

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

Sundry Print Reports
10/12/2021

Well Name: TACO CAT 27-34

FEDERAL COM

Well Location: T22S / R32E / SEC 27 /

NENE / 32.3690709 / -103.6582588

County or Parish/State: LEA /

NM

Well Number: 34H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM081272,

NMNM81272

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002546936

Well Status: Drilling Well

Operator: OXY USA INCORPORATED

Notice of Intent

Sundry ID: 2503271

Type of Submission: Notice of Intent

Date Sundry Submitted: 08/02/2021

Type of Action: Other

Time Sundry Submitted: 01:26

Date proposed operation will begin: 09/15/2021

Procedure Description: OXY USA Inc. respectfully requests approval to amend the casing, cement, BOP and mud programs in the APD for the subject well. Also note the downhole wellbore points have moved, but the surface hole remains the same. Attached is the updated drill plan, well control plan, directional plan/plot, special casing attachments, and drill path. In addition, OXY USA Inc. is sending notice of an update to the horizontal spacing unit (HSU) and dedicated acreage. The well recently received approval from the NMOCD for a non-standard horizontal spacing unit in the Taco Cat development area. This sundry is being filed to provide updates to the approved APD. Attached is the updated C-102 Plat.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

TacoCat27_34FederalCom34H_DrillPlan082321_20210824155833.pdf

 $Taco Cat 27_34 Federal Com 34 H_TNS Wedge 461_5.500 in _20_20210824155831.00$

TacoCat27_34FederalCom34H_TNSWedge441_5.500in_20_20210824155831.00

 $Taco Cat 27_34 Fd Com 34 H_C 102_N SH SU_7.27.21_20210802132452.pdf$

TacoCat27_34FdCom34H_Loc_20210614125649.pdf

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Well Location: T22S / R32E / SEC 27 /

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Allottee or Tribe Name:

Type of Well: OIL WELL

Lease Number: NMNM081272,

NMNM81272

Well Number: 34H

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002546936

Well Status: Drilling Well

Operator: OXY USA **INCORPORATED**

TacoCat27_34FdCom34H_OxyWellControlPlan_20210614125648.pdf

TacoCat27_34FdCom34H_DirectPlot_20210614125648.pdf

TacoCat27_34FdCom34H_DirectPlan_20210614125647.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: RONI MATHEW Signed on: AUG 24, 2021 03:58 PM

Name: OXY USA INCORPORATED **Title: REGULATORY SPECIALIST**

Street Address: 5 Greenway Plaza, Suite 110

City: Houston State: TX

Phone: (713) 215-7827

Email address: RONI_MATHEW@OXY.COM

Field Representative

Representative Name: JIM WILSON

Street Address: 6001 DEAUVILLE BLVD.

City: MIDLAND State: TX **Zip:** 79710

Phone: (575)631-2442

Email address: JIM_WILSON@OXY.COM

BLM Point of Contact

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

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

Disposition: Approved Disposition Date: 10/12/2021

Signature: Chris Walls

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

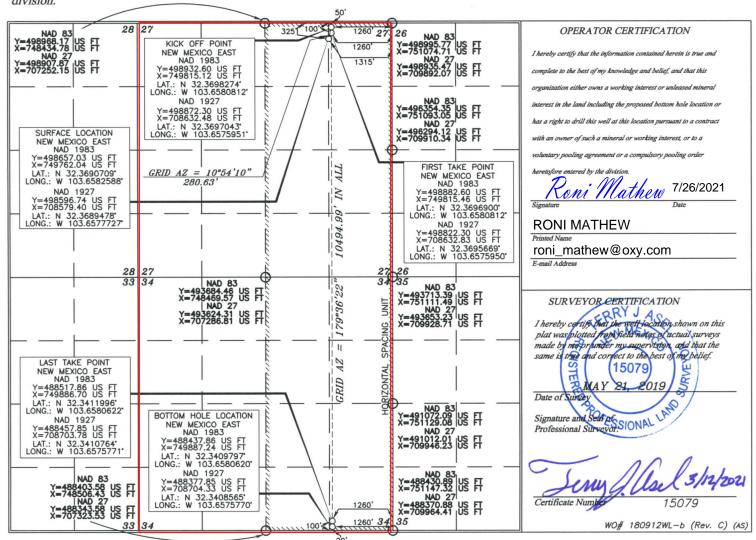
API Numbe	r	Pool Code	Pool Name					
30-025-46936	5168	3	RED TANK, BONE SPRING					
Property Code	•	Prop	perty Name	Well Number				
321612	TAC	O CAT "27_3	4" FEDERAL COM	34H				
OGRID No.		Open	rator Name	Elevation				
16696		OXY U	ISA INC.	3657.3'				

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	ı
A	27	22 SOUTH	32 EAST, N.M.P.M.		325'	NORTH	1315'	EAST	LEA	l
			Rottom Hole Location	on If I	Different l	From Surfac	e			1

	DOWN 11010 DOWN 11 DITTO 11011 DITTO											
UL or lot no.	Section	Township	Range 1		Lot Idn	Feet from the	North/South line	Feet from the	East/West line		County	
P	34	22 SOUTH	32 EAST, N.	М. Р. М.		20'	SOUTH	1260'	EAST		LEA	
Dedicated	Acres	Joint or Infill	Consolidation Code	Order No.								
1280					R-	-21777						

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.



