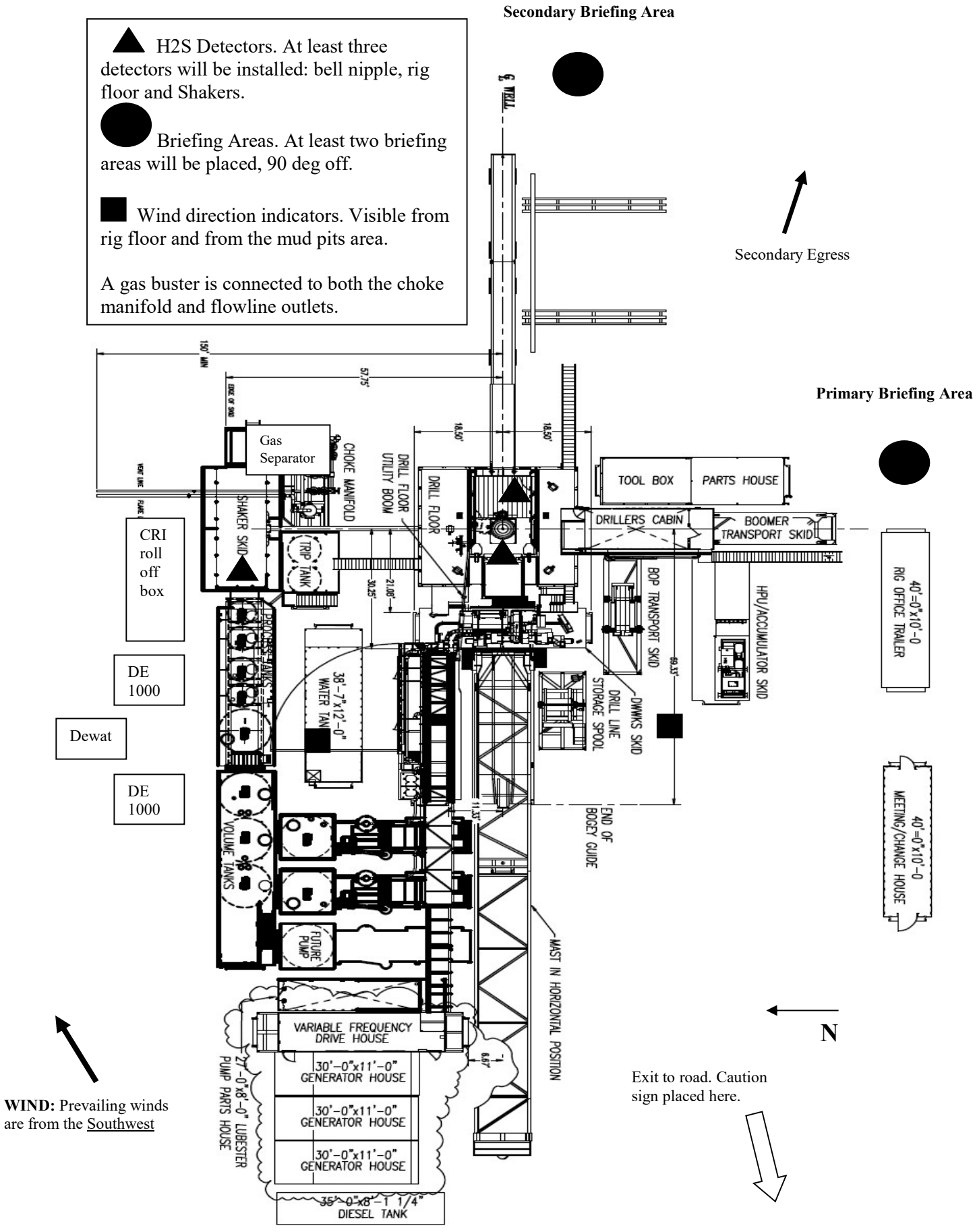
NMK10132020

Permian Drilling
Hydrogen Sulfide Drilling Operations Plan
Salt Flat CC 20_29 Federal Com 44H

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.


