

Submit 1 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. 30-025-48758
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 312H
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 P.O. Box 4294, Houston, TX 77210	
4. Well Location Unit Letter <u>O</u> : <u>225</u> feet from the <u>South</u> line and <u>1540</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.) 3634' (GL)	

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 subject well APD to update the pool name & casing/cementing program (no change to SHL or BHL):

Current Pool Name
 [51687] RED TANK; BONE SPRING, EAST

New Pool Name
 [98177] WC-025 G-09 S223332A; UPR WOLFCAMP

Attached: Amended C102 Plat, Drill Plan, Directional Plan/Plot

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 Roni Mathew TITLE Regulatory Advisor DATE 6/1/2022

Type or print name Roni Mathew E-mail address: roni_mathew@oxy.com PHONE: (713) 215-7827

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

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

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
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Phone: (505) 334-6178 Fax: (505) 334-6170

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-48758	² Pool Code 98177	³ Pool Name WC-025 G-09 S223332A;UPR WOLFCAMP
⁴ Property Code 330703	⁵ Property Name SENILE FELINES 18_7 STATE COM	⁶ Well Number 312H
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁹ Elevation 3633'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	18	22S	33E		551	SOUTH	1618	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	7	22S	33E		20	NORTH	2559	WEST	LEA

¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Roni Mathew</i> 5/13/2022 Signature Date Roni Mathew Printed Name roni_mathew@oxy.com E-mail Address
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 10, 2022 Date of Survey Signature and Seal of Professional Surveyor: <i>David W. Myers</i> Certificate Number DAVID W. MYERS 11403
	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 764039.94' / Y: 514959.26' B - X: 765360.26' / Y: 514966.39' C - X: 765381.13' / Y: 512327.07' D - X: 765403.26' / Y: 509686.47' E - X: 765423.32' / Y: 507046.37' F - X: 765445.16' / Y: 504407.46' G - X: 764125.98' / Y: 504400.66' H - X: 762805.48' / Y: 504393.45' I - X: 762784.22' / Y: 507032.47' J - X: 762763.38' / Y: 509672.28' K - X: 762741.63' / Y: 512312.19' L - X: 762720.00' / Y: 514952.15'
	BOTTOM HOLE LOCATION 20' FNL 2559' FWL, SECTION 7 NAD 83, SPCS NM EAST X: 764080.76' / Y: 514939.48' LAT: 32.41356828N / LON: 103.61152846W NAD 27, SPCS NM EAST X: 722898.45' / Y: 514878.71' LAT: 32.41344512N / LON: 103.61104215W
	LAST TAKE POINT 100' FNL 2559' FWL, SECTION 7 NAD 83, SPCS NM EAST X: 764081.37' / Y: 514859.48' LAT: 32.41334838N / LON: 103.61152824W NAD 27, SPCS NM EAST X: 722899.05' / Y: 514798.71' LAT: 32.41322523N / LON: 103.61104194W

Distances/areas relative to NAD 83 Combined Scale Factor: 0.9997856 Convergence Angle: 00°22'27.180012"

☐ Horizontal Spacing Unit

Oxy USA Inc. - Senile Felines 18_7 State Com 312H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	12030	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22363	Deepest Expected Fresh Water (ft):	878

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	878	878	
Salado	1553	1553	Salt
Castile	2789	2789	Salt
Delaware	4839	4839	Oil/Gas/Brine
Bell Canyon	4918	4918	Oil/Gas/Brine
Cherry Canyon	5921	5919	Oil/Gas/Brine
Brushy Canyon	7101	7081	Losses
Bone Spring	8772	8727	Oil/Gas
Bone Spring 1st	9904	9842	Oil/Gas
Bone Spring 2nd	10553	10482	Oil/Gas
Bone Spring 3rd	11787	11691	Oil/Gas
Wolfcamp	12193	11974	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	938	0	938	13.375	54.5	J-55	BTC
Intermediate	9.875	0	11399	0	11313	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22363	0	12030	5.5	20	P-110	DQX

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

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

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

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.125	1.2	1.4	1.4

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 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:	Capacities	ft ³ /ft	Excess:	From	To	Sacks	Volume (ft ³)	Placement
Surface	1	Surface - Tail	OH x Csg	0.6946	100%	938	-	980	1303	Circulate
Int.	1	Intermediate 1S - Tail	OH x Csg	0.2148	5%	11,399	7,351	553	913	Circulate
Int.	2	Intermediate 2S - Tail BH	OH x Csg	0.2148	25%	7,351	938	1007	1722	Bradenhead
Int.	2	Intermediate 2S - Tail BH	Csg x Csg	0.5509	0%	938	-	302	517	Bradenhead
Prod.	1	Production - Tail	OH x Csg	0.2526	20%	22,363	11,399	2408	3323	Circulate
Prod.	1	Production - Tail	Csg x Csg	0.0999	0%	11,399	10,899	36	50	Circulate

Description	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)	500psi Time (hh:mm)	Cmt. Class	Accelerator	Retarder	Dispersant	Salt
Surface - Tail	14.8	1.33	6.365	5:26	C	x			
Intermediate 1S - Tail	13.2	1.65	8.64	11:54	H	x	x	x	x
Intermediate 2S - Tail BH	13.3	1.71	8.86	23:10	C	x			
Production - Tail	13.2	1.38	6.686	3:39	H		x	x	x

Offline Cementing

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).

