

Well Name: NUGGET 6_31 FEDERAL COM	Well Location: T24S / R31E / SEC 7 / NENW / 32.2383071 / -103.819666	County or Parish/State: EDDY / NM
Well Number: 23H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM82904	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001556040	Operator: OXY USA INCORPORATED	

Notice of Intent

Sundry ID: 2861424

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 07/03/2025	Time Sundry Submitted: 06:45
Date proposed operation will begin: 04/01/2026	

Procedure Description: OXY USA Inc. respectfully requests approval to amend the subject well AAPD to change the SHL, BHL, Drill Plan, and Directional. SHL updated from NENW 294' FNL & 1852' FWL to NENW 419' FNL & 1732' FWL. BHL updated from NENW 20' FNL & 2015' FWL to NENW 620' FNL & 2200' FWL. Please see the attached well plat, revised drill plan, and updated directional for reference. There is no additional surface disturbance included in this sundry.

NOI Attachments

Procedure Description

- NUGGET6_31FEDCOM23H_VAM_DWC_C_HT_IS_5.500in_20ppf_P110RY_20250703064214.pdf
- NUGGET6_31FEDCOM23H_NewRoads_20250703064201.pdf
- NUGGET6_31FEDCOM23H_ExistingRoads_20250703064150.pdf
- NUGGET6_31FEDCOM23H_DrillPlan_20250703064139.pdf
- Nugget6_31FedCom23H_DirectPlan_20250703064127.pdf
- NUGGET6_31FEDCOM23H_Cut_Fill_20250703064118.pdf
- NUGGET6_31FEDCOM23H_Combined_Blanket_Design_20250703064108.pdf
- NUGGET6_31FEDCOM23H_C102_20250703064055.pdf
- NUGGET6_31FEDCOM23H_BOPBreakTestingVariance2025_20250703064044.pdf

Received by OCD: 11/10/2025 9:54:17 AM

Page 2 of 96

Well Name: NUGGET 6_31 FEDERAL COM	Well Location: T24S / R31E / SEC 7 / NENW / 32.2383071 / -103.819666	County or Parish/State: EDDY / NM
Well Number: 23H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM82904	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001556040	Operator: OXY USA INCORPORATED	

NUGGET6_31FEDCOM23H_Blanket_Design_A_Pad_Review_Document_20250703064032.pdf

NUGGET6_31FEDCOM23H_APDChangeWorksheet_20250703064018.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SARA GUTHRIE	Signed on: JUL 03, 2025 06:42 AM
Name: OXY USA INCORPORATED	
Title: Regulatory Advisor	
Street Address: 5 GREENWAY PLAZA SUITE 110	
City: HOUSTON	State: TX
Phone: (713) 497-2851	
Email address: SARA_GUTHRIE@OXY.COM	

Field

Representative Name: Michael Wilson		
Street Address:		
City:	State:	Zip:
Phone: (575)631-6618		
Email address: michael_wilson@oxy.com		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: CWALLS@BLM.GOV
Disposition: Approved	Disposition Date: 11/07/2025
Signature: Chris Walls	

Form 3160-5 (October 2024)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0220 Expires: October 31, 2027
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NENW / 294 FNL / 1852 FWL / TWSP: 24S / RANGE: 31E / SECTION: 7 / LAT: 32.2383071 / LONG: -103.819666 (TVD: 0 feet, MD: 0 feet)

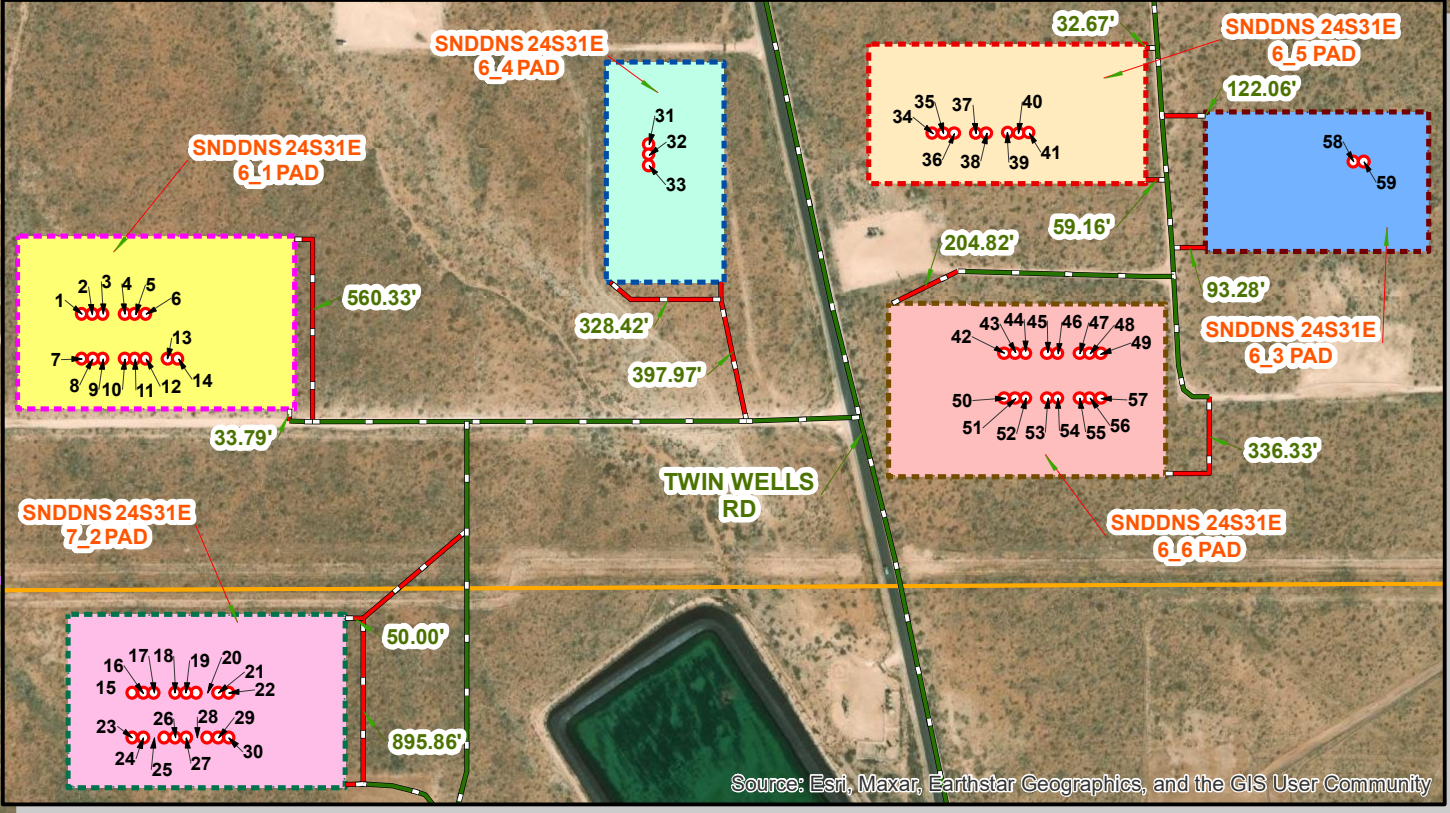
PPP: SESW / 0 FSL / 2015 FWL / TWSP: 24S / RANGE: 31E / SECTION: 6 / LAT: 32.2391161 / LONG: -103.8191393 (TVD: 8620 feet, MD: 8751 feet)

PPP: SESW / 0 FSL / 2013 FWL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.2536536 / LONG: -103.8191306 (TVD: 8700 feet, MD: 14050 feet)

PPP: SESW / 100 FSL / 2015 FWL / TWSP: 24S / RANGE: 31E / SECTION: 6 / LAT: 32.239391 / LONG: -103.8191391 (TVD: 8700 feet, MD: 9061 feet)

BHL: NENW / 20 FNL / 2015 FWL / TWSP: 23S / RANGE: 31E / SECTION: 31 / LAT: 32.2681219 / LONG: -103.8191221 (TVD: 8700 feet, MD: 19314 feet)

INDEX	WELL NAME	ELEVATION	FNL/FSL	FEL/FWL
1	JEFF SMITH MDP1 7 18 FED COM 43H	3447'	768' FSL	1445' FWL
2	JEFF SMITH MDP1 7 18 FED COM 48H	3447'	768' FSL	1475' FWL
3	JEFF SMITH MDP1 7 18 FED COM 44H	3448'	768' FSL	1505' FWL
4	JEFF SMITH MDP1 7 18 FED COM 21H	3449'	768' FSL	1565' FWL
5	JEFF SMITH MDP1 7 18 FED COM 22H	3449'	767' FSL	1595' FWL
6	JEFF SMITH MDP1 7 18 FED COM 23H	3450'	767' FSL	1625' FWL
7	NUGGET 6 31 FED COM 41H	3448'	643' FSL	1445' FWL
8	NUGGET 6 31 FED COM 47H	3449'	643' FSL	1475' FWL
9	NUGGET 6 31 FED COM 42H	3450'	643' FSL	1505' FWL
10	NUGGET 6 31 FED COM 31H	3451'	643' FSL	1565' FWL
11	NUGGET 6 31 FED COM 32H	3452'	642' FSL	1595' FWL
12	NUGGET 6 31 FED COM 33H	3451'	642' FSL	1625' FWL
13	NUGGET 6 31 FED COM 4H	3452'	642' FSL	1685' FWL
14	NUGGET 6 31 FED COM 5H	3452'	642' FSL	1714' FWL
15	JEFF SMITH MDP1 7 18 FED COM 31H	3467'	293' FNL	1582' FWL
16	JEFF SMITH MDP1 7 18 FED COM 32H	3467'	293' FNL	1612' FWL
17	JEFF SMITH MDP1 7 18 FED COM 33H	3468'	293' FNL	1642' FWL
18	JEFF SMITH MDP1 7 18 FED COM 41H	3469'	294' FNL	1702' FWL
19	JEFF SMITH MDP1 7 18 FED COM 47H	3469'	294' FNL	1732' FWL
20	JEFF SMITH MDP1 7 18 FED COM 42H	3469'	294' FNL	1762' FWL
21	JEFF SMITH MDP1 7 18 FED COM 11H	3470'	294' FNL	1822' FWL
22	JEFF SMITH MDP1 7 18 FED COM 12H	3470'	294' FNL	1852' FWL
23	NUGGET 6 31 FED COM 11H	3467'	418' FNL	1582' FWL
24	NUGGET 6 31 FED COM 12H	3468'	418' FNL	1612' FWL
25	NUGGET 6 31 FED COM 21H	3470'	418' FNL	1672' FWL
26	NUGGET 6 31 FED COM 22H	3471'	419' FNL	1702' FWL
27	NUGGET 6 31 FED COM 23H	3472'	419' FNL	1732' FWL
28	NUGGET 6 31 FED COM 43H	3472'	419' FNL	1792' FWL
29	NUGGET 6 31 FED COM 48H	3473'	419' FNL	1822' FWL
30	NUGGET 6 31 FED COM 44H	3472'	419' FNL	1852' FWL
31	JEFF SMITH MDP1 7 18 FED COM 1H	3452'	1237' FSL	2307' FEL
32	JEFF SMITH MDP1 7 18 FED COM 2H	3453'	1207' FSL	2307' FEL
33	JEFF SMITH MDP1 7 18 FED COM 3H	3452'	1177' FSL	2307' FEL
34	NUGGET 6 31 FED COM 24H	3458'	1264' FSL	1513' FEL
35	NUGGET 6 31 FED COM 25H	3458'	1264' FSL	1482' FEL
36	NUGGET 6 31 FED COM 26H	3457'	1263' FSL	1453' FEL
37	JEFF SMITH MDP1 7 18 FED COM 49H	3457'	1263' FSL	1393' FEL
38	JEFF SMITH MDP1 7 18 FED COM 45H	3457'	1263' FSL	1362' FEL
39	NUGGET 6 31 FED COM 6H	3458'	1263' FSL	1302' FEL
40	NUGGET 6 31 FED COM 46H	3458'	1263' FSL	1272' FEL
41	NUGGET 6 31 FED COM 50H	3457'	1263' FSL	1242' FEL
42	JEFF SMITH MDP1 7 18 FED COM 24H	3464'	646' FSL	1314' FEL
43	JEFF SMITH MDP1 7 18 FED COM 25H	3464'	646' FSL	1284' FEL
44	JEFF SMITH MDP1 7 18 FED COM 26H	3464'	646' FSL	1254' FEL
45	JEFF SMITH MDP1 7 18 FED COM 13H	3465'	645' FSL	1194' FEL
46	JEFF SMITH MDP1 7 18 FED COM 14H	3465'	645' FSL	1164' FEL
47	JEFF SMITH MDP1 7 18 FED COM 34H	3466'	645' FSL	1104' FEL
48	JEFF SMITH MDP1 7 18 FED COM 35H	3466'	645' FSL	1074' FEL
49	JEFF SMITH MDP1 7 18 FED COM 36H	3466'	645' FSL	1044' FEL
50	NUGGET 6 31 FED COM 34H	3467'	521' FSL	1314' FEL
51	NUGGET 6 31 FED COM 35H	3466'	521' FSL	1284' FEL
52	NUGGET 6 31 FED COM 36H	3466'	521' FSL	1254' FEL
53	NUGGET 6 31 FED COM 49H	3468'	520' FSL	1194' FEL
54	NUGGET 6 31 FED COM 45H	3468'	520' FSL	1164' FEL
55	NUGGET 6 31 FED COM 13H	3470'	520' FSL	1104' FEL
56	NUGGET 6 31 FED COM 14H	3470'	520' FSL	1074' FEL
57	NUGGET 6 31 FED COM 7H	3470'	520' FSL	1044' FEL
58	JEFF SMITH MDP1 7 18 FED COM 46H	3455'	1178' FSL	335' FEL
59	JEFF SMITH MDP1 7 18 FED COM 50H	3455'	1178' FSL	305' FEL