Secondary Briefing Area
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 Egress
Primary Briefing Area
Gas Separator
CHOKE MANIFOLD
DRILL FLOOR UTILITY BOOM
DRILL FLOOR
TOOL BOX
PARTS HOUSE
DRILLERS CABIN
BOOMER TRANSPORT SKID
SHAKER SKID
TRIP TANK
CRI roll off box
DE 1000
Dewat
DE 1000
PROCESS TANKS
38'-7"x12'-0" WATER TAN
VOLUME TANKS
FUTURE PUMP
BOP TRANSPORT SKID
HPU/ACCUMULATOR SKID
DRILL LINE STORAGE SPOOL
DWWKS SKID
END OF BOGEY GUIDE
MAST IN HORIZONTAL POSITION
40'-0"x10'-0 RIG OFFICE TRAILER
40'-0"x10'-0 MEETING/CHANGE HOUSE
VARIABLE FREQUENCY DRIVE HOUSE
30'-0"x11'-0" GENERATOR HOUSE
30'-0"x11'-0" GENERATOR HOUSE
30'-0"x11'-0" GENERATOR HOUSE
27'-0"x8'-0" LUBESTER PUMP PARTS HOUSE
35'-0"x8'-1 1/4" DIESEL TANK
N
WIND: Prevailing winds are from the Southwest
Exit to road. Caution sign placed here.

Permian Drilling
Hydrogen Sulfide Drilling Operations Plan
OXBOW CC 17-8 FED COM 11H

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

1. Escape

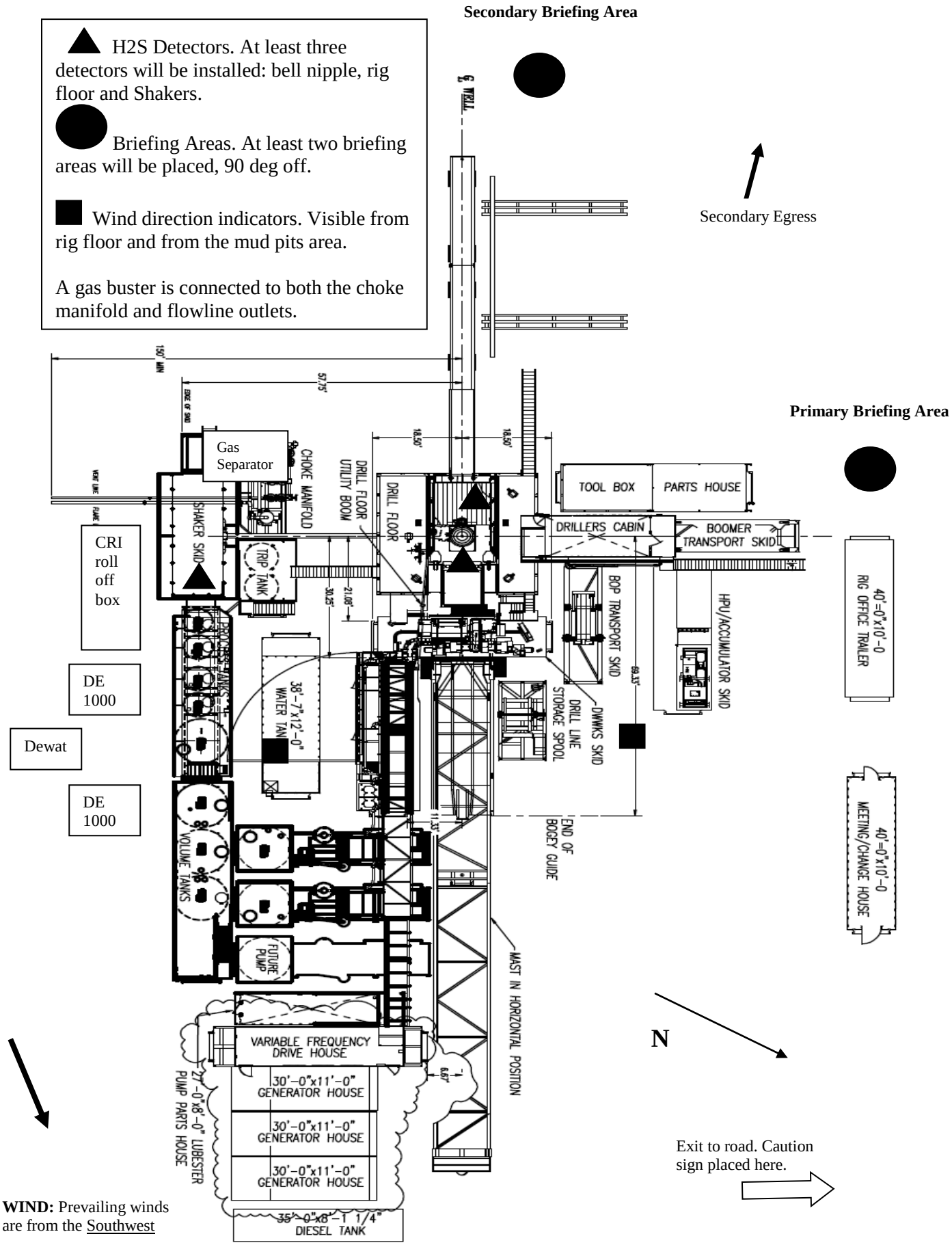
   Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction,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



