

Well Name: MESA VERDE WC UNIT	Well Location: T24S / R31E / SEC 13 / SWSW / 32.2104432 / -103.7366098	County or Parish/State: EDDY / NM
Well Number: 20H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM114979	Unit or CA Name: MESA VERDE WOLFCAMP RDU PA A	Unit or CA Number: NMNM137099A
US Well Number: 300154611200X1	Well Status: Drilling Well	Operator: OXY USA INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 03/11/2021	Time Sundry Submitted: 02:53
Date proposed operation will begin: 05/27/2021	

Procedure Description: OXY USA Inc requests approval to change the pool, APD casing, cement and mud programs for the subject well. Also note the offline cementing and BOP Break testing variance requests added to the drill plan. Please find the attached revised well plat, drill plan and directional for BLM approval.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- MesaVerdeWCUnit20H_C102_20210311145146.pdf
- MesaVerdeWCUnit20H_DirectPlan_20210311143519.pdf
- MesaVerdeWCUnit20H_DirectPlot_20210311143500.pdf
- MESAVERDEWCUNIT20H_DrillPlan_20210311143446.pdf

Well Name: MESA VERDE WC UNIT	Well Location: T24S / R31E / SEC 13 / SWSW / 32.2104432 / -103.7366098	County or Parish/State: EDDY / NM
Well Number: 20H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM114979	Unit or CA Name: MESA VERDE WOLFCAMP RDU PA A	Unit or CA Number: NMNM137099A
US Well Number: 300154611200X1	Well Status: Drilling Well	Operator: OXY USA INCORPORATED

Conditions of Approval

Additional Reviews

Mesa_Verde_WC_Unit_12H_DrillingSundryCOA_1517940_20210330091450.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: REEVES	Signed on: MAR 11, 2021 02:52 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

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: NDUNGU KAMAU	BLM POC Title: Petroleum Engineering Technician
BLM POC Phone: 5752345938	BLM POC Email Address: nkamau@blm.gov
Disposition: Approved	Disposition Date: 04/07/2021
Signature: N. Mandela Kamau	



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
 Site: Mesa Verde WC Unit
 Well: Mesa Verde WC Unit 20H
 Wellbore: WB00
 Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

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

System Datum: Mean Sea Level

WELL DETAILS: Mesa Verde WC Unit 20H

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.00	0.00	440805.62	3588.30 725892.40	32° 12' 37.595708 N	103° 44' 11.795106 W