T23S R30E
T23S R31E

TWIN WELLS
RD

T24S R30E
T24S R31E

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



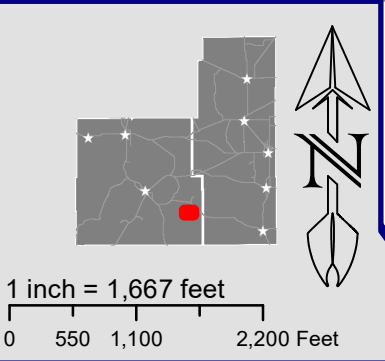
- WELLS
- Proposed_Road
- Existing_Road
- FACILITY
 - SNDDNS_T24SR31E_6_1-PAD
 - SNDDNS_T24SR31E_6_3-PAD
 - SNDDNS_T24SR31E_6_4-PAD
 - SNDDNS_T24SR31E_6_5-PAD
 - SNDDNS_T24SR31E_6_6-PAD
 - SNDDNS_T24SR31E_7_2-PAD
- Township-Range
- SECTIONS

JEFF SMITH 7-18/NUGGET 6-31

OVERALL IMAGERY MAP Draft Date: 6/12/2025 Rev: 3

Section: 6, 7 TWN-RNG: T24S - R31E County: EDDY

TOTAL 30' WIDE PROPOSED LEASE ROAD EASEMENT:
3,114.69 FEET (188.77 RODS)



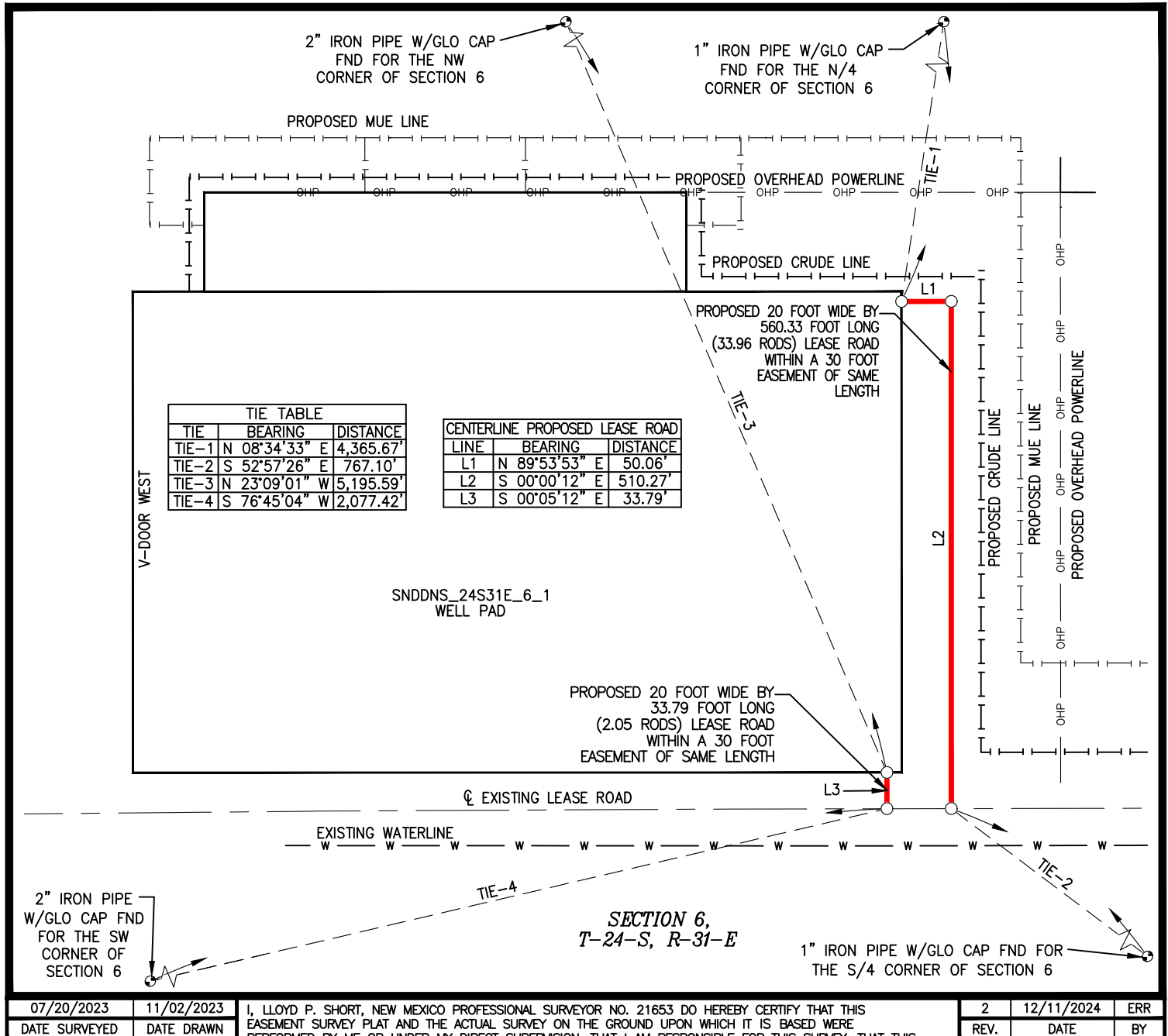


SITE PLAN

SNDDNS_24S31E_6_1
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



75' 0' 75' 150'
SCALE: 1" = 150'



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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833'.)

LEGEND			
	EXISTING ROAD		OHP
	PROPOSED ROAD		OVERHEAD POWER FENCE
	SURFACE SITE EDGE		SECTION LINE
	EXIST. PIPELINE		PROPERTY LINE
	MONUMENT		WATER LINE
	QUARTER SPLIT		SALT WATER LINE

JANUARY 10, 2025

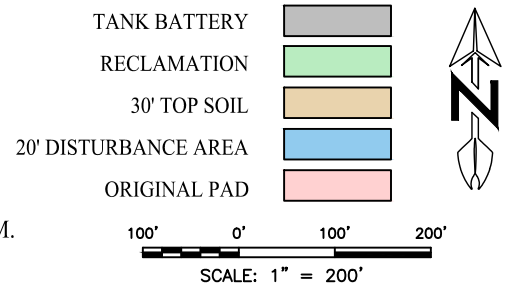


PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS
SHEET 1 OF 4

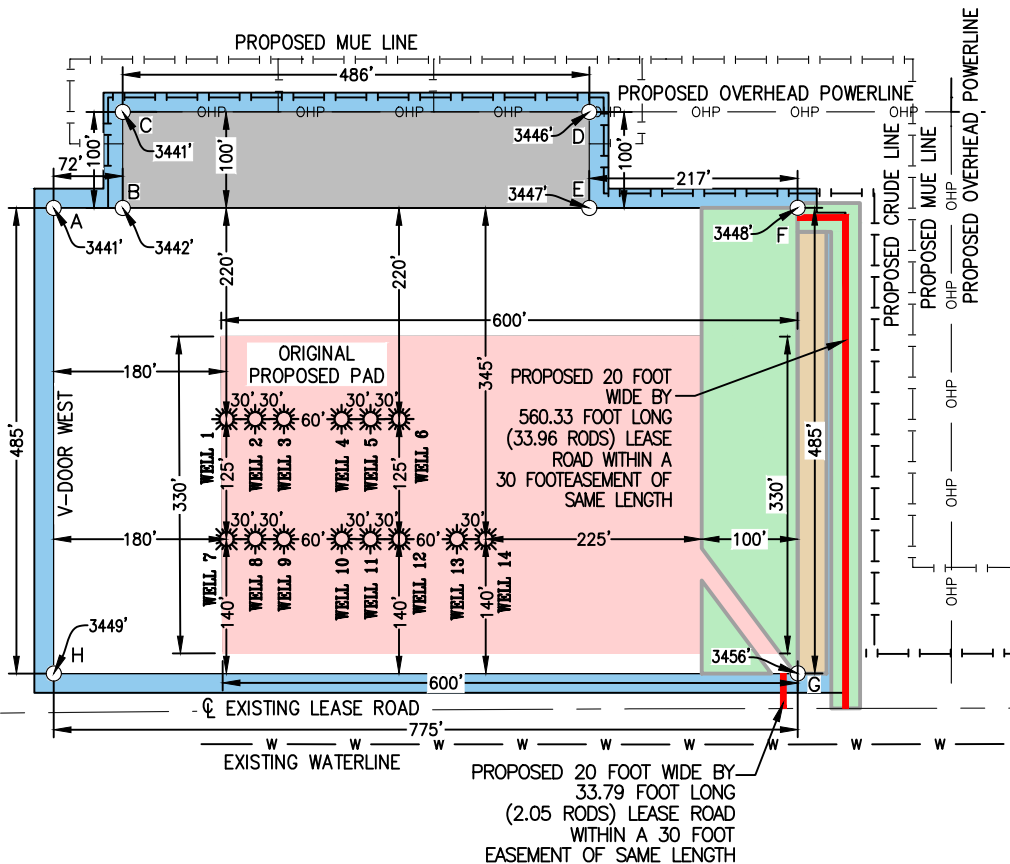


SITE PLAN

SNDDNS_24S31E_6_1
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



SECTION 6, T-24-S, R-31-E



NAD 83		
A	E: (X)699564.30 N: (Y)452090.02	LAT: 32.24183487 LON: -103.82155978
B	E: (X)699636.30 N: (Y)452090.02	LAT: 32.24183393 LON: -103.82132689
C	E: (X)699636.31 N: (Y)452190.01	LAT: 32.24210879 LON: -103.82132532
D	E: (X)700122.38 N: (Y)452190.00	LAT: 32.24210238 LON: -103.81975322
E	E: (X)700122.31 N: (Y)452090.01	LAT: 32.24182753 LON: -103.81975499
F	E: (X)700339.27 N: (Y)452090.07	LAT: 32.24182484 LON: -103.81905326
G	E: (X)700339.48 N: (Y)451605.04	LAT: 32.24049159 LON: -103.81906010
H	E: (X)699564.38 N: (Y)451604.93	LAT: 32.24050148 LON: -103.82156698

NAD 27		
A	E: (X)658380.46 N: (Y)452030.96	LAT: 32.24171178 LON: -103.82107447
B	E: (X)658452.46 N: (Y)452030.96	LAT: 32.24171084 LON: -103.82084160
C	E: (X)658452.47 N: (Y)452130.95	LAT: 32.24198569 LON: -103.82084001
D	E: (X)658938.54 N: (Y)452130.94	LAT: 32.24197928 LON: -103.81926795
E	E: (X)658938.47 N: (Y)452030.95	LAT: 32.24170442 LON: -103.81926973
F	E: (X)659155.43 N: (Y)452031.01	LAT: 32.24170173 LON: -103.81856803
G	E: (X)659155.62 N: (Y)451545.99	LAT: 32.24036847 LON: -103.81857492
H	E: (X)658380.52 N: (Y)451545.88	LAT: 32.24037836 LON: -103.82108174

07/20/2023 11/02/2023

DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

2 12/11/2024 ERR
REV. DATE BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

LEGEND

—	EXISTING ROAD	— x —	OHP	OVERHEAD POWER
—	PROPOSED ROAD	— x —	FENCE	
—	SURFACE SITE EDGE	—	SECTION LINE	
—	EXIST. PIPELINE	—	PROPERTY LINE	
—		— w —	WATER LINE	
—		— swd —	SALT WATER LINE	
●	MONUMENT			
●	QUARTER SPLIT			

JANUARY 10, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS
SHEET 2 OF 4



TIE TABLE		
LINE	BEARING	DISTANCE
TIE-1	S 37°58'59" E	1,076.21'
TIE-2	S 68°00'12" W	1,361.08'

SHEET
3
OF
4

JANUARY 10, 2025



The seal is circular with the text "LLOYD P. SHORT" at the top, "NEW MEXICO" in the center, and "PROFESSIONAL SURVEYOR" at the bottom. The number "21653" is in the middle. A red signature "Lloyd P. Short" is written across the seal.

