Do not use thi	NOTICES AND REPOR	drill or to be entered Ar	tesia 6. If Indian, Allottee	or Tribe Name
	IPIPLICATE - Other inst	victions on page 2	7. If Unit or CA/Agr	eement, Name and/or No.
1 Type of Well			8 Well Name and No	
S Oil Well Gas Well Oth	ner		CAL-MON MDP	1 35 FEDERAL 2H
2. Name of Operator OXY USA INCORPORATED	Contact: [E-Mail: david_stewa	DAVID STEWART art@oxy.com	9. API Well No. 30-015-44772-	-00-X1
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521	110	3b. Phone No. (include area code) Ph: 432.685.5717	10. Field and Pool or COTTON DRA	r Exploratory Area W-BONE SPRING
4. Location of Well (Footage, Sec., T.	., R., M., or Survey Description)		11. County or Parish	, State
Sec 35 T23S R31E NWNW 11 32.267883 N Lat, 103.753883	10FNL 1002FWL W Lon		EDDY COUNT	Ύ, ΝΜ
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICATE NATURE O	F NOTICE, REPORT, OR OT	HER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
M Notice of Intent	C Acidize	Deepen	Production (Start/Resume)	U Water Shut-Off
	□ Alter Casing	Hydraulic Fracturing	Reclamation	U Well Integrity
U Subsequent Report	Casing Repair	□ New Construction	C Recomplete	Other Change to Original 4
Final Abandonment Notice	Change Plans	Plug and Abandon Plug Back	Temporarily Abandon Water Disposal	PD
Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi OXY USA Inc. respectfully req 10400015177, API No. 30-015 the proposed pad. The well w	rk will be performed or provide f operations. If the operation res- pandonment Notices must be file inal inspection. Quest that the filed APD for 5-44772 be amended due vas moved 167' south and	he Bond No. on file with BLM/BIA alts in a multiple completion or reco d only after all requirements, includ the Cal-Mon MDP1 35 Fede to a buried pipeline, flowline a 110' east of the original locat	. Required subsequent reports must b impletion in a new interval, a Form 31 ing reclamation, have been completed ral #2H, APD No. and meter runs on ion.	e filed within 30 days 60-4 must be filed once and the operator has
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<u>Dennet |</u> 1625 N. French Dr., Hobbn, NM 88240 Phone. (375) 393-6161 Fax. (575) 393-0720 <u>Destrict II</u> Bill S. Føst SL, Artesia, NM 18210 Phone. (575) 748-1283 Fax. (575) 748-9720 Decine III 1000 Rao Brazos Road, Astron, NM 87410 Phone. (SOS) 334-6178 Fax: (SOS) 334-6170 Padec (SU3) 33-8178 FBE: (SU3) 334-8170 <u>Decimit IV</u> 1220 S. St. Facacis Dr., Sama Fe, NM 87505 Filane: (SU5) 476-3450 FBE: (SU5) 476-3462

REACHL CONSERVATION ARTESIA DISTRICT State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION AR 2 8 2018 Submit one copy to appropriate 1220 South St. Francis Dr. Santa Fe, NM 87505 *KECEIVEP*