WIND: Prevailing winds are from the Southwest

OXY Permian Delaware NM Basin Drilling & Completions Incident Reporting

OXY Permian Crisis Team Hotline Notification

Person	Location	Office Phone	Cell/Mobile Phone	Home Phone	Pager Number
Drilling & Completions Department					
Drilling & Completions Manager: John Willis	Houston	(713) 366-5556	(713) 259-1417		
Drilling Superintendent: Simon Benavides	Houston	(713) 215-7403	(832) 528-3547		
Completions Superintendent: Chris Winter	Houston	(713) 366-5212	(806) 239-8774		
Drilling Eng. Supervisor: Diego Tellez	Houston	(713) 350-4602	(713) 303-4932		
Drilling Eng. Supervisor: Randy Neel	Houston	(713) 215-7987	(713) 517-5544		
Completions Eng. Supervisor: Evan Hinkel	Houston	(713) 366-5436	(281) 236-6153		
Drilling & Completions HES Lead. Ryan Green	Houston	713-336-5753	281-520-5216		
Drilling & Completions HES Advisor:Kenny Williams	Carlsbad	(432) 686-1434	(337) 208-0911		
Drilling & Completions HES Advisor:Kyle Holden	Carlsbad	(432) 686-1435	(661) 369-5328		
Drilling & Completions HES Advisor Sr:Dave Schmidt	Carlsbad		(559) 310-8572		
Drilling & Completions HES Advisor. :Seth Doyle	Carlsbad		(337) 499-0756		
HES / Enviromental & Regulatory Department	Location	Office	Cell Phone		
Jon Hamil-HES Manager	Houston	(713) 497-2494	(832) 537-9885		
Mark Birk-HES Manager	Houston	(713) 350-4615	(949) 413-3127		
Austin Tramell	Midland	(432) 699-4208	(575) 499-4919		
Rico Munoz	Midland	(432) 699-8366	(432) 803-4116		
Amber DuckWorth	Midland		(832) 966-1879		
Kelley Montgomery- Regulatory Manager	Houston	(713) 366-5716	(832) 454-8137		
Sandra Musallam -Regulatory Lead	Houston	+1 (713) 366-5106	+1 (713) 504-8577		
Bishop, Steve-DOT Pipeline Coordinator	Midland	432-685-5614			
Wilson, Dusty-Safety Advisor	Midland	432-685-5771	(432) 254-2336		
John W Dittrich Enviromental Advisor	Midland		(575) 390-2828		
William (Jack) Calhoun-Environmental Lead	Houston	+713 (350) 4906	(281) 917-8571		
Robert Barrow-Risk Engineer Manager	Houston	(713) 366-5611	(832) 867-5336		
Sarah Holmes-HSE Cordinator	Midland	432-685-5758			
Administrative	Location	Office			
Sarah Holmes	Midland	432-685-5830			
Robertson, Debbie	Midland	432-685-5812			
Laci Hollaway	Midland	(432) 685-5716	(432) 631-6341		
Administrative	Location	Office			
Rosalinda Escajeda	Midland	432-685-5831			
Moreno, Leslie (contract)	Hobbs	575-397-8247			
Sehon, Angela (contractor)	Levelland	806-894-8347			
Vasquez, Claudia (contractor)	North Cowden	432-385-3120			
XstremeMD	Location	Office			
Medical Case Management	Orla, TX	(337) 205-9314			
Axiom Medical Consulting	Location	Office			
Medical Case Management		(877) 502-9466			
Regulatory Agencies					
Bureau of Land Management	Carlsbad, NM	(505) 887-6544			
Bureau of Land Management	Hobbs, NM	(505) 393-3612			
Bureau of Land Management	Roswell, NM	(505) 393-3612			
Bureau of Land Management	Santa Fe, NM	(505) 988-6030			

