

Submit a Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-52118
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 330703
7. Lease Name or Unit Agreement Name SENILE FELINES 18_7 STATE COM
8. Well Number 13H
9. OGRID Number 16696
10. Pool name or Wildcat RED TANK, BONE SPRING, EAST

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator OXY USA INC.	
3. Address of Operator 5 GREENWAY PLAZA, STE 110, HOUSTON TEXAS	
4. Well Location Unit Letter <u>O</u> : <u>340</u> feet from the <u>SOUTH</u> line and <u>1500</u> feet from the <u>EAST</u> line Section <u>18</u> Township <u>22S</u> Range <u>33E</u> NMPM County <u>LEA</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3631'	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

OXY USA, Inc. respectfully requests to amend the approved AAPD for Senile Felines 18_7 State Com 13H.

Revision: Update drill plan for 4S Slim + DWC Prod Casing.

Updated drill plan, directional survey, casing specs and wellhead diagram attached.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

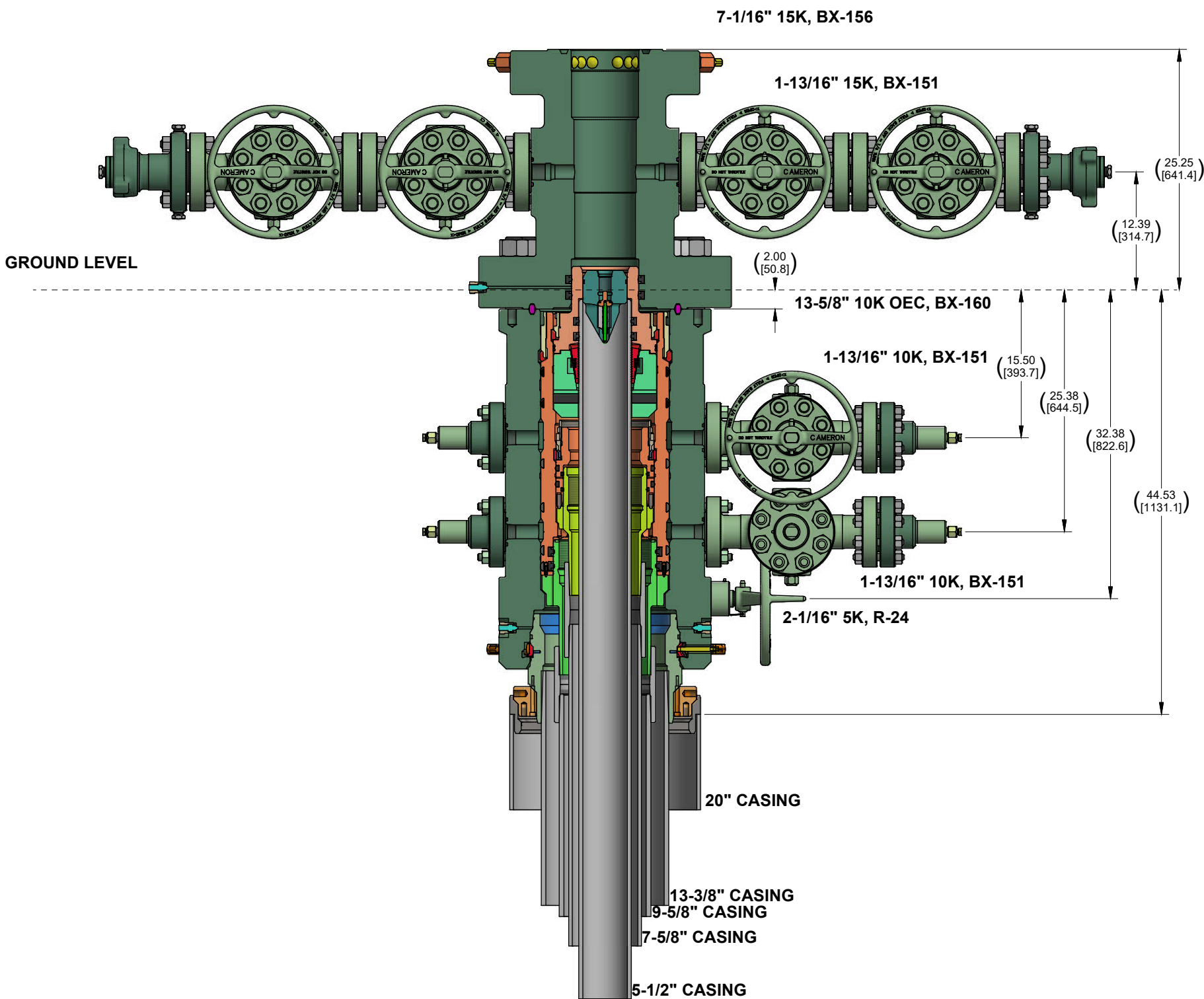
SIGNATURE Melissa Guidry TITLE REGULATORY ADVISOR SR DATE 12/11/24

