

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. 30-025-48754
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 34H
9. OGRID Number 16696
10. Pool name or Wildcat WC-025 G-09 S223332A; UPR WOLFCAMP

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>224</u> feet from the <u>South</u> line and <u>1510</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.) 3632' (GL)	

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

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

Drill Plan

- Casing/Cement Program - remove request for option to run 7.625" Intermediate II as a contingency string
- BOP break testing/Mud Program - pad based break testing plan
- OXY Well Control Plan
- Directional Plat/Plot
- Updated Casing Attachments

SHL Location Change

- C102 Plat/Site Plan/Cut & Fill Contours Map
- Aerial/Topo/Land Status Maps
- Vicinity Map/Location Verification Map/Location Map

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 4/11/2022

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) 393-9720

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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 30-025-48754	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 34H
⁷ OGRID No. 16696	⁸ Operator Name OXY USA INC.	⁹ Elevation 3632'

¹⁰ Surface Location

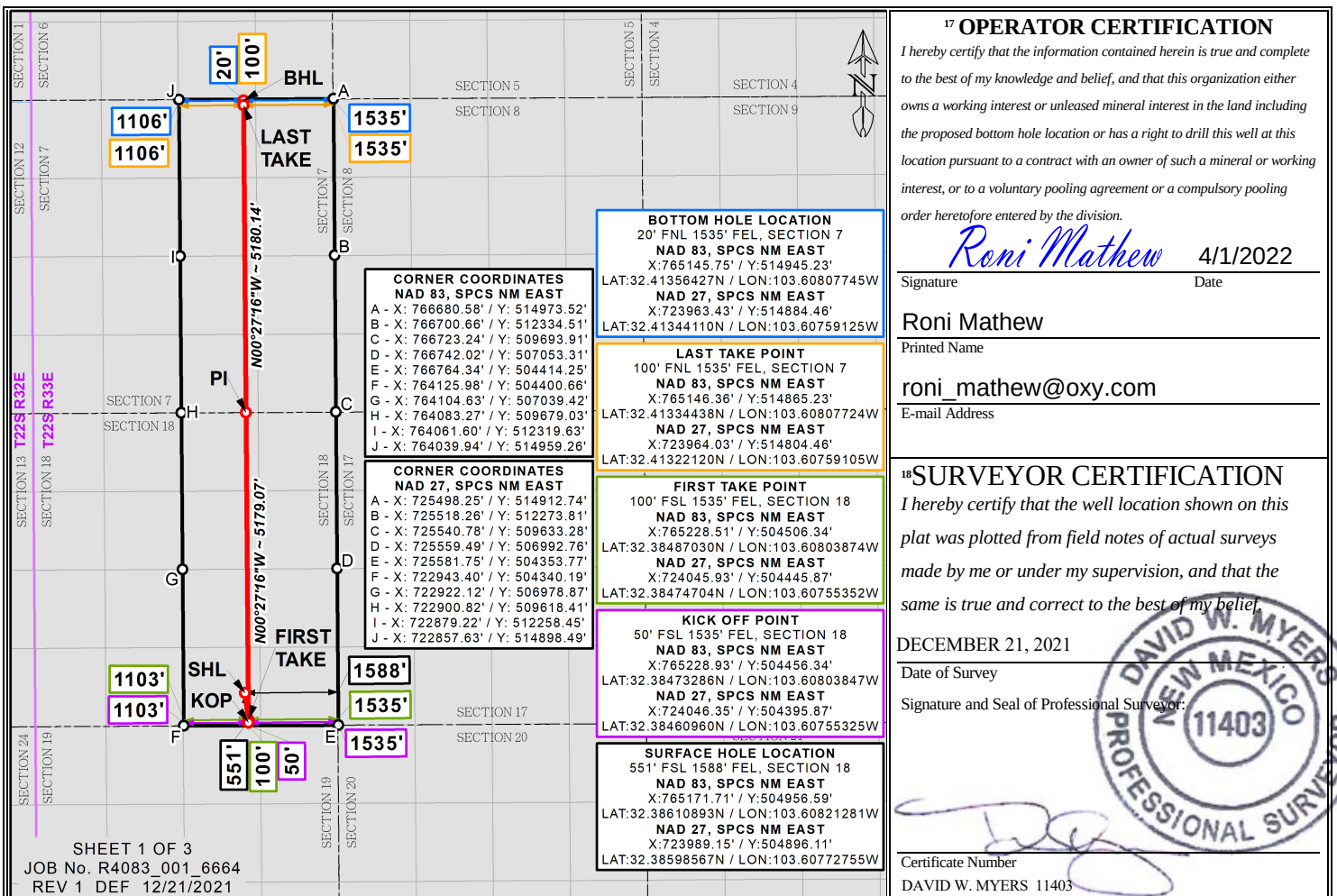
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	18	22S	33E		551	SOUTH	1588	EAST	LEA

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	1535	EAST	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.





SITE PLAN

REDTNK_T22S-R33E_1802
SEC. 18 TWP. 22-S RGE. 33-E
SURVEY: N.M.P.M.
COUNTY: LEA
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: GRAMA RIDGE, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY
RECLAMATION
30' TOP SOIL
20' DISTURBANCE AREA



100' 0' 100' 200'
SCALE: 1" = 200'

SE/4 OF SW/4

SE/4 OF SE/4

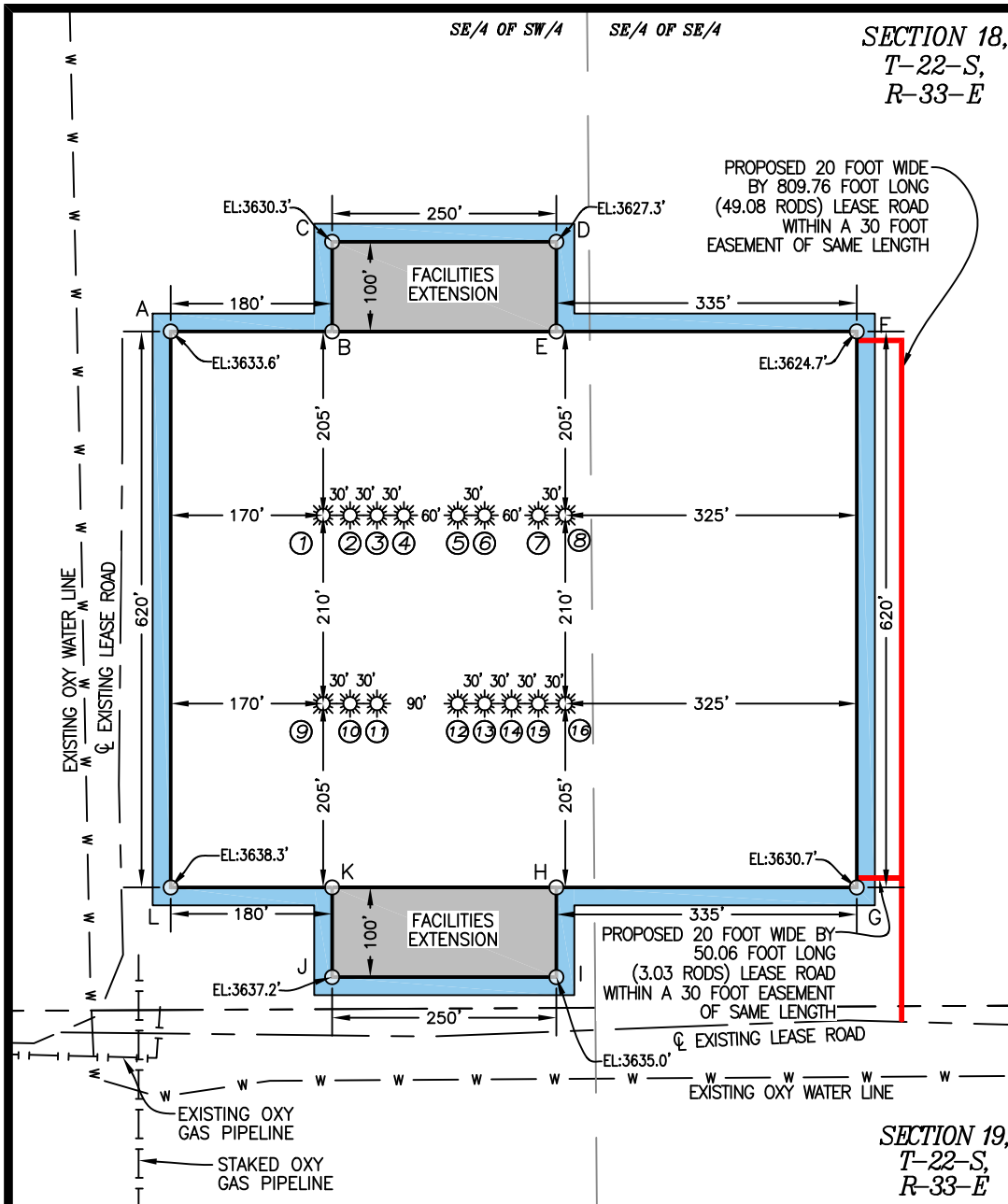
SECTION 18,
T-22-S,
R-33-E

NAD 83

A	E:(X)764971.71 N:(Y)505161.59	LAT:32.38667612 LON:-103.60885618
B	E:(X)765151.71 N:(Y)505161.59	LAT:32.38667275 LON:-103.60827310
C	E:(X)765151.71 N:(Y)505261.59	LAT:32.38694762 LON:-103.60827091
D	E:(X)765401.71 N:(Y)505261.60	LAT:32.38694298 LON:-103.60746108
E	E:(X)765401.71 N:(Y)505161.60	LAT:32.38666812 LON:-103.60746327
F	E:(X)765736.71 N:(Y)505161.59	LAT:32.38666185 LON:-103.60637809
G	E:(X)765736.71 N:(Y)504541.59	LAT:32.38495771 LON:-103.60639174
H	E:(X)765401.71 N:(Y)504541.60	LAT:32.38496397 LON:-103.60747689
I	E:(X)765401.72 N:(Y)504441.60	LAT:32.38468911 LON:-103.60747908
J	E:(X)765151.72 N:(Y)504441.59	LAT:32.38469375 LON:-103.60828890
K	E:(X)765151.71 N:(Y)504541.59	LAT:32.38496861 LON:-103.60828671
L	E:(X)764971.71 N:(Y)504541.59	LAT:32.38497198 LON:-103.60886978

NAD 27

A	E:(X)723789.15 N:(Y)505101.10	LAT:32.38655286 LON:-103.60837089
B	E:(X)723969.15 N:(Y)505101.10	LAT:32.3865495 LON:-103.60778783
C	E:(X)723969.15 N:(Y)505201.09	LAT:32.38682436 LON:-103.60778562
D	E:(X)724219.15 N:(Y)505201.10	LAT:32.38681973 LON:-103.60697581
E	E:(X)724219.14 N:(Y)505101.11	LAT:32.38654486 LON:-103.60697802
F	E:(X)724554.14 N:(Y)505101.09	LAT:32.38653858 LON:-103.60589287
G	E:(X)724554.13 N:(Y)504481.11	LAT:32.38483443 LON:-103.60590658
H	E:(X)724219.13 N:(Y)504481.12	LAT:32.38484072 LON:-103.6069917
I	E:(X)724219.14 N:(Y)504381.13	LAT:32.38456586 LON:-103.60699388
J	E:(X)723968.14 N:(Y)504381.12	LAT:32.38457049 LON:-103.60780367
K	E:(X)723969.13 N:(Y)504481.11	LAT:32.38484535 LON:-103.6078015
L	E:(X)723789.13 N:(Y)504481.11	LAT:32.38484871 LON:-103.60838455



12/03/2021 12/22/2020
DATE SURVEYED DATE DRAWN

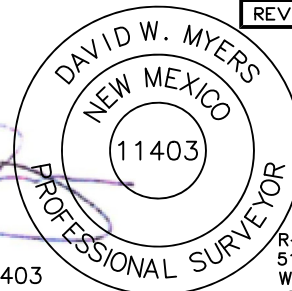
2 03/16/2022 MWS
REV. DATE BY

MARCH 16, 2022

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.9997856 CONVERGENCE OF 0.37421667°.)