Oxy USA Inc. - Taco Cat 27_34 Federal Com 34H Drill Plan

1. Geologic Formations

TVD of Target (ft):	11854	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22316	Deepest Expected Fresh Water (ft):	863

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	863	863	
Salado	1396	1396	Salt
Castile	3391	3391	Salt
Delaware	4727	4727	Oil/Gas/Brine
Bell Canyon	4782	4782	Oil/Gas/Brine
Cherry Canyon	5644	5644	Oil/Gas/Brine
Brushy Canyon	6884	6884	Losses
Bone Spring	8562	8553	Oil/Gas
Bone Spring 1st	9705	9679	Oil/Gas
Bone Spring 2nd	10401	10365	Oil/Gas
Bone Spring 3rd	11506	11451	Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		MD		TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	923	0	923	13.375	54.5	J-55	ВТС
Intermediate	9.875	0	11070	0	11022	7.625	26.4	L-80 HC	ВТС
Production	6.75	0	22316	0	11854	5.5	20	P-110	DQX

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

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

^{*}Oxy requests the option to run the 9.625" Intermediate I as a contingency string to be run only if severe hole conditions dictate an additional casing string necessary. This would make the planned 7.625" Casing the Intermediate II.

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All Casing SF Values will meet or										
exceed those below										
SF SF Body SF Joint SF										
Collapse	Burst	Tension	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?	Y
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	Y
the collapse pressure rating of the casing?	1
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 3 rd string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there strings cemented to surface?	

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3. Cementing Program

Section	Stage	Slurry:	Capacities	ft^3/ft	Excess:	From	То	Sacks	Volume (ft^3)	Placement
Surface	1	Surface - Tail	OH x Csg	0.6946	100%	923	-	964	1282	Circulate
Int.	1	Intermediate 1S - Tail	OH x Csg	0.2148	5%	11,070	7,134	538	888	Circulate
Int.	2	Intermediate 2S - Tail BH	OH x Csg	0.2148	25%	7,134	923	868	1667	Bradenhead
Int.	2	Intermediate 2S - Tail BH	Csg x Csg	0.5509	0%	923	-	265	508	Bradenhead
Prod.	1	Production - Tail	OH x Csg	0.2526	20%	22,316	11,070	2470	3409	Circulate
Prod.	1	Production - Tail	Csg x Csg	0.0999	0%	11,070	10,570	36	50	Circulate

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

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

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4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	~	Tested to:	Deepest TVD Depth (ft) per Section:	
		5M		Annular	>	70% of working pressure		
				Blind Ram	✓			
9.875" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	11022	
		SIVI	Double Ram		\	250 psi / 5000 psi		
			Other*					
		5M	Annular		~	100% of working pressure		
				Blind Ram				
6.75" Hole	13-5/8"	1014		Pipe Ram		250 poi / 10000 poi	11854	
1		10M		Double Ram		250 psi / 10000 psi		
			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. 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

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5. Mud Program

Saatian	Depth - MD		Depth -	TVD	Tyma	Weight	Viceosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	923	0	923	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	923	11070	923	11022	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11070	22316	11022	11854	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	DVT/MD Total Missel Manitoring
loss or gain of fluid?	PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

Logg	Logging, Coring and Testing.		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).		
res	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	To Drill stem test? If yes, explain		
No	Coring? If yes, explain		

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7706 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	175°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.

DLIVI.	
N	H2S is present
Υ	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	
We plan to drill the 2 well pad in batch by section: all surface sections, intermediate	Yes
sections and production sections. The wellhead will be secured with a night cap whenever	res
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	

Total Estimated Cuttings Volume: 1734 bbls

Attachments

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

9. Company Personnel

Nama	T:4la	Office Dhone	Mobile Dhone
<u>Name</u>	<u>Title</u>	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
William Turner	Drilling Engineer Supervisor	713-350-4951	661-817-4586
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932



TenarisHydril Wedge 461®



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	641 x1000 lb
Min. Internal Yield Pressure	12,640 psi
SMYS	110,000 psi
Collapse Pressure	11,100 psi

Connection Data

Geometry	
Connection OD	6.300 in.
Coupling Length	7.714 in.
Connection ID	4.778 in.
Make-up Loss	3.775 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	641 x1000 lb
Internal Pressure Capacity	12,640 psi
Compression Efficiency	100 %
Compression Strength	641 x1000 lb
Max. Allowable Bending	92 °/100 ft
External Pressure Capacity	11,100 psi
Coupling Face Load	290,000 lb

Make-Up Torques	
Minimum	17,000 ft-lb
Optimum	18,000 ft-lb
Maximum	21,600 ft-lb
Operation Limit Torques	
Operating Torque	39,000 ft-lb
Yield Torque	46,000 ft-lb
Buck-On	
Minimum	21,600 ft-lb
Maximum	23,100 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 461® - 5.5 in. - 0.304 / 0.415 / 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

For the lastest performance data, always visit our website: www.tenaris.com

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TenarisHydril Wedge 441®



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	641 x1000 lb
Min. Internal Yield Pressure	12,640 psi
SMYS	110,000 psi
Collapse Pressure	11,100 psi