Form C-102 Revised August 1, 2011 District Office

AMENDED REPORT



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



OXY PRD NM DIRECTIONAL PLANS (NAD 1983) CAL-MON MDP1 35 FED CAL-MON MDP1 35 FED 2H

WB00

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Plan: Permitting Plan

Standard Planning Report

21 February, 2018

Oxy Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	HOPS ENGII PRD I CAL-N CAL-N WB00 Permi	SPP NEERING DES NM DIRECTIO MON MDP1 35 MON MDP1 35) tting Plan	SIGNS INAL PLAN 5 FED 5 FED 2H	Local Co-ordinate Reference: Well CAL-MON M S TVD Reference: DATUM @ 3484.9 PLANS (NAD 1983) MD Reference: DATUM @ 3484.9 North Reference: Grid 2H Survey Calculation Method: Minimum Curvatur					MDP1 35 FE 4.90ft 4.90ft ture	D 2H
Project	PRD N	IM DIRECTION	NAL PLANS	S (NAD 1983)						· ·
Map System: Geo Datum: Map Zopo:	US State North Ar	e Plane 1983 nerican Datum vico Eastern 7	n 1983 Yone		System Da	tum:	Me	ean Sea Level	ale factor	
Site	CAL-M	ION MDP1 35	FED							
Site Position: From: Position Uncertain	Maş t y :	р 0	No Ea .00 ft Sic	rthing: sting: ot Radius:	461,9 720,9	672.99 usft 407.82 usft 13.200 in	Latitude: , Longitude: Grid Converg	gence:		32° 16' 4.386302 N 103° 45' 14.322166 W 0.31 °
Well	CAL-M	ON MDP1 35	FED 2H	· · · · · · · · · · · · · · · · · · ·						
Well Position	+N/-S +E/-W	-16 14	6.38 ft 0.94 ft	Northing: Easting:		461,506.62 720,548.75	2 usft Lati 5 usft Lor	itude: igitude:		32° 16' 2.732458 N 103° 45' 12.691259 W
Position Uncertain	ty		0.00 ft	Wellhead Ele	vation:	3,458	.40 ft Gro	ound Level:		3,458.40 ft
Wellbore	WB00									
Magnetics	Мо	del Name	San	nple Date	Declina (°)	ition	Dip A (°	ingle)	Field (Strength nT)
		HDGM		2/21/2018		6.88		60.02		48,099
Design	Permit	ting Plan								
Audit Notes:										
Version:			PI	nase:	PROTOTYPE	Ti	ie On Depth:		0.00	
Vertical Section:		D	epth From (ft)	(TVD)	+N/-S (ft)	+	E/-W (ft)	Dire	ection (°)	
			0.00		0.00	(00.00	17	7.93	
Plan Sections				·						··· ·· · · · · · · · · · · · · · · · ·
Measured Depth Incl (ft)	ination (°)	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	0.0	0.00	0.00	0.00	0.00	0.00	0.00	
7,515.00	0.00	0.00	7,515.0	0.00	0.00	0.00	0.00	0.00	0.00	
8,014.67	9.99	32.80	8,012.1	4 36.53	3 23.55	2.00	2.00	0.00	32.80	
9,074.61	9.99	32.80	9,056.0	191.14	123.20	0.00	0.00	0.00	0.00	0-114-2 1000/ 10
9,574.28	0.00	179.69	9,553.1	4 227.67	146.75	2.00	-2.00	0.00	180.00	Cal-Mon_MDP1_35
10,473.28 14,953.44	89.90 89.95	179.69	10,126.1	0 -344.28	5 149.87 5 174.33	0.00	0.00	0.00	0.00	Cal-Mon_MDP1_35

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Planning Report

Database: Company:	HOPSPP ENGINEERING DESIGNS
Project: Site:	PRD NM DIRECTIONAL PLANS (NAD 1983) CAL-MON MDP1 35 FED
Well:	CAL-MON MDP1 35 FED 2H
Wellbore:	WB00
Design:	Permitting Plan

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well CAL-MON MDP1 35 FED 2H DATUM @ 3484.90ft DATUM @ 3484.90ft Grid Minimum Curvature

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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 1,600.00 1,700.00 1,800.00 1,800.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,500.00 1,600.00 1,700.00 1,800.00 1,900.00	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 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
2,000.00 2,100.00 2,200.00 2,300.00 2,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	2,000.00 2,100.00 2,200.00 2,300.00 2,400.00	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 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
2,500.00 2,600.00 2,700.00 2,800.00 2,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	2,500.00 2,600.00 2,700.00 2,800.00 2,900.00	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 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
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 3,600.00 3,700.00 3,800.00 3,800.00 3,900.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	3,500.00 3,600.00 3,700.00 3,800.00 3,900.00	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 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
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

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Planning Report

Database:	HOPSPP
Company:	ENGINEERING DESIGNS
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)
Site:	CAL-MON MDP1 35 FED
Well:	CAL-MON MDP1 35 FED 2H
Wellbore:	WB00
Design:	Permitting Plan