Land casing.

Fill pipe with kill weight fluid, and confirm well is static.

If well Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

The summarized operational sequence will be as follows:

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
2. Land casing.
3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
4. Set and pressure test annular packoff.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nipped down until after the cement job is completed.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange.
8. If well is not static notify BLM and kill well prior to cementing or nipping up for further remediation.
9. Install offline cement tool.
10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
11. Perform cement job.
12. Confirm well is static and floats are holding after cement job.
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	11313
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	12030
		10M	Blind Ram	✓	250 psi / 10000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			

*Specify if additional ram is utilized

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see attached Well Control Plan.

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

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

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

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

- 1) Wellhead flange, co-flex hose, check valve, upper pipe rams

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	938	0	938	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	938	11399	938	11313	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11399	22363	11313	12030	Water-Based or Oil-Based Mud	9.5 - 12.5	38-50	N/C

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

What will be used to monitor the loss or gain of fluid?	PVT/MD Totco/Visual Monitoring
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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	
No	CBL	
Yes	Mud log	Bone Spring – TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7820 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	177°F

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

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

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

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

Total Estimated Cuttings Volume: 1756 bbls

Attachments

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

9. Company Personnel

Name	Title	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Filip Krneta	Drilling Engineer Supervisor	713-350-4751	832-244-4980
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Senile Felines 18_7

Senile Felines 18_7 State Com 312H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

01 June, 2022

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 312H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3658.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3658.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 312H	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	Latitude:	32.386155
From:	Map	Easting:	763,528.05 usft	Longitude:	-103.613537
Position Uncertainty:	1.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.39 °

Well						Senile Felines 18_7 State Com 312H					
Well Position	+N/-S		-5.75 ft		Northing:	504,956.59 usft		Latitude:	32.386110		
	+E/-W		1,613.72 ft		Easting:	765,141.71 usft		Longitude:	-103.608310		
Position Uncertainty			1.00 ft		Wellhead Elevation:			Ground Level:	3,633.00 ft		

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	1/27/2021	6.47	60.07	47,888.10000000