DOT Juisdictional Pipelines-Incident Reporting New Mexico Public Regulaion Commission	Santa Fe, NM	(505) 827-3549 (505) 490-2375			
DOT Juisdictional Pipelines-Incident Reporting Texas Railroad Commission	Austin, TX	(512) 463-6788			
EPA Hot Line	Dallas, Texas	(214) 665-6444			
Federal OSHA, Area Office	Lubbock, Texas	(806) 472-7681			
National Response Center	Washington, D. C.	(800) 424-8802			
National Infrastructure Coordinator Center		(202) 282-9201			
New Mexico Air Quality Bureau	Santa Fe, NM	(505) 827-1494			
New Mexico Oil Conservation Division	Artesia, NM	(505) 748-1283	After Hours (505) 370-7545		
New Mexico Oil Conservation Division	Hobbs, NM	(505) 393-6161			
New Mexico Oil Conservation Division	Santa Fe, NM	(505) 471-1068			
New Mexico OCD Environmental Bureau	Santa Fe, NM	(505) 476-3470			
New Mexico Environmental Department	Hobbs, NM	(505) 827-9329			
NM State Emergency Response Center	Santa Fe, NM	(505) 827-9222			
Railroad Commission of TX	District 1 San Antonio,	(210) 227-1313			
Railroad Commission of TX	District 7C San Angelo	(325) 657-7450			
Railroad Commission of TX	District 8, 8A Midland	(432) 684-5581			
Texas Emergency Response Center	Austin, TX	(512) 463-7727			
TCEQ Air	Region 2 Lubbock, TX	(806) 796-3494			
TCEQ Water/Waste/Air	Region 3 Abilene, TX	(325) 698-9674			
TCEQ Water/Waste/Air	Region 7 Midland, TX	(432) 570-1359			
TCEQ Water/Waste/Air	Region 9 San Antonio,	(512) 734-7981			
TCEQ Water/Waste/Air	Region 8 San Angelo	(325) 655-9479			
Medical Facilities					
Abernathy Medical Clinic	Abernathy, TX	(806) 298-2524			
Alliance Hospital	Odessa, TX	(432) 550-1000			
Artesia General Hospital	Artesia, NM	(505) 748-3333			
Brownfield Regional Medical Center	Brownfield, TX	(806) 637-3551			
Cogdell Memorial Hospital	Snyder, TX	(325) 573-6374			
Covenant Hospital Levelland	Levelland, TX	(806) 894-4963			
Covenant Medical Center	Lubbock, TX	(806) 725-1011			
Covenant Medical Center Lakeside	Lubbock, TX	(806) 725-6000			
Covenant Family Health	Synder, TX	(325) 573-1300			
Crockett County Hospital	Ozona, TX	(325) 392-2671			
Guadalupe Medical Center	Carlsbad, NM	(505) 887-6633			
Lea Regional Hospital	Hobbs, NM	(505) 492-5000			
McCamey Hospital	McCamey, TX	(432) 652-8626			
Medical Arts Hospital	Lamesa, TX	(806) 872-2183			
Medical Center Hospital	Odessa, TX	(432) 640-4000			
Medi Center Hospital	San Angelo, TX	(325) 653-6741			
Memorial Hospital	Ft. Stockton	(432) 336-2241			
Memorial Hospital	Seminole, TX	(432) 758-5811			
Midland Memorial Hospital	Midland, TX	(432) 685-1111			
Nor-Lea General Hospital	Lovington, NM	(505) 396-6611			
Odessa Regional Hospital	Odessa, TX	(432) 334-8200			
Permian General Hospital	Andrews, TX	(432) 523-2200			
Reagan County Hospital	Big Lake, TX	(325) 884-2561			
Reeves County Hospital	Pecos, TX	(432) 447-3551			
Shannon Medical Center	San Angelo, TX	(325) 653-6741			
Union County General Hospital	Clayton, NM	(505) 374-2585			
University Medical Center	Lubbock, TX	(806) 725-8200			
Val Verde Regional Medical Center	Del Rio, TX	(830) 775-8566			
Ward Memorial Hospital	Monahans, TX	(432) 943-2511			
Yoakum County Hospital	Denver City, TX	(806) 592-5484			

