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

Sundry Print Report

04/05/2023

Well Name: SAKER 6-7 FEDERAL COM

Well Location: T24S / R35E / SEC 6 / LOT 1 /

County or Parish/State:

Well Number: 33H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM14164

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002548934

Well Status: Approved Application for Permit to Drill

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2714738

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/08/2023

Time Sundry Submitted: 12:47

Date proposed operation will begin: 03/31/2023

Procedure Description: OXY USA Inc. respectfully requests approval to amend the subject well AAPD pool to the wolfcamp and amend the drill plan casing, cementing and mug programs. See the attached well plat showing the update pool and the updated drill plan files with the new depths and revisions. SHL and BHL are not changing.

NOI Attachments

Procedure Description

Saker6_7FedCom33H_TNSWedge461_5.500in_20.00ppf_P110CY_20230208124658.pdf

Saker6_7FedCom33H_TNSWedge441_5.500in_20.00ppf_P110CY_20230208124649.pdf

Saker6_7FedCom33H_TNSWedge425_5.500in_20.00ppf_P110CY_20230208124644.pdf

Saker6_7FedCom33H_StandardSL1TiebackDetails_20230208124638.pdf

Saker6_7FedCom33H_13inADAPT_10.75in_7.625in_10x10_20230208124633.pdf

Saker6_7FedCom33H_DirectPlan_20230208124627.pdf

Saker6_7FedCom33H_DirectPlot_20230208124622.pdf

Saker6_7FedCom33H_DrillPlan_20230208124613.pdf

Saker6_7FedCom33H_C102_20230208124600.pdf

Well Name: SAKER 6-7 FEDERAL COM	**Well Location:** T24S / R35E / SEC 6 / LOT 1 /	**County or Parish/State:**
Well Number: 33H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM14164	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3002548934	**Well Status:** Approved Application for Permit to Drill	**Operator:** OXY USA INCORPORATED

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:** FEB 08, 2023 12:43 PM

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: KEITH P IMMATTY **BLM POC Title:** ENGINEER

BLM POC Phone: 5759884722 **BLM POC Email Address:** KIMMATTY@BLM.GOV

Disposition: Approved **Disposition Date:** 04/04/2023

Signature: KEITH IMMATTY

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

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-48934	2220	ANTELOPE RIDGE; WOLFCAMP

[4] Property Code	[5] Property Name	[6] Well Number
330848	SAKER 6_7 FED COM	33H

[7] OGRID No.	[8] Operator Name	[9] Elevation
16696	OXY USA INC.	3450.4' (NAVD 88)

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	24S	35E		180	NORTH	885	EAST	LEA

[11] 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	7	24S	35E		20	SOUTH	1430	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640.06			

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.

[16]

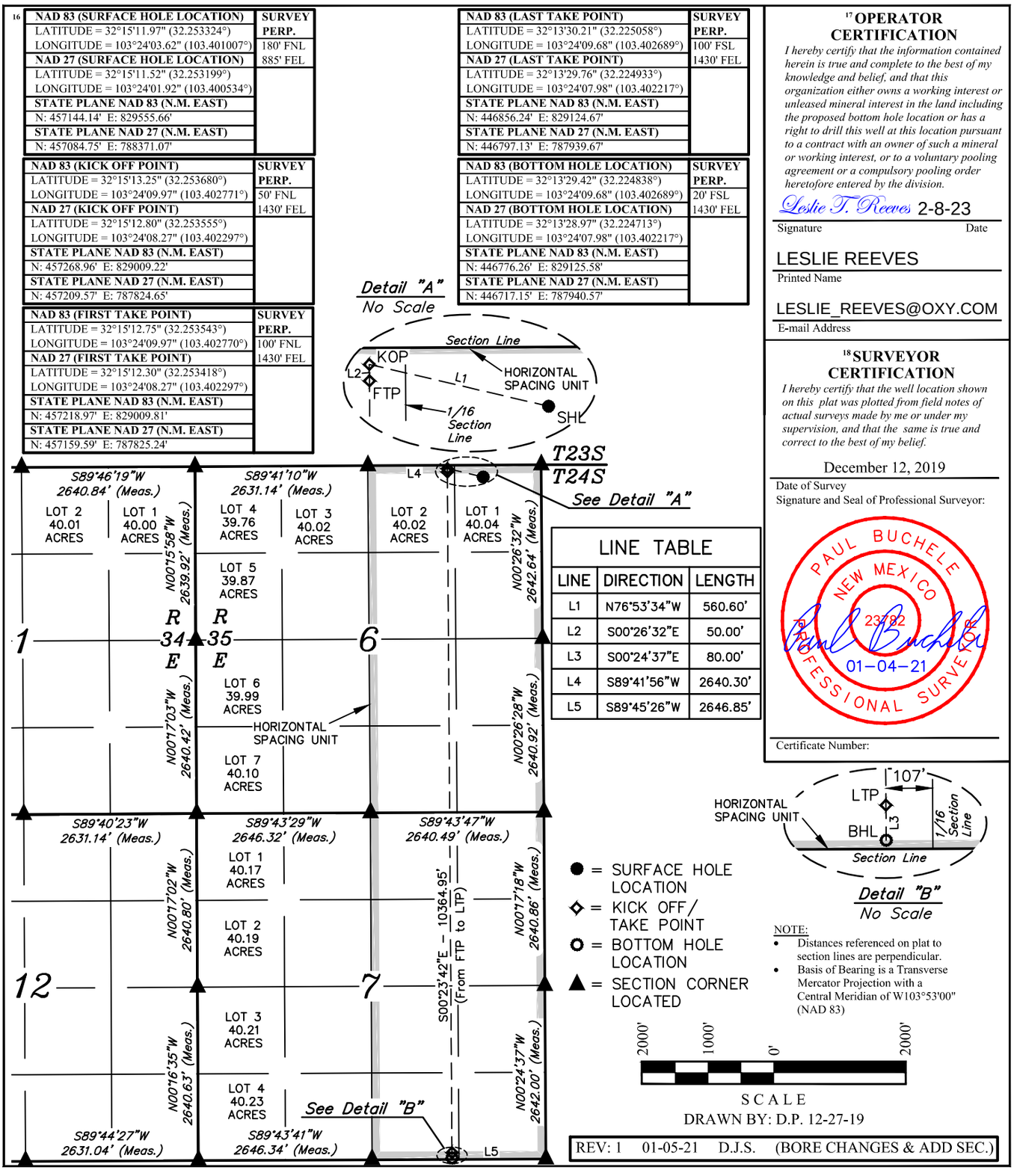
NAD 83 (SURFACE HOLE LOCATION)	SURVEY
LATITUDE = 32°15'11.97" (32.253324°)	PERP.
LONGITUDE = 103°24'03.62" (103.401007°)	180' FNL
NAD 27 (SURFACE HOLE LOCATION)	885' FEL
LATITUDE = 32°15'11.52" (32.253199°)	
LONGITUDE = 103°24'01.92" (103.400534°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 457144.14' E: 829555.66'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 457084.75' E: 788371.07'	