Type or print name Melissa Guidry E-mail address: melissa_guidry@oxy.com PHONE: 713-497-2481

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):



CONFIDENTIAL						
SURFACE TREATMENT	DO NOT SCALE		 CAMERON A Schlumberger Company	SURFACE SYSTEMS		
MATERIAL & HEAT TREAT	DRAWN BY:	DATE	OXY ADAPT NST 10K 3 STAGE WELLHEAD STANDARD / EMERGENCY SYSTEM			
	A. SKLENKA	26 Apr 22				
	CHECKED BY:	DATE				
	A. SKLENKA	26 Apr 22				
	APPROVED BY:	DATE				
	A. SKLENKA	26 Apr 22				
	ESTIMATED WEIGHT:	7968.4 LBS 3614.4 KG		INITIAL USE B/M: T# 7836394	SHEET 1 of 1	LO-096232-62
					REV: 0	INVENTOR: D



API BTC -Special Clearance

Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Type	Casing
Connection OD Option	Special Clearance				

Pipe Body Data

Geometry				Performance	
Nominal OD	10.750 in.	Drift	9.875 in.	SMYS	80,000 psi
Wall Thickness	0.400 in.	Plain End Weight	44.26 lb/ft	Min UTS	95,000 psi
Nominal Weight	45.500 lb/ft	OD Tolerance	API	Body Yield Strength	1040 x1000 lb
Nominal ID	9.950 in.			Min. Internal Yield Pressure	5210 psi
				Collapse Pressure	2950 psi
				Max. Allowed Bending	34 °/100 ft

Connection Data

Geometry		Performance	
Thread per In	5	Joint Strength	1041 x1000 lb
Connection OD	11.250 in.	Coupling Face Load	478 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	4150 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Senile Felines 18_7

Senile Felines 18_7 State Com 13H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

04 December, 2024

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3656.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3656.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Senile Felines 18_7		
Site Position:		Northing:	504,962.34 usft
From:	Map	Easting:	763,528.05 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.386155
		Longitude:	-103.613537

Well	Senile Felines 18_7 State Com 13H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.39 °		
		Latitude:	32.385530
		Longitude:	-103.607926
		Ground Level:	3,631.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/4/2024	6.15	59.93	47,448.00000000

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	354.28

Plan Survey Tool Program	Date	12/4/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,811.02	Permitting Plan (Wellbore #1)	B005Mc_MWD+HRGM+SA
				MWD+HRGM+Sag+MSA

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	
4,960.00	0.00	0.00	4,960.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,459.86	15.00	249.61	6,442.79	-68.02	-182.96	1.00	1.00	0.00	249.61	
8,944.06	15.00	249.61	8,842.36	-292.06	-785.56	0.00	0.00	0.00	0.00	
9,894.69	90.00	359.55	9,447.00	277.43	-942.36	10.00	7.89	11.56	109.31	
19,811.69	90.00	359.55	9,447.00	10,194.12	-1,020.98	0.00	0.00	0.00	0.00	PBHL (Senile)