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	353.93

Plan Survey Tool Program	Date	6/1/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,362.62	Permitting Plan (Wellbore #1)	B001Mb_MWD+HRGM OWSG MWD + HRGM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,150.00	0.00	0.00	5,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,149.76	10.00	240.42	6,144.69	-42.95	-75.66	1.00	1.00	0.00	240.42	
11,499.31	10.00	240.42	11,413.01	-501.42	-883.33	0.00	0.00	0.00	0.00	
12,447.62	89.98	359.55	12,027.15	68.56	-982.39	10.00	8.43	12.56	118.76	
22,362.62	89.98	359.55	12,030.00	9,983.25	-1,060.99	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 312H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3658.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3658.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 312H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,150.00	0.00	0.00	5,150.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.50	240.42	5,200.00	-0.11	-0.19	-0.09	1.00	1.00	0.00
5,300.00	1.50	240.42	5,299.98	-0.97	-1.71	-0.78	1.00	1.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 312H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3658.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3658.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 312H	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	2.50	240.42	5,399.92	-2.69	-4.74	-2.18	1.00	1.00	0.00
5,500.00	3.50	240.42	5,499.78	-5.28	-9.29	-4.26	1.00	1.00	0.00
5,600.00	4.50	240.42	5,599.54	-8.72	-15.36	-7.05	1.00	1.00	0.00
5,700.00	5.50	240.42	5,699.16	-13.02	-22.94	-10.52	1.00	1.00	0.00
5,800.00	6.50	240.42	5,798.61	-18.18	-32.03	-14.70	1.00	1.00	0.00
5,900.00	7.50	240.42	5,897.86	-24.20	-42.63	-19.56	1.00	1.00	0.00
6,000.00	8.50	240.42	5,996.89	-31.07	-54.73	-25.11	1.00	1.00	0.00
6,100.00	9.50	240.42	6,095.65	-38.79	-68.34	-31.35	1.00	1.00	0.00
6,149.76	10.00	240.42	6,144.69	-42.95	-75.66	-34.71	1.00	1.00	0.00
6,200.00	10.00	240.42	6,194.17	-47.26	-83.25	-38.19	0.00	0.00	0.00
6,300.00	10.00	240.42	6,292.65	-55.83	-98.35	-45.12	0.00	0.00	0.00
6,400.00	10.00	240.42	6,391.13	-64.40	-113.44	-52.05	0.00	0.00	0.00
6,500.00	10.00	240.42	6,489.62	-72.97	-128.54	-58.97	0.00	0.00	0.00
6,600.00	10.00	240.42	6,588.10	-81.54	-143.64	-65.90	0.00	0.00	0.00
6,700.00	10.00	240.42	6,686.58	-90.11	-158.74	-72.83	0.00	0.00	0.00
6,800.00	10.00	240.42	6,785.06	-98.68	-173.83	-79.76	0.00	0.00	0.00
6,900.00	10.00	240.42	6,883.54	-107.25	-188.93	-86.68	0.00	0.00	0.00
7,000.00	10.00	240.42	6,982.02	-115.82	-204.03	-93.61	0.00	0.00	0.00
7,100.00	10.00	240.42	7,080.51	-124.39	-219.13	-100.54	0.00	0.00	0.00
7,200.00	10.00	240.42	7,178.99	-132.96	-234.23	-107.46	0.00	0.00	0.00
7,300.00	10.00	240.42	7,277.47	-141.53	-249.32	-114.39	0.00	0.00	0.00
7,400.00	10.00	240.42	7,375.95	-150.10	-264.42	-121.32	0.00	0.00	0.00
7,500.00	10.00	240.42	7,474.43	-158.67	-279.52	-128.24	0.00	0.00	0.00
7,600.00	10.00	240.42	7,572.91	-167.24	-294.62	-135.17	0.00	0.00	0.00
7,700.00	10.00	240.42	7,671.39	-175.81	-309.71	-142.10	0.00	0.00	0.00
7,800.00	10.00	240.42	7,769.88	-184.38	-324.81	-149.02	0.00	0.00	0.00
7,900.00	10.00	240.42	7,868.36	-192.95	-339.91	-155.95	0.00	0.00	0.00
8,000.00	10.00	240.42	7,966.84	-201.52	-355.01	-162.88	0.00	0.00	0.00
8,100.00	10.00	240.42	8,065.32	-210.09	-370.11	-169.80	0.00	0.00	0.00
8,200.00	10.00	240.42	8,163.80	-218.66	-385.20	-176.73	0.00	0.00	0.00
8,300.00	10.00	240.42	8,262.28	-227.23	-400.30	-183.66	0.00	0.00	0.00
8,400.00	10.00	240.42	8,360.76	-235.80	-415.40	-190.58	0.00	0.00	0.00
8,500.00	10.00	240.42	8,459.25	-244.37	-430.50	-197.51	0.00	0.00	0.00
8,600.00	10.00	240.42	8,557.73	-252.94	-445.59	-204.44	0.00	0.00	0.00
8,700.00	10.00	240.42	8,656.21	-261.51	-460.69	-211.37	0.00	0.00	0.00
8,800.00	10.00	240.42	8,754.69	-270.08	-475.79	-218.29	0.00	0.00	0.00