Connection Data

Geometry	
Connection OD	5.852 in.
Coupling Length	8.714 in.
Connection ID	4.778 in.
Make-up Loss	3.780 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	81.50 %
Joint Yield Strength	522 x1000 lb
Internal Pressure Capacity	12,640 psi
Compression Efficiency	81.50 %
Compression Strength	522 x1000 lb
Max. Allowable Bending	71 °/100 ft
External Pressure Capacity	11,100 psi

Make-Up Torques	
Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb
Operation Limit Torques	
Operating Torque	32,000 ft-lb
Yield Torque	38,000 ft-lb
Buck-On	
Minimum	19,200 ft-lb

Notes

This connection is fully interchangeable with: Wedge 441% - 5.5 in. - 0.304 in. Connections with Dopeless% Technology are fully compatible with the same connection in its Standard version

For the lastest performance data, always visit our website: www.tenaris.com

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Measurements Datum of 1983

Geodetic American

- GPS North

Basis of Bearings NM East Zone (83)

SECTIONS 27 & 34, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY NEW MEXICO

N89°24'04"E GLO B.C. GLO 1/4 ¹ 3.C. "1916" 2640.1 1916 22 23 100' 0 50' 325' 1260'27 1260 KICK OFF POINT GRID AZ. = $10^{\circ}54'10''$ S00°23' 2641. 280.63 SURFACE LOCATION TACO CAT "27_34" FEDERAL COM #34H GLO 1/4 B.C. "1916' A H FIRST TAKE B.C. POINT \mathbb{Z} 99, S00'24'00" 2641.0' 10494.9 S89°22'21"W 26 GLO B.C. 27 2642.1 "1916 35 34 22" 36 II AZ. GLO 1/4 3.C. "1916" B.C. LAST TAKE POINT S00*23'45"[2641.3' BOTTOM HOLE LOCATION 1260 1260'34 35 T - 22 - SGLO 1/4 3.C. "1916" S89'24'27"W T - 23 - SB.C. GLO B.C. 2641.0

DRIVING DIRECTIONS:
BEGINNING AT THE INTERSECTION OF HWY.
#128 AND COUNTY ROAD #798 (RED ROAD),
GO NORTH ON COUNTY ROAD #798 FOR 7.3
MILES, TURN RIGHT AND GO NORTHEAST ON
CALICHE ROAD FOR 2.7 MILES, CONTINUE
EAST/SOUTHEAST FOR 2.5 MILES, TURN RIGHT
AND GO SOUTHEAST FOR 1.5 MILES, TURN
LEFT AND GO EAST FOR 0.3 MILES, TURN
LEFT AND GO NORTH FOR 0.2 MILES, TURN
LEFT AND GO NORTHWEST FOR 0.1 MILES,
TURN RIGHT AND GO NORTH FOR 0.6 MILES,
TURN LEFT ON PROPOSED ROAD AND GO
WEST FOR 265.7 FEET TO LOCATION.



SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMIUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Aser N.M. R.P.L.S. No. 15079

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146
Released to Imaging: 10/13/2021 8:28:00 AM



● DENOTES FOUND MONUMENT AS NOTED
 ⊗ DENOTES CALCULATED CORNER

⊗ - DENUTES CALCULATED CORNER

2000' 0 2000' 4000' FEET

SCALE: 1"=2000'

UXI

OXY USA INC.

TACO CAT "27_34" FEDERAL COM #34H LOCATED AT 325' FNL & 1315' FEL IN SECTION 27, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 05/21/19	Sheet	1	01	f 1	Sheets
W.O. Number: 180912WL-b (Rev. C)	Drawn	Ву:	AS	Rev: C	
Date: 03/10/21	1809	12WL	-b	Scale:1	"=2000"

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the >5M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Pilot hole and Lateral sections, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
HWDP	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Drill collars and MWD tools	4-3/4" – 5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Mud Motor	4-3/4"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Production casing	5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
ALL	0" - 13-5/8"	Annular	5M
Open-hole	6-3/4"	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative

- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position)
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram

General Procedure While Running Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan.
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams or BSR. (The HCR and choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify tool pusher/company representative

- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drill pipe thru the stack.
 - a. Perform flow check, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram
 - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify tool pusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram
 - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify tool pusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario
 - c. If impossible to pick up high enough to pull the string clear of the stack
 - d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
 - e. Space out drill string with tool joint just beneath the upper pipe ram

- f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
- g. Confirm shut-in
- h. Notify tool pusher/company representative
- i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- j. Regroup and identify forward plan

Released to Imaging: 10/15/2021 8:28:00 AM

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

OXY

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Taco Cat 27-34 Federal Com Well: Taco Cat 27_34 Federal Com 34H