LEGEND	
—	EXISTING ROAD
—	PROPOSED ROAD
—	SURFACE SITE EDGE
—	PIPELINE
⊕	MONUMENT
●	QUARTER SPLIT
—	OHP
x	FENCE
—	SECTION LINE
—	PROPERTY LINE
—	WATER LINE
—	SALT WATER LINE



DAVID W. MYERS 11403

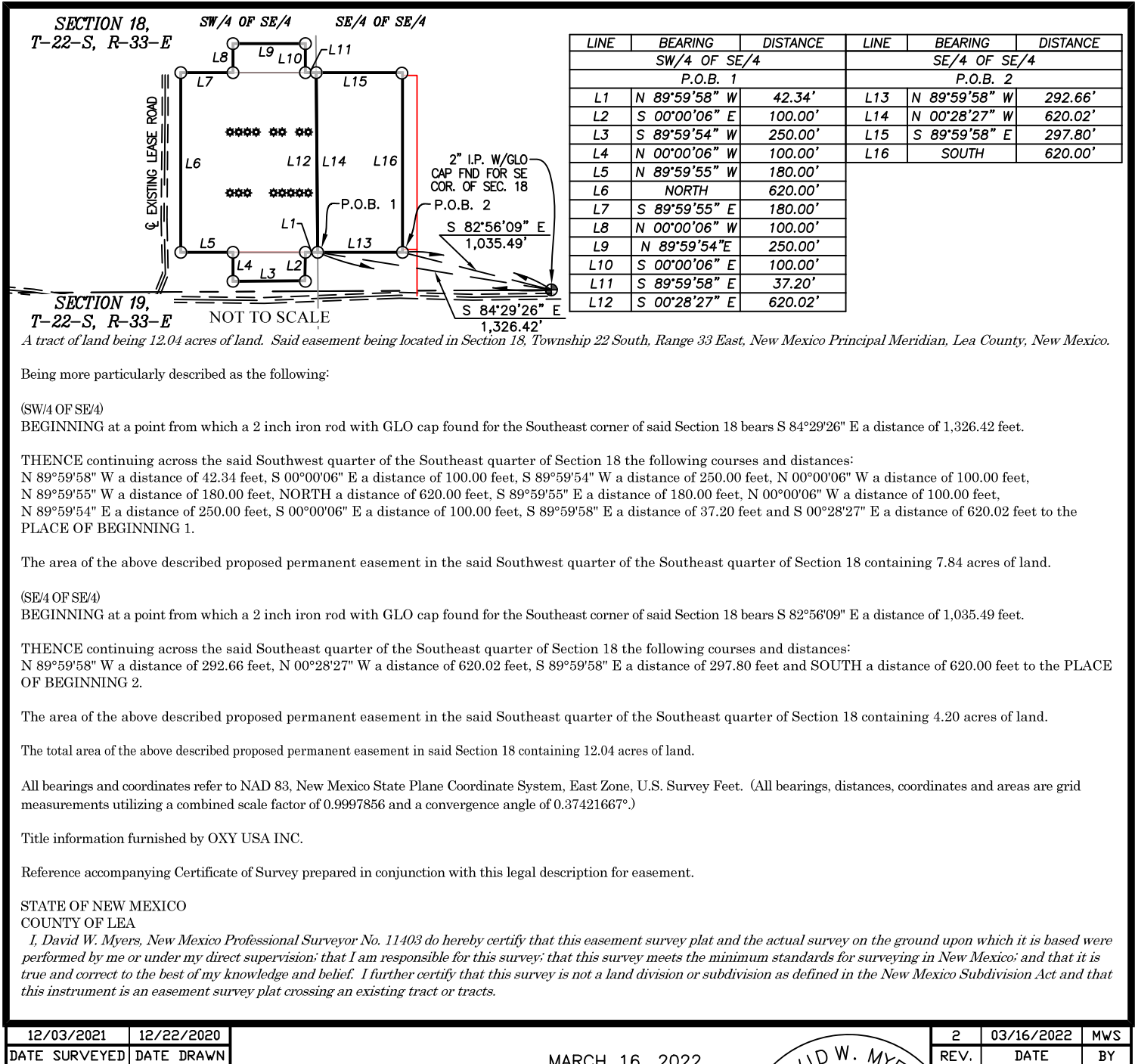


PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST. UNIT B
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4083_001
PAGE 1 OF 3



SITE PLAN

REDTNK_T22S-R33E_1802
 SEC. 18 TWP. 22-S RGE. 33-E
 SURVEY: N.M.P.M.
 COUNTY: LEA
 OPERATOR: OXY USA, INC.
 U.S.G.S. TOPOGRAPHIC MAP: GRAMA RIDGE, N.M.
 FAA PERMIT NEEDED: NO

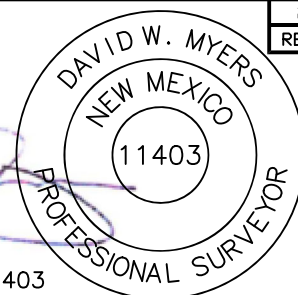


MARCH 16, 2022

2	03/16/2022	MWS
REV.	DATE	BY

LEGEND	
—	EXISTING ROAD
—	PROPOSED ROAD
—	SURFACE SITE EDGE
—	PIPELINE
⊕	MONUMENT
●	QUARTER SPLIT
—	OHP
—	FENCE
—	SECTION LINE
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—	WATER LINE
—	SALT WATER LINE

DAVID W. MYERS 11403



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 PAGE 2 OF 3



SITE PLAN

REDTNK_T22S-R33E_1802
SEC. 18 TWP. 22-S RGE. 33-E
SURVEY: N.M.P.M.

COUNTY: LEA
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: GRAMA RIDGE, N.M.
FAA PERMIT NEEDED: NO

WELL 1 SENILE FELINES 18_7 STATE COM 312H OXY USA, INC. 551' FSL 1618' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765141.77' / Y:504956.57' LAT:32.38610949N / LON:103.60830999W NAD 27, SPCS NM EAST X:72359.15' / Y:504896.11' LAT:32.38598623N / LON:103.60782472W ELEVATION = 3633'	WELL 2 SENILE FELINES 18_7 STATE COM 34H OXY USA, INC. 551' FSL 1588' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765171.69' / Y:504956.59' LAT:32.38610893N / LON:103.60821281W NAD 27, SPCS NM EAST X:723989.15' / Y:504896.11' LAT:32.38598567N / LON:103.60772755W ELEVATION = 3632'	WELL 3 SENILE FELINES 18_7 STATE COM 313H OXY USA, INC. 550' FSL 1558' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765201.77' / Y:504956.50' LAT:32.38610837N / LON:103.60811564W NAD 27, SPCS NM EAST X:724019.15' / Y:504896.11' LAT:32.38598511N / LON:103.60763037W ELEVATION = 3632'	WELL 4 SENILE FELINES 18_7 STATE COM 35H OXY USA, INC. 550' FSL 1528' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765231.70' / Y:504956.57' LAT:32.38610781N / LON:103.60801846W NAD 27, SPCS NM EAST X:724049.15' / Y:504896.11' LAT:32.38598455N / LON:103.60753320W ELEVATION = 3632'
WELL 5 SENILE FELINES 18_7 STATE COM 73H OXY USA, INC. 550' FSL 1468' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765291.70' / Y:504956.60' LAT:32.38610669N / LON:103.60782410W NAD 27, SPCS NM EAST X:724109.14' / Y:504896.11' LAT:32.38598344N / LON:103.60733884W ELEVATION = 3631'	WELL 6 SENILE FELINES 18_7 STATE COM 74H OXY USA, INC. 550' FSL 1438' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765321.75' / Y:504956.59' LAT:32.38610613N / LON:103.60772692W NAD 27, SPCS NM EAST X:724139.15' / Y:504896.11' LAT:32.38598288N / LON:103.60724166W ELEVATION = 3631'	WELL 7 SENILE FELINES 18_7 STATE COM 43H OXY USA, INC. 549' FSL 1378' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765381.66' / Y:504956.56' LAT:32.38610501N / LON:103.60753256W NAD 27, SPCS NM EAST X:724199.14' / Y:504896.11' LAT:32.38598176N / LON:103.60704731W ELEVATION = 3629'	WELL 8 SENILE FELINES 18_7 STATE COM 44H OXY USA, INC. 549' FSL 1348' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765411.71' / Y:504956.60' LAT:32.38610445N / LON:103.60743538W NAD 27, SPCS NM EAST X:724229.14' / Y:504896.11' LAT:32.38598120N / LON:103.60695013W ELEVATION = 3629'
WELL 9 SENILE FELINES 18_7 STATE COM 24H OXY USA, INC. 341' FSL 1620' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765321.69' / Y:504746.58' LAT:32.38553228N / LON:103.60831461W NAD 27, SPCS NM EAST X:723959.14' / Y:504686.11' LAT:32.38540902N / LON:103.60782936W ELEVATION = 3634'	WELL 10 SENILE FELINES 18_7 STATE COM 25H OXY USA, INC. 341' FSL 1590' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765171.68' / Y:504746.57' LAT:32.38553172N / LON:103.60821743W NAD 27, SPCS NM EAST X:723989.14' / Y:504686.11' LAT:32.38540846N / LON:103.60773218W ELEVATION = 3633'	WELL 11 SENILE FELINES 18_7 STATE COM 26H OXY USA, INC. 340' FSL 1560' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765201.72' / Y:504746.59' LAT:32.38553116N / LON:103.60812025W NAD 27, SPCS NM EAST X:724019.14' / Y:504686.11' LAT:32.38540790N / LON:103.60763500W ELEVATION = 3633'	WELL 12 SENILE FELINES 18_7 STATE COM 14H OXY USA, INC. 340' FSL 1470' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765291.68' / Y:504746.54' LAT:32.38552948N / LON:103.60782871W NAD 27, SPCS NM EAST X:724109.14' / Y:504686.11' LAT:32.38540622N / LON:103.60734348W ELEVATION = 3632'
WELL 13 SENILE FELINES 18_7 STATE COM 3H OXY USA, INC. 340' FSL 1440' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765321.69' / Y:504746.59' LAT:32.38552892N / LON:103.60773153W NAD 27, SPCS NM EAST X:724139.14' / Y:504686.11' LAT:32.38540566N / LON:103.60724630W ELEVATION = 3632'	WELL 14 SENILE FELINES 18_7 STATE COM 15H OXY USA, INC. 340' FSL 1410' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765351.69' / Y:504746.54' LAT:32.38552836N / LON:103.60763435W NAD 27, SPCS NM EAST X:724169.14' / Y:504686.11' LAT:32.38540510N / LON:103.60714912W ELEVATION = 3631'	WELL 15 SENILE FELINES 18_7 STATE COM 4H OXY USA, INC. 339' FSL 1380' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765381.65' / Y:504746.57' LAT:32.38552780N / LON:103.60753717W NAD 27, SPCS NM EAST X:724199.14' / Y:504686.11' LAT:32.38540454N / LON:103.60705195W ELEVATION = 3631'	WELL 16 SENILE FELINES 18_7 STATE COM 16H OXY USA, INC. 339' FSL 1350' FEL, SECTION 18 NAD 83, SPCS NM EAST X:765411.68' / Y:504746.56' LAT:32.38552724N / LON:103.60744000W NAD 27, SPCS NM EAST X:724229.14' / Y:504686.11' LAT:32.38540398N / LON:103.60695477W ELEVATION = 3630'