LEGEND			
	PERMANENT EASEMENT		TOWNSHIP/RANGE LINE
	EXISTING WATER LINE		PROPERTY LINE
	CENTERLINE OF LEASE ROAD		EDGE OF ROAD
	EXISTING SALT WATER LINE		FIBER OPTIC LINE
	PAD LINE		FOUND MONUMENT
	LOT/QUARTER LINE		CALCULATED MONUMENT
	PROPOSED CENTERLINE		POWER POLE
	EXISTING PIPELINES		QUARTER SPLIT
	OVERHEAD POWERLINE		
	SURVEY/SECTION LINE		

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

		SINDOS, SASIE 6 J WED PAD CROSSING THE PROPERTY OF			
		BUREAU OF LAND MANAGEMENT			
		EDDY COUNTY, NEW MEXICO			
2 12/11/2024		GENERAL REVISIONS		ERR	GDG
REV.	DATE	DESCRIPTION		BY	CHKD
SHEET 3 OF 4					
DRAWN BY: TCS			DELTA FIELD SERVICES, LLC		
DATE DRAWN: 11/02/2023			510 TRENTON ST		
CHECKED BY: GDG			WEST MONROE, LA 71291		
			(318) 923-3000		



SITE PLAN

SNDDNS_24S31E_6_1
SEC. 6 TWP. 24-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

FAA PERMIT NEEDED: NO



WELL 1
JEFF SMITH MDP1 7_18 FED COM 43H
OXY USA, INC.
768' FSL 1,445' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699744.40' / Y:451869.98'
LAT:32.24122768N / LON:103.82098066W
NAD 27, SPCS NM EAST
X:658560.55' / Y:451810.93'
LAT:32.24110457N / LON:103.82049540W
ELEVATION = 3447'

WELL 2
JEFF SMITH MDP1 7_18 FED COM 48H
OXY USA, INC.
768' FSL 1,475' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699774.27' / Y:451869.96'
LAT:32.24122723N / LON:103.82088406W
NAD 27, SPCS NM EAST
X:658590.42' / Y:451810.90'
LAT:32.24110412N / LON:103.82039880W
ELEVATION = 3447'

WELL 3
JEFF SMITH MDP1 7_18 FED COM 44H
OXY USA, INC.
768' FSL 1,505' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699804.25' / Y:451870.02'
LAT:32.24122700N / LON:103.82078709W
NAD 27, SPCS NM EAST
X:658620.40' / Y:451810.96'
LAT:32.24110389N / LON:103.82030184W
ELEVATION = 3448'

WELL 4
JEFF SMITH MDP1 7_18 FED COM 21H
OXY USA, INC.
768' FSL 1,565' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699864.29' / Y:451869.94'
LAT:32.24122599N / LON:103.82059290W
NAD 27, SPCS NM EAST
X:658680.44' / Y:451810.88'
LAT:32.24110288N / LON:103.82010766W
ELEVATION = 3449'

WELL 5
JEFF SMITH MDP1 7_18 FED COM 22H
OXY USA, INC.
767' FSL 1,595' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699894.39' / Y:451869.89'
LAT:32.24122546N / LON:103.82049555W
NAD 27, SPCS NM EAST
X:658710.54' / Y:451810.83'
LAT:32.24110235N / LON:103.82001031W
ELEVATION = 3449'

WELL 6
JEFF SMITH MDP1 7_18 FED COM 23H
OXY USA, INC.
767' FSL 1,625' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699924.32' / Y:451870.02'
LAT:32.24122543N / LON:103.82039875W
NAD 27, SPCS NM EAST
X:658740.47' / Y:451810.96'
LAT:32.24110231N / LON:103.81991350W
ELEVATION = 3450'

WELL 7
NUGGET 6_31 FED COM 41H
OXY USA, INC.
643' FSL 1,445' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699744.43' / Y:451744.92'
LAT:32.24088391N / LON:103.82098250W
NAD 27, SPCS NM EAST
X:658560.58' / Y:451685.87'
LAT:32.24076080N / LON:103.82049725W
ELEVATION = 3448'

WELL 8
NUGGET 6_31 FED COM 47H
OXY USA, INC.
643' FSL 1,475' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699774.37' / Y:451744.98'
LAT:32.24088368N / LON:103.82088566W
NAD 27, SPCS NM EAST
X:658590.52' / Y:451685.93'
LAT:32.24076057N / LON:103.82040041W
ELEVATION = 3449'

WELL 9
NUGGET 6_31 FED COM 42H
OXY USA, INC.
643' FSL 1,595' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699804.35' / Y:451744.91'
LAT:32.24088310N / LON:103.82078870W
NAD 27, SPCS NM EAST
X:658620.50' / Y:451685.89'
LAT:32.24075999N / LON:103.82030346W
ELEVATION = 3450'

WELL 10
NUGGET 6_31 FED COM 31H
OXY USA, INC.
643' FSL 1,565' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699864.37' / Y:451745.04'
LAT:32.24088263N / LON:103.82059457W
NAD 27, SPCS NM EAST
X:658680.52' / Y:451685.99'
LAT:32.24075956N / LON:103.82010934W
ELEVATION = 3451'

WELL 11
NUGGET 6_31 FED COM 32H
OXY USA, INC.
642' FSL 1,595' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699894.34' / Y:451744.98'
LAT:32.24088211N / LON:103.82049764W
NAD 27, SPCS NM EAST
X:658710.49' / Y:451685.93'
LAT:32.24075900N / LON:103.82001241W
ELEVATION = 3452'

WELL 12
NUGGET 6_31 FED COM 33H
OXY USA, INC.
642' FSL 1,625' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699924.45' / Y:451745.00'
LAT:32.24088177N / LON:103.82040026W
NAD 27, SPCS NM EAST
X:658740.60' / Y:451685.95'
LAT:32.24075866N / LON:103.81991503W
ELEVATION = 3451'

WELL 13
NUGGET 6_31 FED COM 4H
OXY USA, INC.
642' FSL 1,685' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:699984.38' / Y:451744.94'
LAT:32.24088082N / LON:103.82020643W
NAD 27, SPCS NM EAST
X:658800.53' / Y:451685.89'
LAT:32.24075771N / LON:103.81972120W
ELEVATION = 3452'

WELL 14
NUGGET 6_31 FED COM 5H
OXY USA, INC.
642' FSL 1,714' FWL, SECTION 6
NAD 83, SPCS NM EAST
X:700014.30' / Y:451744.94'
LAT:32.24088044N / LON:103.82010966W
NAD 27, SPCS NM EAST
X:658830.44' / Y:451685.89'
LAT:32.24075731N / LON:103.81962444W
ELEVATION = 3452'

07/20/2023	11/02/2023
DATE SURVEYED	DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

2	12/11/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		FENCE	
	SURFACE SITE EDGE		SECTION LINE	
	EXIST. PIPELINE		PROPERTY LINE	
	MONUMENT		WATER LINE	
	QUARTER SPLIT		SALT WATER LINE	

JANUARY 10, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS
SHEET 4 OF 4



SITE PLAN

SNDDNS_24S31E_7_2

SEC. 7 TWP. 24-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

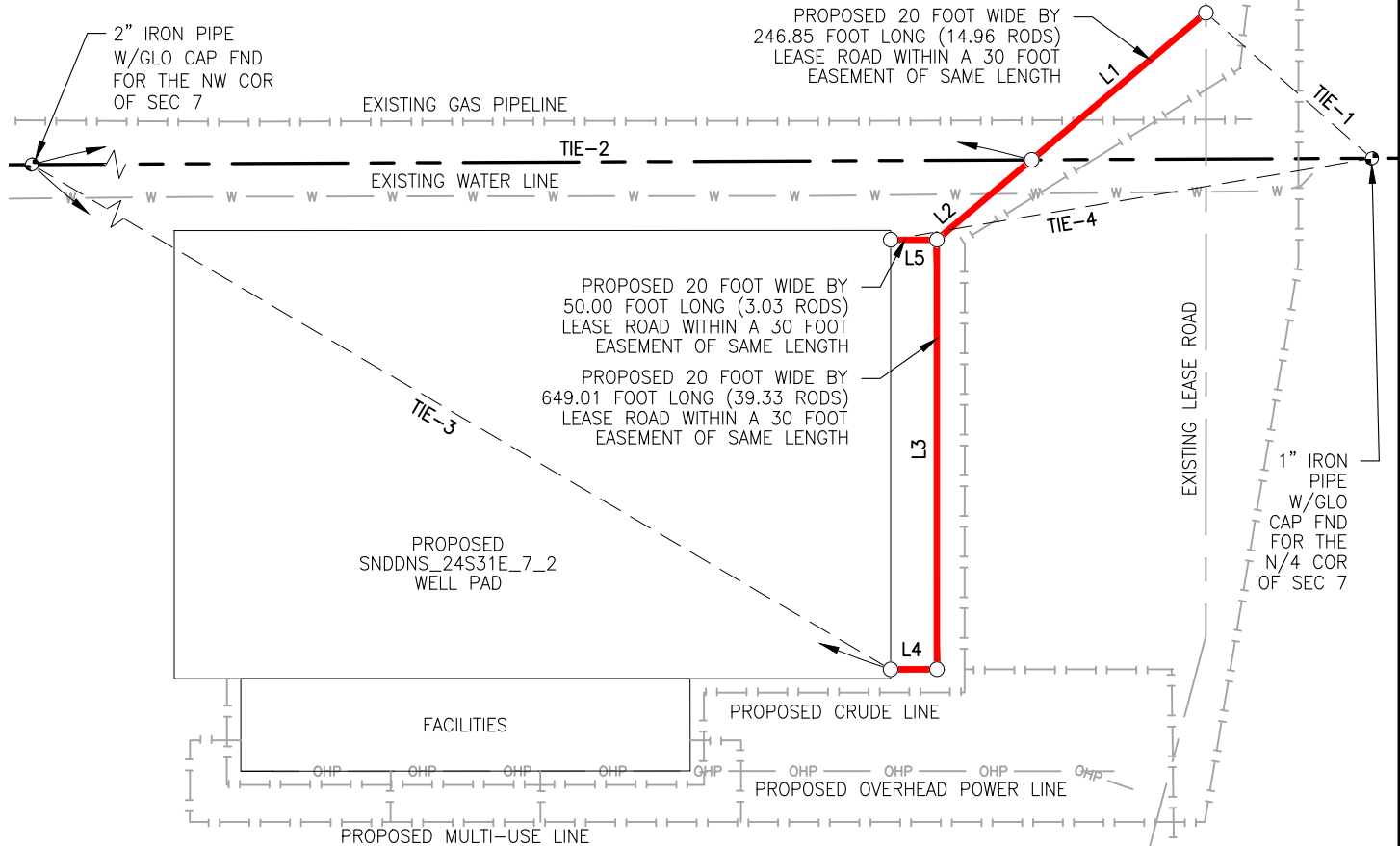
FAA PERMIT NEEDED: NO

100' 0' 100' 200'

SCALE: 1" = 200'



SECTION 6, T-24-S, R-31-E



SECTION 7, T-24-S, R-31-E

TIE TABLE		
TIE	BEARING	DISTANCE
TIE-1	S 48°44'58" E	238.84'
TIE-2	S 89°43'58" W	2,331.08'
TIE-3	N 76°03'50" W	2,244.56'
TIE-4	N 80°23'42" E	528.10'

CENTERLINE PROPOSED LEASE ROAD		
LINE	BEARING	DISTANCE
L1	S 49°50'26" W	246.85'
L2	S 49°50'26" W	134.02'
L3	S 00°00'35" W	464.93'
L4	S 89°53'57" W	50.06'
L5	N 89°57'36" W	50.00'

07/20/2023	08/07/2023
DATE SURVEYED	DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

1	12/11/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

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

DECEMBER 18, 2024



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS01
SHEET 1 OF 3



SITE PLAN

SNDDNS_24S31E_7_2
SEC. 7 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY
RECLAMATION
30' TOP SOIL
20' DISTURBANCE AREA

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

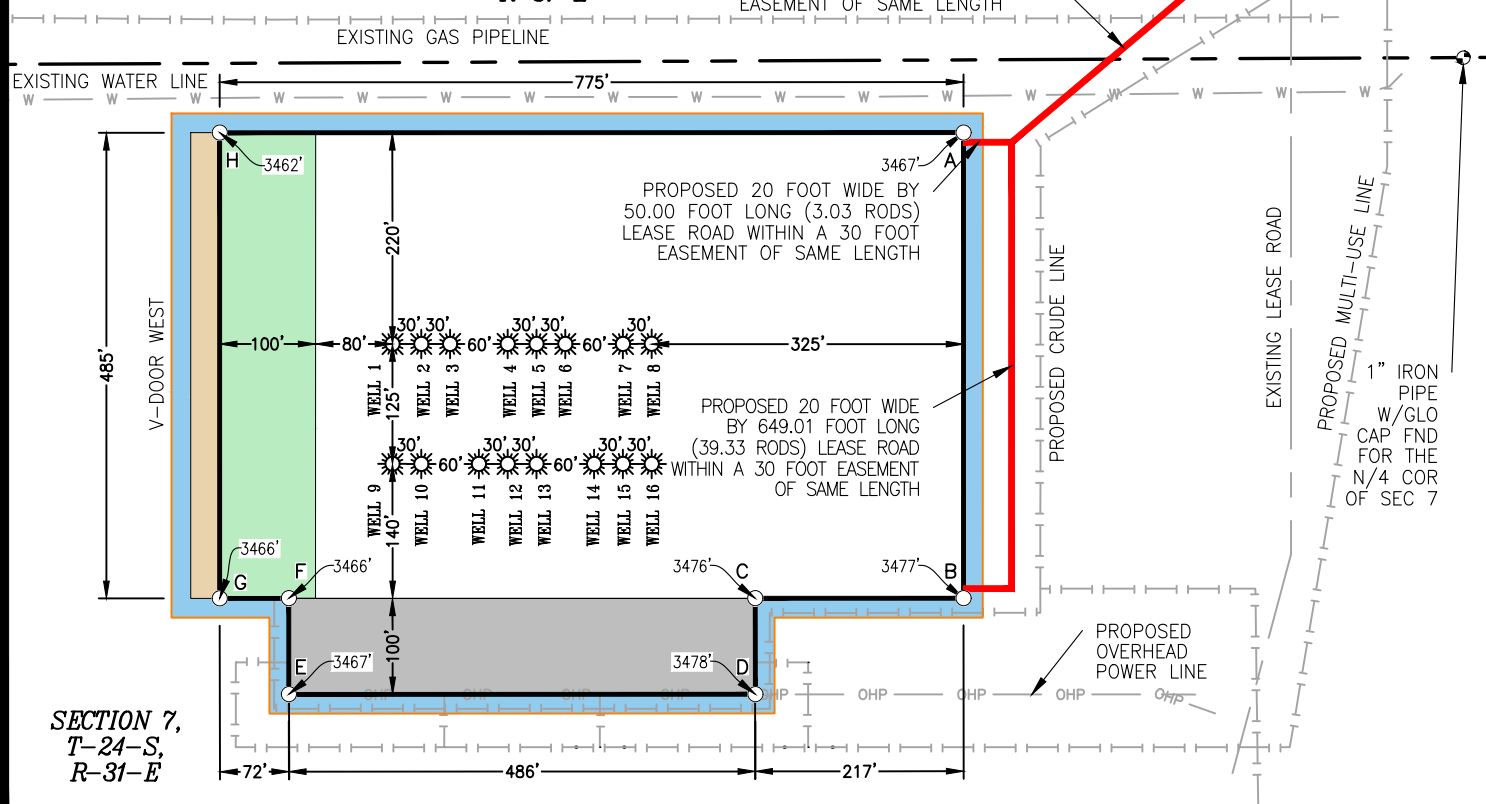


NAD 83		
A	E:(X)700480.97 N:(Y)451029.61	LAT:32.23890798 LON:-103.81861140
B	E:(X)700480.88 N:(Y)450544.57	LAT:32.23757472 LON:-103.81861923
C	E:(X)700263.94 N:(Y)450544.55	LAT:32.23757751 LON:-103.81932083
D	E:(X)700264.01 N:(Y)450444.69	LAT:32.23730304 LON:-103.81932217
E	E:(X)699777.97 N:(Y)450444.48	LAT:32.23730882 LON:-103.82089410
F	E:(X)699777.94 N:(Y)450544.49	LAT:32.23758375 LON:-103.82089265
G	E:(X)699705.93 N:(Y)450544.48	LAT:32.23758467 LON:-103.82112555
H	E:(X)699706.00 N:(Y)451029.51	LAT:32.23891790 LON:-103.82111782