Wellbore: Wellbore #1
Design: Permitting Plan

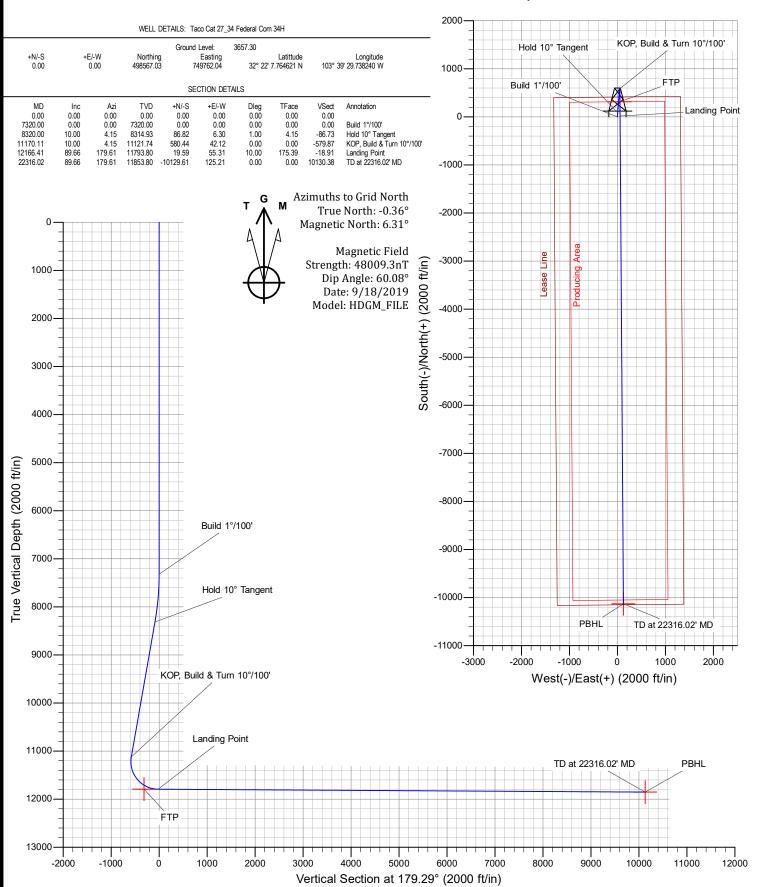
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Taco Cat 27-34 Federal Com Taco Cat 27_34 Federal Com 34H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

20 April, 2021

Oxy Inc.

Planning Report

Database: HOPSPP

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Taco Cat 27-34 Federal Com Well: Taco Cat 27 34 Federal Com 34H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Taco Cat 27_34 Federal Com 34H

RKB=26.5' @ 3683.80ft RKB=26.5' @ 3683.80ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983 North American Datum 1983

Geo Datum: Map Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

Using geodetic scale factor

Site Taco Cat 27-34 Federal Com

Site Position: Northing: 498,686.80 usft Latitude: 32° 22' 9.142705 N From: Мар Easting: 746,647.78 usft Longitude: 103° 40' 6.040188 W **Position Uncertainty:** 50.00 ft Slot Radius: **Grid Convergence:** 0.36° 13.200 in

Well Taco Cat 27_34 Federal Com 34H

Well Position +N/-S -119.78 ft Northing: 498,567.03 usft Latitude: 32° 22' 7.764621 N +F/-W Longitude: 103° 39' 29.738240 W 3,114.40 ft Easting: 749,762.04 usft

Position Uncertainty 1.00 ft Wellhead Elevation: 0.00 ft **Ground Level:** 3,657.30 ft

Wellbore Wellbore #1 **Magnetics** Model Name Sample Date Declination **Dip Angle** Field Strength (nT) 9/18/2019 HDGM FILE 6.67 60.08 48.009.30000000

Permitting Plan Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 179.29

Plan Survey Tool Program Date 4/20/2021 **Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 22,316.02 Permitting Plan (Wellbore #1) B001Mb MWD+HRGM OWSG MWD + HRGM

Plan Sections Measured Vertical Build **Dogleg** Turn Depth Depth Rate Rate Inclination **Azimuth** +N/-S +E/-W Rate **TFO** (ft) (ft) (°/100ft) (°/100ft) (°/100ft) (°) (°) (ft) (ft) (°) Target 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 7,320.00 0.00 0.00 7,320.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 8,320.00 10.00 4.15 8,314.93 86.82 6.30 1.00 1.00 4.15 11.170.11 10.00 4.15 11.121.74 580.44 42.12 0.00 0.00 0.00 0.00 19.59 55 31 10.00 8.00 17.61 12,166.41 89 66 179 61 11,793.80 175 39 22,316.02 89.66 179.61 11,853.80 -10,129.61 125.21 0.00 0.00 0.00 0.00 PBHL (Taco Cat

Oxy Inc. Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Taco Cat 27-34 Federal Com
Well: Taco Cat 27_34 Federal Com 34H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Taco Cat 27_34 Federal Com 34H

RKB=26.5' @ 3683.80ft RKB=26.5' @ 3683.80ft

Grid

sigii.	remining rid								
anned 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	
2,700.00	0.00	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
4,100.00	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

Oxy Inc.