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3656.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3656.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,960.00	0.00	0.00	4,960.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.40	249.61	5,000.00	-0.05	-0.13	-0.04	1.00	1.00	0.00
5,100.00	1.40	249.61	5,099.99	-0.60	-1.60	-0.43	1.00	1.00	0.00
5,200.00	2.40	249.61	5,199.93	-1.75	-4.71	-1.27	1.00	1.00	0.00
5,300.00	3.40	249.61	5,299.80	-3.51	-9.45	-2.55	1.00	1.00	0.00

OXY

Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3656.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3656.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	4.40	249.61	5,399.57	-5.88	-15.83	-4.28	1.00	1.00	0.00
5,500.00	5.40	249.61	5,499.20	-8.86	-23.83	-6.44	1.00	1.00	0.00
5,600.00	6.40	249.61	5,598.67	-12.44	-33.47	-9.05	1.00	1.00	0.00
5,700.00	7.40	249.61	5,697.94	-16.63	-44.73	-12.09	1.00	1.00	0.00
5,800.00	8.40	249.61	5,796.99	-21.42	-57.61	-15.57	1.00	1.00	0.00
5,900.00	9.40	249.61	5,895.79	-26.81	-72.11	-19.49	1.00	1.00	0.00
6,000.00	10.40	249.61	5,994.30	-32.80	-88.23	-23.85	1.00	1.00	0.00
6,100.00	11.40	249.61	6,092.49	-39.39	-105.95	-28.64	1.00	1.00	0.00
6,200.00	12.40	249.61	6,190.34	-46.58	-125.28	-33.86	1.00	1.00	0.00
6,300.00	13.40	249.61	6,287.82	-54.36	-146.20	-39.52	1.00	1.00	0.00
6,400.00	14.40	249.61	6,384.89	-62.73	-168.72	-45.60	1.00	1.00	0.00
6,459.86	15.00	249.61	6,442.79	-68.02	-182.96	-49.45	1.00	1.00	0.00
6,500.00	15.00	249.61	6,481.56	-71.64	-192.70	-52.08	0.00	0.00	0.00
6,600.00	15.00	249.61	6,578.15	-80.66	-216.95	-58.64	0.00	0.00	0.00
6,700.00	15.00	249.61	6,674.75	-89.68	-241.21	-65.20	0.00	0.00	0.00
6,800.00	15.00	249.61	6,771.34	-98.70	-265.47	-71.75	0.00	0.00	0.00
6,900.00	15.00	249.61	6,867.93	-107.72	-289.72	-78.31	0.00	0.00	0.00
7,000.00	15.00	249.61	6,964.53	-116.74	-313.98	-84.86	0.00	0.00	0.00
7,100.00	15.00	249.61	7,061.12	-125.75	-338.24	-91.42	0.00	0.00	0.00
7,200.00	15.00	249.61	7,157.71	-134.77	-362.50	-97.98	0.00	0.00	0.00
7,300.00	15.00	249.61	7,254.31	-143.79	-386.75	-104.53	0.00	0.00	0.00
7,400.00	15.00	249.61	7,350.90	-152.81	-411.01	-111.09	0.00	0.00	0.00
7,500.00	15.00	249.61	7,447.49	-161.83	-435.27	-117.65	0.00	0.00	0.00
7,600.00	15.00	249.61	7,544.09	-170.85	-459.53	-124.20	0.00	0.00	0.00
7,700.00	15.00	249.61	7,640.68	-179.87	-483.78	-130.76	0.00	0.00	0.00
7,800.00	15.00	249.61	7,737.27	-188.88	-508.04	-137.32	0.00	0.00	0.00
7,900.00	15.00	249.61	7,833.87	-197.90	-532.30	-143.87	0.00	0.00	0.00
8,000.00	15.00	249.61	7,930.46	-206.92	-556.56	-150.43	0.00	0.00	0.00
8,100.00	15.00	249.61	8,027.05	-215.94	-580.81	-156.99	0.00	0.00	0.00