SECTION 6,
T-24-S,
R-31-E

PROPOSED 20 FOOT WIDE BY
246.85 FOOT LONG (14.96 RODS)
LEASE ROAD WITHIN A 30 FOOT
EASEMENT OF SAME LENGTH

NAD 27		
A	E:(X)659297.09 N:(Y)450970.57	LAT:32.23878486 LON:-103.81812631
B	E:(X)659296.98 N:(Y)450485.54	LAT:32.23745157 LON:-103.81813418
C	E:(X)659080.04 N:(Y)450485.52	LAT:32.23745437 LON:-103.81883578
D	E:(X)659080.11 N:(Y)450385.67	LAT:32.23717988 LON:-103.81883711
E	E:(X)658594.07 N:(Y)450385.46	LAT:32.23718569 LON:-103.82040901
F	E:(X)658594.05 N:(Y)450485.46	LAT:32.23746060 LON:-103.82040755
G	E:(X)658522.04 N:(Y)450485.45	LAT:32.23746152 LON:-103.82064043
H	E:(X)658522.12 N:(Y)450970.47	LAT:32.23879477 LON:-103.82063267



07/20/2023	08/07/2023
DATE SURVEYED	DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

1	12/11/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

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

DECEMBER 18, 2024



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS01
SHEET 2 OF 3



SITE PLAN

SNDDNS_24S31E_7_2

SEC. 7 TWP. 24-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

FAA PERMIT NEEDED: NO

**WELL 1**JEFF SMITH MDP1 7_18 FED COM 31H
OXY USA, INC.

293' FNL 1,582' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699886.04' / Y:450809.50'
 LAT:32.23831078N / LON:103.82053893W
NAD 27, SPCS NM EAST
 X:658702.15' / Y:450750.47'
 LAT:32.23818764N / LON:103.82005382W
 ELEVATION = 3467'

WELL 2JEFF SMITH MDP1 7_18 FED COM 32H
OXY USA, INC.

293' FNL 1,612' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699915.98' / Y:450809.51'
 LAT:32.23831042N / LON:103.82044210W
NAD 27, SPCS NM EAST
 X:658732.09' / Y:450750.48'
 LAT:32.23818728N / LON:103.81995699W
 ELEVATION = 3467'

WELL 3JEFF SMITH MDP1 7_18 FED COM 33H
OXY USA, INC.

293' FNL 1,642' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699946.00' / Y:450809.50'
 LAT:32.23830999N / LON:103.82034501W
NAD 27, SPCS NM EAST
 X:658762.11' / Y:450750.47'
 LAT:32.23818685N / LON:103.81985990W
 ELEVATION = 3468'

WELL 4JEFF SMITH MDP1 7_18 FED COM 41H
OXY USA, INC.

294' FNL 1,702' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700005.96' / Y:450809.54'
 LAT:32.23830932N / LON:103.82015109W
NAD 27, SPCS NM EAST
 X:658822.07' / Y:450750.51'
 LAT:32.23818618N / LON:103.81966598W
 ELEVATION = 3469'

WELL 5JEFF SMITH MDP1 7_18 FED COM 47H
OXY USA, INC.

294' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700035.95' / Y:450809.48'
 LAT:32.23830876N / LON:103.8205410W
NAD 27, SPCS NM EAST
 X:658852.06' / Y:450750.45'
 LAT:32.23818562N / LON:103.81956899W
 ELEVATION = 3469'

WELL 6JEFF SMITH MDP1 7_18 FED COM 42H
OXY USA, INC.

294' FNL 1,762' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700066.08' / Y:450809.50'
 LAT:32.23796682N / LON:103.81995665W
NAD 27, SPCS NM EAST
 X:658882.20' / Y:450750.47'
 LAT:32.23818528N / LON:103.81947154W
 ELEVATION = 3469'

WELL 7JEFF SMITH MDP1 7_18 FED COM 11H
OXY USA, INC.

294' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700126.10' / Y:450809.43'
 LAT:32.23830744N / LON:103.81976254W
NAD 27, SPCS NM EAST
 X:658942.21' / Y:450750.40'
 LAT:32.23818429N / LON:103.81927744W
 ELEVATION = 3470'

WELL 8JEFF SMITH MDP1 7_18 FED COM 12H
OXY USA, INC.

294' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700156.01' / Y:450809.58'
 LAT:32.23830932N / LON:103.81966580W
NAD 27, SPCS NM EAST
 X:658972.12' / Y:450750.55'
 LAT:32.23818431N / LON:103.81918070W
 ELEVATION = 3470'

WELL 9NUGGET 6_31 FED COM 11H
OXY USA, INC.

418' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699885.94' / Y:450684.56'
 LAT:32.23796530N / LON:103.82054119W
NAD 27, SPCS NM EAST
 X:658702.05' / Y:450625.53'
 LAT:32.23784421N / LON:103.82005608W
 ELEVATION = 3467'

WELL 10NUGGET 6_31 FED COM 12H
OXY USA, INC.

418' FNL 1,792' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699915.99' / Y:450684.51'
 LAT:32.23796682N / LON:103.82044400W
NAD 27, SPCS NM EAST
 X:658732.10' / Y:450625.47'
 LAT:32.23784368N / LON:103.81995891W
 ELEVATION = 3468'

WELL 11NUGGET 6_31 FED COM 21H
OXY USA, INC.

418' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699975.94' / Y:450684.47'
 LAT:32.23796592N / LON:103.82025011W
NAD 27, SPCS NM EAST
 X:658792.05' / Y:450625.44'
 LAT:32.23784278N / LON:103.81976502W
 ELEVATION = 3470'

WELL 12NUGGET 6_31 FED COM 22H
OXY USA, INC.

419' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700005.99' / Y:450684.49'
 LAT:32.23796558N / LON:103.82015292W
NAD 27, SPCS NM EAST
 X:658822.10' / Y:450625.49'
 LAT:32.23784244N / LON:103.81966784W
 ELEVATION = 3471'

WELL 13NUGGET 6_31 FED COM 23H
OXY USA, INC.

419' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700036.01' / Y:450684.53'
 LAT:32.23796530N / LON:103.8205583W
NAD 27, SPCS NM EAST
 X:658852.12' / Y:450625.50'
 LAT:32.23784216N / LON:103.81957075W
 ELEVATION = 3472'

WELL 14NUGGET 6_31 FED COM 43H
OXY USA, INC.

419' FNL 1,792' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700095.99' / Y:450684.50'
 LAT:32.23796443N / LON:103.81986185W
NAD 27, SPCS NM EAST
 X:658912.10' / Y:450625.47'
 LAT:32.23784128N / LON:103.81937676W
 ELEVATION = 3472'

WELL 15NUGGET 6_31 FED COM 48H
OXY USA, INC.

419' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700125.96' / Y:450684.54'
 LAT:32.23796414N / LON:103.81976492W
NAD 27, SPCS NM EAST
 X:658942.07' / Y:450625.51'
 LAT:32.23784100N / LON:103.81927984W
 ELEVATION = 3473'

WELL 16NUGGET 6_31 FED COM 44H
OXY USA, INC.

419' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700156.00' / Y:450684.52'
 LAT:32.23796369N / LON:103.81966776W
NAD 27, SPCS NM EAST
 X:658972.11' / Y:450625.49'
 LAT:32.23784055N / LON:103.81918269W
 ELEVATION = 3472'

07/20/2023 08/07/2023

DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

1	12/11/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833°.)

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		x	FENCE
	SURFACE SITE EDGE		SECTION LINE	
	EXIST. PIPELINE		PROPERTY LINE	
			WATER LINE	
			SWD	SALT WATER LINE

● MONUMENT ● QUARTER SPLIT

DECEMBER 18, 2024



PREPARED BY:
 DELTA FIELD SERVICES, LLC
 510 TRENTON ST.
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. OXY_0029_JS01
 SHEET 3 OF 3



SITE PLAN

SNDDNS 24S31E 6 4

SEC. 6 TWP. 24-S RGE. 31-E

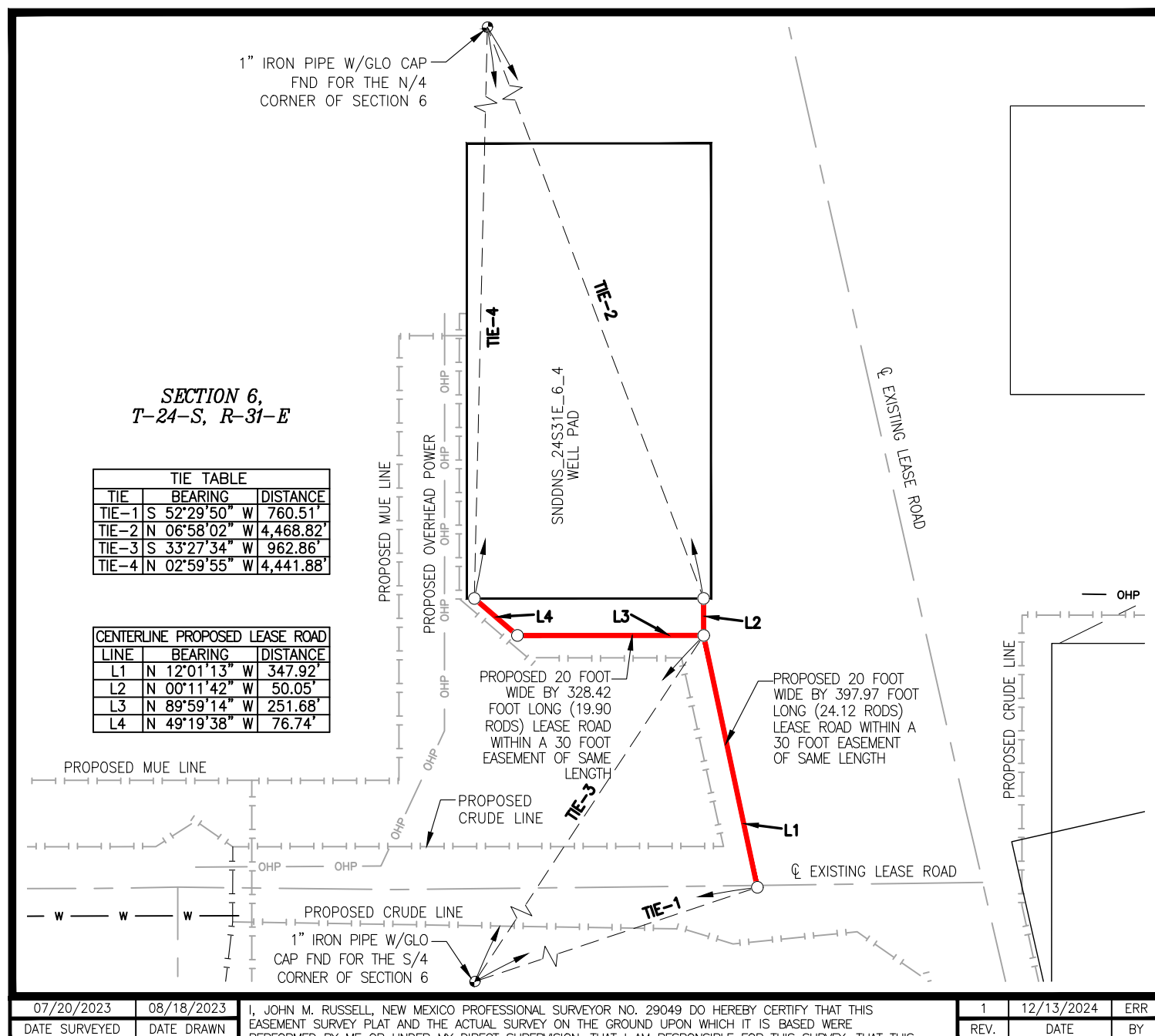
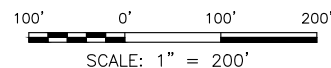
SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

FAA PERMIT NEEDED: NO



TIE TABLE		
TIE	BEARING	DISTANCE
TIE-1	S 52°29'50" W	760.51'
TIE-2	N 06°58'02" W	4,468.82'
TIE-3	S 33°27'34" W	962.86'
TIE-4	N 02°59'55" W	4,441.88'

CENTERLINE PROPOSED LEASE ROAD		
LINE	BEARING	DISTANCE
L1	N 12°01'13" W	347.92'
L2	N 00°11'42" W	50.05'
L3	N 89°59'14" W	251.68'
L4	N 49°19'38" W	76.74'

07/20/2023	08/18/2023
DATE SURVEYED	DATE DRAWN

1	12/13/2024	ERR
REV.	DATE	BY

I, JOHN M. RUSSELL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 29049 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.