8,900.00	10.00	240.42	8,853.17	-278.65	-490.89	-225.22	0.00	0.00	0.00
9,000.00	10.00	240.42	8,951.65	-287.22	-505.99	-232.15	0.00	0.00	0.00
9,100.00	10.00	240.42	9,050.14	-295.79	-521.08	-239.07	0.00	0.00	0.00
9,200.00	10.00	240.42	9,148.62	-304.36	-536.18	-246.00	0.00	0.00	0.00
9,300.00	10.00	240.42	9,247.10	-312.93	-551.28	-252.93	0.00	0.00	0.00
9,400.00	10.00	240.42	9,345.58	-321.50	-566.38	-259.85	0.00	0.00	0.00
9,500.00	10.00	240.42	9,444.06	-330.08	-581.47	-266.78	0.00	0.00	0.00
9,600.00	10.00	240.42	9,542.54	-338.65	-596.57	-273.71	0.00	0.00	0.00
9,700.00	10.00	240.42	9,641.02	-347.22	-611.67	-280.63	0.00	0.00	0.00
9,800.00	10.00	240.42	9,739.51	-355.79	-626.77	-287.56	0.00	0.00	0.00
9,900.00	10.00	240.42	9,837.99	-364.36	-641.87	-294.49	0.00	0.00	0.00
10,000.00	10.00	240.42	9,936.47	-372.93	-656.96	-301.41	0.00	0.00	0.00
10,100.00	10.00	240.42	10,034.95	-381.50	-672.06	-308.34	0.00	0.00	0.00
10,200.00	10.00	240.42	10,133.43	-390.07	-687.16	-315.27	0.00	0.00	0.00
10,300.00	10.00	240.42	10,231.91	-398.64	-702.26	-322.19	0.00	0.00	0.00
10,400.00	10.00	240.42	10,330.40	-407.21	-717.35	-329.12	0.00	0.00	0.00
10,500.00	10.00	240.42	10,428.88	-415.78	-732.45	-336.05	0.00	0.00	0.00
10,600.00	10.00	240.42	10,527.36	-424.35	-747.55	-342.98	0.00	0.00	0.00
10,700.00	10.00	240.42	10,625.84	-432.92	-762.65	-349.90	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 312H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3658.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3658.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 312H	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)
10,800.00	10.00	240.42	10,724.32	-441.49	-777.75	-356.83	0.00	0.00	0.00
10,900.00	10.00	240.42	10,822.80	-450.06	-792.84	-363.76	0.00	0.00	0.00
11,000.00	10.00	240.42	10,921.28	-458.63	-807.94	-370.68	0.00	0.00	0.00
11,100.00	10.00	240.42	11,019.77	-467.20	-823.04	-377.61	0.00	0.00	0.00
11,200.00	10.00	240.42	11,118.25	-475.77	-838.14	-384.54	0.00	0.00	0.00
11,300.00	10.00	240.42	11,216.73	-484.34	-853.23	-391.46	0.00	0.00	0.00
11,400.00	10.00	240.42	11,315.21	-492.91	-868.33	-398.39	0.00	0.00	0.00
11,499.31	10.00	240.42	11,413.01	-501.42	-883.33	-405.27	0.00	0.00	0.00
11,500.00	9.96	240.77	11,413.69	-501.48	-883.43	-405.32	10.00	-4.78	50.66
11,600.00	10.18	300.53	11,512.40	-501.21	-898.63	-403.45	10.00	0.22	59.76
11,700.00	17.51	330.33	11,609.54	-483.61	-913.73	-384.34	10.00	7.32	29.80
11,800.00	26.60	341.64	11,702.17	-449.20	-928.27	-348.59	10.00	9.10	11.31
11,900.00	36.16	347.38	11,787.46	-399.04	-941.80	-297.28	10.00	9.55	5.74
12,000.00	45.88	350.96	11,862.83	-334.64	-953.91	-231.96	10.00	9.72	3.58
12,100.00	55.68	353.51	11,925.99	-257.96	-964.24	-154.62	10.00	9.80	2.55
12,200.00	65.53	355.53	11,975.02	-171.34	-972.47	-67.62	10.00	9.85	2.01
12,300.00	75.40	357.25	12,008.42	-77.40	-978.36	26.42	10.00	9.87	1.72
12,400.00	85.28	358.82	12,025.18	21.00	-981.71	124.62	10.00	9.88	1.57
12,447.62	89.98	359.55	12,027.15	68.56	-982.39	171.99	10.00	9.88	1.53
12,500.00	89.98	359.55	12,027.17	120.93	-982.81	224.11	0.00	0.00	0.00
12,600.00	89.98	359.55	12,027.19	220.93	-983.60	323.64	0.00	0.00	0.00
12,700.00	89.98	359.55	12,027.22	320.93	-984.39	423.16	0.00	0.00	0.00
12,800.00	89.98	359.55	12,027.25	420.92	-985.18	522.68	0.00	0.00	0.00
12,900.00	89.98	359.55	12,027.28	520.92	-985.98	622.20	0.00	0.00	0.00
13,000.00	89.98	359.55	12,027.31	620.92	-986.77	721.72	0.00	0.00	0.00
13,100.00	89.98	359.55	12,027.34	720.92	-987.56	821.24	0.00	0.00	0.00
13,200.00	89.98	359.55	12,027.37	820.91	-988.36	920.76	0.00	0.00	0.00
13,300.00	89.98	359.55	12,027.40	920.91	-989.15	1,020.28	0.00	0.00	0.00
13,400.00	89.98	359.55	12,027.42	1,020.91	-989.94	1,119.80	0.00	0.00	0.00
13,500.00	89.98	359.55	12,027.45	1,120.90	-990.73	1,219.32	0.00	0.00	0.00
13,600.00	89.98	359.55	12,027.48	1,220.90	-991.53	1,318.84	0.00	0.00	0.00