8,200.00	15.00	249.61	8,123.65	-224.96	-605.07	-163.54	0.00	0.00	0.00
8,300.00	15.00	249.61	8,220.24	-233.98	-629.33	-170.10	0.00	0.00	0.00
8,400.00	15.00	249.61	8,316.83	-243.00	-653.58	-176.65	0.00	0.00	0.00
8,500.00	15.00	249.61	8,413.43	-252.02	-677.84	-183.21	0.00	0.00	0.00
8,600.00	15.00	249.61	8,510.02	-261.03	-702.10	-189.77	0.00	0.00	0.00
8,700.00	15.00	249.61	8,606.61	-270.05	-726.36	-196.32	0.00	0.00	0.00
8,800.00	15.00	249.61	8,703.21	-279.07	-750.61	-202.88	0.00	0.00	0.00
8,900.00	15.00	249.61	8,799.80	-288.09	-774.87	-209.44	0.00	0.00	0.00
8,944.06	15.00	249.61	8,842.36	-292.06	-785.56	-212.32	0.00	0.00	0.00
9,000.00	14.15	271.72	8,896.54	-294.38	-799.19	-213.27	10.00	-1.52	39.53
9,100.00	17.56	306.82	8,992.94	-284.95	-823.54	-201.46	10.00	3.42	35.10
9,200.00	24.75	326.43	9,086.25	-258.40	-847.25	-172.68	10.00	7.19	19.61
9,300.00	33.36	337.05	9,173.64	-215.53	-869.61	-127.79	10.00	8.60	10.62
9,400.00	42.52	343.60	9,252.46	-157.65	-889.92	-68.18	10.00	9.16	6.55
9,500.00	51.95	348.17	9,320.30	-86.51	-907.57	4.36	10.00	9.43	4.57
9,600.00	61.51	351.69	9,375.12	-4.29	-922.03	87.62	10.00	9.56	3.51
9,700.00	71.14	354.61	9,415.23	86.53	-932.85	179.07	10.00	9.64	2.92
9,800.00	80.82	357.21	9,439.43	183.19	-939.71	275.92	10.00	9.68	2.60
9,894.69	90.00	359.55	9,447.00	277.43	-942.36	369.96	10.00	9.69	2.46
9,900.00	90.00	359.55	9,447.00	282.74	-942.41	375.25	0.00	0.00	0.00
10,000.00	90.00	359.55	9,447.00	382.74	-943.20	474.83	0.00	0.00	0.00
10,100.00	90.00	359.55	9,447.00	482.73	-943.99	574.40	0.00	0.00	0.00
10,200.00	90.00	359.55	9,447.00	582.73	-944.78	673.98	0.00	0.00	0.00
10,300.00	90.00	359.55	9,447.00	682.73	-945.58	773.56	0.00	0.00	0.00
10,400.00	90.00	359.55	9,447.00	782.72	-946.37	873.14	0.00	0.00	0.00
10,500.00	90.00	359.55	9,447.00	882.72	-947.16	972.72	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3656.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3656.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00	90.00	359.55	9,447.00	982.72	-947.96	1,072.29	0.00	0.00	0.00
10,700.00	90.00	359.55	9,447.00	1,082.71	-948.75	1,171.87	0.00	0.00	0.00
10,800.00	90.00	359.55	9,447.00	1,182.71	-949.54	1,271.45	0.00	0.00	0.00
10,900.00	90.00	359.55	9,447.00	1,282.71	-950.33	1,371.03	0.00	0.00	0.00
11,000.00	90.00	359.55	9,447.00	1,382.70	-951.13	1,470.61	0.00	0.00	0.00
11,100.00	90.00	359.55	9,447.00	1,482.70	-951.92	1,570.18	0.00	0.00	0.00
11,200.00	90.00	359.55	9,447.00	1,582.70	-952.71	1,669.76	0.00	0.00	0.00
11,300.00	90.00	359.55	9,447.00	1,682.70	-953.50	1,769.34	0.00	0.00	0.00
11,400.00	90.00	359.55	9,447.00	1,782.69	-954.30	1,868.92	0.00	0.00	0.00