NAD 83 (KICK OFF POINT)	SURVEY
LATITUDE = 32°15'13.25" (32.253680°)	PERP.
LONGITUDE = 103°24'09.97" (103.402771°)	50' FNL
NAD 27 (KICK OFF POINT)	1430' FEL
LATITUDE = 32°15'12.80" (32.253555°)	
LONGITUDE = 103°24'08.27" (103.402297°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 457268.96' E: 829009.22'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 457209.57' E: 787824.65'	

NAD 83 (FIRST TAKE POINT)	SURVEY
LATITUDE = 32°15'12.75" (32.253543°)	PERP.
LONGITUDE = 103°24'09.97" (103.402770°)	100' FNL
NAD 27 (FIRST TAKE POINT)	1430' FEL
LATITUDE = 32°15'12.30" (32.253418°)	
LONGITUDE = 103°24'08.27" (103.402297°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 457218.97' E: 829009.81'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 457159.59' E: 787825.24'	

NAD 83 (LAST TAKE POINT)	SURVEY
LATITUDE = 32°13'30.21" (32.225058°)	PERP.
LONGITUDE = 103°24'09.68" (103.402689°)	100' FSL
NAD 27 (LAST TAKE POINT)	1430' FEL
LATITUDE = 32°13'29.76" (32.224933°)	
LONGITUDE = 103°24'07.98" (103.402217°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 446856.24' E: 829124.67'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 446797.13' E: 787939.67'	

NAD 83 (BOTTOM HOLE LOCATION)	SURVEY
LATITUDE = 32°13'29.42" (32.224838°)	PERP.
LONGITUDE = 103°24'09.68" (103.402689°)	20' FSL
NAD 27 (BOTTOM HOLE LOCATION)	1430' FEL
LATITUDE = 32°13'28.97" (32.224713°)	
LONGITUDE = 103°24'07.98" (103.402217°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 446776.26' E: 829125.58'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 446717.15' E: 787940.57'	



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N76°53'34"W	560.60'
L2	S00°26'32"E	50.00'
L3	S00°24'37"E	80.00'
L4	S89°41'56"W	2640.30'
L5	S89°45'26"W	2646.85'

● = SURFACE HOLE LOCATION
◇ = KICK OFF / TAKE POINT
○ = BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

Detail "B"
No Scale

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

2000' 1000' 0' 2000'
SCALE
DRAWN BY: D.P. 12-27-19

REV: 1 01-05-21 D.J.S. (BORE CHANGES & ADD SEC.)

[17] 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 2-8-23
Signature Date

LESLIE REEVES
Printed Name

LESLIE_REEVES@OXY.COM
E-mail Address

[18] 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.

December 12, 2019
Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

Oxy USA Inc. - Saker 6_7 Fed Com 33H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	12277	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22254	Deepest Expected Fresh Water (ft):	776

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	776	776	
Salado	1083	1083	Salt
Castile	3402	3402	Salt
Delaware	5273	5273	Oil/Gas/Brine
Bell Canyon	5322	5322	Oil/Gas/Brine
Cherry Canyon	6209	6209	Oil/Gas/Brine
Brushy Canyon	7579	7579	Losses
Bone Spring	8756	8755	Oil/Gas
Bone Spring 1st	9927	9911	Oil/Gas
Bone Spring 2nd	10388	10365	Oil/Gas
Bone Spring 3rd	11424	11386	Oil/Gas
Wolfcamp	11782	11717	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	836	0	836	10.75	45.5	J-55	BTC
Intermediate	9.875	0	6802	0	6764	7.625	26.4	L-80 HC	BTC
Intermediate	9.875	6802	11302	6764	11264	7.625	29.7	L-80 HC	BTC
Production	6.75	11202	22254	11164	12277	5.5	20	P-110	Wedge 461

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:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	699	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	475	1.65	13.2	5%	7,829	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1212	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	736	1.38	13.2	10%	11,202	Circulate	Class H+Ret., Disper., Salt

Cement Top and Liner Overlap

- Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 100 ft into previous casing string
  - The reason for this is so that we can come back and develop shallower benches from the same 7.625" mainbore in the future
- Cement will be brought to the top of this liner hanger

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"	5M	Annular	✓	70% of working pressure	11264
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	12277
		10M	Blind Ram	✓	250 psi / 10000 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.