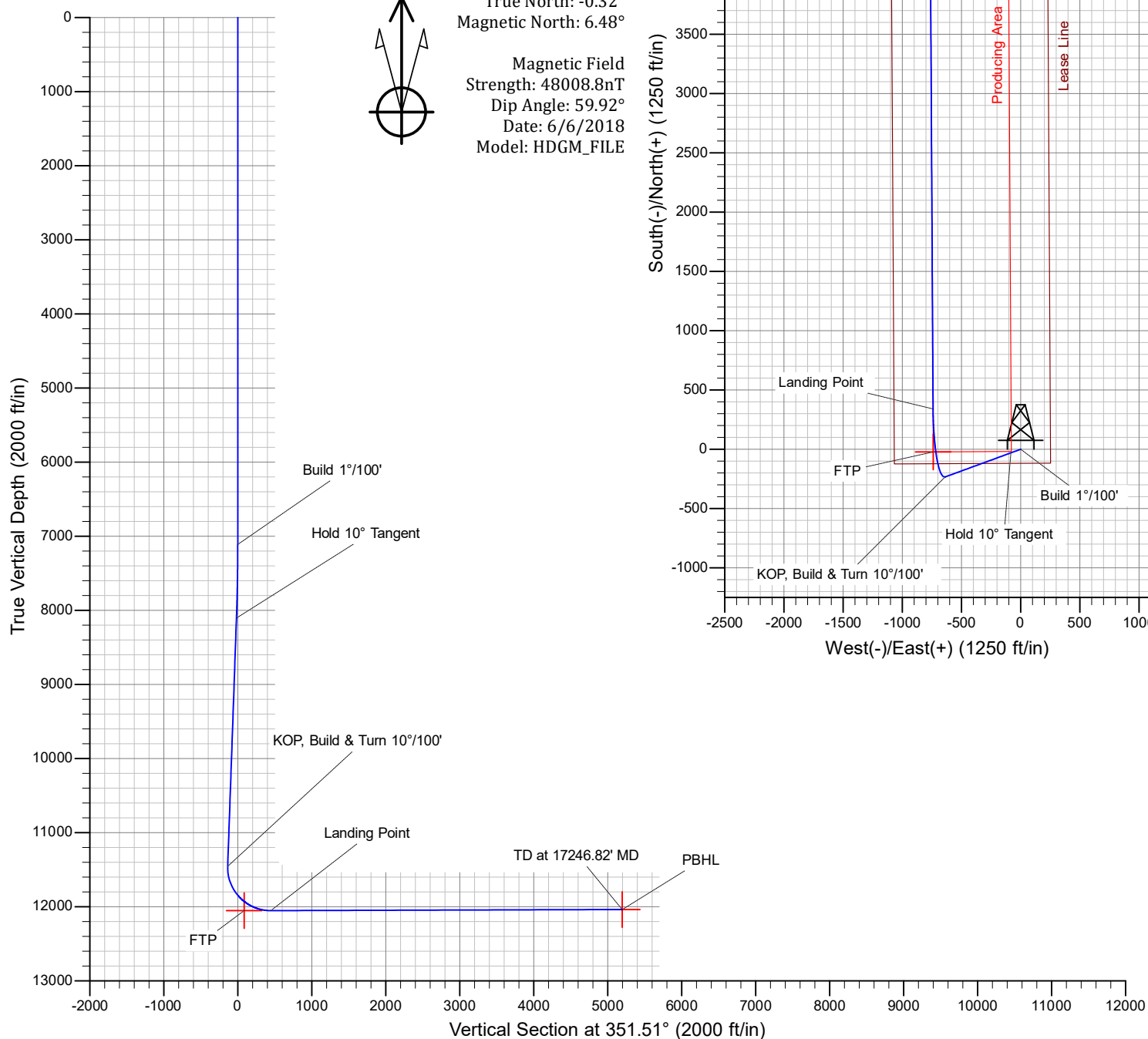
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7110.00	0.00	0.00	7110.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
8110.00	10.00	249.94	8104.93	-29.86	-81.76	1.00	249.94	-17.46	Hold 10° Tangent
11511.75	10.00	249.94	11455.00	-232.47	-636.64	0.00	0.00	-135.92	KOP, Build & Turn 10°/100'
12447.12	90.18	359.67	12053.30	340.68	-739.58	10.00	109.42	446.15	Landing Point
17246.82	90.18	359.67	12038.30	5140.28	-767.42	0.00	0.00	5197.25	TD at 17246.82' MD



Azimuths to Grid North
 True North: -0.32°
 Magnetic North: 6.48°

Magnetic Field
 Strength: 48008.8nT
 Dip Angle: 59.92°
 Date: 6/6/2018
 Model: HDGM_FILE



OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Mesa Verde WC Unit

Mesa Verde WC Unit 20H

WB00

Plan: Permitting Plan

Standard Planning Report

01 March, 2021

Oxy Inc.

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Mesa Verde WC Unit 20H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3613.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3613.30ft
Site:	Mesa Verde WC Unit	North Reference:	Grid
Well:	Mesa Verde WC Unit 20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
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	Mesa Verde WC Unit		
Site Position:		Northing:	441,172.41 usft
From:	Map	Easting:	734,323.24 usft
Position Uncertainty:	50.00 ft	Slot Radius:	13.200 in
		Latitude:	32° 12' 40.751543 N
		Longitude:	103° 42' 33.640877 W
		Grid Convergence:	0.33 °

Well	Mesa Verde WC Unit 20H		
Well Position	+N/-S	-366.81 ft	Northing: 440,805.62 usft
	+E/-W	-8,431.26 ft	Easting: 725,892.40 usft
Position Uncertainty	1.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	32° 12' 37.595709 N
		Longitude:	103° 44' 11.795106 W
		Ground Level:	3,588.30 ft

Wellbore	WB00				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	6/6/2018	6.80	59.92	48,008.80000000

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	351.51

Plan Survey Tool Program	Date	3/1/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,246.82	Permitting Plan (WB00)	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	
7,110.00	0.00	0.00	7,110.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,110.00	10.00	249.94	8,104.93	-29.86	-81.76	1.00	1.00	0.00	249.94	
11,511.75	10.00	249.94	11,455.00	-232.47	-636.64	0.00	0.00	0.00	0.00	
12,447.12	90.18	359.67	12,053.30	340.68	-739.58	10.00	8.57	11.73	109.42	
17,246.82	90.18	359.67	12,038.30	5,140.28	-767.42	0.00	0.00	0.00	0.00	PBHL (Mesa Verde)

Oxy Inc.