11,500.00	90.00	359.55	9,447.00	1,882.69	-955.09	1,968.50	0.00	0.00	0.00
11,600.00	90.00	359.55	9,447.00	1,982.69	-955.88	2,068.07	0.00	0.00	0.00
11,700.00	90.00	359.55	9,447.00	2,082.68	-956.67	2,167.65	0.00	0.00	0.00
11,800.00	90.00	359.55	9,447.00	2,182.68	-957.47	2,267.23	0.00	0.00	0.00
11,900.00	90.00	359.55	9,447.00	2,282.68	-958.26	2,366.81	0.00	0.00	0.00
12,000.00	90.00	359.55	9,447.00	2,382.67	-959.05	2,466.39	0.00	0.00	0.00
12,100.00	90.00	359.55	9,447.00	2,482.67	-959.85	2,565.97	0.00	0.00	0.00
12,200.00	90.00	359.55	9,447.00	2,582.67	-960.64	2,665.54	0.00	0.00	0.00
12,300.00	90.00	359.55	9,447.00	2,682.66	-961.43	2,765.12	0.00	0.00	0.00
12,400.00	90.00	359.55	9,447.00	2,782.66	-962.22	2,864.70	0.00	0.00	0.00
12,500.00	90.00	359.55	9,447.00	2,882.66	-963.02	2,964.28	0.00	0.00	0.00
12,600.00	90.00	359.55	9,447.00	2,982.65	-963.81	3,063.86	0.00	0.00	0.00
12,700.00	90.00	359.55	9,447.00	3,082.65	-964.60	3,163.43	0.00	0.00	0.00
12,800.00	90.00	359.55	9,447.00	3,182.65	-965.39	3,263.01	0.00	0.00	0.00
12,900.00	90.00	359.55	9,447.00	3,282.65	-966.19	3,362.59	0.00	0.00	0.00
13,000.00	90.00	359.55	9,447.00	3,382.64	-966.98	3,462.17	0.00	0.00	0.00
13,100.00	90.00	359.55	9,447.00	3,482.64	-967.77	3,561.75	0.00	0.00	0.00
13,200.00	90.00	359.55	9,447.00	3,582.64	-968.57	3,661.32	0.00	0.00	0.00
13,300.00	90.00	359.55	9,447.00	3,682.63	-969.36	3,760.90	0.00	0.00	0.00
13,400.00	90.00	359.55	9,447.00	3,782.63	-970.15	3,860.48	0.00	0.00	0.00
13,500.00	90.00	359.55	9,447.00	3,882.63	-970.94	3,960.06	0.00	0.00	0.00
13,600.00	90.00	359.55	9,447.00	3,982.62	-971.74	4,059.64	0.00	0.00	0.00
13,700.00	90.00	359.55	9,447.00	4,082.62	-972.53	4,159.21	0.00	0.00	0.00
13,800.00	90.00	359.55	9,447.00	4,182.62	-973.32	4,258.79	0.00	0.00	0.00
13,900.00	90.00	359.55	9,447.00	4,282.61	-974.11	4,358.37	0.00	0.00	0.00
14,000.00	90.00	359.55	9,447.00	4,382.61	-974.91	4,457.95	0.00	0.00	0.00
14,100.00	90.00	359.55	9,447.00	4,482.61	-975.70	4,557.53	0.00	0.00	0.00
14,200.00	90.00	359.55	9,447.00	4,582.60	-976.49	4,657.10	0.00	0.00	0.00
14,300.00	90.00	359.55	9,447.00	4,682.60	-977.28	4,756.68	0.00	0.00	0.00
14,400.00	90.00	359.55	9,447.00	4,782.60	-978.08	4,856.26	0.00	0.00	0.00
14,500.00	90.00	359.55	9,447.00	4,882.60	-978.87	4,955.84	0.00	0.00	0.00
14,600.00	90.00	359.55	9,447.00	4,982.59	-979.66	5,055.42	0.00	0.00	0.00
14,700.00	90.00	359.55	9,447.00	5,082.59	-980.46	5,155.00	0.00	0.00	0.00
14,800.00	90.00	359.55	9,447.00	5,182.59	-981.25	5,254.57	0.00	0.00	0.00
14,900.00	90.00	359.55	9,447.00	5,282.58	-982.04	5,354.15	0.00	0.00	0.00