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Taco Cat 27-34 Federal Com

Well: Taco Cat 27_34 Federal Com 34H
Wellbore: Wellbore #1
Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Taco Cat 27_34 Federal Com 34H

RKB=26.5' @ 3683.80ft RKB=26.5' @ 3683.80ft

Grid

Design:	Permitting Pla	all							
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
7,320.00	0.00	0.00	7,320.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.80	4.15	7,400.00	0.56	0.04	-0.56	1.00	1.00	0.00
7,500.00	1.80	4.15	7,499.97	2.82	0.20	-2.82	1.00	1.00	0.00
7,600.00	2.80	4.15	7,599.89	6.82	0.50	-6.82	1.00	1.00	0.00
7,700.00	3.80	4.15	7,699.72	12.56	0.91	-12.55	1.00	1.00	0.00
7,800.00	4.80	4.15	7,799.44	20.04	1.45	-20.02	1.00	1.00	0.00
7,900.00	5.80	4.15	7,899.01	29.25	2.12	-29.23	1.00	1.00	0.00
8,000.00	6.80	4.15	7,998.40	40.20	2.92	-40.16	1.00	1.00	0.00
8,100.00	7.80	4.15	8,097.59	52.87	3.84	-52.82	1.00	1.00	0.00
8,200.00	8.80	4.15	8,196.54	67.27	4.88	-67.20	1.00	1.00	0.00
8,300.00	9.80	4.15	8,295.23	83.39	6.05	-83.31	1.00	1.00	0.00
8,320.00	10.00	4.15	8,314.93	86.82	6.30	-86.73	1.00	1.00	0.00
8,400.00	10.00	4.15	8,393.72	100.67	7.30	-100.57	0.00	0.00	0.00
8,500.00	10.00	4.15	8,492.20	117.99	8.56	-117.88	0.00	0.00	0.00
8,600.00	10.00	4.15	8,590.68	135.31	9.82	-135.18	0.00	0.00	0.00
8,700.00	10.00	4.15	8,689.16	152.63	11.07	-152.48	0.00	0.00	0.00
8,800.00	10.00	4.15	8,787.64	169.95	12.33	-169.78	0.00	0.00	0.00
8,900.00	10.00	4.15	8,886.12	187.27	13.59	-187.09	0.00	0.00	0.00
9,000.00	10.00	4.15	8,984.60	204.59	14.84	-204.39	0.00	0.00	0.00
9,100.00	10.00	4.15	9,083.08	221.91	16.10	-221.69	0.00	0.00	0.00
9,200.00	10.00	4.15	9,181.56	239.23	17.36	-238.99	0.00	0.00	0.00
9,300.00 9,400.00 9,500.00 9,600.00 9,700.00	10.00 10.00 10.00 10.00 10.00	4.15 4.15 4.15 4.15 4.15	9,280.04 9,378.52 9,477.00 9,575.48 9,673.97	256.55 273.87 291.18 308.50 325.82	18.61 19.87 21.13 22.38 23.64	-256.30 -273.60 -290.90 -308.20 -325.51	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
9,800.00	10.00	4.15	9,772.45	343.14	24.90	-342.81	0.00	0.00	0.00
9,900.00	10.00	4.15	9,870.93	360.46	26.15	-360.11	0.00	0.00	0.00
10,000.00	10.00	4.15	9,969.41	377.78	27.41	-377.41	0.00	0.00	0.00
10,100.00	10.00	4.15	10,067.89	395.10	28.67	-394.72	0.00	0.00	0.00
10,200.00	10.00	4.15	10,166.37	412.42	29.92	-412.02	0.00	0.00	0.00
10,300.00	10.00	4.15	10,264.85	429.74	31.18	-429.32	0.00	0.00	0.00
10,400.00	10.00	4.15	10,363.33	447.06	32.44	-446.62	0.00	0.00	0.00
10,500.00	10.00	4.15	10,461.81	464.38	33.69	-463.93	0.00	0.00	0.00

Oxy Inc.

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site:Taco Cat 27-34 Federal ComWell:Taco Cat 27_34 Federal Com 34H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Taco Cat 27_34 Federal Com 34H