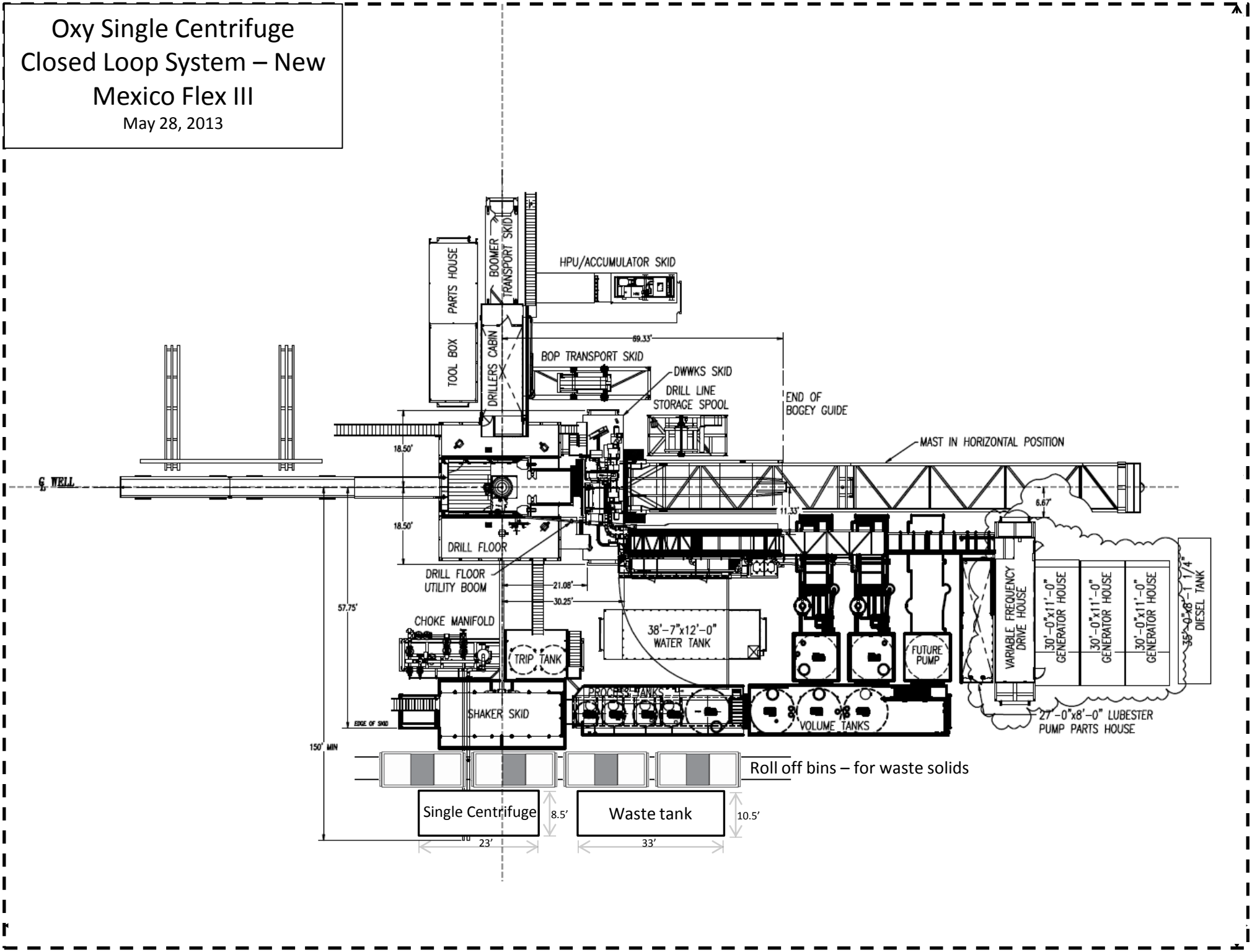
Law Enforcement - Sheriff					
Andrews Cty Sheriff's Department	Andrews County(Andr	(432) 523-5545			
Crane Cty Sheriff's Department	Crane, County (Crane)	(432) 558-3571			
Crockett Cty Sheriff's Department	Crockett County (Ozor	(325) 392-2661			
Dawson Cty Sheriff's Department	Dawson County (Lame	(806) 872-7560			
Ector Cty Sheriff's Department	Ector County (Odessa)	(432) 335-3050			
Eddy Cty Sheriff's Department	Eddy County (Artesia)	(505) 746-2704			
Eddy Cty Sheriff's Department	Eddy County (Carlsbac	(505) 887-7551			
Gaines Cty Sheriff's Department	Gaines County (Semin	(432) 758-9871			
Hockley Cty Sheriff's Department	Hockley County(Levell	(806) 894-3126			
Kent Cty (Jayton City Sheriff's Dept.)	Kent County(Jayton)	(806) 237-3801			
Lea Cty Sheriff's Department	Lea County (Eunice)	(505) 384-2020			
Lea Cty Sheriff's Department	Lea County (Hobbs)	(505) 393-2515			
Lea Cty Sheriff's Department	Lea County (Lovingtor	(505) 396-3611			
Lubbock Cty Sheriff's Department	Lubbock Cty (Abernatl	(806) 296-2724			
Midland Cty Sheriff's Department	Midland County (Midl	(432) 688-1277			
Pecos Cty Sheriff's Department	Pecos County (Iraan)	(432) 639-2251			
Reeves Cty Sheriff's Department	Reeves County (Pecos)	(432) 445-4901			
Scurry Cty Sheriff's Department	Scurry County (Snyder	(325) 573-3551			
Terry Cty Sheriff's Department	Terry County (Brownfi	(806) 637-2212			
Union Cty Sheriff's Department	Union County (Clayton	(505) 374-2583			