Planning Report

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Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3613.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3613.30ft
Site:	Mesa Verde WC Unit	North Reference:	Grid
Well:	Mesa Verde WC Unit 20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
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

Oxy Inc.

Planning Report

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Site:	Mesa Verde WC Unit	North Reference:	Grid
Well:	Mesa Verde WC Unit 20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,110.00	0.00	0.00	7,110.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.90	249.94	7,200.00	-0.24	-0.66	-0.14	1.00	1.00	0.00
7,300.00	1.90	249.94	7,299.97	-1.08	-2.96	-0.63	1.00	1.00	0.00
7,400.00	2.90	249.94	7,399.88	-2.52	-6.89	-1.47	1.00	1.00	0.00
7,500.00	3.90	249.94	7,499.70	-4.55	-12.46	-2.66	1.00	1.00	0.00
7,600.00	4.90	249.94	7,599.40	-7.18	-19.67	-4.20	1.00	1.00	0.00
7,700.00	5.90	249.94	7,698.96	-10.41	-28.51	-6.09	1.00	1.00	0.00
7,800.00	6.90	249.94	7,798.33	-14.23	-38.98	-8.32	1.00	1.00	0.00
7,900.00	7.90	249.94	7,897.50	-18.65	-51.08	-10.90	1.00	1.00	0.00
8,000.00	8.90	249.94	7,996.43	-23.66	-64.80	-13.83	1.00	1.00	0.00
8,100.00	9.90	249.94	8,095.08	-29.26	-80.14	-17.11	1.00	1.00	0.00
8,110.00	10.00	249.94	8,104.93	-29.86	-81.76	-17.46	1.00	1.00	0.00
8,200.00	10.00	249.94	8,193.56	-35.22	-96.44	-20.59	0.00	0.00	0.00
8,300.00	10.00	249.94	8,292.04	-41.17	-112.76	-24.07	0.00	0.00	0.00
8,400.00	10.00	249.94	8,390.53	-47.13	-129.07	-27.56	0.00	0.00	0.00
8,500.00	10.00	249.94	8,489.01	-53.09	-145.38	-31.04	0.00	0.00	0.00
8,600.00	10.00	249.94	8,587.49	-59.04	-161.69	-34.52	0.00	0.00	0.00
8,700.00	10.00	249.94	8,685.97	-65.00	-178.00	-38.00	0.00	0.00	0.00
8,800.00	10.00	249.94	8,784.45	-70.95	-194.31	-41.48	0.00	0.00	0.00
8,900.00	10.00	249.94	8,882.93	-76.91	-210.62	-44.97	0.00	0.00	0.00
9,000.00	10.00	249.94	8,981.41	-82.87	-226.94	-48.45	0.00	0.00	0.00
9,100.00	10.00	249.94	9,079.89	-88.82	-243.25	-51.93	0.00	0.00	0.00
9,200.00	10.00	249.94	9,178.37	-94.78	-259.56	-55.41	0.00	0.00	0.00
9,300.00	10.00	249.94	9,276.85	-100.74	-275.87	-58.90	0.00	0.00	0.00
9,400.00	10.00	249.94	9,375.33	-106.69	-292.18	-62.38	0.00	0.00	0.00
9,500.00	10.00	249.94	9,473.81	-112.65	-308.49	-65.86	0.00	0.00	0.00
9,600.00	10.00	249.94	9,572.29	-118.60	-324.80	-69.34	0.00	0.00	0.00
9,700.00	10.00	249.94	9,670.78	-124.56	-341.12	-72.83	0.00	0.00	0.00
9,800.00	10.00	249.94	9,769.26	-130.52	-357.43	-76.31	0.00	0.00	0.00
9,900.00	10.00	249.94	9,867.74	-136.47	-373.74	-79.79	0.00	0.00	0.00
10,000.00	10.00	249.94	9,966.22	-142.43	-390.05	-83.27	0.00	0.00	0.00
10,100.00	10.00	249.94	10,064.70	-148.39	-406.36	-86.76	0.00	0.00	0.00
10,200.00	10.00	249.94	10,163.18	-154.34	-422.67	-90.24	0.00	0.00	0.00
10,300.00	10.00	249.94	10,261.66	-160.30	-438.98	-93.72	0.00	0.00	0.00
10,400.00	10.00	249.94	10,360.14	-166.25	-455.29	-97.20	0.00	0.00	0.00
10,500.00	10.00	249.94	10,458.62	-172.21	-471.61	-100.69	0.00	0.00	0.00

Oxy Inc.