12/03/2021	12/22/2020
DATE SURVEYED	DATE DRAWN

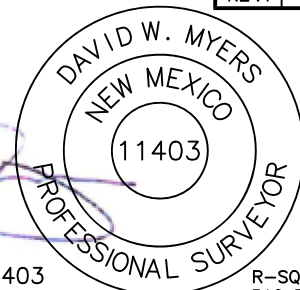
2	03/16/2022	MWS
REV.	DATE	BY

MARCH 16, 2022

BASIS OF BEARING

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LEGEND				
— — — — —	EXISTING ROAD	— — — — —	OHP	OVERHEAD POWER
— — — — —	PROPOSED ROAD	— x — — — — —	x	FENCE
— — — — —	SURFACE SITE EDGE	— — — — —		SECTION LINE
— — — — —	PIPELINE	— — — — —	— — — — —	PROPERTY LINE
— — — — —		— — — — —	w	WATER LINE
— — — — —		— — — — —	SWD	SALT WATER LINE
⊕	MONUMENT	●	QUARTER SPLIT	



DAVID W. MYERS 11403

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PAGE 3 OF 3



WELL PAD CONTOURS

REDTNK T22S-R33E 1802

SEC. 18 TWP. 22-S RGE. 33-E

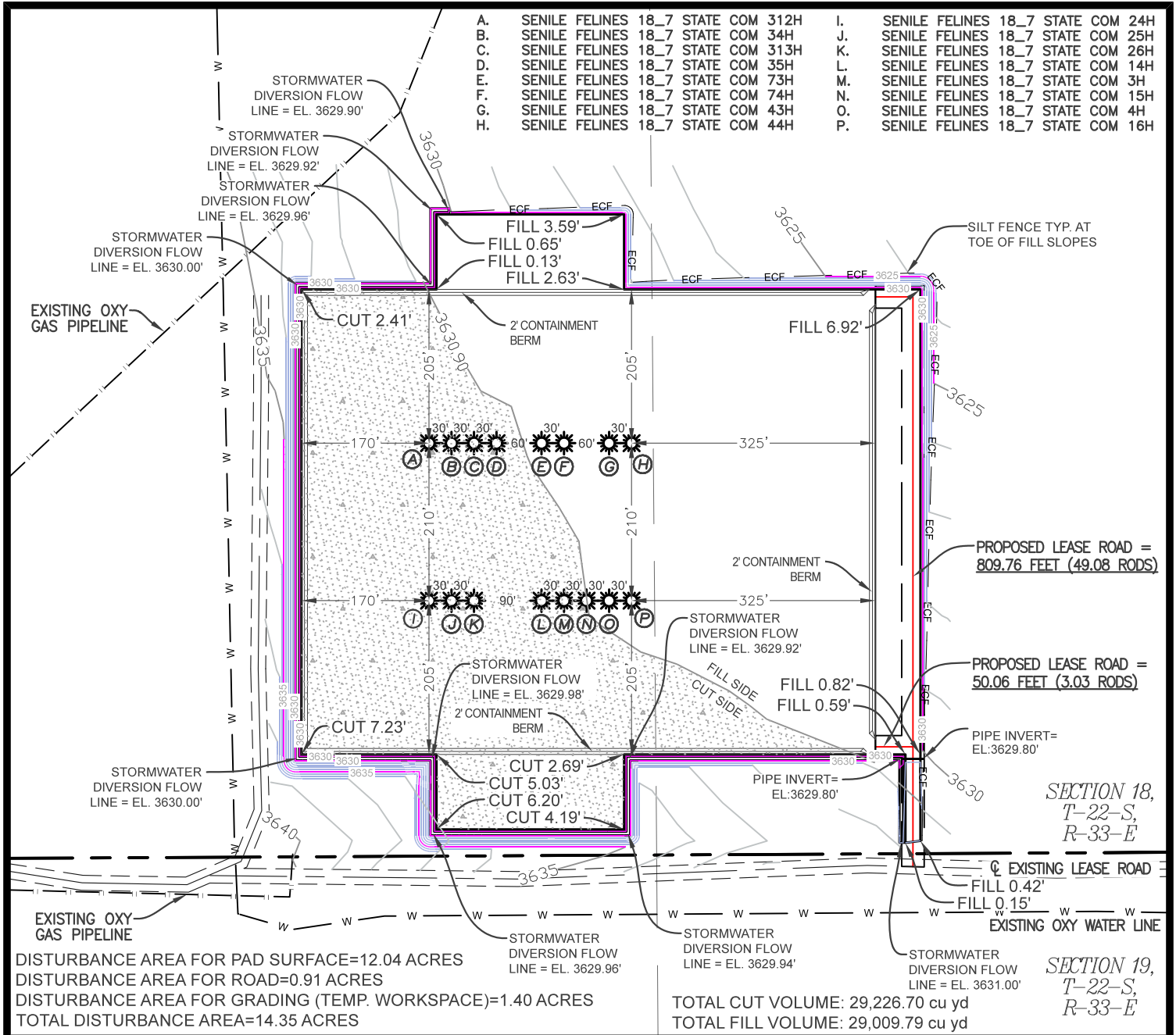
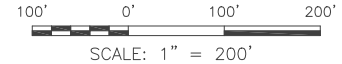
SURVEY: N.M.P.M.

COUNTY: LEA

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: GRAMA RIDGE, N.M.

FAA PERMIT NEEDED: NO



12/03/2021	12/30/2020	03/16/2022
DATE SURVEYED	DATE DRAWN	REV. 2

LEGEND	
— — — — —	EDGE OF ROAD
— — — — —	Q. OF ROAD
— — — — —	SALT WATER DISP.
— — — — —	PROP. 1' CTR. LINES
— — — — —	PROP. 5' CTR. LINES
— — — — —	EROSION CON. FENCE
— — — — —	OVERHEAD POWER FENCE
— — — — —	WATER LINE
— — — — —	PIPELINE
— — — — —	PROP. PAD SURFACE
— — — — —	PROPERTY LINE
— — — — —	PROP. LEASE ROAD
— — — — —	EXIST. 1' CTR. LINES
— — — — —	EXIST. 5' CTR. LINES

THIS DOCUMENT IS NOT TO BE USED FOR
CONSTRUCTION, BIDDING, RECORDATION,
CONVEYANCE, SALE OR THE BASIS FOR THE
ISSUANCE OF A PERMIT.



PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST. UNIT B
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4083_005
PAGE 1 OF 1

Oxy USA Inc. - Senile Felines 18_7 State Com 34H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	12032	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22317	Deepest Expected Fresh Water (ft):	902

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	902	902	
Salado	1548	1548	Salt
Castile	2775	2775	Salt
Delaware	4853	4853	Oil/Gas/Brine
Bell Canyon	4929	4929	Oil/Gas/Brine
Cherry Canyon	5869	5869	Oil/Gas/Brine
Brushy Canyon	7110	7110	Losses
Bone Spring	8734	8732	Oil/Gas
Bone Spring 1st	9876	9859	Oil/Gas
Bone Spring 2nd	10526	10499	Oil/Gas
Bone Spring 3rd	11737	11689	Oil/Gas
Wolfcamp	12134	11973	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	962	0	962	13.375	54.5	J-55	BTC
Intermediate	9.875	0	11301	0	11260	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22317	0	12032	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%	962	-	1005	1337	Circulate
Int.	1	Intermediate 1S - Tail	OH x Csg	0.2148	5%	11,301	7,360	539	889	Circulate
Int.	2	Intermediate 2S - Tail BH	OH x Csg	0.2148	25%	7,360	962	895	1718	Bradenhead
Int.	2	Intermediate 2S - Tail BH	Csg x Csg	0.5509	0%	962	-	276	530	Bradenhead
Prod.	1	Production - Tail	OH x Csg	0.2526	20%	22,317	11,301	2420	3339	Circulate
Prod.	1	Production - Tail	Csg x Csg	0.0999	0%	11,301	10,801	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	12.9	1.92	10.41	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	11260
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	12032
		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	962	0	962	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	962	11301	962	11260	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	11301	22317	11260	12032	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
---	--------------------------------

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	7821 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: 1754 bbls

Attachments

☒ Directional Plan

☒ H2S Contingency Plan

☒ Flex III Attachments

☒ Spudder Rig Attachment

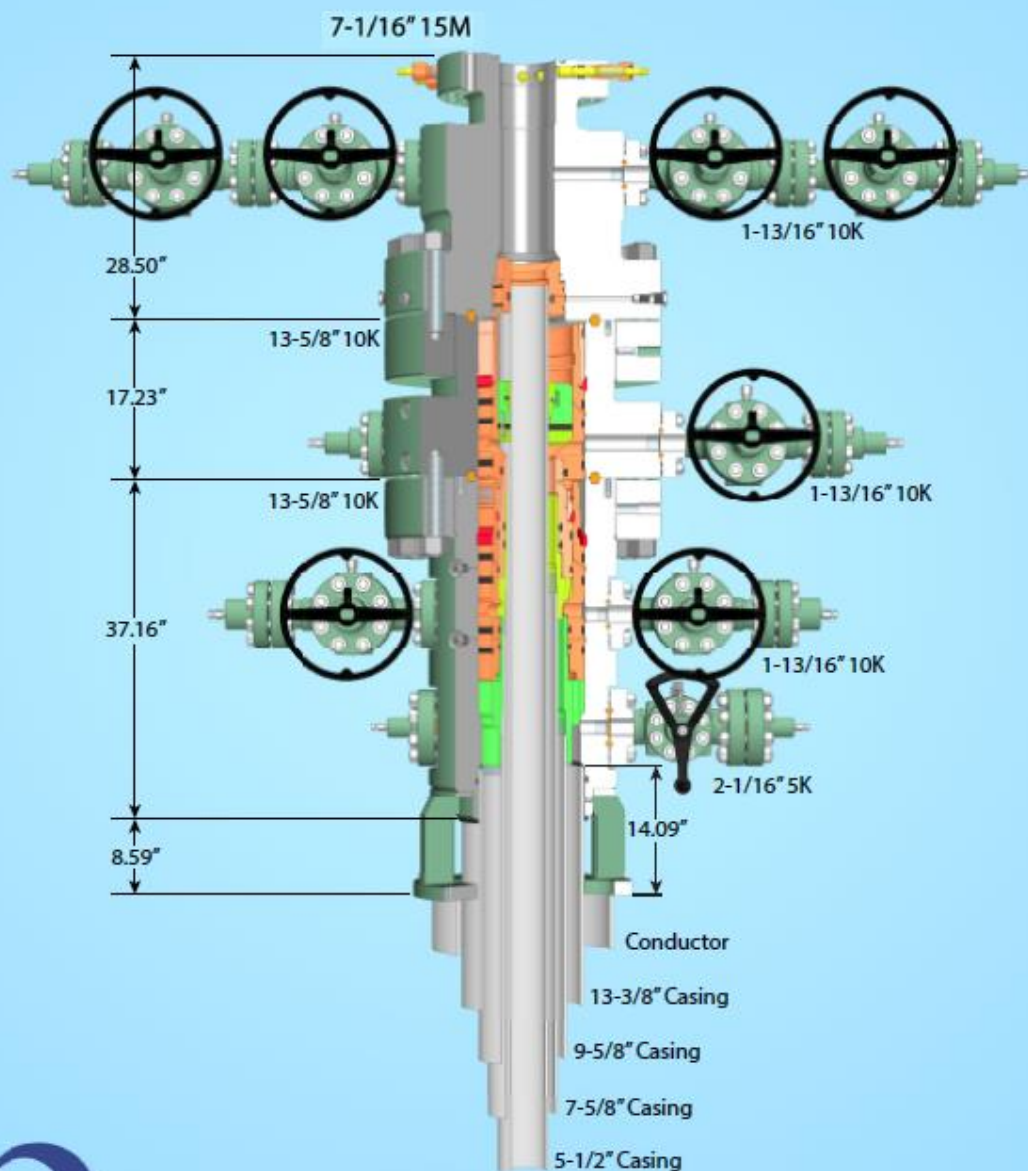
☒ Premium Connection Specs

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



13-5/8" 10K MN-DS Wellhead Four String



1615045

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Senile Felines 18_7

Senile Felines 18_7 State Com 34H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

08 March, 2022

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3657.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3657.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 34H	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 34H					
Well Position		+N/-S	-5.75 ft	Northing:		504,956.59 usft		Latitude:		32.386109	
		+E/-W	1,643.72 ft	Easting:		765,171.71 usft		Longitude:		-103.608213	
Position Uncertainty		1.00 ft		Wellhead Elevation:				Ground Level:		3,632.00 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 (°)
	-2.50	0.00	0.00	359.85