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833'.)

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		FENCE	
	SURFACE SITE EDGE		SECTION LINE	
	EXIST. PIPELINE		PROPERTY LINE	
	MONUMENT		W	WATER LINE
	QUARTER SPLIT		SWD	SALT WATER LINE

DECEMBER 30, 2024



PREPARED BY:
 DELTA FIELD SERVICES, LLC
 510 TRENTON ST.
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. OXY_0029_JS04
 SHEET 1 OF 3



SITE PLAN

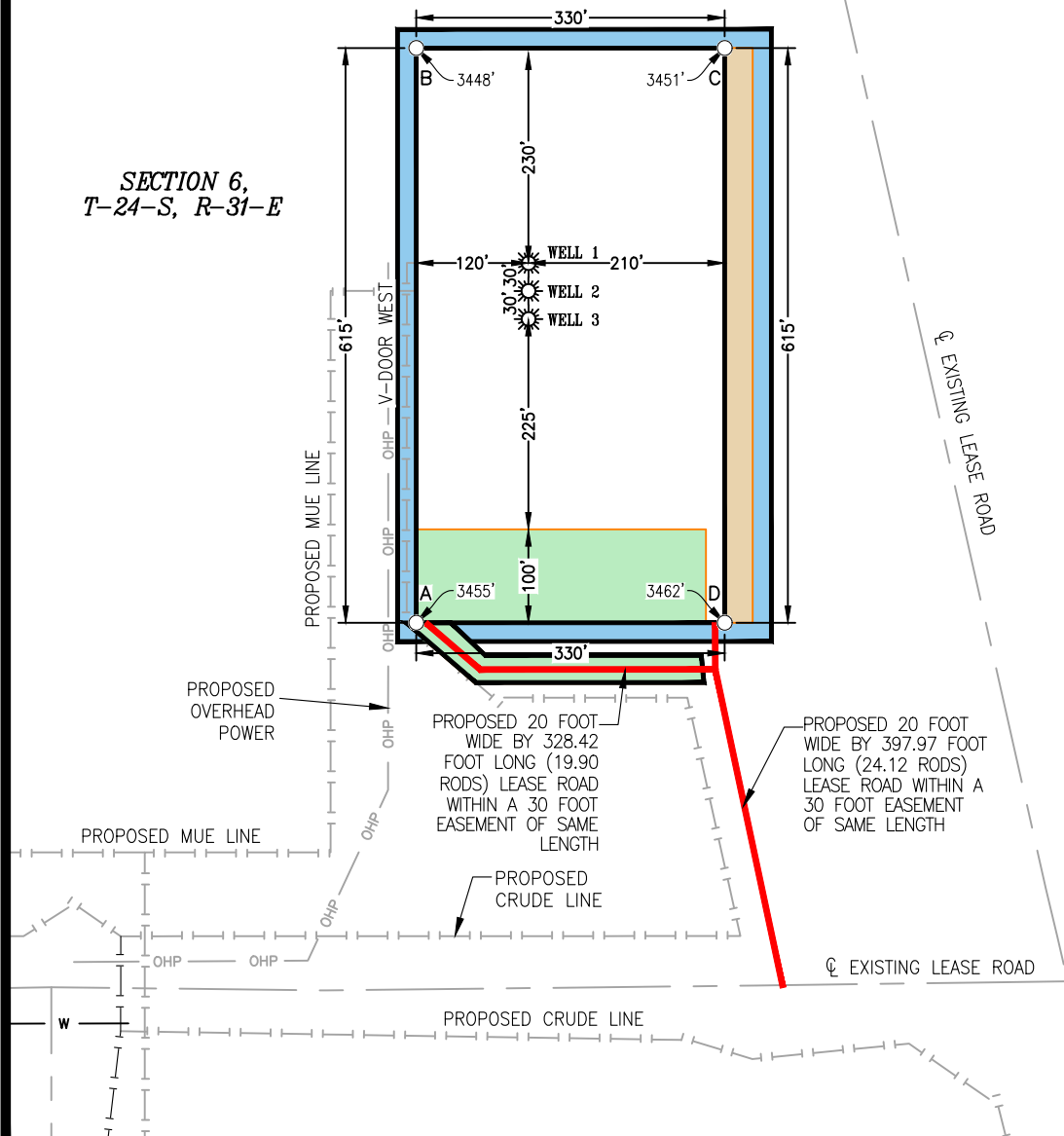
SNDDNS 24S31E 6 4
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY
RECLAMATION
30' TOP SOIL
20' DISTURBANCE AREA



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

SECTION 6,
T-24-S, R-31-E



NAD 83			
A	E:(X)701212.47 N:(Y)451961.09	LAT:32.24145878 LON:-103.81623107	
B	E:(X)701212.50 N:(Y)452576.05	LAT:32.24314917 LON:-103.81622140	
C	E:(X)701542.52 N:(Y)452576.09	LAT:32.24314491 LON:-103.81515399	
D	E:(X)701542.45 N:(Y)451961.07	LAT:32.24145435 LON:-103.81516382	
NAD 27			
A	E:(X)660028.62 N:(Y)451902.03	LAT:32.24133566 LON:-103.81574592	
B	E:(X)660028.67 N:(Y)452516.98	LAT:32.24302606 LON:-103.81573617	
C	E:(X)660358.69 N:(Y)452517.02	LAT:32.24302180 LON:-103.81566879	
D	E:(X)660358.60 N:(Y)451902.01	LAT:32.24133122 LON:-103.81467869	

07/20/2023	08/18/2023
DATE SURVEYED	DATE DRAWN

I, JOHN M. RUSSELL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 29049 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.

1	12/13/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833°.)

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

DECEMBER 30, 2024



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS04
SHEET 2 OF 3



SITE PLAN

SNDDNS_24S31E_6_4
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



WELL 1
JEFF SMITH MDP1 7_18 FED COM 1H
OXY USA, INC.
1,237' FSL 2,307' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:701332.66' / Y:452345.95'
LAT:32.24251508N / LON:103.81583634W
NAD 27, SPCS NM EAST
X:660148.82' / Y:452286.88'
LAT:32.24239197N / LON:103.81535116W
ELEVATION = 3452'

WELL 2
JEFF SMITH MDP1 7_18 FED COM 2H
OXY USA, INC.
1,207' FSL 2,307' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:701332.47' / Y:452316.14'
LAT:32.24243314N / LON:103.81583740W
NAD 27, SPCS NM EAST
X:660148.63' / Y:452257.07'
LAT:32.24231003N / LON:103.81535220W
ELEVATION = 3453'

WELL 3
JEFF SMITH MDP1 7_18 FED COM 3H
OXY USA, INC.
1,177' FSL 2,307' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:701332.72' / Y:452286.00'
LAT:32.24235029N / LON:103.81583708W
NAD 27, SPCS NM EAST
X:660148.88' / Y:452226.94'
LAT:32.2422718N / LON:103.81535191W
ELEVATION = 3452'

07/20/2023	08/18/2023
DATE SURVEYED	DATE DRAWN

I, JOHN M. RUSSELL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 29049 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.

1	12/13/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833°.)

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		FENCE	
	SURFACE SITE EDGE		SECTION LINE	
	EXIST. PIPELINE		PROPERTY LINE	
	MONUMENT		WATER LINE	
	QUARTER SPLIT		SALT WATER LINE	

DECEMBER 30, 2024



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS04
SHEET 3 OF 3



SITE PLAN

SNDDNS 24S31E 6 5
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY

OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



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

TIE TABLE		
TIE	BEARING	DISTANCE
TIE-1	S 30°40'37" E	1,740.38'
TIE-2	N 24°36'40" W	4,157.89'
TIE-3	S 37°23'55" E	1,418.21'
TIE-4	N 22°38'55" W	4,496.91'

CENTERLINE PROPOSED LEASE ROAD		
LINE	BEARING	DISTANCE
L1	S 89°40'07" W	32.67'
L2	N 89°58'29" W	59.16'

1" IRON PIPE W/GLO
CAP FND FOR THE
N/4 COR OF SEC 6

SECTION 6,
T-24-S, R-31-E

PROPOSED 20 FOOT
WIDE BY 32.67 FOOT
LONG (1.98 RODS)
LEASE ROAD WITHIN A
30 FOOT EASEMENT
OF SAME LENGTH

FUTURE OVERHEAD POWER

FUTURE CRUDE LINE

SNDDNS_24S31E_6_5
WELL PAD

PROPOSED 20 FOOT WIDE BY
59.16 FOOT LONG (3.59 RODS)
LEASE ROAD WITHIN A 30
FOOT EASEMENT OF SAME
LENGTH

FUTURE OVERHEAD POWER

FUTURE MUE LINE

EXISTING LEASE ROAD

FUTURE CRUDE LINE

EXISTING PIPELINE

FUTURE MUE LINE

2" IRON PIPE
W/GLO CAP FND
FOR THE SE COR
OF SEC 6

07/20/2023 08/21/2023

DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

3 06/09/2025 ANC
REV. DATE BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833°.)

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		FENCE	
	SURFACE SITE EDGE		SECTION LINE	
	EXIST. PIPELINE		PROPERTY LINE	
	MONUMENT		W	WATER LINE
	QUARTER SPLIT		SWD	SALT WATER LINE

JUNE 12, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029 JS05
SHEET 1 OF 3



SITE PLAN

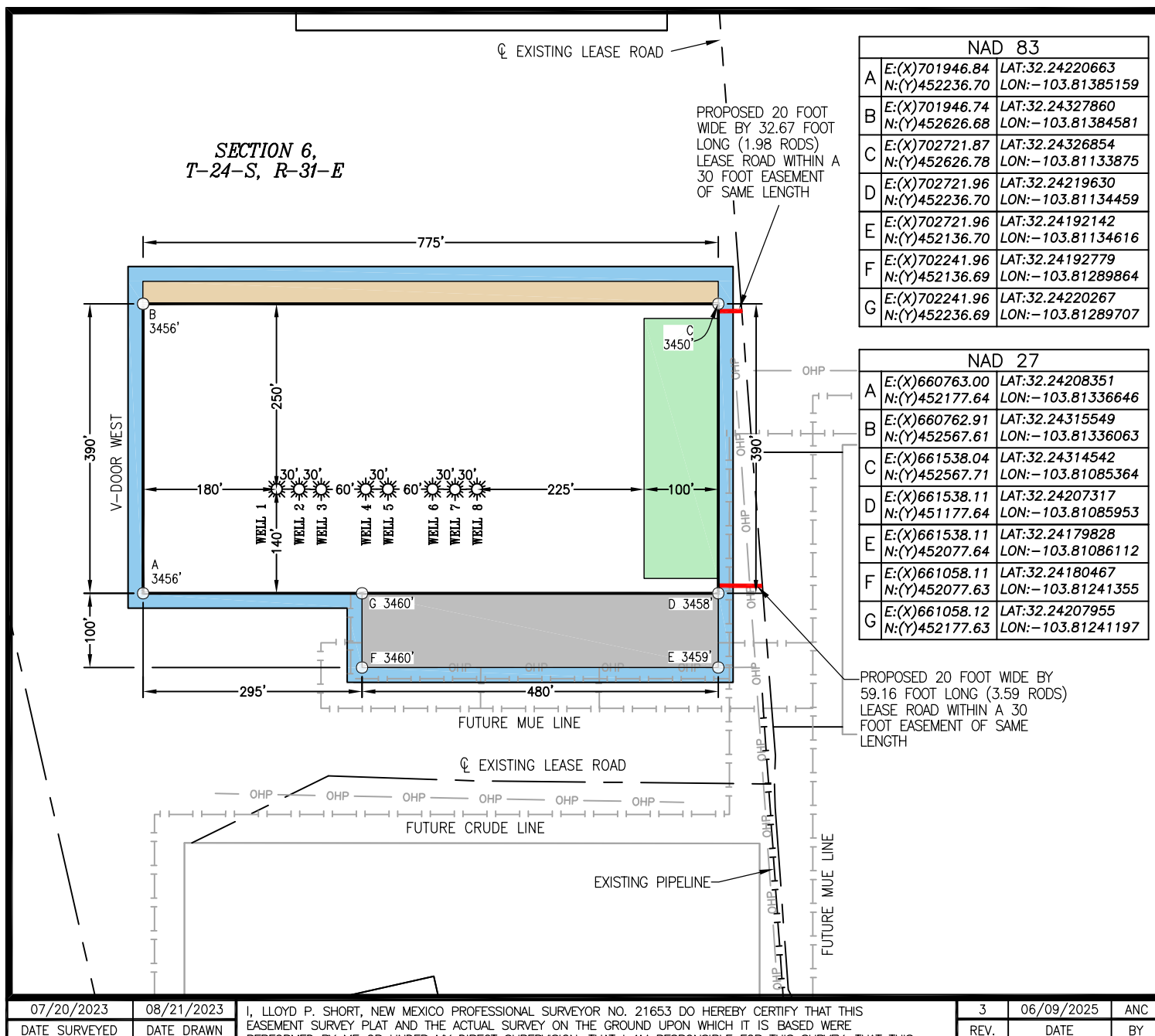
SNDDNS 24S31E 6 5
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY
RECLAMATION
30' TOP SOIL
20' DISTURBANCE AREA