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well CAL-MON MDP1 35 FED 2H DATUM @ 3484.90ft DATUM @ 3484.90ft Grid Minimum Curvature

Pla	nne	d S	urvev

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 5,600.00 5,700.00 5,800.00 5,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,500.00 5,600.00 5,700.00 5,800.00 5,900.00	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 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	
6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	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 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	
6,500.00 6,600.00 6,700.00 6,800.00 6,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,500.00 6,600.00 6,700.00 6,800.00 6,900.00	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 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	
7,000.00 7,100.00 7,200.00 7,300.00 7,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	7,000.00 7,100.00 7,200.00 7,300.00 7,400.00	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 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	
7,500.00 7,515.00 7,600.00 7,700.00 7,800.00	0.00 0.00 1.70 3.70 5.70	0.00 0.00 32.80 32.80 32.80	7,500.00 7,515.00 7,599.99 7,699.87 7,799.53	0.00 0.00 1.06 5.02 11.91	0.00 0.00 0.68 3.24 7.67	0.00 0.00 -1.03 -4.90 -11.62	0.00 0.00 2.00 2.00 2.00	0.00 0.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00	
7,900.00 8,000.00 8,014.67 8,100.00 8,200.00	7.70 9.70 9.99 9.99 9.99	32.80 32.80 32.80 32.80 32.80 32.80	7,898.84 7,997.69 8,012.14 8,096.18 8,194.66	21.71 34.43 36.53 48.98 63.57	13.99 22.19 23.55 31.57 40.97	-21.19 -33.60 -35.66 -47.81 -62.05	2.00 2.00 2.00 0.00 0.00	2.00 2.00 2.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
8,300.00 8,400.00 8,500.00 8,600.00 8,700.00	9.99 9.99 9.99 9.99 9.99 9.99	32.80 32.80 32.80 32.80 32.80	8,293.14 8,391.62 8,490.11 8,588.59 8,687.07	78.15 92.74 107.33 121.91 136.50	50.37 59.78 69.18 78.58 87.98	-76.28 -90.52 -104.76 -118.99 -133.23	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	
8,800.00 8,900.00 9,000.00 9,074.61 9,100.00	9.99 9.99 9.99 9.99 9.99 9.49	32.80 32.80 32.80 32.80 32.80	8,785.56 8,884.04 8,982.52 9,056.00 9,081.02	151.08 165.67 180.26 191.14 194.75	97.38 106.78 116.19 123.20 125.53	-147.47 -161.71 -175.94 -186.56 -190.09	0.00 0.00 0.00 0.00 2.00	0.00 0.00 0.00 0.00 -2.00	0.00 0.00 0.00 0.00 0.00	
9,200.00 9,300.00 9,400.00 9,500.00 9,574.28	7.49 5.49 3.49 1.49 0.00	32.80 32.80 32.80 32.80 179.69	9,179.92 9,279.28 9,378.97 9,478.87 9,553.14	207.15 216.64 223.22 226.86 227.67	133.52 139.64 143.88 146.23 146.75	-202.19 -211.46 -217.88 -221.43 -222.22	2.00 2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00 0.00	
9,600.00 9,700.00 9,800.00 9,900.00 10,000.00	2.57 12.57 22.57 32.57 42.57	179.69 179.69 179.69 179.69 179.69 179.69	9,578.85 9,677.85 9,773.07 9,861.60 9,940.75	227.10 213.94 183.78 137.56 76.66	146.75 146.82 146.99 147.24 147.57	-221.65 -208.49 -178.36 -132.15 -71.28	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00	
10,100.00 10,200.00 10,300.00	52.57 62.57 72.57	179.69 179.69 179.69	10,008.14 10,061.69 10,099.80	2.94 -81.36 -173.67	147.98 148.44 148.94	2.40 86.66 178.94	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00	

Oxy Planning Report

Database:	HOPSPP
Company:	ENGINEERING DESIGNS
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)
Site:	CAL-MON MDP1 35 FED
Well:	CAL-MON MDP1 35 FED 2H
Wellbore:	WB00
Design:	Permitting Plan