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

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

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	836	0	836	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	836	11302	836	11264	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11302	22254	11264	12277	Water-Based or Oil-Based Mud	9.5 - 12.5	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	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7981 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	179°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: 1653 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
Derek Adam	Drilling Engineer Supervisor	713-366-5170	916-802-8873
Casey Martin	Drilling Superintendent	713-497-2530	337-764-4278
Kevin Threadgill	Drilling Manager	713-366-5958	361-815-0788

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Saker 6_7
Well: Saker 6_7 Fed Com 33H
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: Saker 6_7 Fed Com 33H

3450.40

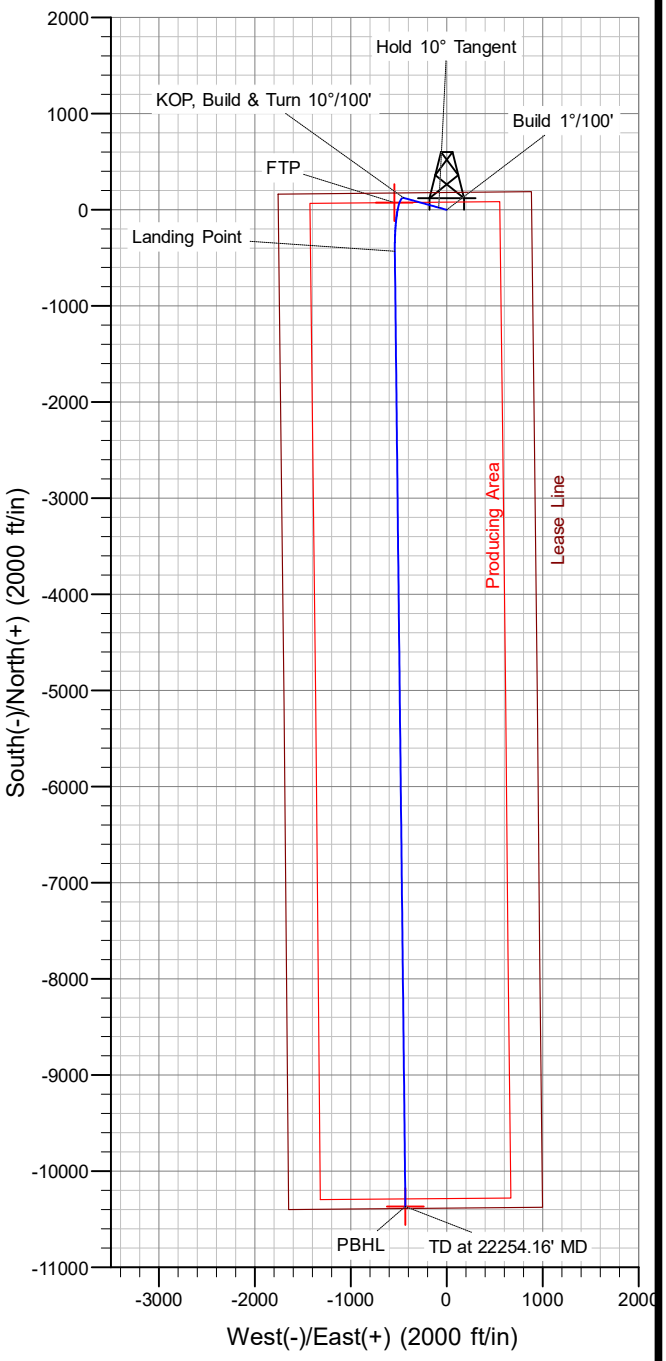
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	457144.14	829555.66	32.253324	-103.401007

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	
8219.00	0.00	0.00	8219.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
9219.15	10.00	285.48	9214.07	23.24	-83.91	1.00	285.48	-19.75	Hold 10° Tangent
11401.77	10.00	285.48	11363.53	124.44	-449.22	0.00	0.00	-105.71	KOP, Build & Turn 10°/100'
12311.16	88.15	179.36	11955.91	-430.65	-540.24	10.00	-106.20	452.67	Landing Point
22254.16	88.15	179.36	12276.90	-10367.86	-430.08	0.00	0.00	10376.77	TD at 22254.16' MD

Azimuths to Grid North
True North: -0.50°
Magnetic North: 6.10°

Magnetic Field
Strength: 47831.2nT
Dip Angle: 59.87°
Date: 12/31/2019
Model: HDGM_FILE



OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Saker 6_7
Saker 6_7 Fed Com 33H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

11 December, 2022

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Saker 6_7 Fed Com 33H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3476.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3476.90ft
Site:	Saker 6_7	**North Reference:**	Grid
Well:	Saker 6_7 Fed Com 33H	**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 Saker 6_7

Site Position:		**Northing:**	457,094.74 usft	**Latitude:**	32.253262
From:	Map	**Easting:**	826,474.44 usft	**Longitude:**	-103.410974
Position Uncertainty:	1.00 ft	**Slot Radius:**	13.200 in		

Well Saker 6_7 Fed Com 33H

Well Position	**+N/-S**	0.00 ft	**Northing:**	457,144.14 usf	**Latitude:**	32.253324
	+E/-W	0.00 ft	**Easting:**	829,555.66 usf	**Longitude:**	-103.401007
Position Uncertainty		1.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,450.40 ft
Grid Convergence:		0.50 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/31/2019	6.60	59.87	47,831.20000000

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	182.38

Plan Survey Tool Program **Date** 12/11/2022

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,254.16	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	
8,219.00	0.00	0.00	8,219.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,219.15	10.00	285.48	9,214.07	23.24	-83.91	1.00	1.00	0.00	285.48	
11,401.77	10.00	285.48	11,363.53	124.44	-449.22	0.00	0.00	0.00	0.00	
12,311.16	88.15	179.36	11,955.91	-430.65	-540.24	10.00	8.59	-11.67	-106.20	
22,254.16	88.15	179.36	12,276.90	-10,367.86	-430.08	0.00	0.00	0.00	0.00	PBHL (Saker 6_7