RKB=26.5' @ 3683.80ft RKB=26.5' @ 3683.80ft

Grid

Design.	remitting Fia	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00 10,700.00	10.00 10.00	4.15 4.15	10,560.29 10,658.77	481.70 499.02	34.95 36.21	-481.23 -498.53	0.00 0.00	0.00 0.00	0.00 0.00
10,800.00	10.00	4.15	10,757.25	516.34	37.46	-515.83	0.00	0.00	0.00
10,900.00	10.00	4.15	10,855.74	533.65	38.72	-533.14 -550.44	0.00	0.00	0.00
11,000.00 11,100.00	10.00 10.00	4.15 4.15	10,954.22 11,052.70	550.97 568.29	39.98 41.23	-550.44 -567.74	0.00 0.00	0.00 0.00	0.00 0.00
11,170.11	10.00	4.15	11,121.74	580.44	42.12	-579.87	0.00	0.00	0.00
11,200.00	7.02	6.11	11,151.30	584.84	42.50	-584.27	10.00	-9.95	6.57
11,300.00	3.12	164.80	11,251.10	588.30	43.87	-587.71	10.00	-3.90	158.68
11,400.00	13.04	176.16	11,349.99	574.38	45.34	-573.77	10.00	9.92	11.36
11,500.00 11,600.00	23.03 33.03	177.73 178.38	11,444.95 11,533.11	543.49 496.58	46.88 48.43	-542.87 -495.94	10.00 10.00	9.99 10.00	1.57 0.65
11,700.00	43.03	178.75	11,611.78	435.07	49.94	-434.42	10.00	10.00	0.37
11,800.00	53.02	179.01	11,678.58	360.83	51.38	-360.17	10.00	10.00	0.25
11,900.00	63.02	179.20	11,731.47	276.13	52.70	-275.45	10.00	10.00	0.20
12,000.00 12,100.00	73.02 83.02	179.37 179.51	11,768.84 11,789.57	183.52 85.82	53.85 54.80	-182.84 -85.14	10.00 10.00	10.00 10.00	0.16 0.15
12,166.41	89.66	179.51	11,793.80	19.59	55.31	-18.91	10.00	10.00	0.14
12,100.41	89.66	179.61	11,793.00	-14.00	55.54	14.69	0.00	0.00	0.14
12,300.00	89.66	179.61	11,794.59	-114.00	56.23	114.68	0.00	0.00	0.00
12,400.00	89.66	179.61	11,795.19	-213.99	56.92	214.68	0.00	0.00	0.00
12,500.00	89.66	179.61	11,795.78	-313.99	57.61	314.68	0.00	0.00	0.00
12,600.00	89.66	179.61	11,796.37	-413.98	58.30	414.67	0.00	0.00	0.00
12,700.00	89.66	179.61	11,796.96	-513.98	58.99	514.67	0.00	0.00	0.00
12,800.00 12,900.00	89.66 89.66	179.61 179.61	11,797.55 11,798.14	-613.98 -713.97	59.67 60.36	614.67 714.66	0.00 0.00	0.00 0.00	0.00 0.00
13,000.00	89.66	179.61	11,798.73	-813.97	61.05	814.66	0.00	0.00	0.00
13,100.00	89.66	179.61	11,799.32	-913.96	61.74	914.66	0.00	0.00	0.00
13,200.00 13,300.00	89.66 89.66	179.61 179.61	11,799.91 11,800.51	-1,013.96 -1,113.96	62.43 63.12	1,014.65 1,114.65	0.00 0.00	0.00 0.00	0.00 0.00
13,400.00	89.66	179.61	11,800.51	-1,213.95	63.81	1,114.65	0.00	0.00	0.00
13,500.00	89.66	179.61	11,801.69	-1,313.95	64.49	1,314.64	0.00	0.00	0.00
13,600.00	89.66	179.61	11,802.28	-1,413.94	65.18	1,414.64	0.00	0.00	0.00
13,700.00	89.66	179.61	11,802.87	-1,513.94	65.87	1,514.64	0.00	0.00	0.00
13,800.00	89.66	179.61	11,803.46	-1,613.94	66.56	1,614.63	0.00	0.00	0.00
13,900.00 14,000.00	89.66 89.66	179.61 179.61	11,804.05 11,804.64	-1,713.93 -1,813.93	67.25 67.94	1,714.63 1,814.63	0.00 0.00	0.00 0.00	0.00 0.00
14,100.00	89.66	179.61	11,805.23	-1,013.93	68.63	1,914.63	0.00	0.00	0.00
14,100.00	89.66	179.61	11,805.23	-2,013.92	69.32	2,014.62	0.00	0.00	0.00
14,300.00	89.66	179.61	11,806.42	-2,113.91	70.00	2,114.62	0.00	0.00	0.00
14,400.00	89.66	179.61	11,807.01	-2,213.91	70.69	2,214.62	0.00	0.00	0.00
14,500.00	89.66	179.61	11,807.60	-2,313.91	71.38	2,314.61	0.00	0.00	0.00
14,600.00	89.66	179.61	11,808.19	-2,413.90	72.07	2,414.61	0.00	0.00	0.00
14,700.00	89.66	179.61	11,808.78	-2,513.90	72.76	2,514.61	0.00	0.00	0.00
14,800.00	89.66	179.61	11,809.37	-2,613.89 2,713.80	73.45	2,614.60	0.00	0.00	0.00
14,900.00 15,000.00	89.66 89.66	179.61 179.61	11,809.96 11,810.55	-2,713.89 -2,813.89	74.14 74.82	2,714.60 2,814.60	0.00 0.00	0.00 0.00	0.00 0.00
15,100.00	89.66	179.61	11,811.15	-2,913.88	75.51	2,914.59	0.00	0.00	0.00
15,200.00	89.66	179.61	11,811.74	-3,013.88	76.20	3,014.59	0.00	0.00	0.00
15,300.00	89.66	179.61	11,812.33	-3,113.87	76.89	3,114.59	0.00	0.00	0.00
15,400.00	89.66	179.61	11,812.92	-3,213.87	77.58	3,214.58	0.00	0.00	0.00
15,500.00	89.66	179.61	11,813.51	-3,313.87	78.27	3,314.58	0.00	0.00	0.00
15,600.00	89.66	179.61	11,814.10	-3,413.86	78.96	3,414.58	0.00	0.00	0.00
15,700.00	89.66	179.61	11,814.69	-3,513.86	79.65	3,514.57	0.00	0.00	0.00

Oxy Inc. Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Taco Cat 27-34 Federal Com
Well: Taco Cat 27_34 Federal Com 34H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Taco Cat 27_34 Federal Com 34H