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Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well CAL-MON MDP1 35 FED 2H DATUM @ 3484.90ft DATUM @ 3484.90ft Grid Minimum Curvature

Planned Survey									
Measured Depth (ft)	d Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,400.0	00 82.57	179.69	10,121.29	-271.20	149.47	276.43	10.00	10.00	0.00
10,473.2	28 89.90	179.69	10,126.10	-344.28	149.87	349.46	10.00	10.00	0.00
10,500.0	00 89.90	179.69	10,126.14	-370.99	150.02	376.17	0.00	0.00	0.00
10,600.0	00 89.90	179.69	10,126.32	-470.99	150.56	476.12	0.00	0.00	0.00
10,700.0	00 89.90	179.69	10,126.49	-570.99	151.11	576.08	0.00	0.00	0.00
10,800.0	00 89.90	179.69	10,126.66	-670.99	151.65	676.03	0.00	0.00	0.00
10,900.0	00 89.90	179.69	10,126.83	-770.99	152.20	115.98	0.00	0.00	0.00
11,000.0	00 89.91	179.69	10,126.99	-870.99	152.75	875.93	0.00	0.00	0.00
11,100.0	00 89.91	179.69	10,127.16	-970.98	153.29	975.89	0.00	0.00	0.00
11,200.0	00 89.91 00 89.91	179.09	10,127.32	-1,070.98	154 38	1 175 79	0.00	0.00	0.00
11,400.	00 89.91	179.69	10,127.64	-1.270.98	154.93	1,275.75	0.00	0.00	0.00
11 500 1	00 80.01	170.60	10 127 70	1 270 09	155 / 8	1 375 70	0.00	0.00	0.00
11,500.1	00 89.91	179.69	10,127.79	-1,370.98	156.02	1,375.70	0.00	0.00	0.00
11,700.0	00 89.91	179.69	10,128.10	-1.570.98	156.57	1,575.60	0.00	0.00	0.00
11,800.0	00 89.91	179.69	10,128.25	-1,670.97	157.11	1,675.56	0.00	0.00	0.00
11,900.0	00 89.91	179.69	10,128.40	-1,770.97	157.66	1,775.51	0.00	0.00	0.00
12,000.0	00 89.92	179.69	10,128.55	-1,870.97	158.21	1,875.46	0.00	0.00	0.00
12,100.0	00 89.92	179.69	10,128.70	-1,970.97	158.75	1,975.42	0.00	0.00	0.00
12,200.0	00 89.92	179.69	10,128.84	-2,070.97	159.30	2,075.37	0.00	0.00	0.00
12,300.0	00 89.92	179.69	10,128.98	-2,170.97	159.84	2,175.32	0.00	0.00	0.00
12,400.0	00 89.92	179.69	10,129.12	-2,270.96	160.39	2,275.27	0.00	0.00	0.00
12,500.	00 89.92	179.69	10,129.26	-2,370.96	160.94	2,375.23	0.00	0.00	0.00
12,600.0	00 89.92	179.69	10,129.40	-2,470.96	161.48	2,475.18	0.00	0.00	0.00
12,700.0	00 89.92 00 89.92	179.09	10,129.55	-2,570.96	162.03	2,575.13	0.00	0.00	0.00
12,900.0	00 89.93	179.69	10,129.80	-2,770.96	163.12	2,775.04	0.00	0.00	0.00
13,000 (nn 80.03	170.60	10 120 03	-2 870 95	163.67	2 87/ 99	0.00	0.00	0.00
13,000.	00 89.93	179.69	10,129.95	-2.970.95	164.21	2,974.95	0.00	0.00	0.00
13,200.0	00 89.93	179.69	10,130.18	-3,070.95	164.76	3,074.90	0.00	0.00	0.00
13,300.0	00 89.93	179.69	10,130.31	-3,170.95	165.30	3,174.85	0.00	0.00	0.00
13,400.0	00 89.93	179.69	10,130.43	-3,270.95	165.85	3,274.80	0.00	0.00	0.00
13,500.0	00 89.93	179.69	10,130.55	-3,370.95	166.39	3,374.76	0.00	0.00	0.00
13,600.	00 89.93	179.69	10,130.67	-3,470.95	166.94	3,474.71	0.00	0.00	0.00
13,700.0	00 89.93	179.69	10,130.79	-3,570.94	167.49	3,574.66	0.00	0.00	0.00
13,800.0	00 89.93	179.69	10,130.90	-3,670.94	168.03	3,674.62	0.00	0.00	0.00
10,000.	00 00.04	175.05	10,101.02	-0,770.04	100.00	0,074.00	0.00	0.00	0.00
14,000.	00 89.94	179.69	10,131.13	-3,870.94	169.12	3,874.52	0.00	0.00	0.00
14,100.1	00 89.94	179.09	10,131.24	-3,970.94 -4 070 94	170 22	4 074 43	0.00	0.00	0.00
14,300,	00 89.94	179.69	10,131.45	-4,170.93	170.76	4,174.38	0.00	0.00	0.00
14,400.0	00 89.94	179.69	10,131.56	-4,270.93	171.31	4,274.33	0.00	0.00	0.00
14.500	00 89.94	179.69	10,131.66	-4,370.93	171.85	4,374.29	0.00	0.00	0.00
14,600.	00 89.94	179.69	10,131.76	-4,470.93	172.40	4,474.24	0.00	0.00	0.00
14,700.0	00 89.94	179.69	10,131.86	-4,570.93	172.95	4,574.19	0.00	0.00	0.00
14,800.0	00 89.94	179.69	10,131.95	-4,670.93	173.49	4,674.15	0.00	0.00	0.00
14,900.0	00 89.95	179.69	10,132.05	-4,770.93	174.04	4,774.10	0.00	0.00	0.00
14,953.	44 89.95	179.69	10,132.10	-4,824.36	174.33	4,827.51	0.00	0.00	0.00