OXY
Planning Report

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Site:	Saker 6_7	**North Reference:**	Grid
Well:	Saker 6_7 Fed Com 33H	**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
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00

OXY
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Site:	Saker 6_7	**North Reference:**	Grid
Well:	Saker 6_7 Fed Com 33H	**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)
5,500.00	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
8,219.00	0.00	0.00	8,219.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.81	285.48	8,300.00	0.15	-0.55	-0.13	1.00	1.00	0.00
8,400.00	1.81	285.48	8,399.97	0.76	-2.75	-0.65	1.00	1.00	0.00
8,500.00	2.81	285.48	8,499.89	1.84	-6.64	-1.56	1.00	1.00	0.00
8,600.00	3.81	285.48	8,599.72	3.38	-12.20	-2.87	1.00	1.00	0.00
8,700.00	4.81	285.48	8,699.44	5.39	-19.45	-4.58	1.00	1.00	0.00
8,800.00	5.81	285.48	8,799.01	7.86	-28.36	-6.67	1.00	1.00	0.00
8,900.00	6.81	285.48	8,898.40	10.79	-38.96	-9.17	1.00	1.00	0.00
9,000.00	7.81	285.48	8,997.58	14.19	-51.22	-12.05	1.00	1.00	0.00
9,100.00	8.81	285.48	9,096.53	18.05	-65.15	-15.33	1.00	1.00	0.00
9,200.00	9.81	285.48	9,195.21	22.37	-80.74	-19.00	1.00	1.00	0.00
9,219.15	10.00	285.48	9,214.07	23.24	-83.91	-19.75	1.00	1.00	0.00
9,300.00	10.00	285.48	9,293.70	26.99	-97.44	-22.93	0.00	0.00	0.00
9,400.00	10.00	285.48	9,392.18	31.63	-114.18	-26.87	0.00	0.00	0.00
9,500.00	10.00	285.48	9,490.66	36.27	-130.92	-30.81	0.00	0.00	0.00
9,600.00	10.00	285.48	9,589.14	40.90	-147.65	-34.75	0.00	0.00	0.00
9,700.00	10.00	285.48	9,687.62	45.54	-164.39	-38.69	0.00	0.00	0.00
9,800.00	10.00	285.48	9,786.10	50.17	-181.13	-42.62	0.00	0.00	0.00
9,900.00	10.00	285.48	9,884.58	54.81	-197.87	-46.56	0.00	0.00	0.00
10,000.00	10.00	285.48	9,983.06	59.45	-214.60	-50.50	0.00	0.00	0.00
10,100.00	10.00	285.48	10,081.54	64.08	-231.34	-54.44	0.00	0.00	0.00
10,200.00	10.00	285.48	10,180.02	68.72	-248.08	-58.38	0.00	0.00	0.00
10,300.00	10.00	285.48	10,278.50	73.36	-264.81	-62.32	0.00	0.00	0.00
10,400.00	10.00	285.48	10,376.98	77.99	-281.55	-66.26	0.00	0.00	0.00
10,500.00	10.00	285.48	10,475.46	82.63	-298.29	-70.20	0.00	0.00	0.00
10,600.00	10.00	285.48	10,573.94	87.27	-315.02	-74.13	0.00	0.00	0.00
10,700.00	10.00	285.48	10,672.42	91.90	-331.76	-78.07	0.00	0.00	0.00