Plan Survey Tool Program	Date	3/8/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,317.43	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	
8,055.00	0.00	0.00	8,055.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,055.00	10.00	174.56	9,049.93	-86.65	8.25	1.00	1.00	0.00	174.56	
11,400.71	10.00	174.56	11,360.00	-492.15	46.87	0.00	0.00	0.00	0.00	
12,401.77	90.14	359.55	12,032.00	73.68	52.70	10.00	8.01	-17.48	-174.94	
22,317.43	90.14	359.55	12,007.00	9,989.00	-25.96	0.00	0.00	0.00	0.00	PBHL (Senile)

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Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3657.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3657.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 34H	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
5,200.00	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
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3657.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3657.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 34H	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)
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,055.00	0.00	0.00	8,055.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.45	174.56	8,100.00	-0.18	0.02	-0.18	1.00	1.00	0.00
8,200.00	1.45	174.56	8,199.98	-1.83	0.17	-1.83	1.00	1.00	0.00
8,300.00	2.45	174.56	8,299.93	-5.21	0.50	-5.22	1.00	1.00	0.00
8,400.00	3.45	174.56	8,399.79	-10.34	0.98	-10.34	1.00	1.00	0.00
8,500.00	4.45	174.56	8,499.55	-17.19	1.64	-17.20	1.00	1.00	0.00
8,600.00	5.45	174.56	8,599.18	-25.78	2.46	-25.79	1.00	1.00	0.00
8,700.00	6.45	174.56	8,698.64	-36.10	3.44	-36.11	1.00	1.00	0.00
8,800.00	7.45	174.56	8,797.90	-48.15	4.59	-48.16	1.00	1.00	0.00
8,900.00	8.45	174.56	8,896.94	-61.92	5.90	-61.93	1.00	1.00	0.00
9,000.00	9.45	174.56	8,995.72	-77.40	7.37	-77.42	1.00	1.00	0.00
9,055.00	10.00	174.56	9,049.93	-86.65	8.25	-86.67	1.00	1.00	0.00
9,100.00	10.00	174.56	9,094.25	-94.43	8.99	-94.46	0.00	0.00	0.00
9,200.00	10.00	174.56	9,192.73	-111.72	10.64	-111.75	0.00	0.00	0.00
9,300.00	10.00	174.56	9,291.21	-129.01	12.29	-129.04	0.00	0.00	0.00
9,400.00	10.00	174.56	9,389.69	-146.29	13.93	-146.33	0.00	0.00	0.00
9,500.00	10.00	174.56	9,488.17	-163.58	15.58	-163.62	0.00	0.00	0.00
9,600.00	10.00	174.56	9,586.65	-180.87	17.22	-180.91	0.00	0.00	0.00
9,700.00	10.00	174.56	9,685.13	-198.15	18.87	-198.20	0.00	0.00	0.00
9,800.00	10.00	174.56	9,783.61	-215.44	20.52	-215.49	0.00	0.00	0.00
9,900.00	10.00	174.56	9,882.09	-232.72	22.16	-232.78	0.00	0.00	0.00
10,000.00	10.00	174.56	9,980.57	-250.01	23.81	-250.07	0.00	0.00	0.00
10,100.00	10.00	174.56	10,079.06	-267.30	25.46	-267.36	0.00	0.00	0.00
10,200.00	10.00	174.56	10,177.54	-284.58	27.10	-284.65	0.00	0.00	0.00
10,300.00	10.00	174.56	10,276.02	-301.87	28.75	-301.95	0.00	0.00	0.00
10,400.00	10.00	174.56	10,374.50	-319.16	30.39	-319.24	0.00	0.00	0.00
10,500.00	10.00	174.56	10,472.98	-336.44	32.04	-336.53	0.00	0.00	0.00
10,600.00	10.00	174.56	10,571.46	-353.73	33.69	-353.82	0.00	0.00	0.00
10,700.00	10.00	174.56	10,669.94	-371.02	35.33	-371.11	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3657.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3657.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 34H	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	174.56	10,768.42	-388.30	36.98	-388.40	0.00	0.00	0.00
10,900.00	10.00	174.56	10,866.90	-405.59	38.63	-405.69	0.00	0.00	0.00
11,000.00	10.00	174.56	10,965.38	-422.88	40.27	-422.98	0.00	0.00	0.00
11,100.00	10.00	174.56	11,063.86	-440.16	41.92	-440.27	0.00	0.00	0.00
11,200.00	10.00	174.56	11,162.34	-457.45	43.56	-457.56	0.00	0.00	0.00
11,300.00	10.00	174.56	11,260.82	-474.74	45.21	-474.85	0.00	0.00	0.00
11,400.00	10.00	174.56	11,359.31	-492.02	46.86	-492.14	0.00	0.00	0.00
11,400.71	10.00	174.56	11,360.00	-492.15	46.87	-492.27	0.00	0.00	0.00
11,500.00	0.88	91.68	11,458.78	-500.77	48.45	-500.90	10.00	-9.19	-83.47
11,600.00	10.01	4.53	11,558.27	-492.11	49.91	-492.24	10.00	9.13	-87.15
11,700.00	19.99	1.96	11,654.74	-466.31	51.18	-466.44	10.00	9.98	-2.57
11,800.00	29.98	1.07	11,745.27	-424.14	52.24	-424.28	10.00	9.99	-0.89
11,900.00	39.98	0.60	11,827.11	-366.90	53.04	-367.03	10.00	10.00	-0.48
12,000.00	49.97	0.29	11,897.76	-296.31	53.57	-296.45	10.00	10.00	-0.31
12,100.00	59.97	0.06	11,955.08	-214.53	53.80	-214.67	10.00	10.00	-0.23
12,200.00	69.97	359.87	11,997.34	-124.03	53.73	-124.17	10.00	10.00	-0.19
12,300.00	79.97	359.70	12,023.24	-27.58	53.37	-27.72	10.00	10.00	-0.16
12,400.00	89.97	359.55	12,032.00	71.91	52.72	71.77	10.00	10.00	-0.15
12,401.77	90.14	359.55	12,032.00	73.68	52.70	73.54	10.00	10.00	-0.15
12,500.00	90.14	359.55	12,031.75	171.91	51.92	171.77	0.00	0.00	0.00
12,600.00	90.14	359.55	12,031.50	271.90	51.13	271.77	0.00	0.00	0.00
12,700.00	90.14	359.55	12,031.25	371.90	50.34	371.77	0.00	0.00	0.00
12,800.00	90.14	359.55	12,030.99	471.90	49.54	471.76	0.00	0.00	0.00
12,900.00	90.14	359.55	12,030.74	571.89	48.75	571.76	0.00	0.00	0.00
13,000.00	90.14	359.55	12,030.49	671.89	47.96	671.76	0.00	0.00	0.00
13,100.00	90.14	359.55	12,030.24	771.88	47.16	771.76	0.00	0.00	0.00
13,200.00	90.14	359.55	12,029.99	871.88	46.37	871.76	0.00	0.00	0.00
13,300.00	90.14	359.55	12,029.73	971.88	45.58	971.76	0.00	0.00	0.00
13,400.00	90.14	359.55	12,029.48	1,071.87	44.78	1,071.75	0.00	0.00	0.00
13,500.00	90.14	359.55	12,029.23	1,171.87	43.99	1,171.75	0.00	0.00	0.00
13,600.00	90.14	359.55	12,028.98	1,271.87	43.20	1,271.75	0.00	0.00	0.00
13,700.00	90.14	359.55	12,028.72	1,371.86	42.40	1,371.75	0.00	0.00	0.00
13,800.00	90.14	359.55	12,028.47	1,471.86	41.61	1,471.75	0.00	0.00	0.00
13,900.00	90.14	359.55	12,028.22	1,571.86	40.82	1,571.75	0.00	0.00	0.00
14,000.00	90.14	359.55	12,027.97	1,671.85	40.02	1,671.74	0.00	0.00	0.00
14,100.00	90.14	359.55	12,027.72	1,771.85	39.23	1,771.74	0.00	0.00	0.00
14,200.00	90.14	359.55	12,027.46	1,871.85	38.44	1,871.74	0.00	0.00	0.00
14,300.00	90.14	359.55	12,027.21	1,971.84	37.64	1,971.74	0.00	0.00	0.00
14,400.00	90.14	359.55	12,026.96	2,071.84	36.85	2,071.74	0.00	0.00	0.00
14,500.00	90.14	359.55	12,026.71	2,171.84	36.06	2,171.74	0.00	0.00	0.00
14,600.00	90.14	359.55	12,026.46	2,271.83	35.26	2,271.73	0.00	0.00	0.00
14,700.00	90.14	359.55	12,026.20	2,371.83	34.47	2,371.73	0.00	0.00	0.00
14,800.00	90.14	359.55	12,025.95	2,471.83	33.68	2,471.73	0.00	0.00	0.00
14,900.00	90.14	359.55	12,025.70	2,571.82	32.88	2,571.73	0.00	0.00	0.00
15,000.00	90.14	359.55	12,025.45	2,671.82	32.09	2,671.73	0.00	0.00	0.00
15,100.00	90.14	359.55	12,025.20	2,771.82	31.30	2,771.72	0.00	0.00	0.00
15,200.00	90.14	359.55	12,024.94	2,871.81	30.50	2,871.72	0.00	0.00	0.00
15,300.00	90.14	359.55	12,024.69	2,971.81	29.71	2,971.72	0.00	0.00	0.00
15,400.00	90.14	359.55	12,024.44	3,071.81	28.92	3,071.72	0.00	0.00	0.00
15,500.00	90.14	359.55	12,024.19	3,171.80	28.12	3,171.72	0.00	0.00	0.00
15,600.00	90.14	359.55	12,023.94	3,271.80	27.33	3,271.72	0.00	0.00	0.00
15,700.00	90.14	359.55	12,023.68	3,371.79	26.54	3,371.71	0.00	0.00	0.00
15,800.00	90.14	359.55	12,023.43	3,471.79	25.74	3,471.71	0.00	0.00	0.00
15,900.00	90.14	359.55	12,023.18	3,571.79	24.95	3,571.71	0.00	0.00	0.00
16,000.00	90.14	359.55	12,022.93	3,671.78	24.16	3,671.71	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3657.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3657.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 34H	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	90.14	359.55	12,022.67	3,771.78	23.36	3,771.71	0.00	0.00	0.00
16,200.00	90.14	359.55	12,022.42	3,871.78	22.57	3,871.71	0.00	0.00	0.00
16,300.00	90.14	359.55	12,022.17	3,971.77	21.78	3,971.70	0.00	0.00	0.00
16,400.00	90.14	359.55	12,021.92	4,071.77	20.98	4,071.70	0.00	0.00	0.00
16,500.00	90.14	359.55	12,021.67	4,171.77	20.19	4,171.70	0.00	0.00	0.00
16,600.00	90.14	359.55	12,021.41	4,271.76	19.40	4,271.70	0.00	0.00	0.00
16,700.00	90.14	359.55	12,021.16	4,371.76	18.60	4,371.70	0.00	0.00	0.00
16,800.00	90.14	359.55	12,020.91	4,471.76	17.81	4,471.70	0.00	0.00	0.00
16,900.00	90.14	359.55	12,020.66	4,571.75	17.02	4,571.69	0.00	0.00	0.00
17,000.00	90.14	359.55	12,020.41	4,671.75	16.22	4,671.69	0.00	0.00	0.00
17,100.00	90.14	359.55	12,020.15	4,771.75	15.43	4,771.69	0.00	0.00	0.00
17,200.00	90.14	359.55	12,019.90	4,871.74	14.64	4,871.69	0.00	0.00	0.00
17,300.00	90.14	359.55	12,019.65	4,971.74	13.84	4,971.69	0.00	0.00	0.00
17,400.00	90.14	359.55	12,019.40	5,071.74	13.05	5,071.68	0.00	0.00	0.00
17,500.00	90.14	359.55	12,019.15	5,171.73	12.26	5,171.68	0.00	0.00	0.00
17,600.00	90.14	359.55	12,018.89	5,271.73	11.46	5,271.68	0.00	0.00	0.00
17,700.00	90.14	359.55	12,018.64	5,371.73	10.67	5,371.68	0.00	0.00	0.00
17,800.00	90.14	359.55	12,018.39	5,471.72	9.88	5,471.68	0.00	0.00	0.00
17,900.00	90.14	359.55	12,018.14	5,571.72	9.08	5,571.68	0.00	0.00	0.00
18,000.00	90.14	359.55	12,017.88	5,671.72	8.29	5,671.67	0.00	0.00	0.00
18,100.00	90.14	359.55	12,017.63	5,771.71	7.50	5,771.67	0.00	0.00	0.00
18,200.00	90.14	359.55	12,017.38	5,871.71	6.70	5,871.67	0.00	0.00	0.00
18,300.00	90.14	359.55	12,017.13	5,971.70	5.91	5,971.67	0.00	0.00	0.00
18,400.00	90.14	359.55	12,016.88	6,071.70	5.12	6,071.67	0.00	0.00	0.00
18,500.00	90.14	359.55	12,016.62	6,171.70	4.32	6,171.67	0.00	0.00	0.00
18,600.00	90.14	359.55	12,016.37	6,271.69	3.53	6,271.66	0.00	0.00	0.00
18,700.00	90.14	359.55	12,016.12	6,371.69	2.74	6,371.66	0.00	0.00	0.00
18,800.00	90.14	359.55	12,015.87	6,471.69	1.94	6,471.66	0.00	0.00	0.00
18,900.00	90.14	359.55	12,015.62	6,571.68	1.15	6,571.66	0.00	0.00	0.00
19,000.00	90.14	359.55	12,015.36	6,671.68	0.36	6,671.66	0.00	0.00	0.00
19,100.00	90.14	359.55	12,015.11	6,771.68	-0.44	6,771.66	0.00	0.00	0.00
19,200.00	90.14	359.55	12,014.86	6,871.67	-1.23	6,871.65	0.00	0.00	0.00
19,300.00	90.14	359.55	12,014.61	6,971.67	-2.02	6,971.65	0.00	0.00	0.00
19,400.00	90.14	359.55	12,014.36	7,071.67	-2.82	7,071.65	0.00	0.00	0.00
19,500.00	90.14	359.55	12,014.10	7,171.66	-3.61	7,171.65	0.00	0.00	0.00
19,600.00	90.14	359.55	12,013.85	7,271.66	-4.40	7,271.65	0.00	0.00	0.00
19,700.00	90.14	359.55	12,013.60	7,371.66	-5.20	7,371.64	0.00	0.00	0.00
19,800.00	90.14	359.55	12,013.35	7,471.65	-5.99	7,471.64	0.00	0.00	0.00
19,900.00	90.14	359.55	12,013.09	7,571.65	-6.78	7,571.64	0.00	0.00	0.00
20,000.00	90.14	359.55	12,012.84	7,671.65	-7.58	7,671.64	0.00	0.00	0.00
20,100.00	90.14	359.55	12,012.59	7,771.64	-8.37	7,771.64	0.00	0.00	0.00
20,200.00	90.14	359.55	12,012.34	7,871.64	-9.16	7,871.64	0.00	0.00	0.00
20,300.00	90.14	359.55	12,012.09	7,971.64	-9.96	7,971.63	0.00	0.00	0.00
20,400.00	90.14	359.55	12,011.83	8,071.63	-10.75	8,071.63	0.00	0.00	0.00
20,500.00	90.14	359.55	12,011.58	8,171.63	-11.54	8,171.63	0.00	0.00	0.00
20,600.00	90.14	359.55	12,011.33	8,271.63	-12.34	8,271.63	0.00	0.00	0.00
20,700.00	90.14	359.55	12,011.08	8,371.62	-13.13	8,371.63	0.00	0.00	0.00
20,800.00	90.14	359.55	12,010.83	8,471.62	-13.92	8,471.63	0.00	0.00	0.00
20,900.00	90.14	359.55	12,010.57	8,571.61	-14.72	8,571.62	0.00	0.00	0.00
21,000.00	90.14	359.55	12,010.32	8,671.61	-15.51	8,671.62	0.00	0.00	0.00
21,100.00	90.14	359.55	12,010.07	8,771.61	-16.30	8,771.62	0.00	0.00	0.00
21,200.00	90.14	359.55	12,009.82	8,871.60	-17.10	8,871.62	0.00	0.00	0.00
21,300.00	90.14	359.55	12,009.57	8,971.60	-17.89	8,971.62	0.00	0.00	0.00
21,400.00	90.14	359.55	12,009.31	9,071.60	-18.68	9,071.62	0.00	0.00	0.00
21,500.00	90.14	359.55	12,009.06	9,171.59	-19.48	9,171.61	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Senile Felines 18_7 State Com 34H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3657.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3657.00ft
Site:	Senile Felines 18_7	North Reference:	Grid
Well:	Senile Felines 18_7 State Com 34H	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	90.14	359.55	12,008.81	9,271.59	-20.27	9,271.61	0.00	0.00	0.00
21,700.00	90.14	359.55	12,008.56	9,371.59	-21.06	9,371.61	0.00	0.00	0.00
21,800.00	90.14	359.55	12,008.30	9,471.58	-21.86	9,471.61	0.00	0.00	0.00
21,900.00	90.14	359.55	12,008.05	9,571.58	-22.65	9,571.61	0.00	0.00	0.00
22,000.00	90.14	359.55	12,007.80	9,671.58	-23.44	9,671.60	0.00	0.00	0.00
22,100.00	90.14	359.55	12,007.55	9,771.57	-24.24	9,771.60	0.00	0.00	0.00
22,200.00	90.14	359.55	12,007.30	9,871.57	-25.03	9,871.60	0.00	0.00	0.00
22,300.00	90.14	359.55	12,007.04	9,971.57	-25.82	9,971.60	0.00	0.00	0.00
22,317.43	90.14	359.55	12,007.00	9,989.00	-25.96	9,989.03	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
- hit/miss target									
- Shape									
PBHL (Senile Felines	0.00	0.00	12,007.00	9,989.00	-25.96	514,945.23	765,145.75	32.413564	-103.608078
- plan hits target center									
- Point									
FTP (Senile Felines	0.00	0.00	12,032.00	-450.27	56.80	504,506.34	765,228.51	32.384870	-103.608039
- plan misses target center by 202.78ft at 11986.15ft MD (11888.73 TVD, -306.80 N, 53.51 E)									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
899.00	899.00	RUSTLER				
1,545.00	1,545.00	SALADO				
2,772.00	2,772.00	CASTILE				
4,850.00	4,850.00	DELAWARE				
4,929.00	4,929.00	BELL CANYON				
5,866.00	5,866.00	CHERRY CANYON				
7,107.00	7,107.00	BRUSHY CANYON				
8,733.59	8,732.00	BONE SPRING				
9,873.50	9,856.00	BONE SPRING 1ST				
10,523.38	10,496.00	BONE SPRING 2ND				
11,736.91	11,689.00	BONE SPRING 3RD				
12,131.30	11,970.00	WOLFCAMP				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,055.00	8,055.00	0.00	0.00	Build 1°/100'
9,055.00	9,049.93	-86.65	8.25	Hold 10° Tangent
11,400.71	11,360.00	-492.15	46.87	KOP, Build & Turn 10°/100'
12,401.77	12,032.00	73.68	52.70	Landing Point
22,317.43	12,007.00	9,989.00	-25.96	TD at 22317.43' MD