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Mesa Verde WC Unit 20H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3613.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3613.30ft
Site:	Mesa Verde WC Unit	North Reference:	Grid
Well:	Mesa Verde WC Unit 20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
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)
10,600.00	10.00	249.94	10,557.10	-178.17	-487.92	-104.17	0.00	0.00	0.00
10,700.00	10.00	249.94	10,655.58	-184.12	-504.23	-107.65	0.00	0.00	0.00
10,800.00	10.00	249.94	10,754.06	-190.08	-520.54	-111.13	0.00	0.00	0.00
10,900.00	10.00	249.94	10,852.54	-196.03	-536.85	-114.61	0.00	0.00	0.00
11,000.00	10.00	249.94	10,951.03	-201.99	-553.16	-118.10	0.00	0.00	0.00
11,100.00	10.00	249.94	11,049.51	-207.95	-569.47	-121.58	0.00	0.00	0.00
11,200.00	10.00	249.94	11,147.99	-213.90	-585.79	-125.06	0.00	0.00	0.00
11,300.00	10.00	249.94	11,246.47	-219.86	-602.10	-128.54	0.00	0.00	0.00
11,400.00	10.00	249.94	11,344.95	-225.82	-618.41	-132.03	0.00	0.00	0.00
11,500.00	10.00	249.94	11,443.43	-231.77	-634.72	-135.51	0.00	0.00	0.00
11,511.75	10.00	249.94	11,455.00	-232.47	-636.64	-135.92	0.00	0.00	0.00
11,600.00	10.89	299.95	11,541.96	-230.94	-651.08	-132.27	10.00	1.00	56.67
11,700.00	18.05	329.02	11,638.84	-212.89	-667.28	-112.03	10.00	7.17	29.07
11,800.00	27.05	340.66	11,731.15	-178.06	-682.82	-75.28	10.00	8.99	11.64
11,900.00	36.54	346.69	11,816.07	-127.51	-697.24	-23.16	10.00	9.49	6.03
12,000.00	46.23	350.49	11,891.02	-62.77	-710.09	42.77	10.00	9.68	3.79
12,100.00	56.00	353.21	11,953.73	14.20	-720.99	120.50	10.00	9.77	2.72
12,200.00	65.82	355.36	12,002.29	101.04	-729.60	207.67	10.00	9.82	2.15
12,300.00	75.67	357.21	12,035.23	195.13	-735.66	301.62	10.00	9.85	1.84
12,400.00	85.53	358.89	12,051.54	293.61	-738.99	399.51	10.00	9.86	1.69
12,447.12	90.18	359.67	12,053.30	340.68	-739.58	446.15	10.00	9.86	1.64
12,500.00	90.18	359.67	12,053.14	393.56	-739.89	498.50	0.00	0.00	0.00
12,600.00	90.18	359.67	12,052.82	493.56	-740.47	597.48	0.00	0.00	0.00
12,700.00	90.18	359.67	12,052.51	593.55	-741.05	696.47	0.00	0.00	0.00
12,800.00	90.18	359.67	12,052.20	693.55	-741.63	795.46	0.00	0.00	0.00