OXY
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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)
10,800.00	10.00	285.48	10,770.91	96.54	-348.50	-82.01	0.00	0.00	0.00
10,900.00	10.00	285.48	10,869.39	101.17	-365.24	-85.95	0.00	0.00	0.00
11,000.00	10.00	285.48	10,967.87	105.81	-381.97	-89.89	0.00	0.00	0.00
11,100.00	10.00	285.48	11,066.35	110.45	-398.71	-93.83	0.00	0.00	0.00
11,200.00	10.00	285.48	11,164.83	115.08	-415.45	-97.77	0.00	0.00	0.00
11,300.00	10.00	285.48	11,263.31	119.72	-432.18	-101.71	0.00	0.00	0.00
11,400.00	10.00	285.48	11,361.79	124.36	-448.92	-105.64	0.00	0.00	0.00
11,401.77	10.00	285.48	11,363.53	124.44	-449.22	-105.71	0.00	0.00	0.00
11,500.00	11.87	232.66	11,460.20	120.58	-465.51	-101.18	10.00	1.90	-53.77
11,600.00	19.46	207.65	11,556.52	99.54	-481.45	-79.50	10.00	7.59	-25.01
11,700.00	28.54	197.17	11,647.82	61.86	-496.28	-41.24	10.00	9.08	-10.48
11,800.00	38.06	191.53	11,731.32	8.70	-509.52	12.43	10.00	9.52	-5.64
11,900.00	47.75	187.89	11,804.50	-58.33	-520.79	79.87	10.00	9.69	-3.64
12,000.00	57.53	185.23	11,865.11	-137.20	-529.74	159.04	10.00	9.78	-2.66
12,100.00	67.35	183.10	11,911.33	-225.51	-536.10	247.53	10.00	9.82	-2.13
12,200.00	77.19	181.26	11,941.75	-320.57	-539.67	342.66	10.00	9.85	-1.84
12,300.00	87.05	179.55	11,955.44	-419.50	-540.35	441.53	10.00	9.86	-1.70
12,311.16	88.15	179.36	11,955.91	-430.65	-540.24	452.67	10.00	9.86	-1.67
12,400.00	88.15	179.36	11,958.78	-519.44	-539.26	541.34	0.00	0.00	0.00
12,500.00	88.15	179.36	11,962.01	-619.38	-538.15	641.15	0.00	0.00	0.00
12,600.00	88.15	179.36	11,965.24	-719.32	-537.04	740.96	0.00	0.00	0.00
12,700.00	88.15	179.36	11,968.46	-819.26	-535.94	840.77	0.00	0.00	0.00
12,800.00	88.15	179.36	11,971.69	-919.20	-534.83	940.58	0.00	0.00	0.00
12,900.00	88.15	179.36	11,974.92	-1,019.14	-533.72	1,040.39	0.00	0.00	0.00
13,000.00	88.15	179.36	11,978.15	-1,119.09	-532.61	1,140.20	0.00	0.00	0.00
13,100.00	88.15	179.36	11,981.38	-1,219.03	-531.50	1,240.01	0.00	0.00	0.00
13,200.00	88.15	179.36	11,984.60	-1,318.97	-530.40	1,339.82	0.00	0.00	0.00
13,300.00	88.15	179.36	11,987.83	-1,418.91	-529.29	1,439.63	0.00	0.00	0.00
13,400.00	88.15	179.36	11,991.06	-1,518.85	-528.18	1,539.44	0.00	0.00	0.00
13,500.00	88.15	179.36	11,994.29	-1,618.79	-527.07	1,639.25	0.00	0.00	0.00
13,600.00	88.15	179.36	11,997.52	-1,718.74	-525.96	1,739.06	0.00	0.00	0.00
13,700.00	88.15	179.36	12,000.75	-1,818.68	-524.86	1,838.87	0.00	0.00	0.00
13,800.00	88.15	179.36	12,003.97	-1,918.62	-523.75	1,938.68	0.00	0.00	0.00
13,900.00	88.15	179.36	12,007.20	-2,018.56	-522.64	2,038.49	0.00	0.00	0.00
14,000.00	88.15	179.36	12,010.43	-2,118.50	-521.53	2,138.30	0.00	0.00	0.00
14,100.00	88.15	179.36	12,013.66	-2,218.44	-520.43	2,238.11	0.00	0.00	0.00
14,200.00	88.15	179.36	12,016.89	-2,318.39	-519.32	2,337.92	0.00	0.00	0.00
14,300.00	88.15	179.36	12,020.12	-2,418.33	-518.21	2,437.73	0.00	0.00	0.00
14,400.00	88.15	179.36	12,023.34	-2,518.27	-517.10	2,537.54	0.00	0.00	0.00
14,500.00	88.15	179.36	12,026.57	-2,618.21	-515.99	2,637.35	0.00	0.00	0.00
14,600.00	88.15	179.36	12,029.80	-2,718.15	-514.89	2,737.16	0.00	0.00	0.00
14,700.00	88.15	179.36	12,033.03	-2,818.10	-513.78	2,836.97	0.00	0.00	0.00
14,800.00	88.15	179.36	12,036.26	-2,918.04	-512.67	2,936.78	0.00	0.00	0.00
14,900.00	88.15	179.36	12,039.49	-3,017.98	-511.56	3,036.59	0.00	0.00	0.00
15,000.00	88.15	179.36	12,042.71	-3,117.92	-510.45	3,136.40	0.00	0.00	0.00
15,100.00	88.15	179.36	12,045.94	-3,217.86	-509.35	3,236.21	0.00	0.00	0.00
15,200.00	88.15	179.36	12,049.17	-3,317.80	-508.24	3,336.02	0.00	0.00	0.00
15,300.00	88.15	179.36	12,052.40	-3,417.75	-507.13	3,435.83	0.00	0.00	0.00
15,400.00	88.15	179.36	12,055.63	-3,517.69	-506.02	3,535.64	0.00	0.00	0.00
15,500.00	88.15	179.36	12,058.86	-3,617.63	-504.91	3,635.45	0.00	0.00	0.00
15,600.00	88.15	179.36	12,062.08	-3,717.57	-503.81	3,735.26	0.00	0.00	0.00
15,700.00	88.15	179.36	12,065.31	-3,817.51	-502.70	3,835.07	0.00	0.00	0.00
15,800.00	88.15	179.36	12,068.54	-3,917.45	-501.59	3,934.88	0.00	0.00	0.00
15,900.00	88.15	179.36	12,071.77	-4,017.40	-500.48	4,034.69	0.00	0.00	0.00
16,000.00	88.15	179.36	12,075.00	-4,117.34	-499.37	4,134.50	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Saker 6_7 Fed Com 33H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3476.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3476.90ft
Site:	Saker 6_7	**North Reference:**	Grid
Well:	Saker 6_7 Fed Com 33H	**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)
16,100.00	88.15	179.36	12,078.23	-4,217.28	-498.27	4,234.31	0.00	0.00	0.00
16,200.00	88.15	179.36	12,081.45	-4,317.22	-497.16	4,334.12	0.00	0.00	0.00
16,300.00	88.15	179.36	12,084.68	-4,417.16	-496.05	4,433.93	0.00	0.00	0.00
16,400.00	88.15	179.36	12,087.91	-4,517.10	-494.94	4,533.74	0.00	0.00	0.00