Upton Cty Sheriff's Department	Upton County (Rankin	(432) 693-2422			
Ward Cty Sheriff's Department	Ward County (Monaha	(432) 943-3254			
Yoakum City Sheriff's Department	Yoakum Co. (Denever	(806) 456-2377			
Law Enforcement - Police					
Abernathy City Police	Abernathy, TX	(806) 298-2545			
Andrews City Police	Andrews, TX	(432) 523-5675			
Artesia City Police	Artesia, NM	(505) 746-2704			
Brownfield City Police	Brownfield, TX	(806) 637-2544			
Carlsbad City Police	Carlsbad, NM	(505) 885-2111			
Clayton City Police	Clayton, NM	(505) 374-2504			
Denver City Police	Denver City, TX	(806) 592-3516			
Eunice City Police	Eunice, NM	(505) 394-2112			
Hobbs City Police	Hobbs, NM	393-2677			
Jal City Police	Jal, NM	(505) 395-2501			
Jayton City Police	Jayton, TX	(806) 237-3801			
Lamesa City Police	Lamesa, TX	(806) 872-2121			
Levelland City Police	Levelland, TX	(806) 894-6164			
Lovington City Police	Lovington, NM	(505) 396-2811			
Midland City Police	Midland, TX	(432) 685-7113			
Monahans City Police	Monahans, TX	(432) 943-3254			
Odessa City Police	Odessa, TX	(432) 335-3378			
Seminole City Police	Seminole, TX	(432) 758-9871			
Snyder City Police	Snyder, TX	(325) 573-2611			
Sundown City Police	Sundown, TX	(806) 229-8241			
Law Enforcement - FBI					
FBI	Alburqueque, NM	(505) 224-2000			
FBI	Midland, TX	(432) 570-0255			
Law Enforcement - DPS					
NM State Police	Artesia, NM	(505) 746-2704			
NM State Police	Carlsbad, NM	(505) 885-3137			
NM State Police	Eunice, NM	(505) 392-5588			