Oxy Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	HOI ENC PRI CAL CAL WB Peri	PSPP GINEERII D NM DIR MON M MON M 00 mitting Pl	NG DESIGN RECTIONAL DP1 35 FEI DP1 35 FEI an	NS . PLANS (NA D D 2H	\D 1983)	Local Co- TVD Refe MD Refer North Ref Survey C	ordinate Reference rence: ence: ference: alculation Method:	: Well CA DATUM DATUM Grid Minimu	AL-MON MDP1 35 FEI 1 @ 3484.90ft 1 @ 3484.90ft m Curvature	D 2H
Design Targets									POR ENTRE LA CONSTRUCTION OF A P. CONSTRUCT	"Mild II daar daa dalamaati kaayaya oo oo ahayaa ahayaa ahayaa ah
Target Name - hit/miss target - Shape	Dij	p Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Cal-Mon_MDP1_35_F - plan hits target c - Point	enter	0.00	0.00	9,553.14	227.67	146.75	461,734.28	720,695.49	32° 16' 4.977417 N	103° 45' 10.967887
Cal-Mon_MDP1_35_F - plan hits target c - Point	enter	0.00	0.00	10,132.10	-4,824.36	174.33	456,682.53	720,723.07	32° 15' 14.986361 N	103° 45' 10.964755
Plan Annotations									t v s kommen forsker af er er bester for er er bester er er er bester er er er bester er er er bester er er er	
Measu	uredi	Ver	tical	Local	Coordinate	s				:
Dep (ft)	th)	De (1	pth ft)	+N/-S (ft)	+	E/-W (ft)	Comment			
7,5	15.00) 7,	515.00	0.0	00	0.00	STEP OUT DLS 2.0	00		1
8,01	14.67	8,0	012.14	36.5	53	23.55	HOLD 10 DEG TAN	IGENT		
9,0	74.61	9,0	056.00	191.1	4	123.20	DROP BACK TO V	ERTICAL DLS	\$ 2.00	
9,5	74.28	9,	553.14	227.6	57	146.75	BUILD CURVE 10 I	DEG / 100		
10,47	73.28	3 1 0,	126.10	-344.2	28	149.87	LANDING POINT			
14,9	53.44	l 10,	132.10	-4,824.3	36	174.33	TD at 14953.44			