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
 Site: Senile Felines 18_7
 Well: Senile Felines 18_7 State Com 34H
 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 34H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	504956.59	3632.00 765171.71	32.386109	-103.608213

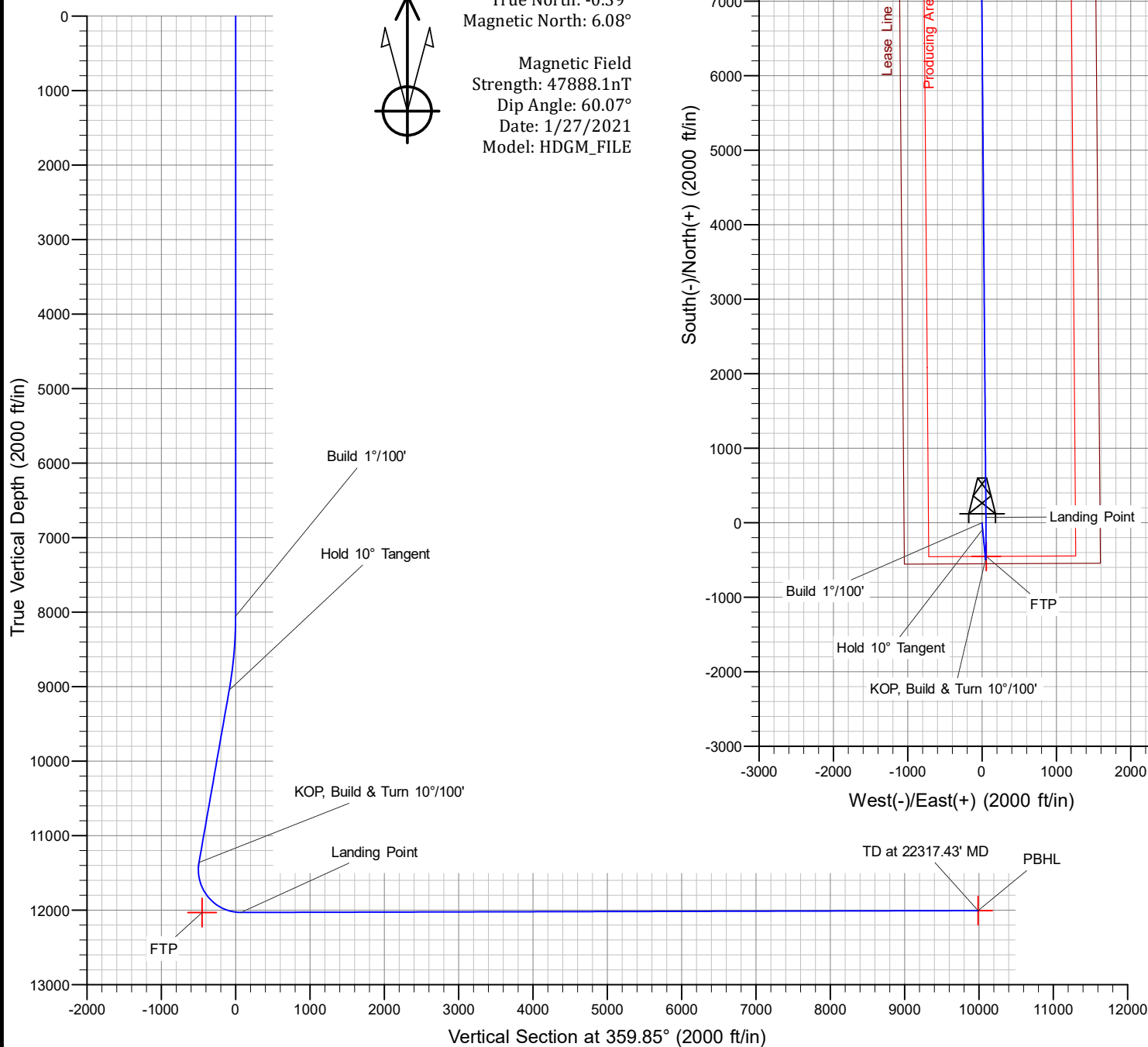
SECTION DETAILS

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	
8055.00	0.00	0.00	8055.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
9055.00	10.00	174.56	9049.93	-86.65	8.25	1.00	174.56	-86.67	Hold 10° Tangent
11400.71	10.00	174.56	11360.00	-492.15	46.87	0.00	0.00	-492.27	KOP, Build & Turn 10°/100'
12401.77	90.14	359.55	12032.00	73.68	52.70	10.00	-174.94	73.54	Landing Point
22317.43	90.14	359.55	12007.00	9988.99	-25.96	0.00	0.00	9989.03	TD at 22317.43' 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