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



SECTION 6,
T-24-S, R-31-E



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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

LEGEND

EXISTING ROAD
PROPOSED ROAD
SURFACE SITE EDGE
EXIST. PIPELINE
MONUMENT
QUARTER SPLIT
OHP
FENCE
SECTION LINE
PROPERTY LINE
WATER LINE
SALT WATER LINE
OVERHEAD POWER FENCE
SECTION LINE
PROPERTY LINE
WATER LINE
SALT WATER LINE

JUNE 12, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029 JS05
SHEET 2 OF 3



SITE PLAN

SNDDNS 24S31E 6 5
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY

OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



WELL 1
NUGGET 6_31 FED COM 24H
OXY USA, INC.
1,264' FSL 1,513' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702126.76' / Y:452376.68'
LAT:32.24258900N / LON:103.81326749W
NAD 27, SPCS NM EAST
X:660942.92' / Y:452317.61'
LAT:32.24246587N / LON:103.81278236W
ELEVATION = 3458'

WELL 2
NUGGET 6_31 FED COM 25H
OXY USA, INC.
1,264' FSL 1,482' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702156.89' / Y:452376.70'
LAT:32.24258866N / LON:103.81317004W
NAD 27, SPCS NM EAST
X:660973.05' / Y:452317.63'
LAT:32.24246554N / LON:103.81268491W
ELEVATION = 3458'

WELL 3
NUGGET 6_31 FED COM 26H
OXY USA, INC.
1,263' FSL 1,453' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702186.81' / Y:452376.72'
LAT:32.24258832N / LON:103.81307326W
NAD 27, SPCS NM EAST
X:661002.97' / Y:452317.65'
LAT:32.24246520N / LON:103.81258814W
ELEVATION = 3457'

WELL 4
JEFF SMITH MDP1 7_18 FED COM 49H
OXY USA, INC.
1,263' FSL 1,393' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702246.76' / Y:452376.70'
LAT:32.24258747N / LON:103.81287935W
NAD 27, SPCS NM EAST
X:661062.92' / Y:452317.63'
LAT:32.24246434N / LON:103.81239423W
ELEVATION = 3457'

WELL 5
JEFF SMITH MDP1 7_18 FED COM 45H
OXY USA, INC.
1,263' FSL 1,362' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702276.85' / Y:452376.82'
LAT:32.24258740N / LON:103.81278203W
NAD 27, SPCS NM EAST
X:661093.01' / Y:452317.75'
LAT:32.24246427N / LON:103.81229691W
ELEVATION = 3457'

WELL 6
NUGGET 6_31 FED COM 6H
OXY USA, INC.
1,263' FSL 1,302' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702337.00' / Y:452376.87'
LAT:32.24258673N / LON:103.81258748W
NAD 27, SPCS NM EAST
X:661153.16' / Y:452317.80'
LAT:32.24246360N / LON:103.81210237W
ELEVATION = 3458'

WELL 7
NUGGET 6_31 FED COM 46H
OXY USA, INC.
1,263' FSL 1,272' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702367.19' / Y:452376.76'
LAT:32.24258603N / LON:103.81248984W
NAD 27, SPCS NM EAST
X:661183.35' / Y:452317.69'
LAT:32.24246290N / LON:103.81200473W
ELEVATION = 3458'

WELL 8
NUGGET 6_31 FED COM 50H
OXY USA, INC.
1,263' FSL 1,242' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702397.07' / Y:452376.96'
LAT:32.24258618N / LON:103.81239319W
NAD 27, SPCS NM EAST
X:661213.23' / Y:452317.89'
LAT:32.24246305N / LON:103.81190808W
ELEVATION = 3457'

07/20/2023	08/21/2023
DATE SURVEYED	DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

3	06/09/2025	ANC
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		FENCE	
	SURFACE SITE EDGE		SECTION LINE	
	EXIST. PIPELINE		PROPERTY LINE	
			WATER LINE	
			SALT WATER LINE	
	MONUMENT		QUARTER SPLIT	

JUNE 12, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS05
SHEET 3 OF 3

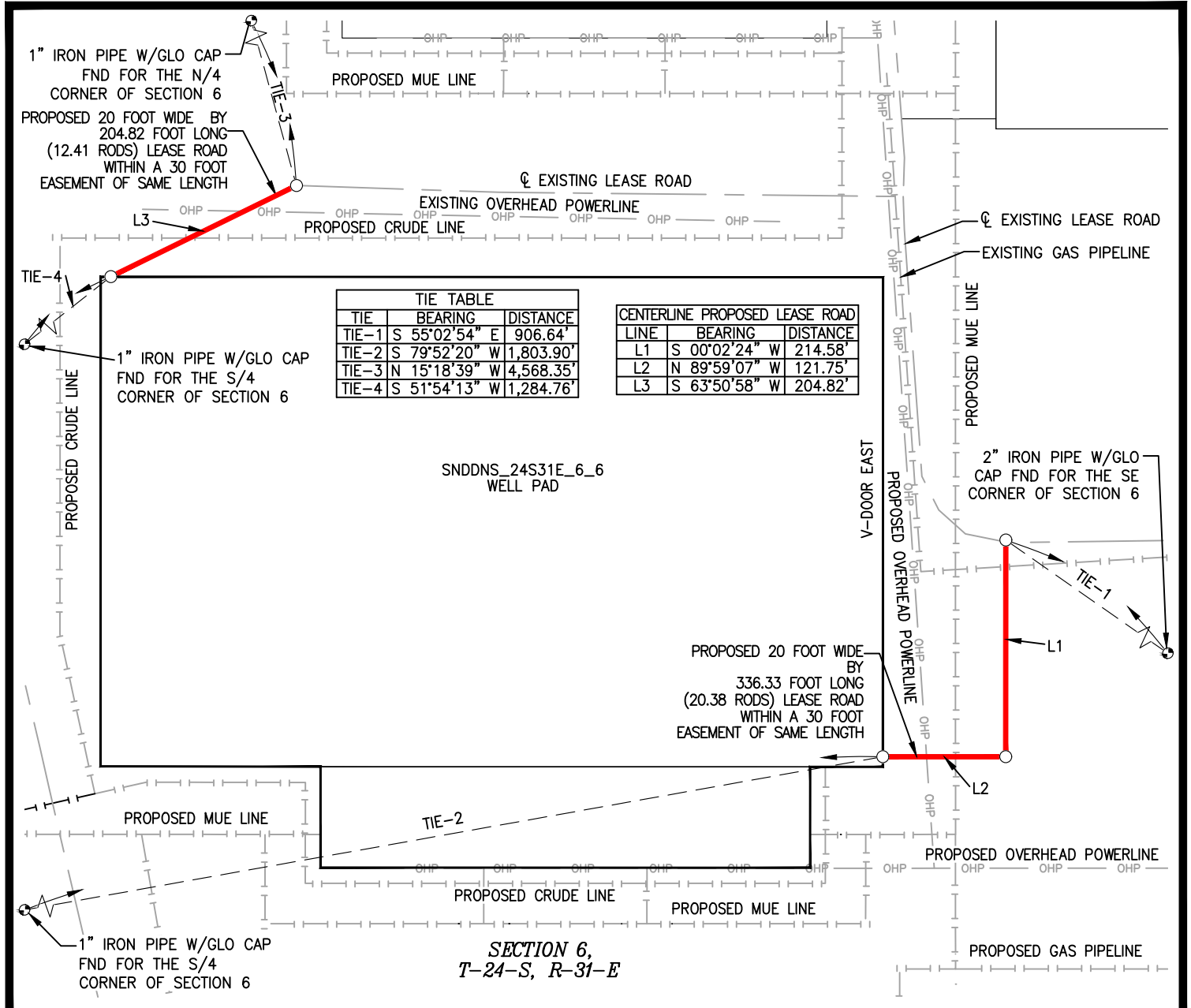


SITE PLAN

SNDDNS_24S31E_6_6
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



75' 0' 75' 150'
SCALE: 1" = 150'



DATE SURVEYED	DATE DRAWN
07/20/2023	11/03/2023

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

REV.	DATE	BY
2	12/12/2024	ERR

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833'.)

LEGEND			
	EXISTING ROAD		OHP — OVERHEAD POWER FENCE
	PROPOSED ROAD		SECTION LINE
	SURFACE SITE EDGE		PROPERTY LINE
	EXIST. PIPELINE		WATER LINE
	MONUMENT		SWD — SALT WATER LINE
	QUARTER SPLIT		

JANUARY 14, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS02
SHEET 1 OF 4



SITE PLAN

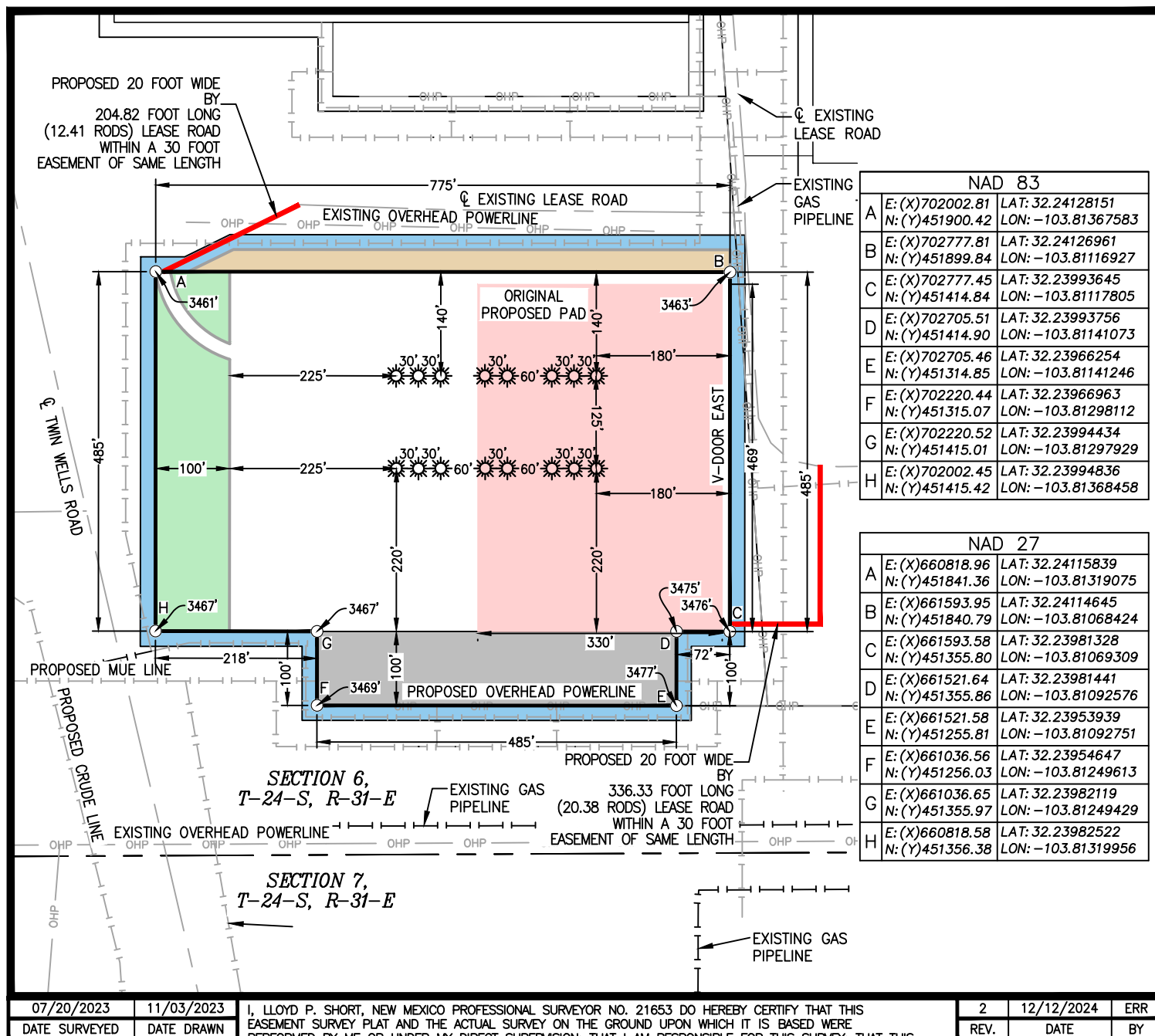
SNDDNS 24S31E 6 6
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY

OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY	
RECLAMATION	
30' TOP SOIL	
20' DISTURBANCE AREA	
ORIGINAL PAD	



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



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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833°.)

LEGEND			
	EXISTING ROAD		OHP
	PROPOSED ROAD		OVERHEAD POWER FENCE
	SURFACE SITE EDGE		SECTION LINE
	EXIST. PIPELINE		PROPERTY LINE
	MONUMENT		WATER LINE
	QUARTER SPLIT		SALT WATER LINE

JANUARY 14, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS02
SHEET 2 OF 4



Beginning (*POINT OF BEGINNING*) at a point from which a 2 inch iron pipe with GLO cap found for the Southeast corner of said Section 6 bears S 47°57'19" E a distance of 1,164.34 feet.

THENCE crossing Section 6 the following courses and distances:

N 89°57'28" W a distance of 775.00 feet, S 00°02'32" W a distance of 485.00 feet,
S 89°53'37" E a distance of 218.07 feet, S 00°02'31" W a distance of 99.94 feet,
S 89°58'24" E a distance of 216.88 feet, 00°00'00" E a distance of 568.58 feet,
N 90°00'00" E a distance of 330.00 feet, S 0°00'00" E a distance of 468.70 feet,
S 89°57'28" E a distance of 10.13 feet, and S 00°02'32" E a distance of 485.00 feet to the PLACE OF BEGINNING.