RKB=26.5' @ 3683.80ft RKB=26.5' @ 3683.80ft

Grid

Design.	remining Fig								
Planned Survey									
r lamica ourvey									
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 15,900.00	89.66 89.66	179.61 179.61	11,815.28 11,815.87	-3,613.85 -3,713.85	80.33 81.02	3,614.57 3,714.57	0.00 0.00	0.00 0.00	0.00 0.00
16,000.00	89.66	179.61	11,816.47	-3,813.84	81.71	3,814.56	0.00	0.00	0.00
16,100.00 16,200.00	89.66 89.66	179.61 179.61	11,817.06 11,817.65	-3,913.84 -4,013.84	82.40 83.09	3,914.56 4,014.56	0.00 0.00	0.00 0.00	0.00 0.00
16,300.00	89.66	179.61	11,818.24	-4,113.83	83.78	4,114.55	0.00	0.00	0.00
16,400.00	89.66	179.61	11,818.83	-4,213.83	84.47	4,214.55	0.00	0.00	0.00
16,500.00	89.66	179.61	11,819.42	-4,313.82	85.15	4,314.55	0.00	0.00	0.00
16,600.00	89.66	179.61	11,820.01	-4,413.82	85.84	4,414.54	0.00	0.00	0.00
16,700.00 16,800.00	89.66 89.66	179.61 179.61	11,820.60 11,821.19	-4,513.82 -4,613.81	86.53 87.22	4,514.54 4,614.54	0.00 0.00	0.00 0.00	0.00 0.00
16,900.00	89.66	179.61	11,821.79	-4,713.81	87.91	4,714.53	0.00	0.00	0.00
17,000.00	89.66	179.61	11,822.38	-4,813.80	88.60	4,814.53	0.00	0.00	0.00
17,100.00	89.66	179.61	11,822.97	-4,913.80	89.29	4,914.53	0.00	0.00	0.00
17,200.00	89.66	179.61	11,823.56	-5,013.80	89.97	5,014.52	0.00	0.00	0.00
17,300.00	89.66	179.61	11,824.15	-5,113.79	90.66	5,114.52	0.00	0.00	0.00
17,400.00	89.66	179.61	11,824.74 11,825.33	-5,213.79	91.35	5,214.52	0.00	0.00	0.00
17,500.00	89.66	179.61	,	-5,313.78	92.04	5,314.51	0.00	0.00	0.00
17,600.00 17,700.00	89.66 89.66	179.61 179.61	11,825.92 11,826.51	-5,413.78 -5,513.77	92.73 93.42	5,414.51 5,514.51	0.00 0.00	0.00 0.00	0.00 0.00
17,700.00	89.66	179.61	11,827.11	-5,613.77 -5,613.77	94.11	5,614.51	0.00	0.00	0.00
17,900.00	89.66	179.61	11,827.70	-5,713.77	94.80	5,714.50	0.00	0.00	0.00
18,000.00	89.66	179.61	11,828.29	-5,813.76	95.48	5,814.50	0.00	0.00	0.00
18,100.00	89.66	179.61	11,828.88	-5,913.76	96.17	5,914.50	0.00	0.00	0.00
18,200.00	89.66	179.61	11,829.47	-6,013.75	96.86	6,014.49	0.00	0.00	0.00
18,300.00 18,400.00	89.66 89.66	179.61 179.61	11,830.06 11,830.65	-6,113.75 -6,213.75	97.55 98.24	6,114.49 6,214.49	0.00 0.00	0.00 0.00	0.00 0.00
18,500.00	89.66	179.61	11,831.24	-6,313.74	98.93	6,314.48	0.00	0.00	0.00
18,600.00	89.66	179.61	11,831.83	-6,413.74	99.62	6,414.48	0.00	0.00	0.00
18,700.00	89.66	179.61	11,832.43	-6,513.73	100.30	6,514.48	0.00	0.00	0.00
18,800.00	89.66	179.61	11,833.02	-6,613.73	100.99	6,614.47	0.00	0.00	0.00
18,900.00	89.66	179.61	11,833.61	-6,713.73	101.68	6,714.47	0.00	0.00	0.00
19,000.00	89.66	179.61	11,834.20	-6,813.72	102.37	6,814.47	0.00	0.00	0.00
19,100.00 19,200.00	89.66 89.66	179.61 179.61	11,834.79 11,835.38	-6,913.72 -7,013.71	103.06 103.75	6,914.46 7,014.46	0.00 0.00	0.00 0.00	0.00 0.00
19,300.00	89.66	179.61	11,835.97	-7,013.71 -7,113.71	103.73	7,014.46	0.00	0.00	0.00
19,400.00	89.66	179.61	11,836.56	-7,213.70	105.12	7,214.45	0.00	0.00	0.00
19,500.00	89.66	179.61	11,837.15	-7,313.70	105.81	7,314.45	0.00	0.00	0.00
19,600.00	89.66	179.61	11,837.75	-7,413.70	106.50	7,414.45	0.00	0.00	0.00
19,700.00	89.66	179.61	11,838.34	-7,513.69	107.19	7,514.44	0.00	0.00	0.00
19,800.00 19,900.00	89.66	179.61	11,838.93	-7,613.69	107.88	7,614.44 7,714.44	0.00	0.00	0.00
20,000.00	89.66 89.66	179.61 179.61	11,839.52 11,840.11	-7,713.68 -7,813.68	108.57 109.26	7,714.44 7,814.43	0.00 0.00	0.00 0.00	0.00 0.00
20,100.00	89.66	179.61	11,840.70	-7,913.68	109.95	7,914.43	0.00	0.00	0.00
20,200.00	89.66	179.61	11,841.29	-8,013.67	110.63	8,014.43	0.00	0.00	0.00
20,300.00	89.66	179.61	11,841.88	-8,113.67	111.32	8,114.42	0.00	0.00	0.00
20,400.00	89.66	179.61	11,842.47	-8,213.66	112.01	8,214.42	0.00	0.00	0.00
20,500.00	89.66	179.61	11,843.07	-8,313.66	112.70	8,314.42	0.00	0.00	0.00
20,600.00	89.66	179.61	11,843.66	-8,413.66	113.39	8,414.41	0.00	0.00	0.00
20,700.00 20,800.00	89.66 89.66	179.61 179.61	11,844.25 11,844.84	-8,513.65 -8,613.65	114.08 114.77	8,514.41 8,614.41	0.00 0.00	0.00 0.00	0.00 0.00
20,900.00	89.66	179.61	11,845.43	-8,713.64	115.45	8,714.40	0.00	0.00	0.00
21,000.00	89.66	179.61	11,846.02	-8,813.64	116.14	8,814.40	0.00	0.00	0.00
21,100.00	89.66	179.61	11,846.61	-8,913.64	116.83	8,914.40	0.00	0.00	0.00