5.500" 20.00 lb/ft P110-CY
TenarisHydril Wedge 461™ Matched
Strength



Special Data Sheet
TH DS-20.0359
12 August 2020
Rev 00

Nominal OD	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min Wall Thickness	87.5%	Type	CASING	Connection OD Option	MATCHED STRENGTH

Pipe Body Data

Geometry			Performance		
Nominal OD	5.500 in.	Nominal ID	4.778 in.	Body Yield Strength	641 x 1000 lbs
Nominal Weight	20.00 lbs/ft	Wall Thickness	0.361 in.	Internal Yield	12640 psi
Standard Drift Diameter	4.653 in.	Plain End Weight	19.83 lbs/ft	SMYS	110000 psi
Special Drift Diameter	N/A	OD Tolerance	API	Collapse Pressure	11110 psi

Connection Data

Geometry		Performance		Make-up Torques	
Matched Strength OD	6.050 in.	Tension Efficiency	100%	Minimum	17000 ft-lbs
Make-up Loss	3.775 in.	Joint Yield Strength	641 x 1000 lbs	Optimum	18000 ft-lbs
Threads per in.	3.40	Internal Yield	12640 psi	Maximum	21600 ft-lbs
Connection OD Option	MATCHED STRENGTH	Compression Efficiency	100%	Operational Limit Torques	
Coupling Length	7.714 in.	Compression Strength	641 x 1000 lbs	Operating Torque	32000 ft-lbs
		Bending	92 °/100 ft	Yield Torque	38000 ft-lbs
		Collapse	11110 psi	Buck-On Torques	
				Minimum	21600 ft-lbs
				Maximum	23100 ft-lbs

Notes

*If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative



TenarisHydril Wedge 425®



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

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

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.	Body Yield Strength	641 x1000 lb
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft	Min. Internal Yield Pressure	12,640 psi
Drift	4.653 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.778 in.			Collapse Pressure	11,100 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.777 in.	Tension Efficiency	90 %	Minimum	15,700 ft-lb
Connection ID	4.734 in.	Joint Yield Strength	577 x1000 lb	Optimum	19,600 ft-lb
Make-up Loss	5.823 in.	Internal Pressure Capacity	12,640 psi	Maximum	21,600 ft-lb
Threads per inch	3.77	Compression Efficiency	90 %	Operation Limit Torques	
Connection OD Option	Regular	Compression Strength	577 x1000 lb	Operating Torque	29,000 ft-lb
		Max. Allowable Bending	82 °/100 ft	Yield Torque	36,000 ft-lb
		External Pressure Capacity	11,100 psi		

Notes

This connection is fully interchangeable with:
TORQ® SFW™ - 5.5 in. - 0.361 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

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

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TenarisHydril Wedge 441®



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

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

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.	Body Yield Strength	641 x1000 lb
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft	Min. Internal Yield Pressure	12,640 psi
Drift	4.653 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.778 in.			Collapse Pressure	11,100 psi

Connection Data

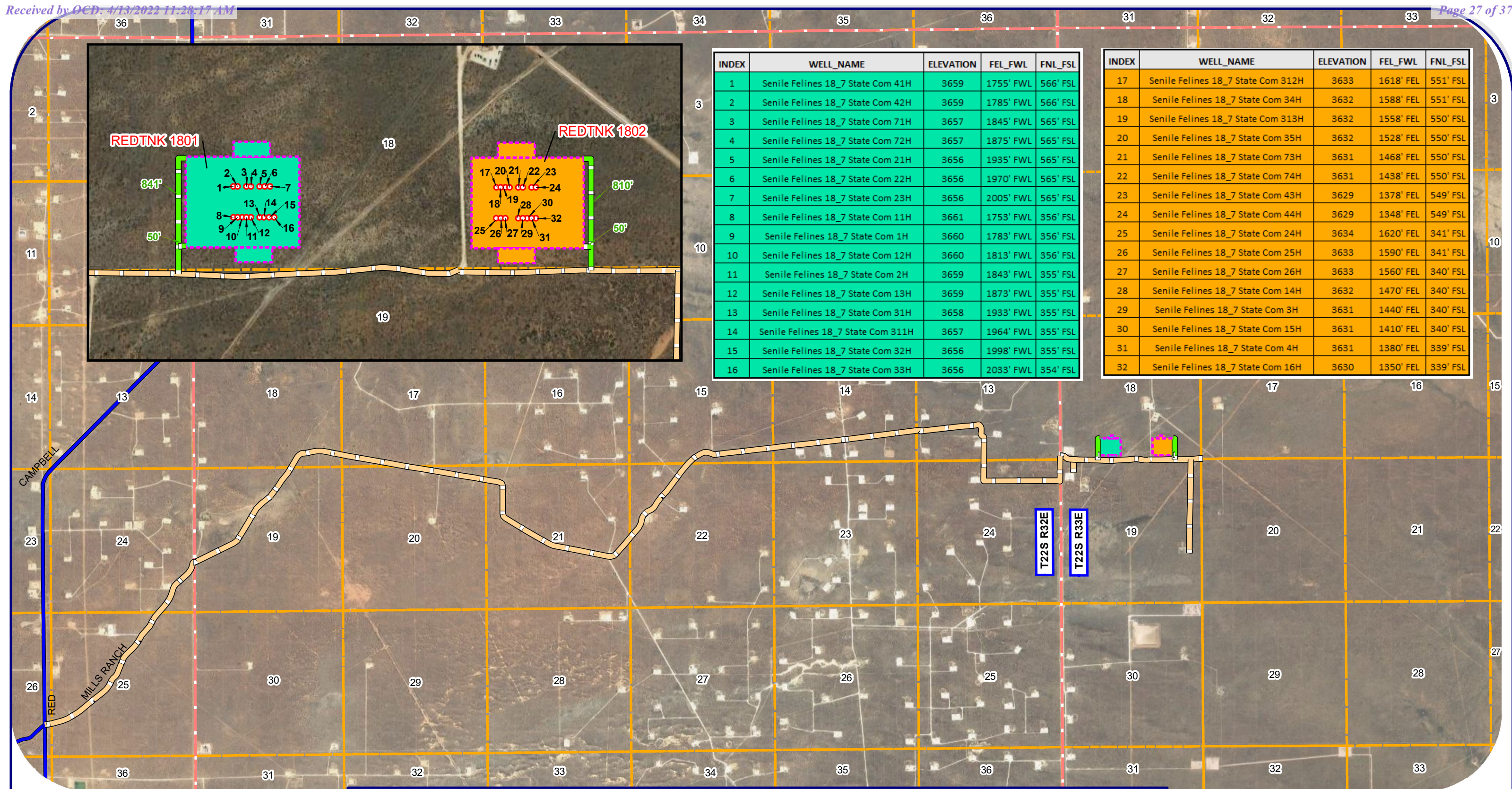
Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	Tension Efficiency	81.50 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	522 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	12,640 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	81.50 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	522 x1000 lb	Operating Torque	32,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	71 °/100 ft	Yield Torque	38,000 ft-lb
		External Pressure Capacity	11,100 psi	Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

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

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

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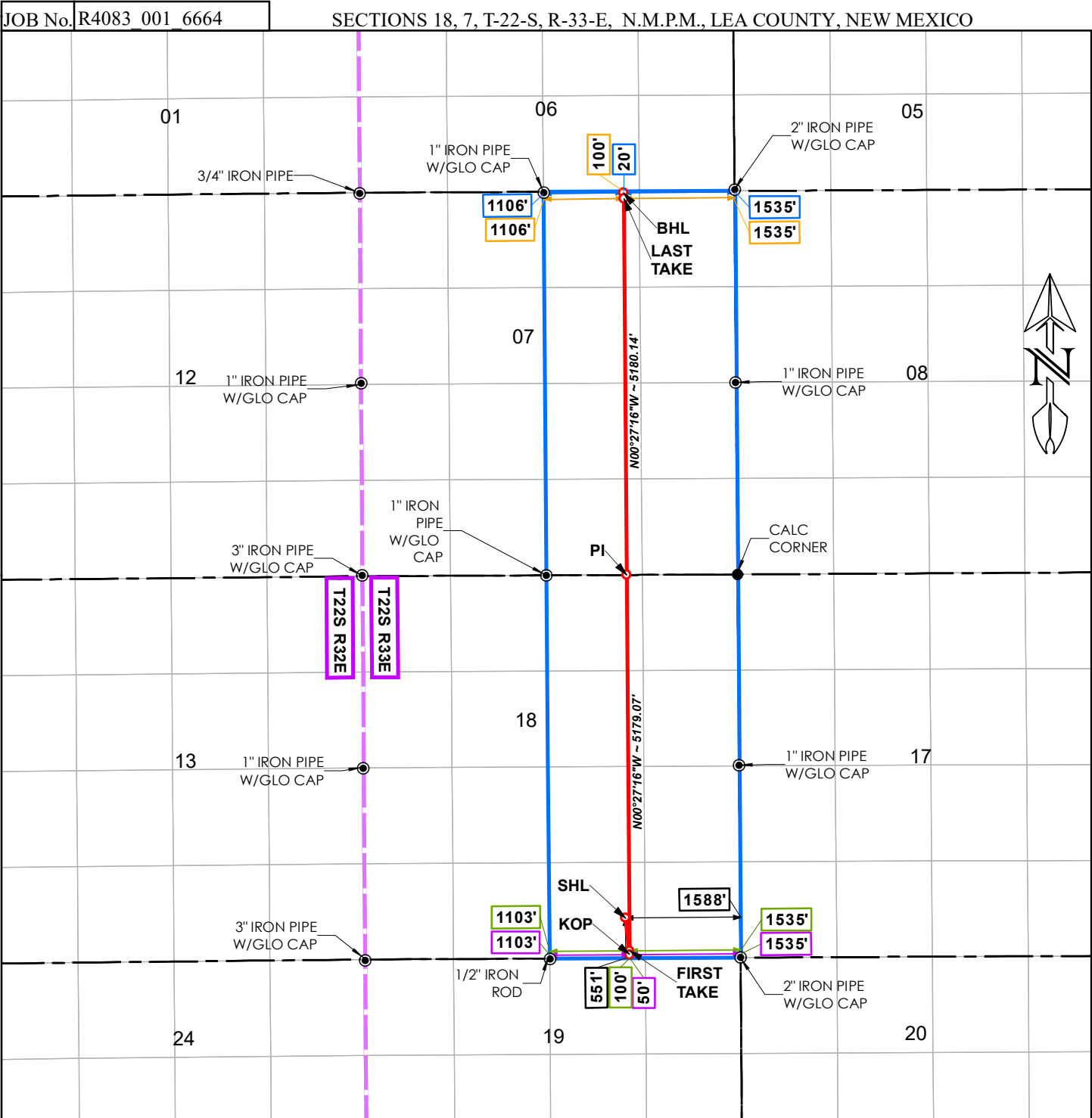
WELL_PLAT
ProposedRD
EXISTING_RD
COUNTY ROAD
PROCESSING_PLANT
TWN-RNG
SECTION

SENILE FELINES 18_17 APD 1

Overall Imagery Map	Draft Date12/21/2021	REV: 1
Section: 18	TWN-RNG:T22S - R33E	COUNTY: Lea
TOTAL 30' WIDE PROPOSED LEASE ROAD EASEMENT: 1751.00 FEET (106.12 RODS)		

1 inch = 3,333 feet

0 1,450 2,900 5,800 Feet



DRIVING DIRECTIONS

FROM THE INTERSECTION OF US HWY 285 AND NM HWY 31, HEAD EAST ON NM HWY 31 FOR 7.7 MILES TO NM-128 E. TURN RIGHT ONTO NM-128 E HEADING SOUTHEAST FOR 18 MILES TO RED RD. TURN LEFT ONTO RED RD HEADING NORTH FOR 7.4 MILES TO MILLS RANCH RD. TURN RIGHT ONTO MILLS RANCH RD. (A CALICHE ROAD) HEADING NORTHEAST FOR 4.01 MILES TO A TURN TO THE RIGHT. CONTINUE ON MILLS RANCH ROAD HEADING SOUTH FOR 8.9 MILES TO A CALICHE ROAD. TURN LEFT ONTO THE CALICHE ROAD AND TRAVEL NORTH 0.17 OF A MILE TO A CALICHE ROAD. TURN RIGHT ONTO THE CALICHE ROAD AND TRAVEL EAST (STAY STRAIGHT) 0.81 OF A MILE TO THE PROPOSED LEASE ROAD. TURN LEFT ONTO THE PROPOSED LEASE ROAD AND TRAVEL NORTH 160 FEET. TURN LEFT AND CONTINUE WEST, ENTERING THE SOUTHEAST CORNER OF THE REDTNK 1802 WELL PAD.