16,500.00	88.15	179.36	12,091.14	-4,617.05	-493.83	4,633.55	0.00	0.00	0.00
16,600.00	88.15	179.36	12,094.37	-4,716.99	-492.73	4,733.36	0.00	0.00	0.00
16,700.00	88.15	179.36	12,097.60	-4,816.93	-491.62	4,833.17	0.00	0.00	0.00
16,800.00	88.15	179.36	12,100.82	-4,916.87	-490.51	4,932.98	0.00	0.00	0.00
16,900.00	88.15	179.36	12,104.05	-5,016.81	-489.40	5,032.79	0.00	0.00	0.00
17,000.00	88.15	179.36	12,107.28	-5,116.76	-488.29	5,132.60	0.00	0.00	0.00
17,100.00	88.15	179.36	12,110.51	-5,216.70	-487.19	5,232.41	0.00	0.00	0.00
17,200.00	88.15	179.36	12,113.74	-5,316.64	-486.08	5,332.22	0.00	0.00	0.00
17,300.00	88.15	179.36	12,116.97	-5,416.58	-484.97	5,432.03	0.00	0.00	0.00
17,400.00	88.15	179.36	12,120.19	-5,516.52	-483.86	5,531.84	0.00	0.00	0.00
17,500.00	88.15	179.36	12,123.42	-5,616.46	-482.75	5,631.65	0.00	0.00	0.00
17,600.00	88.15	179.36	12,126.65	-5,716.41	-481.65	5,731.46	0.00	0.00	0.00
17,700.00	88.15	179.36	12,129.88	-5,816.35	-480.54	5,831.27	0.00	0.00	0.00
17,800.00	88.15	179.36	12,133.11	-5,916.29	-479.43	5,931.08	0.00	0.00	0.00
17,900.00	88.15	179.36	12,136.33	-6,016.23	-478.32	6,030.89	0.00	0.00	0.00
18,000.00	88.15	179.36	12,139.56	-6,116.17	-477.21	6,130.70	0.00	0.00	0.00
18,100.00	88.15	179.36	12,142.79	-6,216.11	-476.11	6,230.51	0.00	0.00	0.00
18,200.00	88.15	179.36	12,146.02	-6,316.06	-475.00	6,330.32	0.00	0.00	0.00
18,300.00	88.15	179.36	12,149.25	-6,416.00	-473.89	6,430.13	0.00	0.00	0.00
18,400.00	88.15	179.36	12,152.48	-6,515.94	-472.78	6,529.94	0.00	0.00	0.00
18,500.00	88.15	179.36	12,155.70	-6,615.88	-471.67	6,629.75	0.00	0.00	0.00
18,600.00	88.15	179.36	12,158.93	-6,715.82	-470.57	6,729.56	0.00	0.00	0.00
18,700.00	88.15	179.36	12,162.16	-6,815.76	-469.46	6,829.37	0.00	0.00	0.00
18,800.00	88.15	179.36	12,165.39	-6,915.71	-468.35	6,929.18	0.00	0.00	0.00
18,900.00	88.15	179.36	12,168.62	-7,015.65	-467.24	7,028.99	0.00	0.00	0.00
19,000.00	88.15	179.36	12,171.85	-7,115.59	-466.13	7,128.80	0.00	0.00	0.00
19,100.00	88.15	179.36	12,175.07	-7,215.53	-465.03	7,228.61	0.00	0.00	0.00
19,200.00	88.15	179.36	12,178.30	-7,315.47	-463.92	7,328.42	0.00	0.00	0.00
19,300.00	88.15	179.36	12,181.53	-7,415.42	-462.81	7,428.23	0.00	0.00	0.00
19,400.00	88.15	179.36	12,184.76	-7,515.36	-461.70	7,528.04	0.00	0.00	0.00
19,500.00	88.15	179.36	12,187.99	-7,615.30	-460.59	7,627.85	0.00	0.00	0.00
19,600.00	88.15	179.36	12,191.22	-7,715.24	-459.49	7,727.65	0.00	0.00	0.00
19,700.00	88.15	179.36	12,194.44	-7,815.18	-458.38	7,827.46	0.00	0.00	0.00
19,800.00	88.15	179.36	12,197.67	-7,915.12	-457.27	7,927.27	0.00	0.00	0.00
19,900.00	88.15	179.36	12,200.90	-8,015.07	-456.16	8,027.08	0.00	0.00	0.00
20,000.00	88.15	179.36	12,204.13	-8,115.01	-455.05	8,126.89	0.00	0.00	0.00
20,100.00	88.15	179.36	12,207.36	-8,214.95	-453.95	8,226.70	0.00	0.00	0.00
20,200.00	88.15	179.36	12,210.59	-8,314.89	-452.84	8,326.51	0.00	0.00	0.00
20,300.00	88.15	179.36	12,213.81	-8,414.83	-451.73	8,426.32	0.00	0.00	0.00
20,400.00	88.15	179.36	12,217.04	-8,514.77	-450.62	8,526.13	0.00	0.00	0.00
20,500.00	88.15	179.36	12,220.27	-8,614.72	-449.51	8,625.94	0.00	0.00	0.00
20,600.00	88.15	179.36	12,223.50	-8,714.66	-448.41	8,725.75	0.00	0.00	0.00
20,700.00	88.15	179.36	12,226.73	-8,814.60	-447.30	8,825.56	0.00	0.00	0.00
20,800.00	88.15	179.36	12,229.96	-8,914.54	-446.19	8,925.37	0.00	0.00	0.00
20,900.00	88.15	179.36	12,233.18	-9,014.48	-445.08	9,025.18	0.00	0.00	0.00
21,000.00	88.15	179.36	12,236.41	-9,114.42	-443.97	9,124.99	0.00	0.00	0.00
21,100.00	88.15	179.36	12,239.64	-9,214.37	-442.87	9,224.80	0.00	0.00	0.00
21,200.00	88.15	179.36	12,242.87	-9,314.31	-441.76	9,324.61	0.00	0.00	0.00
21,300.00	88.15	179.36	12,246.10	-9,414.25	-440.65	9,424.42	0.00	0.00	0.00
21,400.00	88.15	179.36	12,249.33	-9,514.19	-439.54	9,524.23	0.00	0.00	0.00
21,500.00	88.15	179.36	12,252.55	-9,614.13	-438.43	9,624.04	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Saker 6_7 Fed Com 33H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=26.5' @ 3476.90ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=26.5' @ 3476.90ft
Site:	Saker 6_7	**North Reference:**	Grid
Well:	Saker 6_7 Fed Com 33H	**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)
21,600.00	88.15	179.36	12,255.78	-9,714.08	-437.33	9,723.85	0.00	0.00	0.00
21,700.00	88.15	179.36	12,259.01	-9,814.02	-436.22	9,823.66	0.00	0.00	0.00
21,800.00	88.15	179.36	12,262.24	-9,913.96	-435.11	9,923.47	0.00	0.00	0.00
21,900.00	88.15	179.36	12,265.47	-10,013.90	-434.00	10,023.28	0.00	0.00	0.00
22,000.00	88.15	179.36	12,268.70	-10,113.84	-432.90	10,123.09	0.00	0.00	0.00
22,100.00	88.15	179.36	12,271.92	-10,213.78	-431.79	10,222.90	0.00	0.00	0.00
22,200.00	88.15	179.36	12,275.15	-10,313.73	-430.68	10,322.71	0.00	0.00	0.00
22,254.16	88.15	179.36	12,276.90	-10,367.86	-430.08	10,376.77	0.00	0.00	0.00