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1. Geologic Formations

TVD of target	10132'	Pilot Hole Depth	N/A
MD at TD:	14953'	Deepest Expected fresh water:	708'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	708	Brine
Salado	1003	Brine/Losses
Castile	2908	
Lamar/Delaware	4382	
Bell Canyon	4423	Brine
Cherry Canyon	5180	Oil/Gas
Brushy Canyon	6550	Oil/Gas
Bone Spring	8239	Oil/Gas
1st Bone Spring	9315	Oil/Gas
2nd Bone Spring	9560	Oil/Gas

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

2. Casing Program

Hole Size	Casing In	terval	Csg. Size	Weight	0	0	SF	SF	Body SF	Joint SF
(in)	From (ft)	To (ft)	(in)	(lbs)	Grade	Conn.	Collapse	Burst	Tension	Tension
17.5	0	758 201	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	4432	9.625	43.5	L-80	BTC	1.125	1.2	1.4	1,4
8.5	0	14953	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
L							SF V	alues will	meet or Ex	ceed

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h *OXY requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage we will drop a cancelation cone and not pump the second stage.

	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

OXY USA Inc. - Cal-Mon MDP1 35 Federal 2H – Amended Drill Plan

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?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
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

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description		
Surface	732	14.2	1.68	6.53	6:50	Class C Cement, Accelerator		
I down diede	1277	12.9	1.74	8.67	15:07	Pozzolan Cement, Retarder, Salt		
Intermediate	158	14.8	1.326	6.34	6:31	Class C Cement, Retarder, Salt		
Production (1st Stage)	259	13.2	1.57	7.43	9:23	Class H Cement, Retarder, Dispersant		
	1007	13.2	1.61	8.08	14:44	Class H Cement, Retarder, Dispersant, Salt		
Pumped as Bradenhead squeeze from surface down annulus. Oxy requests to pump a contingency tail slurry ahead of the lead slurry at our discretion.								
Production (Squeeze)	1133	12.9	1.78	9.10	4:55	Class C Cement, Retarder, Salt		

Casing String	Top of Le ad (ft)	Bottom of Lead (ft)	Top of Tail (ft)	Bottom of Tail (ft)	% Excess Lead	% Excess Tail
Surface	N/A	N/A	0	758	N/A	100%
Intermediate	0	3932	3932	4432	75%	20%
Production (1st Stage)	6550	8239	8239	14953	5%	5%
Production (Squeeze)	N/A	N/A	0	6550	N/A	25%

OXY proposes a 2-stage production cement job as follows: -PSEE COA

- Stage 1: Cement TD to Top of Brushy Canyon
- Stage 2: Bradenhead squeeze with planned cement column from top of Brushy to surface (KPLA / R-111P)

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		4	Tested to:															
12.25" Hole	13-5/8"	5M	Annular	r	4	70% of working pressure															
			Blind Ram	m	✓																
			5101	5101	5101	5101	5101	5101	5101	5111	5111	5111	5101	5171	5111	5101	, 5101	Pipe Rar	n		250/5000
			Double R	am	✓	230/3000psi															
			Other*]															

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.						
A vari	ance is requested for the use of a flexible choke line from the BOP to Choke					
Manif	old. See attached for specs and hydrostatic test chart.					
Y	Are anchors required by manufacturer?					
A mul and co per Or requir system that is rotary	tibowl or a unionized multibowl wellhead system will be employed. The wellhead onnection to the BOPE will meet all API 6A requirements. The BOP will be tested ashore Order #2 after installation on the surface casing which will cover testing ements for a maximum of 30 days. If any seal subject to test pressure is broken the n must be tested. We will test the flange connection of the wellhead with a test port directly in the flange. We are proposing that we will run the wellhead through the prior to cementing surface casing as discussed with the BLM on October 8, 2015.					
 See at	tached schematics.					