NM State Police	Hobbs, NM	(505) 392-5588			
NM State Police	Clayton, NM	(505) 374-2473; 911			
TX Dept of Public Safety	Andrews, TX	(432) 524-1443			
TX Dept of Public Safety	Big Lake, TX	(325) 884-2301			
TX Dept of Public Safety	Brownfield, TX	(806) 637-2312			
TX Dept of Public Safety	Iraan, TX	(432) 639-3232			
TX Dept of Public Safety	Lamesa, TX	(806) 872-8675			
TX Dept of Public Safety	Levelland, TX	(806) 894-4385			
TX Dept of Public Safety	Lubbock, TX	(806) 747-4491			
TX Dept of Public Safety	Midland, TX	(432) 697-2211			
TX Dept of Public Safety	Monahans, TX	(432) 943-5857			
TX Dept of Public Safety	Odessa, TX	(432) 332-6100			
TX Dept of Public Safety	Ozona, TX	(325) 392-2621			
TX Dept of Public Safety	Pecos, TX	(432) 447-3533			
TX Dept of Public Safety	Seminole, TX	(432) 758-4041			
TX Dept of Public Safety	Snyder, TX	(325) 573-0113			
TX Dept of Public Safety	Terry County TX	(806) 637-8913			
TX Dept of Public Safety	Yoakum County TX	(806) 456-2377			
Firefighting & Rescue					
Abernathy	Abernathy, TX	(806) 298-2022			
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113			
Andrews	Andrews, TX	523-3111			
Artesia	Artesia, NM	(505) 746-5051			
Big Lake	Big Lake, TX	(325) 884-3650			
Brownfield-Administrative & other calls	Brownfield, TX	(816) 637-4547			
Brownfield emergency only	Brownfield, TX	-911			
Carlsbad	Carlsbad, NM	(505) 885-3125			
Clayton	Clayton, NM	(505) 374-2435			
Cotton Center	Cotton Center, TX	(806) 879-2157			
Crane	Crane, TX	(432) 558-2361			
Del Rio	Del Rio, TX	(830) 774-8650			
Denver City	Denver City, TX	(806) 592-3516			
Eldorado	Eldorado, TX	(325) 853-2691			
Eunice	Eunice, NM	(505) 394-2111			
Garden City	Garden City, TX	(432) 354-2404			
Goldsmith	Goldsmith, TX	(432) 827-3445			
Hale Center	Hale Center, TX	(806) 839-2411			
Halfway	Halfway, TX				
Hobbs	Hobbs, NM	(505) 397-9308			
Jal	Jal, NM	(505) 395-2221			
Jayton	Jayton, TX	(806) 237-3801			
Kermit	Kermit, TX	(432) 586-3468			
Lamesa	Lamesa, TX	(806) 872-4352			
Levelland	Levelland, TX	(806) 894-3154			
Lovington	Lovington, NM	(505) 396-2359			
Maljamar	Maljamar, NM	(505) 676-4100			
McCamey	McCamey, TX	(432) 652-8232			
Midland	Midland, TX	(432) 685-7346			
Monahans	Monahans, TX	(432) 943-4343			
Nara Visa	Nara Visa, NM	(505) 461-3300			
Notrees	Notress, TX	(432) 827-3445			
Odessa	Odessa, TX	(432) 335-4659			
Ozona	Ozona, TX	(325) 392-2626			
Pecos	Pecos, TX	(432) 445-2421			
Petersburg	Petersburg, TX	(806) 667-3461			