13,700.00	89.98	359.55	12,027.51	1,320.90	-992.32	1,418.36	0.00	0.00	0.00
13,800.00	89.98	359.55	12,027.54	1,420.89	-993.11	1,517.88	0.00	0.00	0.00
13,900.00	89.98	359.55	12,027.57	1,520.89	-993.90	1,617.40	0.00	0.00	0.00
14,000.00	89.98	359.55	12,027.60	1,620.89	-994.70	1,716.93	0.00	0.00	0.00
14,100.00	89.98	359.55	12,027.63	1,720.88	-995.49	1,816.45	0.00	0.00	0.00
14,200.00	89.98	359.55	12,027.65	1,820.88	-996.28	1,915.97	0.00	0.00	0.00
14,300.00	89.98	359.55	12,027.68	1,920.88	-997.07	2,015.49	0.00	0.00	0.00
14,400.00	89.98	359.55	12,027.71	2,020.87	-997.87	2,115.01	0.00	0.00	0.00
14,500.00	89.98	359.55	12,027.74	2,120.87	-998.66	2,214.53	0.00	0.00	0.00
14,600.00	89.98	359.55	12,027.77	2,220.87	-999.45	2,314.05	0.00	0.00	0.00
14,700.00	89.98	359.55	12,027.80	2,320.87	-1,000.25	2,413.57	0.00	0.00	0.00
14,800.00	89.98	359.55	12,027.83	2,420.86	-1,001.04	2,513.09	0.00	0.00	0.00
14,900.00	89.98	359.55	12,027.86	2,520.86	-1,001.83	2,612.61	0.00	0.00	0.00
15,000.00	89.98	359.55	12,027.88	2,620.86	-1,002.62	2,712.13	0.00	0.00	0.00
15,100.00	89.98	359.55	12,027.91	2,720.85	-1,003.42	2,811.65	0.00	0.00	0.00
15,200.00	89.98	359.55	12,027.94	2,820.85	-1,004.21	2,911.17	0.00	0.00	0.00
15,300.00	89.98	359.55	12,027.97	2,920.85	-1,005.00	3,010.69	0.00	0.00	0.00
15,400.00	89.98	359.55	12,028.00	3,020.84	-1,005.79	3,110.22	0.00	0.00	0.00
15,500.00	89.98	359.55	12,028.03	3,120.84	-1,006.59	3,209.74	0.00	0.00	0.00
15,600.00	89.98	359.55	12,028.06	3,220.84	-1,007.38	3,309.26	0.00	0.00	0.00
15,700.00	89.98	359.55	12,028.09	3,320.83	-1,008.17	3,408.78	0.00	0.00	0.00
15,800.00	89.98	359.55	12,028.11	3,420.83	-1,008.97	3,508.30	0.00	0.00	0.00
15,900.00	89.98	359.55	12,028.14	3,520.83	-1,009.76	3,607.82	0.00	0.00	0.00
16,000.00	89.98	359.55	12,028.17	3,620.82	-1,010.55	3,707.34	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 312H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3658.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3658.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 312H	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	89.98	359.55	12,028.20	3,720.82	-1,011.34	3,806.86	0.00	0.00	0.00
16,200.00	89.98	359.55	12,028.23	3,820.82	-1,012.14	3,906.38	0.00	0.00	0.00
16,300.00	89.98	359.55	12,028.26	3,920.81	-1,012.93	4,005.90	0.00	0.00	0.00
16,400.00	89.98	359.55	12,028.29	4,020.81	-1,013.72	4,105.42	0.00	0.00	0.00
16,500.00	89.98	359.55	12,028.32	4,120.81	-1,014.51	4,204.94	0.00	0.00	0.00
16,600.00	89.98	359.55	12,028.34	4,220.81	-1,015.31	4,304.46	0.00	0.00	0.00
16,700.00	89.98	359.55	12,028.37	4,320.80	-1,016.10	4,403.98	0.00	0.00	0.00
16,800.00	89.98	359.55	12,028.40	4,420.80	-1,016.89	4,503.51	0.00	0.00	0.00
16,900.00	89.98	359.55	12,028.43	4,520.80	-1,017.69	4,603.03	0.00	0.00	0.00
17,000.00	89.98	359.55	12,028.46	4,620.79	-1,018.48	4,702.55	0.00	0.00	0.00
17,100.00	89.98	359.55	12,028.49	4,720.79	-1,019.27	4,802.07	0.00	0.00	0.00
17,200.00	89.98	359.55	12,028.52	4,820.79	-1,020.06	4,901.59	0.00	0.00	0.00
17,300.00	89.98	359.55	12,028.55	4,920.78	-1,020.86	5,001.11	0.00	0.00	0.00
17,400.00	89.98	359.55	12,028.57	5,020.78	-1,021.65	5,100.63	0.00	0.00	0.00
17,500.00	89.98	359.55	12,028.60	5,120.78	-1,022.44	5,200.15	0.00	0.00	0.00
17,600.00	89.98	359.55	12,028.63	5,220.77	-1,023.23	5,299.67	0.00	0.00	0.00
17,700.00	89.98	359.55	12,028.66	5,320.77	-1,024.03	5,399.19	0.00	0.00	0.00
17,800.00	89.98	359.55	12,028.69	5,420.77	-1,024.82	5,498.71	0.00	0.00	0.00
17,900.00	89.98	359.55	12,028.72	5,520.76	-1,025.61	5,598.23	0.00	0.00	0.00
18,000.00	89.98	359.55	12,028.75	5,620.76	-1,026.41	5,697.75	0.00	0.00	0.00
18,100.00	89.98	359.55	12,028.78	5,720.76	-1,027.20	5,797.28	0.00	0.00	0.00
18,200.00	89.98	359.55	12,028.80	5,820.76	-1,027.99	5,896.80	0.00	0.00	0.00
18,300.00	89.98	359.55	12,028.83	5,920.75	-1,028.78	5,996.32	0.00	0.00	0.00