5. Mud Program

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Depth From (ft) To (ft)			Woight		
		Туре	(ppg)	Viscosity	Water Loss
0	758	Water-Based Mud	8.4-8.6	40-60	N/C
758	4432	Brine	9.8-10.0	35-45	N/C
4432	9574	Water-Based Mud or Oil-Based Mud	8.2-9.2	38-50	N/C
9574	14953	Oil-Based Mud	8.2-9.2	35-50	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	PVT/MD Totco/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	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					

Addi	tional logs planned	Interval	
No	Resistivity		
No	Density		
No	CBL		
Yes	Mud log	ICP - TD	
No	PEX		

7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	5058 psi	
Abnormal Temperature	No	
BH Temperature at deepest TVD	162°F	

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Ŷ	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	Yes
• We plan to drill the two 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.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	Yes
• 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.	

Total estimated cuttings volume: <u>1499.5 bbls</u>.

9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Philippe Haffner	Drilling Engineer	713-985-6379	832-767-9047
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417





OAnjelico/2018/Dxy USA inc/Eosements/18110209 Flow Line to the Cal Mari 35 Fed \$1H & \$2H Wells in Sec 35, 7235, R31E



OAnjelica/2018/Dxy USA Inc/Easements/18110209 Flow Line to the Col-Non 35 Fed MH & #2H Wells in Sec 35, 1235, R31E



@Anjelico/2018/Oxy USA Inc/Easements/18110210 Gas Lift ROW to the NEW Col-Mon 35 #1H & 12H Wells in Secs 26 & 35, 1235, R31E



@Anjelica/2018/Oxy USA inc/Easements/18110210 Gas 1-11 ROW to the NEW Cal-Mon 35 1714 & 124 Wets in Secs 26 & 35, 1235, R316



C Anjelica/2018/Oxy USA inc/Cosements/16110211 in Line Poles on Elec Ln to the Cal Man 35 Fed #1H & 12H in Secs 26 & 35, 1235, R311

VICINITY MAP



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LOCATION VERIFICATION MAP





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f.**B**:





Surface Use Plan of Operations

Operator Name/Number:OXY USA Inc. - 16696Lease Name/Number:Cal-Mon MDP1 35 Federal #2HPool Name/Number:Cotton Draw Bone SpringSurface Location:277 FNL 1112 FWL NWNW (D) Sec 35 T23S R31E - NMNM19199Bottom Hole Location:180 FSL 1260 FWL SWSW (M) Sec 35 T23S R31E - NMNM19199

*Due to buried pipeline, flowlines and meter runs, the surface location was moved 167' south and 110' east.

1. Existing Roads

- a. A copy of the USGS "Los Medanos, NM" quadrangle map is attached showing the proposed location. The well location is spotted on the map, which shows the existing road system.
- b. The well was staked by Terry J Asel, Certificate No. 15079 on 2/15/18, certified 2/21/18.
- c. Directions to Location: From the intersection of SH 128 and CR 798, go northwest on SH 128 for 0.8 miles. Turn right on caliche road and go north for 0.4 miles. Turn left and go west for 0.2 miles. Turn right on proposed road and go north for 57' to location.

2. New or Reconstructed Access Roads:

- a. A new access road will be built. The access road will run approximately 57' north through pasture to the southwest corner of the pad.
- b. The maximum width of the road will be 14'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. Turnouts are planned every 1000' as needed.
- e. Blade, water and repair existing caliche roads as needed.
- f. Water Bars will be incorporated every 200' during the construction of the road.

3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on attached plat.

4. Location of Existing and/or Proposed Facilities:

- a. In the event the well is found productive, the Cal-Mon 35 Federal central tank battery would be utilized and the necessary production equipment will be installed at the well site. See proposed facilities layout diagram.
- b. All flow lines will adhere to API standards. They will consist of 3 4" composite flowlines operating < 75% MAWP, surface and 1 4" composite gas lift supply line operating <1500 psig, buried, lines to follow surveyed route. Survey of a strip of land 30' wide and 1174.4' in length crossing Fee Land in Section 26 T23S R31E NMPM and 425.6' in length crossing USA Land in Section 35, T23S, R31E, NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey, see attached.</p>
- c. Electric line will follow a route approved by the BLM. Survey of a strip of land 30' wide and 34.8' in length crossing USA Land in Section 35 T23S R31E NMPM, Eddy County, NM and being 15' left and 15' right of the centerline survey, see attached.

d. See attached for additional information on the Cal-Mon Development Surface Production Facilities

5. Location and types of Water Supply

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads. See attached for information on the fresh water station.