12,900.00	90.18	359.67	12,051.89	793.55	-742.21	894.45	0.00	0.00	0.00
13,000.00	90.18	359.67	12,051.57	893.55	-742.79	993.43	0.00	0.00	0.00
13,100.00	90.18	359.67	12,051.26	993.55	-743.37	1,092.42	0.00	0.00	0.00
13,200.00	90.18	359.67	12,050.95	1,093.54	-743.95	1,191.41	0.00	0.00	0.00
13,300.00	90.18	359.67	12,050.64	1,193.54	-744.53	1,290.40	0.00	0.00	0.00
13,400.00	90.18	359.67	12,050.32	1,293.54	-745.11	1,389.38	0.00	0.00	0.00
13,500.00	90.18	359.67	12,050.01	1,393.54	-745.69	1,488.37	0.00	0.00	0.00
13,600.00	90.18	359.67	12,049.70	1,493.54	-746.27	1,587.36	0.00	0.00	0.00
13,700.00	90.18	359.67	12,049.39	1,593.53	-746.85	1,686.34	0.00	0.00	0.00
13,800.00	90.18	359.67	12,049.07	1,693.53	-747.43	1,785.33	0.00	0.00	0.00
13,900.00	90.18	359.67	12,048.76	1,793.53	-748.01	1,884.32	0.00	0.00	0.00
14,000.00	90.18	359.67	12,048.45	1,893.53	-748.59	1,983.31	0.00	0.00	0.00
14,100.00	90.18	359.67	12,048.14	1,993.52	-749.17	2,082.29	0.00	0.00	0.00
14,200.00	90.18	359.67	12,047.82	2,093.52	-749.75	2,181.28	0.00	0.00	0.00
14,300.00	90.18	359.67	12,047.51	2,193.52	-750.33	2,280.27	0.00	0.00	0.00
14,400.00	90.18	359.67	12,047.20	2,293.52	-750.91	2,379.26	0.00	0.00	0.00
14,500.00	90.18	359.67	12,046.89	2,393.52	-751.49	2,478.24	0.00	0.00	0.00
14,600.00	90.18	359.67	12,046.57	2,493.51	-752.07	2,577.23	0.00	0.00	0.00
14,700.00	90.18	359.67	12,046.26	2,593.51	-752.65	2,676.22	0.00	0.00	0.00
14,800.00	90.18	359.67	12,045.95	2,693.51	-753.23	2,775.20	0.00	0.00	0.00
14,900.00	90.18	359.67	12,045.64	2,793.51	-753.81	2,874.19	0.00	0.00	0.00
15,000.00	90.18	359.67	12,045.32	2,893.50	-754.39	2,973.18	0.00	0.00	0.00
15,100.00	90.18	359.67	12,045.01	2,993.50	-754.97	3,072.17	0.00	0.00	0.00
15,200.00	90.18	359.67	12,044.70	3,093.50	-755.55	3,171.15	0.00	0.00	0.00
15,300.00	90.18	359.67	12,044.39	3,193.50	-756.13	3,270.14	0.00	0.00	0.00
15,400.00	90.18	359.67	12,044.07	3,293.50	-756.71	3,369.13	0.00	0.00	0.00
15,500.00	90.18	359.67	12,043.76	3,393.49	-757.29	3,468.12	0.00	0.00	0.00
15,600.00	90.18	359.67	12,043.45	3,493.49	-757.87	3,567.10	0.00	0.00	0.00
15,700.00	90.18	359.67	12,043.14	3,593.49	-758.45	3,666.09	0.00	0.00	0.00