EXHIBIT STATUS

DECEMBER 28, 2021

DAVID W. MYERS 11403

DAVID W. MYERS
NEW MEXICO
11403
PROFESSIONAL SURVEYOR

1,000 0 1,000 2,000

1 inch = 2,000 feet

LEGEND

—

SUBJECT WELL / DRILL LINE

- - -

SURVEY/SECTION LINE

—

LEASE LINE

—

OTHER WELLS / DRILL LINES

- - -

TOWNSHIP / RANGE LINE

●

FOUND MONUMENT

CERTIFICATION

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403, DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

OXY

WELL NAME

SENILE FELINES 18_7
STATE COM 34H

DATE SURVEYED: 11/30/2021

NOTES

BASIS OF BEARING
ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.9997856 CONVERGENCE ANGLE OF 00°22'27.180012".)

2 12/27/2021

PAD OUTLINE REMOVED

JCS MWS

REV. DATE DESCRIPTION BY CHKD

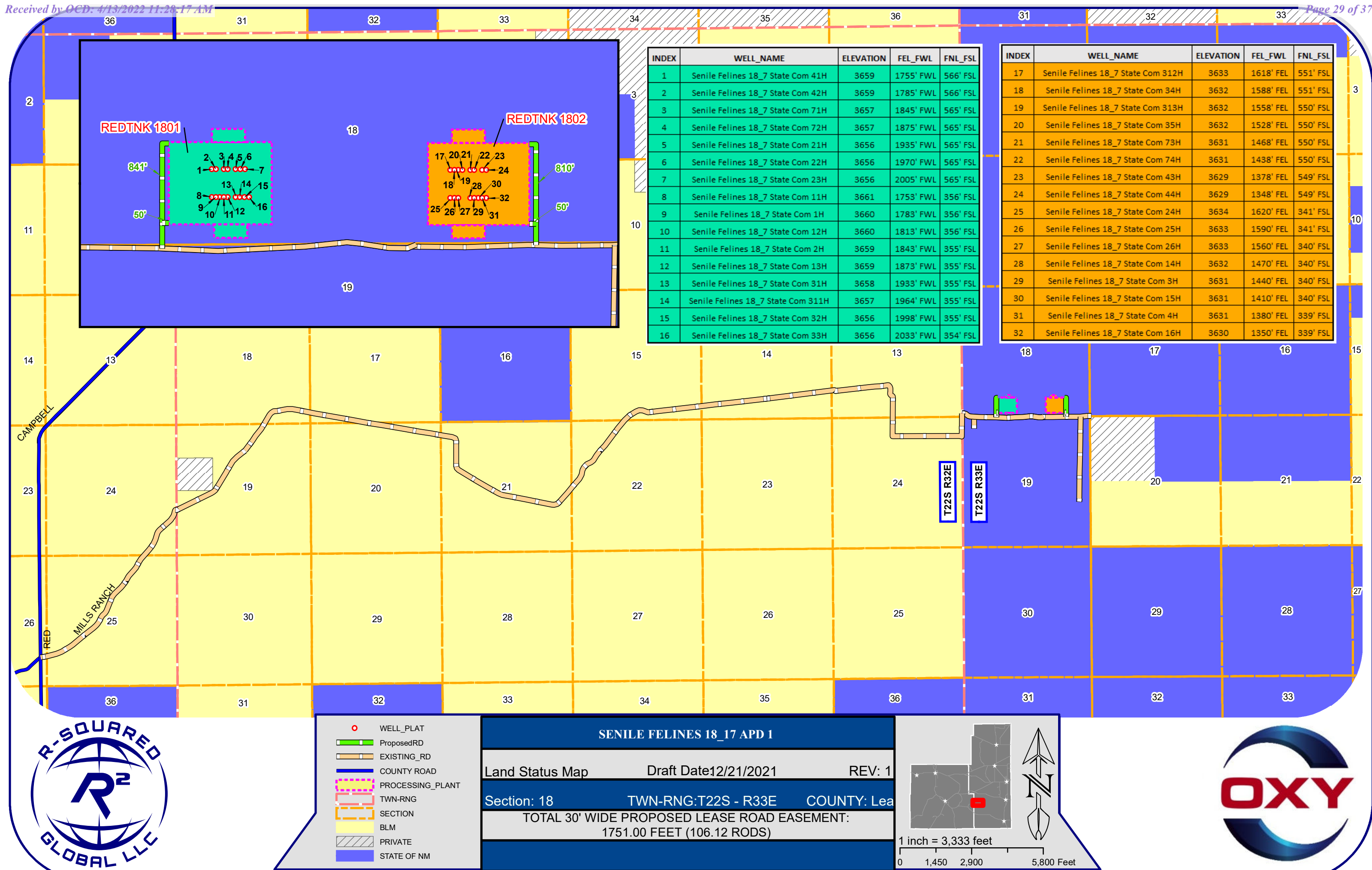
SHEET 1 OF 1

DRAWN BY: DEF

DATE DRAWN: 12/27/2021

CHECKED BY: MWS

510 TRENTON ST., UNIT B,
WEST MONROE, LA 71291
(318) 323-6900



INDEX	WELL_NAME	ELEVATION	FEL_FWL	FNL_FSL
1	Senile Felines 18_7 State Com 41H	3659	1755' FWL	566' FSL
2	Senile Felines 18_7 State Com 42H	3659	1785' FWL	566' FSL
3	Senile Felines 18_7 State Com 71H	3657	1845' FWL	565' FSL
4	Senile Felines 18_7 State Com 72H	3657	1875' FWL	565' FSL
5	Senile Felines 18_7 State Com 21H	3656	1935' FWL	565' FSL
6	Senile Felines 18_7 State Com 22H	3656	1970' FWL	565' FSL
7	Senile Felines 18_7 State Com 23H	3656	2005' FWL	565' FSL
8	Senile Felines 18_7 State Com 11H	3661	1753' FWL	356' FSL
9	Senile Felines 18_7 State Com 1H	3660	1783' FWL	356' FSL
10	Senile Felines 18_7 State Com 12H	3660	1813' FWL	356' FSL
11	Senile Felines 18_7 State Com 2H	3659	1843' FWL	355' FSL
12	Senile Felines 18_7 State Com 13H	3659	1873' FWL	355' FSL
13	Senile Felines 18_7 State Com 31H	3658	1933' FWL	355' FSL
14	Senile Felines 18_7 State Com 311H	3657	1964' FWL	355' FSL
15	Senile Felines 18_7 State Com 32H	3656	1998' FWL	355' FSL
16	Senile Felines 18_7 State Com 33H	3656	2033' FWL	354' FSL

INDEX	WELL_NAME	ELEVATION	FEL_FWL	FNL_FSL
17	Senile Felines 18_7 State Com 312H	3633	1618' FEL	551' FSL
18	Senile Felines 18_7 State Com 34H	3632	1588' FEL	551' FSL
19	Senile Felines 18_7 State Com 313H	3632	1558' FEL	550' FSL
20	Senile Felines 18_7 State Com 35H	3632	1528' FEL	550' FSL
21	Senile Felines 18_7 State Com 73H	3631	1468' FEL	550' FSL
22	Senile Felines 18_7 State Com 74H	3631	1438' FEL	550' FSL
23	Senile Felines 18_7 State Com 43H	3629	1378' FEL	549' FSL
24	Senile Felines 18_7 State Com 44H	3629	1348' FEL	549' FSL
25	Senile Felines 18_7 State Com 24H	3634	1620' FEL	341' FSL
26	Senile Felines 18_7 State Com 25H	3633	1590' FEL	341' FSL
27	Senile Felines 18_7 State Com 26H	3633	1560' FEL	340' FSL
28	Senile Felines 18_7 State Com 14H	3632	1470' FEL	340' FSL
29	Senile Felines 18_7 State Com 3H	3631	1440' FEL	340' FSL
30	Senile Felines 18_7 State Com 15H	3631	1410' FEL	340' FSL
31	Senile Felines 18_7 State Com 4H	3631	1380' FEL	339' FSL
32	Senile Felines 18_7 State Com 16H	3630	1350' FEL	339' FSL



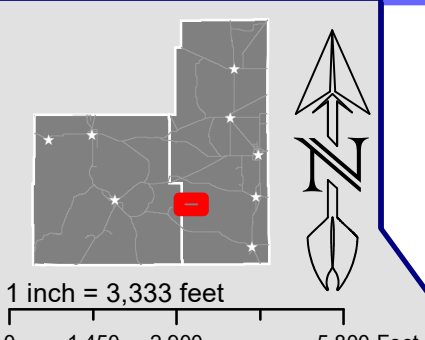
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- ProposedRD
- EXISTING_RD
- COUNTY ROAD
- PROCESSING_PLANT
- TWN-RNG
- SECTION
- BLM
- PRIVATE
- STATE OF NM

SENILE FELINES 18_17 APD 1

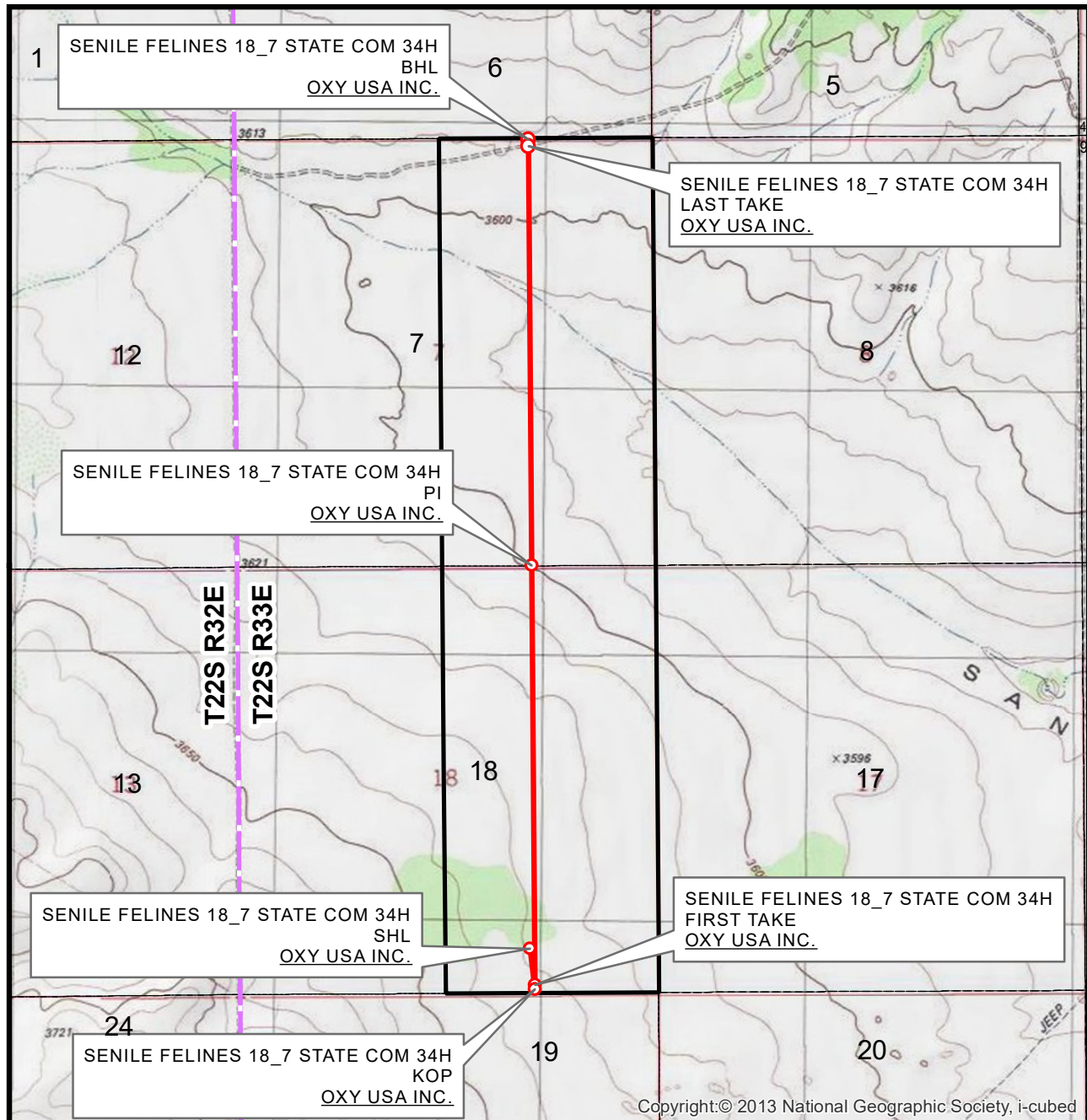
Land Status Map Draft Date 12/21/2021 REV: 1