15,000.00	90.00	359.55	9,447.00	5,382.58	-982.83	5,453.73	0.00	0.00	0.00
15,100.00	90.00	359.55	9,447.00	5,482.58	-983.63	5,553.31	0.00	0.00	0.00
15,200.00	90.00	359.55	9,447.00	5,582.57	-984.42	5,652.89	0.00	0.00	0.00
15,300.00	90.00	359.55	9,447.00	5,682.57	-985.21	5,752.46	0.00	0.00	0.00
15,400.00	90.00	359.55	9,447.00	5,782.57	-986.00	5,852.04	0.00	0.00	0.00
15,500.00	90.00	359.55	9,447.00	5,882.56	-986.80	5,951.62	0.00	0.00	0.00
15,600.00	90.00	359.55	9,447.00	5,982.56	-987.59	6,051.20	0.00	0.00	0.00
15,700.00	90.00	359.55	9,447.00	6,082.56	-988.38	6,150.78	0.00	0.00	0.00
15,800.00	90.00	359.55	9,447.00	6,182.55	-989.18	6,250.35	0.00	0.00	0.00
15,900.00	90.00	359.55	9,447.00	6,282.55	-989.97	6,349.93	0.00	0.00	0.00
16,000.00	90.00	359.55	9,447.00	6,382.55	-990.76	6,449.51	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3656.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3656.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,100.00	90.00	359.55	9,447.00	6,482.54	-991.55	6,549.09	0.00	0.00	0.00
16,200.00	90.00	359.55	9,447.00	6,582.54	-992.35	6,648.67	0.00	0.00	0.00
16,300.00	90.00	359.55	9,447.00	6,682.54	-993.14	6,748.24	0.00	0.00	0.00
16,400.00	90.00	359.55	9,447.00	6,782.54	-993.93	6,847.82	0.00	0.00	0.00
16,500.00	90.00	359.55	9,447.00	6,882.53	-994.72	6,947.40	0.00	0.00	0.00
16,600.00	90.00	359.55	9,447.00	6,982.53	-995.52	7,046.98	0.00	0.00	0.00
16,700.00	90.00	359.55	9,447.00	7,082.53	-996.31	7,146.56	0.00	0.00	0.00
16,800.00	90.00	359.55	9,447.00	7,182.52	-997.10	7,246.13	0.00	0.00	0.00
16,900.00	90.00	359.55	9,447.00	7,282.52	-997.90	7,345.71	0.00	0.00	0.00
17,000.00	90.00	359.55	9,447.00	7,382.52	-998.69	7,445.29	0.00	0.00	0.00
17,100.00	90.00	359.55	9,447.00	7,482.51	-999.48	7,544.87	0.00	0.00	0.00
17,200.00	90.00	359.55	9,447.00	7,582.51	-1,000.27	7,644.45	0.00	0.00	0.00
17,300.00	90.00	359.55	9,447.00	7,682.51	-1,001.07	7,744.03	0.00	0.00	0.00
17,400.00	90.00	359.55	9,447.00	7,782.50	-1,001.86	7,843.60	0.00	0.00	0.00
17,500.00	90.00	359.55	9,447.00	7,882.50	-1,002.65	7,943.18	0.00	0.00	0.00
17,600.00	90.00	359.55	9,447.00	7,982.50	-1,003.44	8,042.76	0.00	0.00	0.00
17,700.00	90.00	359.55	9,447.00	8,082.49	-1,004.24	8,142.34	0.00	0.00	0.00
17,800.00	90.00	359.55	9,447.00	8,182.49	-1,005.03	8,241.92	0.00	0.00	0.00
17,900.00	90.00	359.55	9,447.00	8,282.49	-1,005.82	8,341.49	0.00	0.00	0.00
18,000.00	90.00	359.55	9,447.00	8,382.49	-1,006.61	8,441.07	0.00	0.00	0.00
18,100.00	90.00	359.55	9,447.00	8,482.48	-1,007.41	8,540.65	0.00	0.00	0.00
18,200.00	90.00	359.55	9,447.00	8,582.48	-1,008.20	8,640.23	0.00	0.00	0.00
18,300.00	90.00	359.55	9,447.00	8,682.48	-1,008.99	8,739.81	0.00	0.00	0.00