Oxy Inc.

Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Mesa Verde WC Unit 20H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3613.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3613.30ft
Site:	Mesa Verde WC Unit	North Reference:	Grid
Well:	Mesa Verde WC Unit 20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,800.00	90.18	359.67	12,042.82	3,693.49	-759.03	3,765.08	0.00	0.00	0.00	
15,900.00	90.18	359.67	12,042.51	3,793.49	-759.61	3,864.07	0.00	0.00	0.00	
16,000.00	90.18	359.67	12,042.20	3,893.48	-760.19	3,963.05	0.00	0.00	0.00	
16,100.00	90.18	359.67	12,041.88	3,993.48	-760.77	4,062.04	0.00	0.00	0.00	
16,200.00	90.18	359.67	12,041.57	4,093.48	-761.35	4,161.03	0.00	0.00	0.00	
16,300.00	90.18	359.67	12,041.26	4,193.48	-761.93	4,260.01	0.00	0.00	0.00	
16,400.00	90.18	359.67	12,040.95	4,293.47	-762.51	4,359.00	0.00	0.00	0.00	
16,500.00	90.18	359.67	12,040.63	4,393.47	-763.09	4,457.99	0.00	0.00	0.00	
16,600.00	90.18	359.67	12,040.32	4,493.47	-763.67	4,556.98	0.00	0.00	0.00	
16,700.00	90.18	359.67	12,040.01	4,593.47	-764.25	4,655.96	0.00	0.00	0.00	
16,800.00	90.18	359.67	12,039.70	4,693.47	-764.83	4,754.95	0.00	0.00	0.00	
16,900.00	90.18	359.67	12,039.38	4,793.46	-765.41	4,853.94	0.00	0.00	0.00	
17,000.00	90.18	359.67	12,039.07	4,893.46	-765.99	4,952.93	0.00	0.00	0.00	
17,100.00	90.18	359.67	12,038.76	4,993.46	-766.57	5,051.91	0.00	0.00	0.00	
17,200.00	90.18	359.67	12,038.45	5,093.46	-767.15	5,150.90	0.00	0.00	0.00	
17,246.82	90.18	359.67	12,038.30	5,140.28	-767.42	5,197.25	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL (Mesa Verde - hit/miss target - Shape - Point)	0.00	0.00	12,038.30	5,140.28	-767.42	445,945.62	725,125.02	32° 13' 28.500859 N	103° 44' 20.396069	
FTP (Mesa Verde WC - plan misses target center by 104.19ft at 12118.76ft MD (11963.96 TVD, 29.81 N, -722.79 E) - Point)	0.00	0.00	12,053.30	-21.62	-737.96	440,784.00	725,154.48	32° 12' 37.422224 N	103° 44' 20.385432	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
727.30	727.30	RUSTLER				
1,056.30	1,056.30	SALADO				
2,931.30	2,931.30	CASTILE				
4,601.30	4,601.30	DELAWARE				
4,624.30	4,624.30	BELL CANYON				
5,499.30	5,499.30	CHERRY CANYON				
6,726.30	6,726.30	BRUSHY CANYON				
8,456.64	8,446.30	BONE SPRING				
9,556.34	9,529.30	BONE SPRING 1ST				
10,202.15	10,165.30	BONE SPRING 2ND				
11,502.92	11,446.30	BONE SPRING 3RD				
12,053.63	11,926.30	WOLFCAMP				

Oxy Inc.
Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Mesa Verde WC Unit 20H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3613.30ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3613.30ft
Site:	Mesa Verde WC Unit	North Reference:	Grid
Well:	Mesa Verde WC Unit 20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB00		
Design:	Permitting Plan		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,110.00	7,110.00	0.00	0.00	Build 1°/100'	
8,110.00	8,104.93	-29.86	-81.76	Hold 10° Tangent	
11,511.75	11,455.00	-232.47	-636.64	KOP, Build & Turn 10°/100'	
12,447.12	12,053.30	340.68	-739.58	Landing Point	
17,246.82	12,038.30	5,140.28	-767.42	TD at 17246.82' MD	

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District III
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name MESA VERDE WC UNIT	Well Number 20H
OGRID No.	Operator Name OXY USA INC.	Elevation 3588.3'