Section: 18 TWN-RNG: T22S - R33E COUNTY: Lea

TOTAL 30' WIDE PROPOSED LEASE ROAD EASEMENT:
1751.00 FEET (106.12 RODS)



LOCATION VERIFICATION MAP



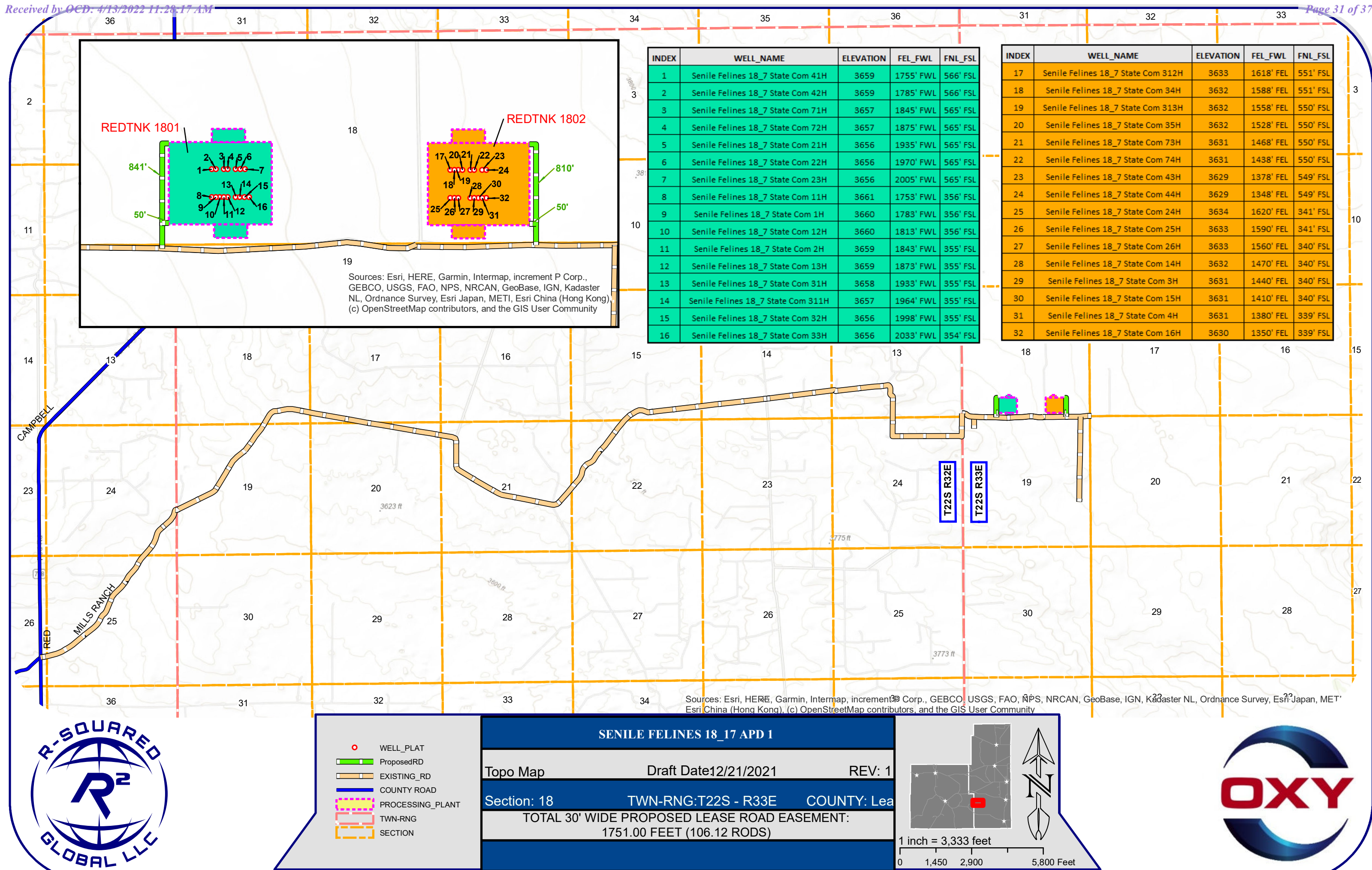
SEC. 18 TWP. 22-S RGE. 33-E
 SURVEY: N.M.P.M.
 COUNTY: LEA
 OPERATOR: OXY USA INC.
 DESCRIPTION: 551' FSL & 1588' FEL
 ELEVATION: 3632'
 LEASE: SENILE FELINES 18_7 STATE COM
 U.S.G.S. TOPOGRAPHIC MAP: GRAMA RIDGE, NM.

1" = 2,000'
 CONTOUR INTERVAL = 10'

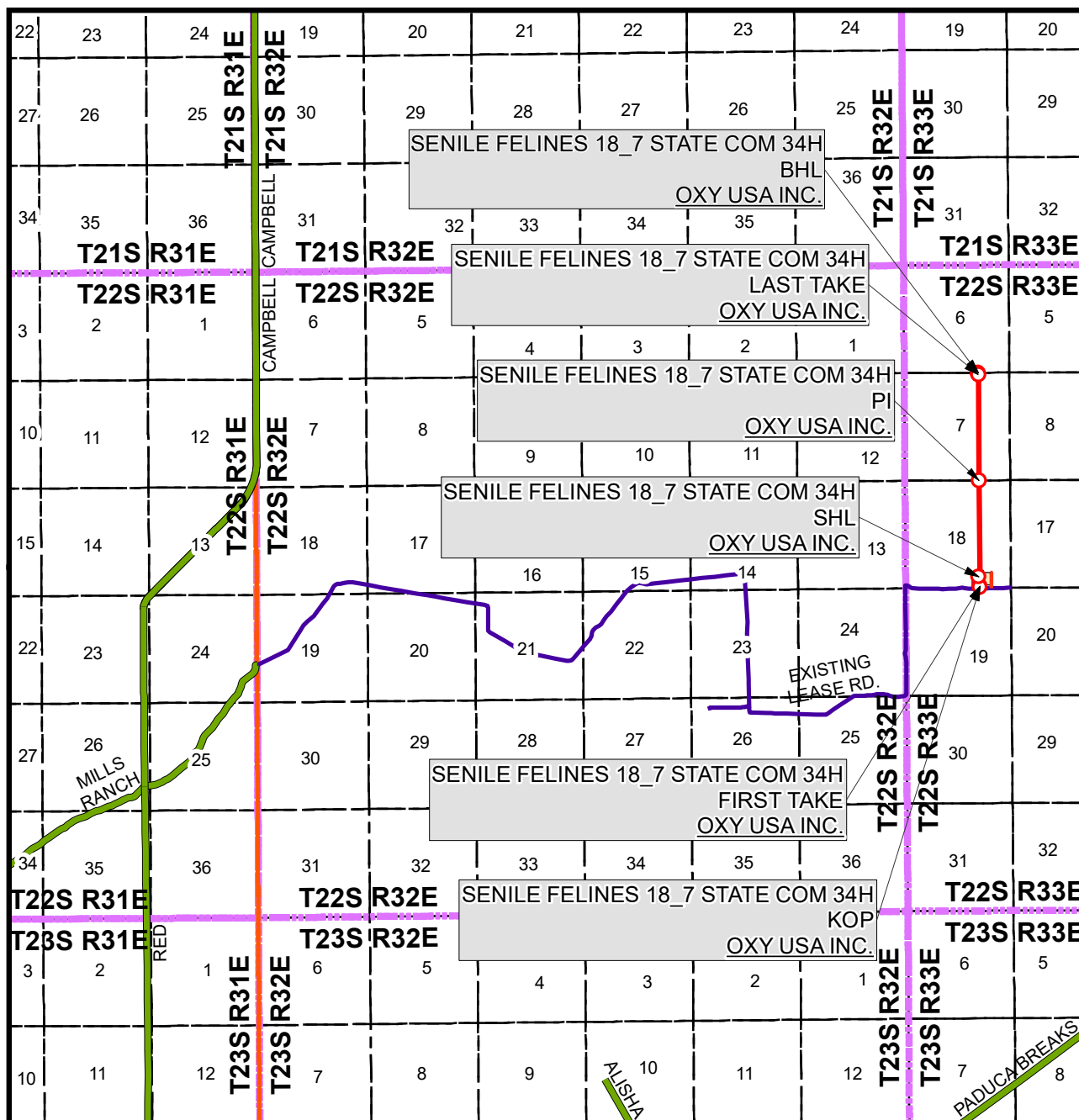


SHEET 2 OF 3

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 510 TRENTON ST., UNIT B,
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. R4083_001_6664



VICINITY MAP



SEC. 18 TWP. 22-S RGE. 33-E

SURVEY: N.M.P.M.

COUNTY: LEA

OPERATOR: OXY USA INC.

DESCRIPTION: 551' FSL & 1588' FEL

ELEVATION: 3632'

LEASE: SENILE FELINES 18_7 STATE COM

U.S.G.S. TOPOGRAPHIC MAP: GRAMA RIDGE, NM.

VERTICAL DATUM: NAVD 1988

1" = 1.5 MILE

FROM THE INTERSECTION OF US HWY 285 AND NM HWY 31, HEAD EAST ON NM HWY 31 FOR 7.7 MILES TO NM-128 E. TURN RIGHT ONTO NM-128 E HEADING SOUTHEAST FOR 18 MILES TO RED RD. TURN LEFT ONTO RED RD HEADING NORTH FOR 7.4 MILES TO MILLS RANCH RD. TURN RIGHT ONTO MILLS RANCH RD (A CALICHE ROAD) HEADING NORTHEAST FOR 4.01 MILES TO A TURN TO THE RIGHT. CONTINUE ON MILLS RANCH ROAD HEADING SOUTH FOR 8.9 MILES TO A CALICHE ROAD. TURN LEFT ONTO THE CALICHE ROAD AND TRAVEL NORTH 0.17 OF A MILE TO A CALICHE ROAD. TURN RIGHT ONTO THE CALICHE ROAD AND TRAVEL EAST (STAY STRAIGHT) 0.81 OF A MILE TO THE PROPOSED LEASE ROAD. TURN LEFT ONTO THE PROPOSED LEASE ROAD AND TRAVEL NORTH 160 FEET. TURN LEFT AND CONTINUE WEST, ENTERING THE SOUTHEAST CORNER OF THE REDTNK 1802 WELL PAD.



SHEET 3 OF 3

PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST., UNIT B,
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4083_001_6664

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

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

Pilot hole and Lateral sections, 10M requirement

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

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

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

B. Well Control Procedures

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

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

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

General Procedures While Pulling BHA thru Stack

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

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

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CONDITIONS

Action 98230

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 98230
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Previous COA's apply	4/21/2022