Oxy Inc.

Planning Report

HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECT

PRD NM DIRECTIONAL PLANS (NAD 1983) Taco Cat 27-34 Federal Com

Site: Well:

Taco Cat 27_34 Federal Com 34H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Taco Cat 27_34 Federal Com 34H

RKB=26.5' @ 3683.80ft RKB=26.5' @ 3683.80ft

Crid

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	89.66	179.61	11,847.20	-9,013.63	117.52	9,014.39	0.00	0.00	0.00
21,300.00	89.66	179.61	11,847.79	-9,113.63	118.21	9,114.39	0.00	0.00	0.00
21,400.00	89.66	179.61	11,848.39	-9,213.62	118.90	9,214.39	0.00	0.00	0.00
21,500.00	89.66	179.61	11,848.98	-9,313.62	119.59	9,314.39	0.00	0.00	0.00
21,600.00	89.66	179.61	11,849.57	-9,413.61	120.27	9,414.38	0.00	0.00	0.00
21,700.00	89.66	179.61	11,850.16	-9,513.61	120.96	9,514.38	0.00	0.00	0.00
21,800.00	89.66	179.61	11,850.75	-9,613.61	121.65	9,614.38	0.00	0.00	0.00
21,900.00	89.66	179.61	11,851.34	-9,713.60	122.34	9,714.37	0.00	0.00	0.00
22,000.00	89.66	179.61	11,851.93	-9,813.60	123.03	9,814.37	0.00	0.00	0.00
22,100.00	89.66	179.61	11,852.52	-9,913.59	123.72	9,914.37	0.00	0.00	0.00
22,200.00	89.66	179.61	11,853.11	-10,013.59	124.41	10,014.36	0.00	0.00	0.00
22,300.00	89.66	179.61	11,853.71	-10,113.59	125.10	10,114.36	0.00	0.00	0.00
22,316.02	89.66	179.61	11,853.80	-10,129.61	125.21	10,130.38	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 (Taco Cat 27_34 - plan misses target - Point	0.00 center by 73		11,793.80 99.55ft MD	315.58 (11731.26 TV	53.42 /D, 276.52 N,	498,882.60 52.69 E)	749,815.46	32° 22' 10.883898 N	103° 39' 29.092176
PBHL (Taco Cat - plan hits target cer - Point	0.00 nter	0.00	11,853.80	-10,129.61	125.21	488,437.86	749,887.24	32° 20' 27.526946 N	103° 39' 29.023403

ormations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	862.80	862.80	RUSTLER			
	1,395.80	1,395.80	SALADO			
	3,390.80	3,390.80	CASTILE			
	4,726.80	4,726.80	DELAWARE			
	4,781.80	4,781.80	BELL CANYON			
	5,643.80	5,643.80	CHERRY CANYON			
	6,883.80	6,883.80	BRUSHY CANYON			
	8,561.54	8,552.80	BONE SPRING			
	9,704.91	9,678.80	BONE SPRING 1ST			
	10,401.49	10,364.80	BONE SPRING 2ND			
	11,506.37	11,450.80	BONE SPRING 3RD			

Oxy Inc.

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Taco Cat 27-34 Federal Com
Well: Taco Cat 27_34 Federal Com 34H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Taco Cat 27_34 Federal Com 34H

RKB=26.5' @ 3683.80ft RKB=26.5' @ 3683.80ft

Grid

Plan Annotations				
Measured Depth	Vertical Depth	Local Coor		
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment
7,320.00	7,320.00	0.00	0.00	Build 1°/100'
8,320.00	8,314.93	86.82	6.30	Hold 10° Tangent
11,170.11	11,121.74	580.44	42.12	KOP, Build & Turn 10°/100'
12,166.41	11,793.80	19.59	55.31	Landing Point
22,316.02	11,853.80	-10,129.61	125.21	TD at 22316.02' MD

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

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 55547

CONDITIONS

Operator:		OGRID:
	OXY USA INC	16696
	P.O. Box 4294	Action Number:
	Houston, TX 772104294	55547
		Action Type:
		[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/13/2021