The total described proposed well pad in said Section 6, contains 5.57 acres of land. Said proposed well pad being located in section 6, Township 24 South, Range 29 East, N.M.P.M, Eddy County, New Mexico.



TIE TABLE		
LINE	BEARING	DISTANCE
TIE-1	S 47°57'19" E	1,164.34'

Released to Imaging: 12/4/2025 10:30:39 AM



SITE PLAN

SNDDNS_24S31E_6
SEC. 6 TWP. 24-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

FAA PERMIT NEEDED: NO



WELL 1
JEFF SMITH MDP1 7_18 FED COM 24H
OXY USA, INC.
646' FSL 1,314' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702327.15' / Y:451759.85'
LAT:32.24089081N / LON:103.81262902W
NAD 27, SPCS NM EAST
X:661143.29' / Y:451700.80'
LAT:32.24076767N / LON:103.81214398W
ELEVATION = 3464'

WELL 2
JEFF SMITH MDP1 7_18 FED COM 25H
OXY USA, INC.
646' FSL 1,284' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702357.12' / Y:451759.87'
LAT:32.24089046N / LON:103.81253208W
NAD 27, SPCS NM EAST
X:661173.26' / Y:451700.82'
LAT:32.24076733N / LON:103.81204705W
ELEVATION = 3464'

WELL 3
JEFF SMITH MDP1 7_18 FED COM 26H
OXY USA, INC.
646' FSL 1,254' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702387.26' / Y:451759.88'
LAT:32.24089009N / LON:103.81243460W
NAD 27, SPCS NM EAST
X:661203.40' / Y:451700.83'
LAT:32.24076695N / LON:103.81194958W
ELEVATION = 3464'

WELL 4
JEFF SMITH MDP1 7_18 FED COM 13H
OXY USA, INC.
645' FSL 1,194' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702447.05' / Y:451759.92'
LAT:32.24088940N / LON:103.81224122W
NAD 27, SPCS NM EAST
X:661263.19' / Y:451700.86'
LAT:32.24076625N / LON:103.81175620W
ELEVATION = 3465'

WELL 5
JEFF SMITH MDP1 7_18 FED COM 14H
OXY USA, INC.
645' FSL 1,164' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702477.16' / Y:451759.86'
LAT:32.24088883N / LON:103.81214384W
NAD 27, SPCS NM EAST
X:661293.30' / Y:451700.81'
LAT:32.24076569N / LON:103.81165882W
ELEVATION = 3465'

WELL 6
JEFF SMITH MDP1 7_18 FED COM 34H
OXY USA, INC.
645' FSL 1,104' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702537.22' / Y:451759.74'
LAT:32.24088770N / LON:103.81194959W
NAD 27, SPCS NM EAST
X:661353.36' / Y:451700.69'
LAT:32.24076456N / LON:103.81146458W
ELEVATION = 3466'

WELL 7
JEFF SMITH MDP1 7_18 FED COM 35H
OXY USA, INC.
645' FSL 1,074' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702567.22' / Y:451759.69'
LAT:32.24088717N / LON:103.81185256W
NAD 27, SPCS NM EAST
X:661383.36' / Y:451700.64'
LAT:32.24076402N / LON:103.81136755W
ELEVATION = 3466'

WELL 8
JEFF SMITH MDP1 7_18 FED COM 36H
OXY USA, INC.
645' FSL 1,044' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702597.20' / Y:451759.84'
LAT:32.24088718N / LON:103.81175560W
NAD 27, SPCS NM EAST
X:661413.34' / Y:451700.79'
LAT:32.24076403N / LON:103.81127059W
ELEVATION = 3466'

WELL 9
NUGGET 6_31 FED COM 34H
OXY USA, INC.
521' FSL 1,314' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702327.50' / Y:451634.94'
LAT:32.24054745N / LON:103.81262984W
NAD 27, SPCS NM EAST
X:661143.63' / Y:451575.89'
LAT:32.24042431N / LON:103.81214483W
ELEVATION = 3467'

WELL 10
NUGGET 6_31 FED COM 35H
OXY USA, INC.
521' FSL 1,284' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702357.38' / Y:451634.88'
LAT:32.24054689N / LON:103.81253320W
NAD 27, SPCS NM EAST
X:661173.52' / Y:451575.83'
LAT:32.24042374N / LON:103.81204819W
ELEVATION = 3466'

WELL 11
NUGGET 6_31 FED COM 36H
OXY USA, INC.
521' FSL 1,254' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702387.38' / Y:451634.91'
LAT:32.24054414N / LON:103.81243617W
NAD 27, SPCS NM EAST
X:661203.52' / Y:451575.86'
LAT:32.24042343N / LON:103.81195116W
ELEVATION = 3466'

WELL 12
NUGGET 6_31 FED COM 49H
OXY USA, INC.
520' FSL 1,194' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702447.40' / Y:451634.92'
LAT:32.24054580N / LON:103.81224205W
NAD 27, SPCS NM EAST
X:661263.53' / Y:451575.87'
LAT:32.24042265N / LON:103.81175705W
ELEVATION = 3468'

WELL 13
NUGGET 6_31 FED COM 45H
OXY USA, INC.
520' FSL 1,164' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702477.36' / Y:451634.92'
LAT:32.24054540N / LON:103.81214515W
NAD 27, SPCS NM EAST
X:661293.50' / Y:451575.87'
LAT:32.24042225N / LON:103.81166015W
ELEVATION = 3468'

WELL 14
NUGGET 6_31 FED COM 13H
OXY USA, INC.
520' FSL 1,104' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702537.38' / Y:451634.87'
LAT:32.24054446N / LON:103.81195103W
NAD 27, SPCS NM EAST
X:661353.51' / Y:451575.82'
LAT:32.24042131N / LON:103.81146604W
ELEVATION = 3470'

WELL 15
NUGGET 6_31 FED COM 14H
OXY USA, INC.
520' FSL 1,074' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702567.37' / Y:451634.90'
LAT:32.24054414N / LON:103.81185404W
NAD 27, SPCS NM EAST
X:661383.51' / Y:451575.85'
LAT:32.24042100N / LON:103.81136904W
ELEVATION = 3470'

WELL 16
NUGGET 6_31 FED COM 7H
OXY USA, INC.
520' FSL 1,044' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:702597.39' / Y:451634.84'
LAT:32.24054358N / LON:103.81175695W
NAD 27, SPCS NM EAST
X:661413.53' / Y:451575.79'
LAT:32.24042043N / LON:103.81127195W
ELEVATION = 3470'

07/20/2023 11/03/2023

DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

2 12/12/2024 ERR
REV. DATE BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

LEGEND

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

JANUARY 14, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS02
SHEET 4 OF 4



SITE PLAN

SNDDNS_24S31E_6_3
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



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

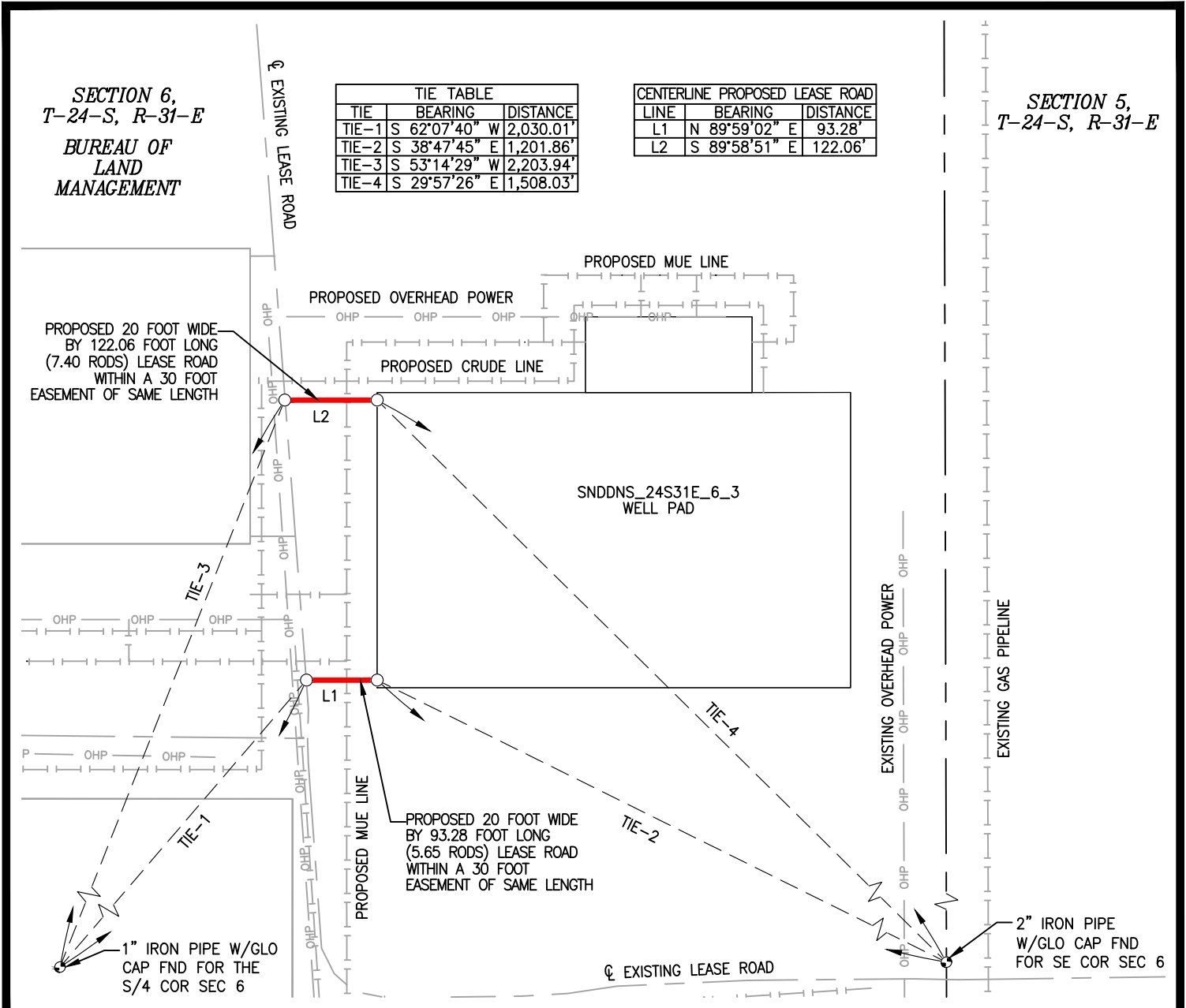
SECTION 6,
T-24-S, R-31-E

BUREAU OF
LAND
MANAGEMENT

TIE TABLE		
TIE	BEARING	DISTANCE
TIE-1	S 62°07'40" W	2,030.01'
TIE-2	S 38°47'45" E	1,201.86'
TIE-3	S 53°14'29" W	2,203.94'
TIE-4	S 29°57'26" E	1,508.03'

CENTERLINE PROPOSED LEASE ROAD		
LINE	BEARING	DISTANCE
L1	N 89°59'02" E	93.28'
L2	S 89°58'51" E	122.06'

SECTION 5,
T-24-S, R-31-E



07/20/2023	08/24/2023
DATE SURVEYED	DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

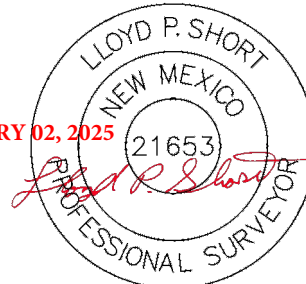
1	12/9/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

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

JANUARY 02, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS03
SHEET 1 OF 3



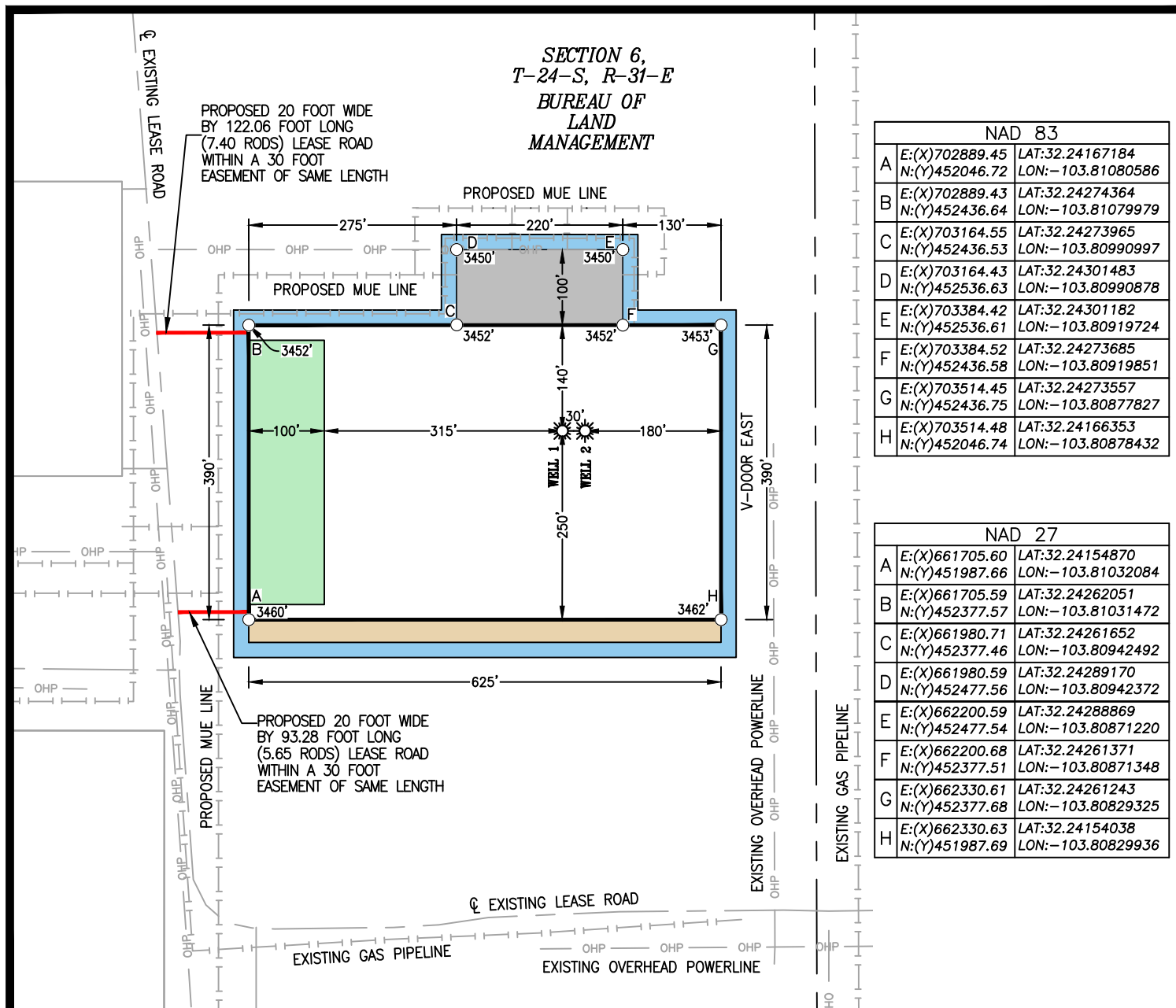
SITE PLAN

SNDDNS_24S31E_6_3
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY
RECLAMATION
30' TOP SOIL
20' DISTURBANCE AREA



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



07/20/2023 08/24/2023
DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

1 12/9/2024 ERR
REV. DATE BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833'.)