Design Targets

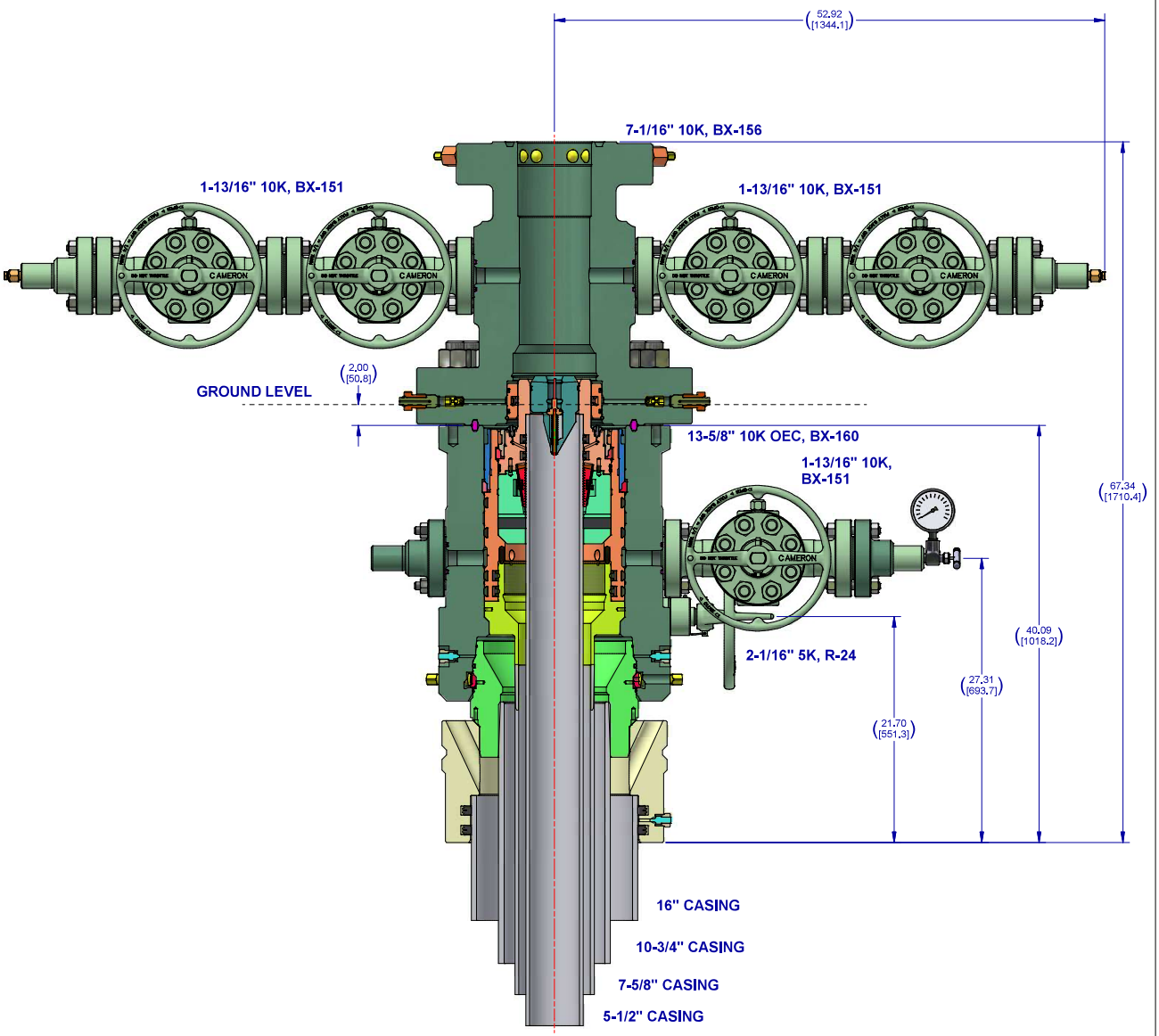
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Saker 6_7 Fed - plan misses target center by 203.93ft at 11900.00ft MD (11804.50 TVD, -58.33 N, -520.79 E) - Point	0.00	0.00	11,956.90	74.83	-545.85	457,218.97	829,009.81	32.253543	-103.402771
PBHL (Saker 6_7 Fed - plan hits target center - Point	0.00	0.00	12,276.90	-10,367.86	-430.08	446,776.26	829,125.58	32.224838	-103.402689