18,400.00	89.98	359.55	12,028.86	6,020.75	-1,029.58	6,095.84	0.00	0.00	0.00
18,500.00	89.98	359.55	12,028.89	6,120.75	-1,030.37	6,195.36	0.00	0.00	0.00
18,600.00	89.98	359.55	12,028.92	6,220.74	-1,031.16	6,294.88	0.00	0.00	0.00
18,700.00	89.98	359.55	12,028.95	6,320.74	-1,031.95	6,394.40	0.00	0.00	0.00
18,800.00	89.98	359.55	12,028.98	6,420.74	-1,032.75	6,493.92	0.00	0.00	0.00
18,900.00	89.98	359.55	12,029.01	6,520.73	-1,033.54	6,593.44	0.00	0.00	0.00
19,000.00	89.98	359.55	12,029.03	6,620.73	-1,034.33	6,692.96	0.00	0.00	0.00
19,100.00	89.98	359.55	12,029.06	6,720.73	-1,035.12	6,792.48	0.00	0.00	0.00
19,200.00	89.98	359.55	12,029.09	6,820.72	-1,035.92	6,892.00	0.00	0.00	0.00
19,300.00	89.98	359.55	12,029.12	6,920.72	-1,036.71	6,991.52	0.00	0.00	0.00
19,400.00	89.98	359.55	12,029.15	7,020.72	-1,037.50	7,091.04	0.00	0.00	0.00
19,500.00	89.98	359.55	12,029.18	7,120.71	-1,038.30	7,190.57	0.00	0.00	0.00
19,600.00	89.98	359.55	12,029.21	7,220.71	-1,039.09	7,290.09	0.00	0.00	0.00
19,700.00	89.98	359.55	12,029.24	7,320.71	-1,039.88	7,389.61	0.00	0.00	0.00
19,800.00	89.98	359.55	12,029.26	7,420.70	-1,040.67	7,489.13	0.00	0.00	0.00
19,900.00	89.98	359.55	12,029.29	7,520.70	-1,041.47	7,588.65	0.00	0.00	0.00
20,000.00	89.98	359.55	12,029.32	7,620.70	-1,042.26	7,688.17	0.00	0.00	0.00
20,100.00	89.98	359.55	12,029.35	7,720.70	-1,043.05	7,787.69	0.00	0.00	0.00
20,200.00	89.98	359.55	12,029.38	7,820.69	-1,043.84	7,887.21	0.00	0.00	0.00
20,300.00	89.98	359.55	12,029.41	7,920.69	-1,044.64	7,986.73	0.00	0.00	0.00
20,400.00	89.98	359.55	12,029.44	8,020.69	-1,045.43	8,086.25	0.00	0.00	0.00
20,500.00	89.98	359.55	12,029.46	8,120.68	-1,046.22	8,185.77	0.00	0.00	0.00
20,600.00	89.98	359.55	12,029.49	8,220.68	-1,047.02	8,285.29	0.00	0.00	0.00
20,700.00	89.98	359.55	12,029.52	8,320.68	-1,047.81	8,384.81	0.00	0.00	0.00
20,800.00	89.98	359.55	12,029.55	8,420.67	-1,048.60	8,484.33	0.00	0.00	0.00
20,900.00	89.98	359.55	12,029.58	8,520.67	-1,049.39	8,583.86	0.00	0.00	0.00
21,000.00	89.98	359.55	12,029.61	8,620.67	-1,050.19	8,683.38	0.00	0.00	0.00
21,100.00	89.98	359.55	12,029.64	8,720.66	-1,050.98	8,782.90	0.00	0.00	0.00
21,200.00	89.98	359.55	12,029.67	8,820.66	-1,051.77	8,882.42	0.00	0.00	0.00
21,300.00	89.98	359.55	12,029.69	8,920.66	-1,052.56	8,981.94	0.00	0.00	0.00
21,400.00	89.98	359.55	12,029.72	9,020.65	-1,053.36	9,081.46	0.00	0.00	0.00
21,500.00	89.98	359.55	12,029.75	9,120.65	-1,054.15	9,180.98	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 312H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3658.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3658.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 312H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,600.00	89.98	359.55	12,029.78	9,220.65	-1,054.94	9,280.50	0.00	0.00	0.00
21,700.00	89.98	359.55	12,029.81	9,320.65	-1,055.74	9,380.02	0.00	0.00	0.00
21,800.00	89.98	359.55	12,029.84	9,420.64	-1,056.53	9,479.54	0.00	0.00	0.00
21,900.00	89.98	359.55	12,029.87	9,520.64	-1,057.32	9,579.06	0.00	0.00	0.00
22,000.00	89.98	359.55	12,029.90	9,620.64	-1,058.11	9,678.58	0.00	0.00	0.00
22,100.00	89.98	359.55	12,029.92	9,720.63	-1,058.91	9,778.10	0.00	0.00	0.00
22,200.00	89.98	359.55	12,029.95	9,820.63	-1,059.70	9,877.62	0.00	0.00	0.00
22,300.00	89.98	359.55	12,029.98	9,920.63	-1,060.49	9,977.15	0.00	0.00	0.00
22,362.62	89.98	359.55	12,030.00	9,983.25	-1,060.99	10,039.47	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
FTP (Senile Felines - hit/miss target - Shape - Point)	0.00	0.00	12,027.00	-455.75	-978.23	504,500.86	764,163.51	32.384875	-103.611489
- plan misses target center by 204.00ft at 12013.37ft MD (11872.03 TVD, -325.05 N, -955.40 E)									
PBHL (Senile Felines - plan hits target center - Point)	0.00	0.00	12,030.00	9,983.25	-1,060.99	514,939.48	764,080.76	32.413568	-103.611529