18,400.00	90.00	359.55	9,447.00	8,782.47	-1,009.79	8,839.38	0.00	0.00	0.00
18,500.00	90.00	359.55	9,447.00	8,882.47	-1,010.58	8,938.96	0.00	0.00	0.00
18,600.00	90.00	359.55	9,447.00	8,982.47	-1,011.37	9,038.54	0.00	0.00	0.00
18,700.00	90.00	359.55	9,447.00	9,082.46	-1,012.16	9,138.12	0.00	0.00	0.00
18,800.00	90.00	359.55	9,447.00	9,182.46	-1,012.96	9,237.70	0.00	0.00	0.00
18,900.00	90.00	359.55	9,447.00	9,282.46	-1,013.75	9,337.27	0.00	0.00	0.00
19,000.00	90.00	359.55	9,447.00	9,382.45	-1,014.54	9,436.85	0.00	0.00	0.00
19,100.00	90.00	359.55	9,447.00	9,482.45	-1,015.33	9,536.43	0.00	0.00	0.00
19,200.00	90.00	359.55	9,447.00	9,582.45	-1,016.13	9,636.01	0.00	0.00	0.00
19,300.00	90.00	359.55	9,447.00	9,682.44	-1,016.92	9,735.59	0.00	0.00	0.00
19,400.00	90.00	359.55	9,447.00	9,782.44	-1,017.71	9,835.16	0.00	0.00	0.00
19,500.00	90.00	359.55	9,447.00	9,882.44	-1,018.51	9,934.74	0.00	0.00	0.00
19,600.00	90.00	359.55	9,447.00	9,982.43	-1,019.30	10,034.32	0.00	0.00	0.00
19,700.00	90.00	359.55	9,447.00	10,082.43	-1,020.09	10,133.90	0.00	0.00	0.00
19,800.00	90.00	359.55	9,447.00	10,182.43	-1,020.88	10,233.48	0.00	0.00	0.00
19,811.69	90.00	359.55	9,447.00	10,194.12	-1,020.98	10,245.12	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 13H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3656.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3656.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
KOP (Senile Felines	0.00	0.00	0.00	-294.91	-937.79	504,451.68	764,323.94	32.384737	-103.610970
- plan misses target center by 983.07ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
FTP (Senile Felines	0.00	0.00	9,447.00	-244.91	-938.22	504,501.68	764,323.51	32.384874	-103.610971
- plan misses target center by 202.56ft at 9478.64ft MD (9306.84 TVD, -102.72 N, -904.05 E)									
- Point									
PBHL (Senile Felines	0.00	0.00	9,447.00	10,194.12	-1,020.98	514,940.34	764,240.76	32.413568	-103.611010
- plan hits target center									
- Point									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
879.00	879.00	RUSTLER			
1,550.00	1,550.00	SALADO			
2,786.00	2,786.00	CASTILE			
4,839.00	4,839.00	DELAWARE			
4,918.00	4,918.00	BELL CANYON			
5,915.42	5,911.00	CHERRY CANYON			
7,122.65	7,083.00	BRUSHY CANYON			
8,824.63	8,727.00	BONE SPRING			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
4,960.00	4,960.00	0.00	0.00	Build 1°/100'	
6,459.86	6,442.79	-68.02	-182.96	Hold 15° Tangent	
8,944.06	8,842.36	-292.06	-785.56	KOP, Build & Turn 10°/100'	
9,894.69	9,447.00	277.43	-942.36	Landing Point	
19,811.69	9,447.00	10,194.12	-1,020.98	TD at 19811.69' MD	