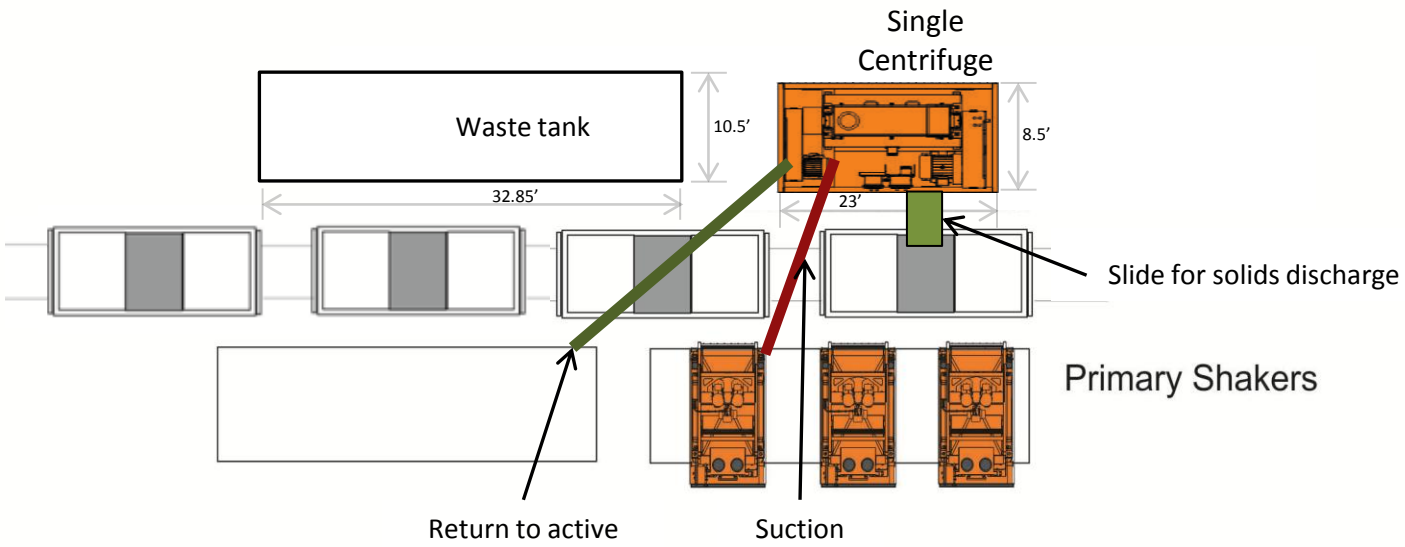
Plains	Plains, TX	(806) 456-8067			
Plainview	Plainview, TX	(806) 296-1170			
Rankin	Rankin, TX	(432) 693-2252			
San Angelo	San Angelo, TX	(325) 657-4355			
Sanderson	Sanderson, TX	(432) 345-2525			
Seminole	Seminole, TX	758-9871			
Smyer	Smyer, TX	(806) 234-3861			
Snyder	Snyder, TX	(325) 573-6215			
Sundown	Sundown, TX	**911**			
Tucumcari	Tucumcari, NM	911			
West Odessa	Odessa, TX	(432) 381-3033			
Ambulance					
Abernathy Ambulance	Abernathy, TX	(806) 298-2241			
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113			
Andrews Ambulance	Andrews, TX	(432) 523-5675			
Artesia Ambulance	Artesia, NM	(505) 746-2701			
Big Lake Ambulance	Big Lake, TX	(325) 884-2423			
Big Spring Ambulance	Big Spring, TX	(432) 264-2550			
Brownfield Ambulance	Brownfield, TX	(806) 637-2511			
Carlsbad Ambulance	Carlsbad, NM	(505) 885-2111; 911			
Clayton, NM	Clayton, NM	(505) 374-2501			
Denver City Ambulance	Denver City, TX	(806) 592-3516			
Eldorado Ambulance	Eldorado, TX	(325) 853-3456			
Eunice Ambulance	Eunice, NM	(505) 394-3258			
Goldsmith Ambulance	Goldsmith, TX	(432) 827-3445			
Hobbs, NM	Hobbs, NM	(505) 397-9308			
Jal, NM	Jal, NM	(505) 395-2501			
Jayton Ambulance	Jayton, TX	(806) 237-3801			
Lamesa Ambulance	Lamesa, TX	(806) 872-3464			
Levelland Ambulance	Levelland, TX	(806) 894-8855			
Lovington Ambulance	Lovington, NM	(505) 396-2811			
McCamey Hospital	McCamey, TX	(432) 652-8626			
Midland Ambulance	Midland, TX	(432) 685-7499			
Monahans Ambulance	Monahans, TX	3731			
Nara Visa, NM	Nara Visa, NM	(505) 461-3300			
Odessa Ambulance	Odessa, TX	(432) 335-3378			
Ozona Ambulance	Ozona, TX	(325) 392-2671			
Pecos Ambulance	Pecos, TX	(432) 445-4444			
Rankin Ambulance	Rankin, TX	(432) 693-2443			
San Angelo Ambulance	San Angelo, TX	(325) 657-4357			
Seminole Ambulance	Seminole, TX	758-9871			
Snyder Ambulance	Snyder, TX	(325) 573-1911			
Stanton Ambulance	Stanton, TX	(432) 756-2211			
Sundown Ambulance	Sundown, TX	**911**			
Tucumcari, NM	Tucumcari, NM	911			
Medical Air Ambulance Service					
AEROCARE - Methodist Hospital	Lubbock, TX	(800) 627-2376			
San Angelo Med-Vac Air Ambulance	San Angelo, TX	(800) 277-4354			
Southwest Air Ambulance Service	Stanford, TX	(800) 242-6199			
Southwest MediVac	Snyder, TX	(800) 242-6199			
Southwest MediVac	Hobbs, NM	(800) 242-6199			
Odessa Care Star	Odessa, TX	(888) 624-3571			
NWTH Medivac	Amarillo, TX	(800) 692-1331			

Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

May 28, 2013



Oxy



Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

May 28, 2013