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
878.00	878.00	RUSTLER				
1,553.00	1,553.00	SALADO				
2,789.00	2,789.00	CASTILE				
4,839.00	4,839.00	DELAWARE				
4,918.00	4,918.00	BELL CANYON				
5,921.33	5,919.00	CHERRY CANYON				
7,100.50	7,081.00	BRUSHY CANYON				
8,771.88	8,727.00	BONE SPRING				
9,901.03	9,839.00	BONE SPRING 1ST				
10,550.90	10,479.00	BONE SPRING 2ND				
11,784.25	11,688.00	BONE SPRING 3RD				
12,190.48	11,971.00	WOLFCAMP				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,150.00	5,150.00	0.00	0.00	Build 1°/100'
6,149.76	6,144.69	-42.95	-75.66	Hold 10° Tangent
11,499.31	11,413.01	-501.42	-883.33	KOP, Build & Turn 10°/100'
12,447.62	12,027.15	68.56	-982.39	Landing Point
22,362.62	12,030.00	9,983.25	-1,060.99	TD at 22362.62' MD



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
 Site: Senile Felines 18_7
 Well: Senile Felines 18_7 State Com 312H
 Wellbore: Wellbore #1
 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: Senile Felines 18_7 State Com 312H

+N/-S	+E/-W	Northing	3633.00 Easting	Latitude	Longitude
0.00	0.00	504956.59	765141.71	32.386109	-103.608310