Surface Location

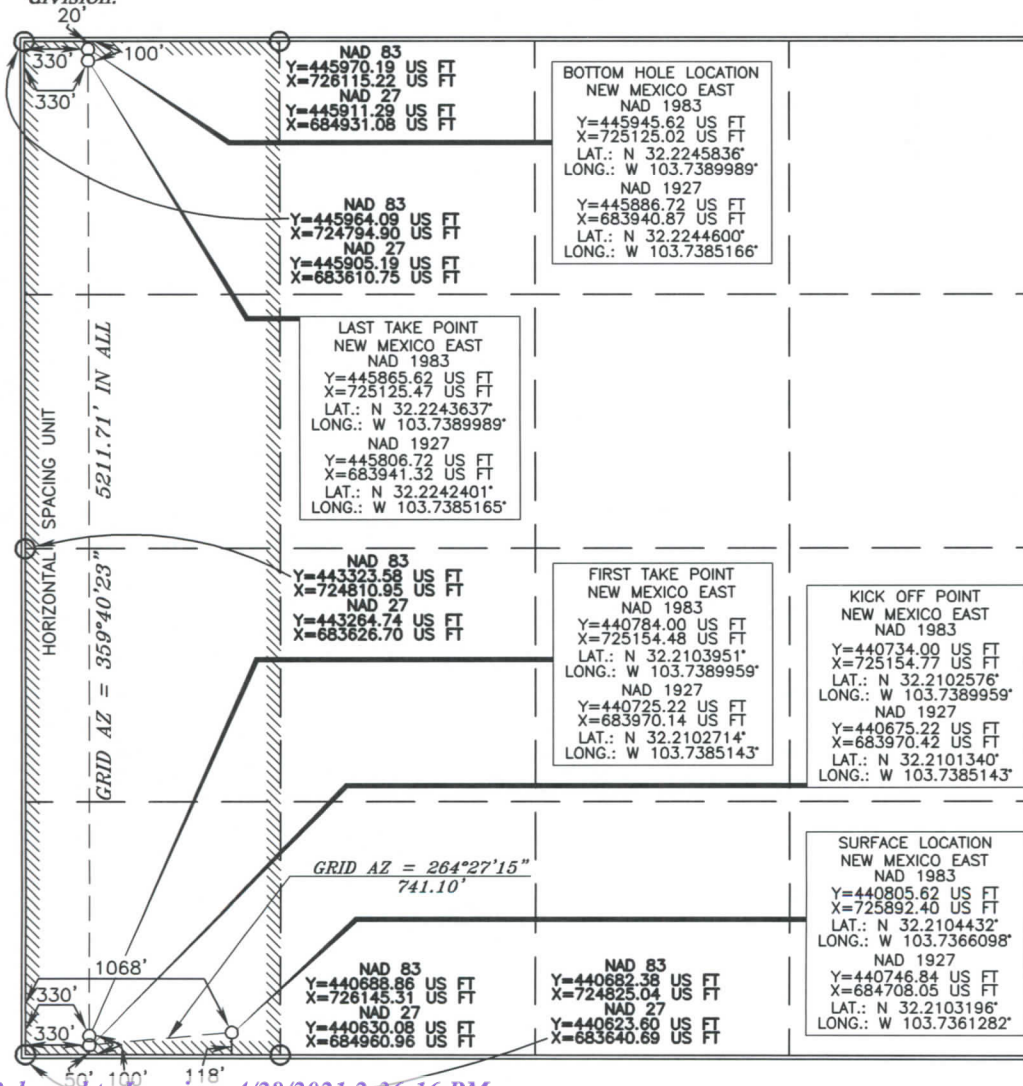
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	24 SOUTH	31 EAST, N.M.P.M.		118'	SOUTH	1068'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	24 SOUTH	31 EAST, N.M.P.M.		20'	NORTH	330'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Leslie T. Reeves

Signature _____ Date _____

Printed Name _____

E-mail Address _____

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

15079
AUGUST 23, 2018
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Asad 2/24/2021
Certificate Number 15079

WO# 180823WL-c (Rev. A) (AS)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
LEASE NO.:	NMNM128362
LOCATION:	Section 18, T.24 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	MESA VERDE WC UNIT / 12H
SURFACE HOLE FOOTAGE:	365'/S & 1378'/W
BOTTOM HOLE FOOTAGE:	180'/S & 2200'/W

WELL NAME & NO.:	MESA VERDE WC UNIT / 13H
SURFACE HOLE FOOTAGE:	330'/S & 1378'/W
BOTTOM HOLE FOOTAGE:	180'/N & 1260'/W

WELL NAME & NO.:	MESA VERDE WC UNIT / 14H
SURFACE HOLE FOOTAGE:	400'/S & 1378'/W
BOTTOM HOLE FOOTAGE:	180'/N & 440'/W

COA

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

Break Testing	☒ Yes	☐ No
---------------	--------------------------------------	--------------------------

ALL PREVIOUS COAs STILL APPLY.

A. CASING

Casing Design:

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

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

Option 1 (Single Stage):

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

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

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

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted **(575-393-3612 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

Offline Cementing

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

NMK3222021

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 23221

COMMENTS

Operator:	OXY USA INC	P.O. Box 4294	Houston, TX772104294	OGRID:	16696	Action Number:	23221	Action Type:	C-103A
Created By	Comment					Comment Date			
kpickford	KP GEO Review 4/16/2021					04/16/2021			

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District IV

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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CONDITIONS

Action 23221

CONDITIONS OF APPROVAL

Operator:	OXY USA INC	P.O. Box 4294	Houston, TX772104294	OGRID:	16696	Action Number:	23221	Action Type:	C-103A
OCD Reviewer	Condition								
kpickford	Adhere to previous NMOCD Conditions of Approval								