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
775.90	775.90	RUSTLER			
1,082.90	1,082.90	SALADO			
3,401.90	3,401.90	CASTILE			
5,272.90	5,272.90	DELAWARE			
5,321.90	5,321.90	BELL CANYON			
6,208.90	6,208.90	CHERRY CANYON			
7,578.90	7,578.90	BRUSHY CANYON			
8,755.68	8,754.90	BONE SPRING			
9,926.72	9,910.90	BONE SPRING 1ST			
10,387.73	10,364.90	BONE SPRING 2ND			
11,424.47	11,385.90	BONE SPRING 3RD			
11,781.89	11,716.90	WOLFCAMP			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
8,219.00	8,219.00	0.00	0.00	Build 1°/100'
9,219.15	9,214.08	23.24	-83.91	Hold 10° Tangent
11,401.77	11,363.53	124.44	-449.22	KOP, Build & Turn 10°/100'
12,311.16	11,955.91	-430.65	-540.24	Landing Point
22,254.16	12,276.90	-10,367.85	-430.08	TD at 22254.16' MD



Notes:

1. THIS IS A PROPOSAL DRAWING AND DIMENSIONS SHOWN ARE SUBJECT TO CHANGE DURING THE FINAL DESIGN PROCESS.

2. DIGITALLY ENABLED SOLUTIONS, CHOKES AND ESD'S AVAILABLE ON REQUEST

CONFIDENTIAL

SURFACE TREATMENT	DO NOT SCALE		CAMERON A Schlumberger Company	SURFACE SYSTEMS
	DRAWN BY: D. GOTTUNG	DATE 2 Dec 21		
MATERIAL & HEAT TREAT	CHECKED BY: D. GOTTUNG	DATE 2 Dec 21	OXY 13-5/8" 10K ADAPT 16" X 10-3/4" X 7-5/8" X 5-1/2"	
	APPROVED BY: D. GOTTUNG	DATE 2 Dec 21		
ESTIMATED WEIGHT:	6515,617 LBS [2955,434 KG]	INITIAL USE B/M:	SHEET 4 OF 4	SD-053434-94-05 REV: 01

INVENTOR - D

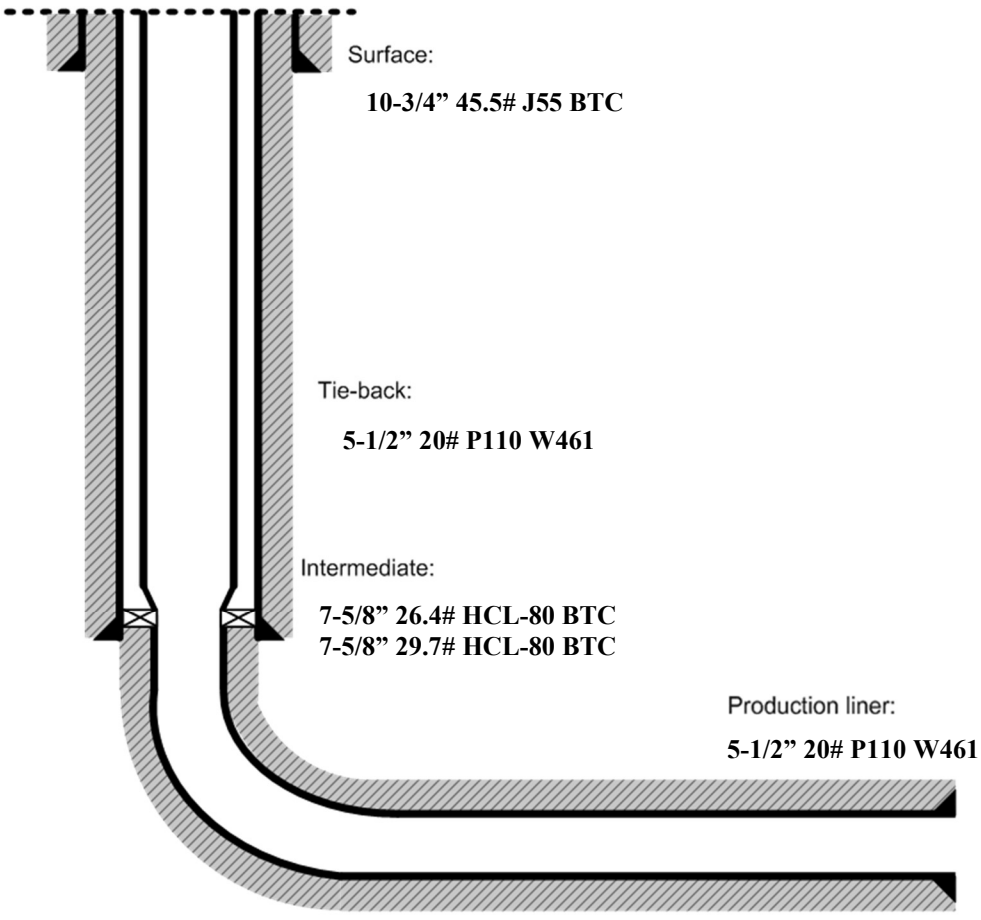
OXY USA WTP LP

Standard SL1 Tieback Details

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

- Drill 14-3/4” hole x 10-3/4” casing for surface section. Cement to surface.
- Drill 9-7/8” hole x 7-5/8” casing for intermediate section. Cement to surface.
- Drill 6-3/4” hole x 5-1/2” liner for production section. Cement to top of liner, 100’ inside 7-5/8” shoe.
- Release drilling rig from location.
- Move in workover rig and run a 5-1/2” 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
- Pump hydraulic fracture job.
- Flowback and produce well.

General well schematic:



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 204878

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 204878
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/4/2023