Oxy USA Inc. - Senile Felines 18_7 State Com 13H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	9447	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	19812	Deepest Expected Fresh Water (ft):	879

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	879	879	
Salado	1550	1550	Salt
Castile	2786	2786	Salt
Delaware	4839	4839	Oil/Gas/Brine
Bell Canyon	4918	4918	Oil/Gas/Brine
Cherry Canyon	5915	5911	Oil/Gas/Brine
Brushy Canyon	7123	7083	Losses
Bone Spring	8825	8727	Oil/Gas
Bone Spring 1st			Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	17.5	0	939	0	939	13.375	54.5	J-55	BTC
Salt	12.25	0	4839	0	4839	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	8844	0	8742	7.625	26.4	L-80 HC	BTC
Production	6.75	0	19812	0	9447	5.5	20	P-110	DWC/C-HT-IS

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.00	1.100	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. Please see Annular Clearance Variance attachment for further details.

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 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 three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	981	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,339	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	684	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	197	1.68	13.2	5%	7,373	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	1028	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	649	1.84	13.3	25%	8,344	Circulate	Class C+Ret.

Offline Cementing Request

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. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:	TVD Depth (ft) per Section:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	4839
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	8742
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	9447
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			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 43 CFR part 3170 Subpart 3172 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 43 CFR part 3170 Subpart 3172. 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 43 CFR part 3170 Subpart 3172.
	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 43 CFR part 3170 Subpart 3172 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. Please see BOP Break Testing Variance attachment for further details.

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

5. Mud Program

Section	Depth		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	939	0	939	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	939	4839	939	4839	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4839	8844	4839	8742	Water-Based or Oil-Based Mud	8.0 - 10.0	38-50	N/C
Production	8844	19812	8742	9447	Water-Based or Oil-Based Mud	8.0 - 9.6	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
---	--------------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.		
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).	
	Stated logs run will be in the Completion Report and submitted to the BLM.	
No	Logs are planned based on well control or offset log information.	
No	Drill stem test? If yes, explain	
No	Coring? If yes, explain	
Additional logs planned		Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4716 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	156°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 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 3 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 1713 bbls



Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	‡VST P110MY	4.653	87.5	DWC/C-HT-IS

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield Pressure	14,360	psi
Collapse Pressure	12,090	psi

CONNECTION PROPERTIES		
Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.050	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	89.1%	of pipe
Compression Efficiency	88.0%	of pipe
Internal Pressure Efficiency	86.1%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	649	klb
Parting Load	729	klb
Compression Rating	641	klb
Min. Internal Yield Pressure	12,360	psi
External Pressure Resistance	12,090	psi
Maximum Uniaxial Bend Rating	91.7	°/100 ft
Reference String Length w 1.4 Design Factor	22,890	ft.

FIELD TORQUE VALUES		
Min. Make-up torque	16,600	ft.lb
Opti. Make-up torque	17,950	ft.lb
Max. Make-up torque	19,300	ft.lb
Min. Shoulder Torque	1,660	ft.lb
Max. Shoulder Torque	13,280	ft.lb
Max. Delta Turn	0.200	Turns
‡Maximum Operational Torque	23,800	ft.lb
‡Maximum Torsional Value (MTV)	26,180	ft.lb

‡ Maximum Operational Torque and Maximum Torsional Value only valid with Vallourec P110MY Material.
‡ P110MY - Coupling Min Yield Strength is 110ksi and Coupling Max Yield is 125ksi.

"VST = Vallourec Star as the mill source for the pipe, "P110EC" is the grade name"
Need Help? Contact: tech.support@vam-usa.com
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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DWC Connection Data Sheet Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.
12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

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Energy, Minerals and Natural Resources
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CONDITIONS

Action 410641

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 410641
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	BLM VARIANCES DO NOT APPLY TO STATE AND FEE WELLS	12/18/2024
pkautz	WHEN EVER A BREADENHEAD CEMENT JOB IS PERFORMED MUST RUN A CBL	12/18/2024
pkautz	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	12/18/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/18/2024