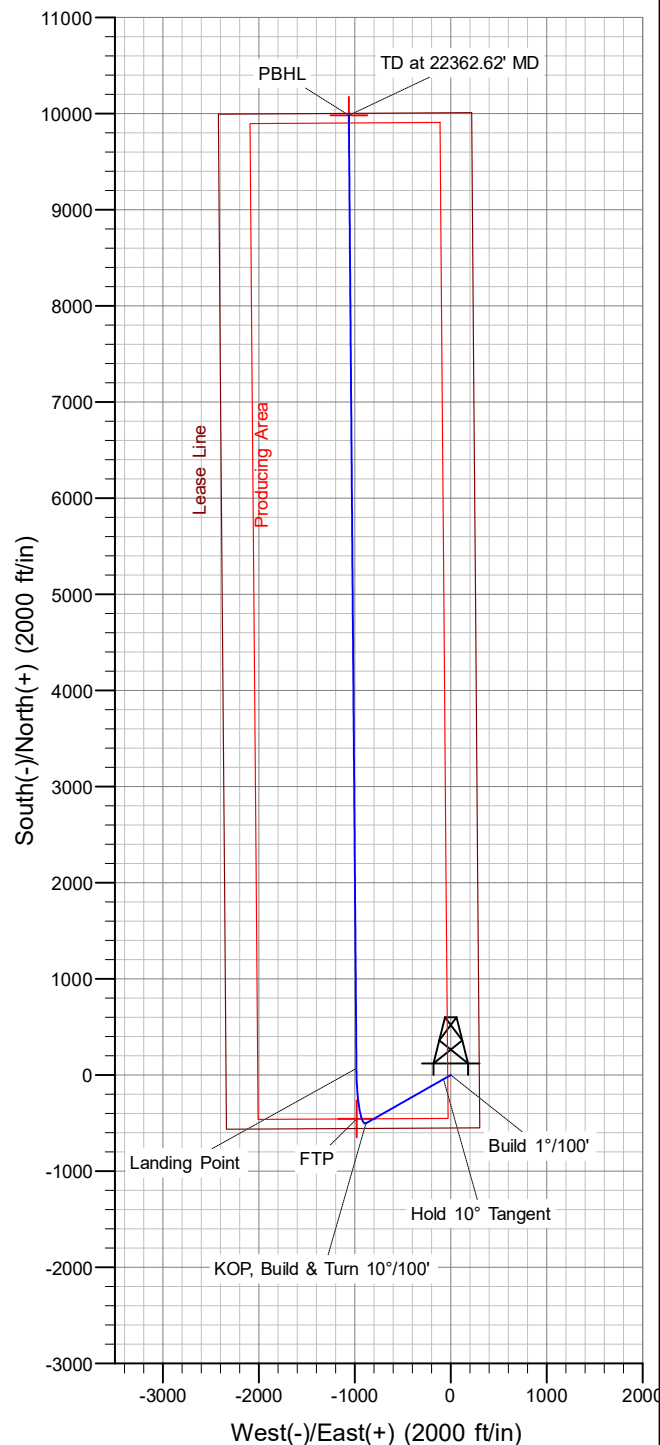
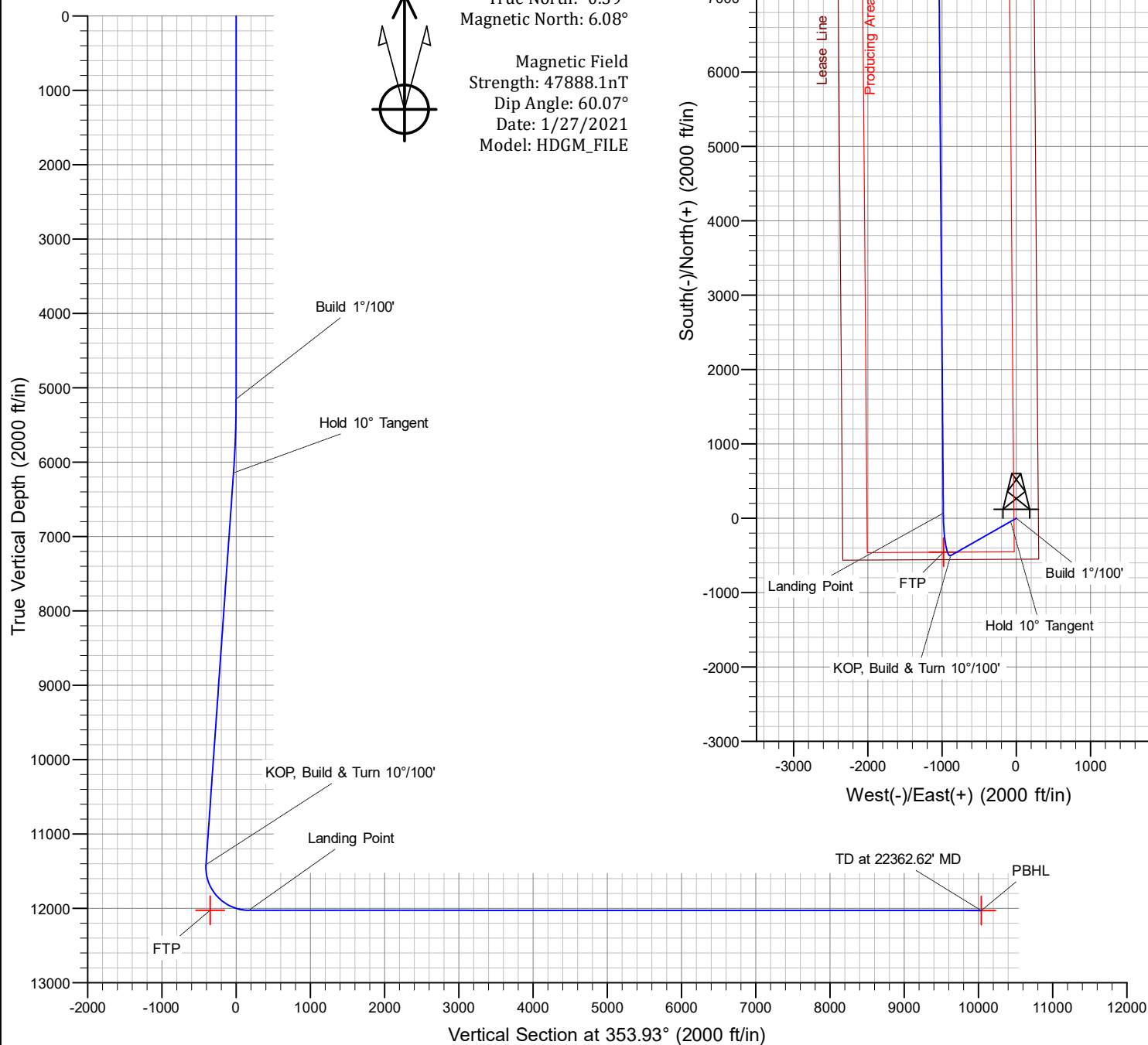
SECTION DETAILS

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	
5150.00	0.00	0.00	5150.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
6149.76	10.00	240.42	6144.69	-42.95	-75.66	1.00	240.42	-34.71	Hold 10° Tangent
11499.31	10.00	240.42	11413.01	-501.42	-883.33	0.00	0.00	-405.27	KOP, Build & Turn 10°/100'
12447.62	89.98	359.55	12027.15	68.56	-982.39	10.00	118.76	171.99	Landing Point
22362.62	89.98	359.55	12030.00	9983.24	-1060.99	0.00	0.00	10039.47	TD at 22362.62' MD



Azimuths to Grid North
 True North: -0.39°
 Magnetic North: 6.08°

Magnetic Field
 Strength: 47888.1nT
 Dip Angle: 60.07°
 Date: 1/27/2021
 Model: HDGM_FILE



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 112611

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 112611
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	REQUIRES NSP	6/2/2022