6. Construction Materials:

Primary

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available.

Secondary

The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- a. The top 6" of topsoil is pushed off and stockpiled along the side of the location.
- b. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- c. Subsoil is removed and piled alongside the 120' X 120' within the pad site.
- d. When caliche is found, material will be stockpiled within the pad site to build the location and road.
- e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the attached plat.

7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-Laguna
- b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pickup slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility
- 8. Ancillary Facilities: None needed.

9. Well Site Layout:

The well site layout with dimensions of the pad layout and equipment location.

V-Door - East CL Tanks - North Pad - 330' X 440' - Two Well Pad

10. Plans for Surface Reclamation:

a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original topsoil will again be returned to the pad and contoured, as close as

possible, to the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

 b. If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

11. Surface Ownership:

The surface is owned by the U.S. Government and is administered by the BLM. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The surface is leased to: JR Engineering & Construction, P.O. Box 487, Carlsbad, NM 88221. They will be notified of our intention to drill prior to any activity.

12. Other Information:

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within one mile of the proposed well site.
- d. Cultural Resources Examination–This well is located in the Permian Basin PA, payment was made 7/20/17, receipt number 3896926. This well shares the same pad as the Cal-Mon MDP1 35 Federal #1H.

Pad + ¼ mile road	<u>\$1550.00</u>	\$.24/ft over 1/4 mile	<u>\$0.00</u>	\$1550.00
Pipeline-up to 1 mile	<u>\$1431.00</u>	\$.27/ft over 1 mile	<u>\$ 0.00</u>	\$1431.00
Electric Line-up to 1 mile	\$717.00	\$.11/ft over 1 mile	<u>\$ 0.00</u>	<u>\$ 717.00</u>
Total	<u>\$3698.00</u>		<u>\$0.00</u>	<u>\$3698.00</u>

e. Copy of this application has been mailed to SWCA Environmental Consultants, 5647 Jefferson St. NE, Albuquerque, NM 87109. No Potash leases within one mile of surface location.

13. Bond Coverage:

Bond coverage is Individual-NMB000862, Nationwide-ESB00226.

14. Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below:

Van Barton	Corrie Hartman	
Supt. Operations	Manager Asset	
1502 West Commerce Dr.	P.O. Box 4294	
Carlsbad, NM 88220	Houston, TX Carlsbad, NM 88220	
Office – 575-628-4111	Office - 713-215-7084	
Cellular – 575-706-7671	Cellular – 832-541-3190	
Jim Wilson	Cuong Q. Phan	
Operation Specialist	RMT Leader	
P.O. Box 50250	P.O. Box 4294	
Midland, TX 79710	Houston, TX 77210	
Cellular - 575-631-2442	Office - 713-513-6645	
	Cellular – 281-832-0978	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Oxy USA Incorporated
LEASE NO.:	NMNM19199
WELL NAME & NO.:	Cal-Mon MDPI 35 Federal 2H
SURFACE HOLE FOOTAGE:	277'/N & 1112'/W
BOTTOM HOLE FOOTAGE	180'/S & 1260'/W
LOCATION:	Section 35, T. 23 S., R. 31 E., NMPM
COUNTY:	Eddy County, New Mexico

Potash		Secretary	☞ R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Variance	C None	✤ Flex Hose	• Other
Wellhead	Conventional	Multibowl	
Other	□4 String Area	Capitan Reef	□WIPP

All previous COAs still apply except for the following:

A. CASING

- 1. The minimum required fill of cement behind the 5 1/2 inch production casing is:
 - Cement to surface. Operator shall provide method of verification.

Operator is approved to perform bradenhead squeeze. Operator must run a CBL from TD of the 5 1/2" casing to surface and submit result to BLM.

MHH03212018

GENERAL REQUIREMENTS

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log.
- <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.