LEGEND

EXISTING ROAD
PROPOSED ROAD
SURFACE SITE EDGE
EXIST. PIPELINE
MONUMENT
QUARTER SPLT
OHP
FENCE
SECTION LINE
PROPERTY LINE
WATER LINE
SALT WATER LINE
OVERHEAD POWER
FENCE
SECTION LINE
PROPERTY LINE
WATER LINE
SALT WATER LINE

JANUARY 02, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS03
SHEET 2 OF 3



SITE PLAN

SNDDNS_24S31E_6_3
SEC. 6 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO



WELL 1
JEFF SMITH MDP1 7_18 FED COM 46H
OXY USA, INC.
1,178' FSL 335' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:703304.41' / Y:452296.59'
LAT:32.24235313N / LON:103.80945981W
NAD 27, SPCS NM EAST
X:662120.56' / Y:452237.52'
LAT:32.24222998N / LON:103.80897480W
ELEVATION = 3455'

WELL 2
JEFF SMITH MDP1 7_18 FED COM 50H
OXY USA, INC.
1,178' FSL 305' FEL, SECTION 6
NAD 83, SPCS NM EAST
X:703334.42' / Y:4522296.58'
LAT:32.24235270N / LON:103.80936275W
NAD 27, SPCS NM EAST
X:662150.58' / Y:452237.51'
LAT:32.24222955N / LON:103.80887773W
ELEVATION = 3455'

07/20/2023	08/24/2023
DATE SURVEYED	DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

1	12/9/2024	ERR
REV.	DATE	BY

BASIS OF BEARING

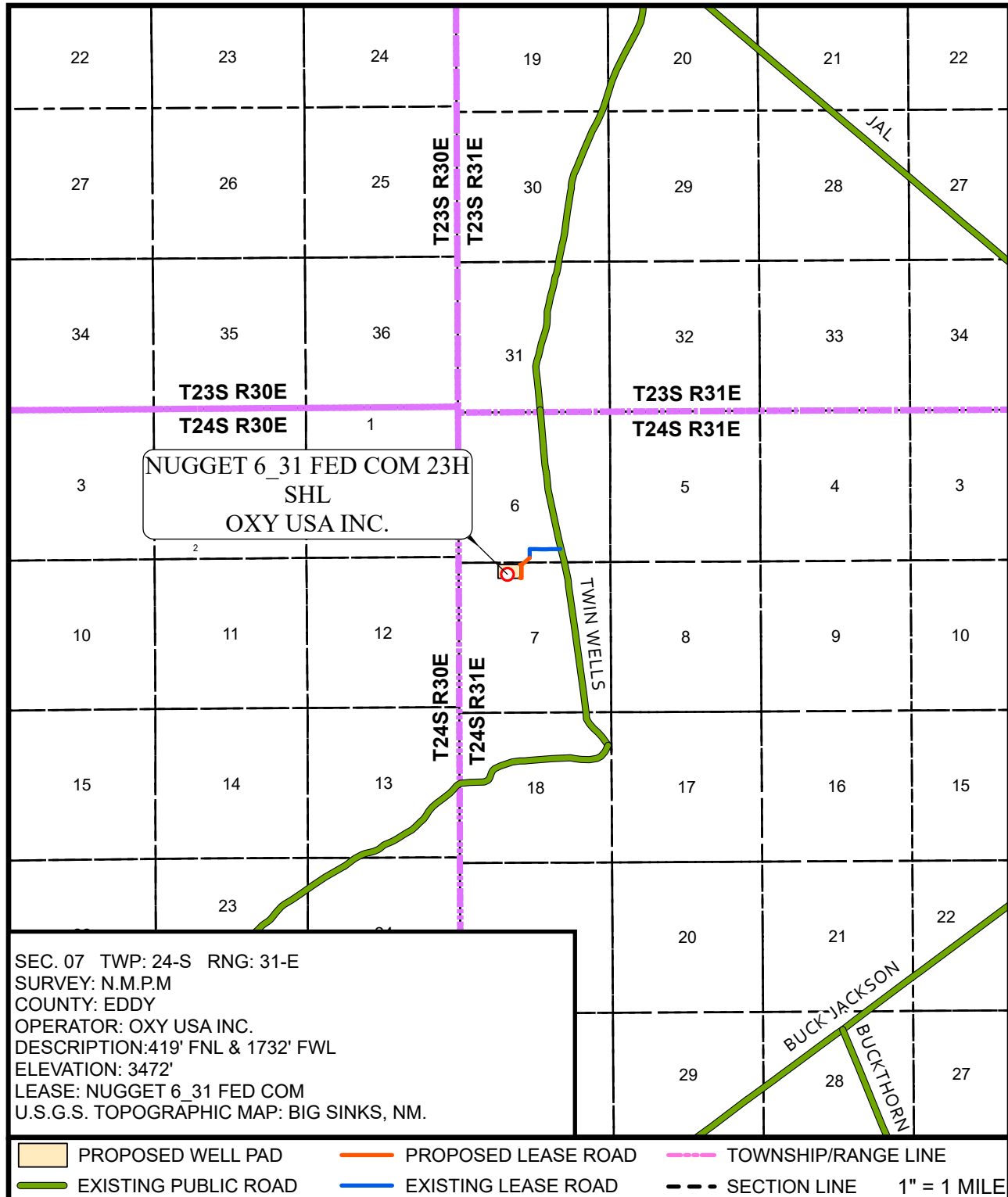
ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833'.)

JANUARY 02, 2025



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS03
SHEET 3 OF 3

VICINITY MAP



APPROX. 16.6 MILES SOUTHEASTERLY OF LOVING, NM.

FROM THE INTERSECTION OF U.S. HWY 285 AND STATE HWY 387 / W. CEDAR STREET IN LOVING, NEW MEXICO, HEAD NORTH ON U.S. HWY 285 FOR APPROX. 2.3 MILES TO STATE HWY 31 / POTASH MINES ROAD. HEAD EAST ON STATE HWY 31 / POTASH MINES ROAD FOR APPROX. 7.7 MILES TO STATE HWY 128 / JAL HWY. HEAD EAST ON STATE HWY 128 / JAL HWY FOR APPROX. 12.8 MILES TO TWIN WELLS ROAD ON SOUTH SIDE OF HWY. HEAD SOUTH ON TWIN WELLS ROAD FOR APPROX. 4.2 MILES TO AN EXISTING LEASE ROAD ON THE WEST SIDE OF ROAD. HEAD WEST ON SAID LEASE ROAD FOR APPROX. 0.2 MILES TO A PREVIOUSLY STAKED ACCESS ROAD ON SOUTH SIDE OF ROAD. HEAD SOUTH ON PREVIOUSLY STAKED LEASE ROAD FOR APPROX. 300' TO THE ENTRANCE OF THE NORTHEAST PAD CORNER.



PREPARED BY:
 DELTA FIELD SERVICES, LLC
 510 TRENTON STREET,
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. OXY_0029_JS01_15055



SITE PLAN

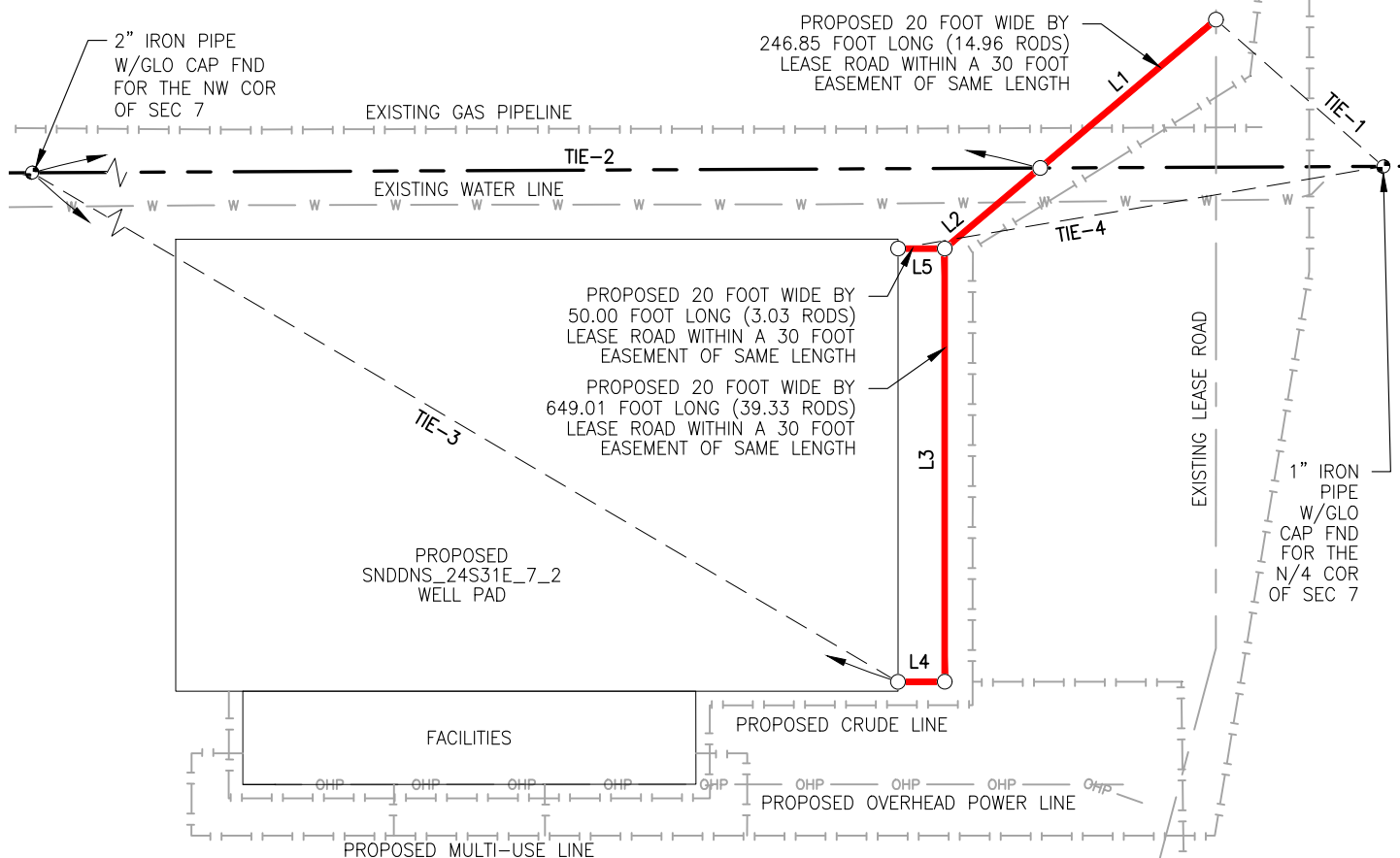
SNDDNS_24S31E_7_2
SEC. 7 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO

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



SECTION 6, T-24-S, R-31-E



SECTION 7, T-24-S, R-31-E

TIE TABLE		
TIE	BEARING	DISTANCE
TIE-1	S 48°44'58" E	238.84'
TIE-2	S 89°43'58" W	2,331.08'
TIE-3	N 76°03'50" W	2,244.56'
TIE-4	N 80°23'42" E	528.10'

CENTERLINE PROPOSED LEASE ROAD		
LINE	BEARING	DISTANCE
L1	S 49°50'26" W	246.85'
L2	S 49°50'26" W	134.02'
L3	S 00°00'35" W	464.93'
L4	S 89°53'57" W	50.06'
L5	N 89°57'36" W	50.00'

07/20/2023 08/07/2023
DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

1 12/11/2024 ERR
REV. DATE BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

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

DECEMBER 18, 2024



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS01
SHEET 1 OF 3



SITE PLAN

SNDDNS_24S31E_7_2
SEC. 7 TWP. 24-S RGE. 31-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY
RECLAMATION
30' TOP SOIL
20' DISTURBANCE AREA

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

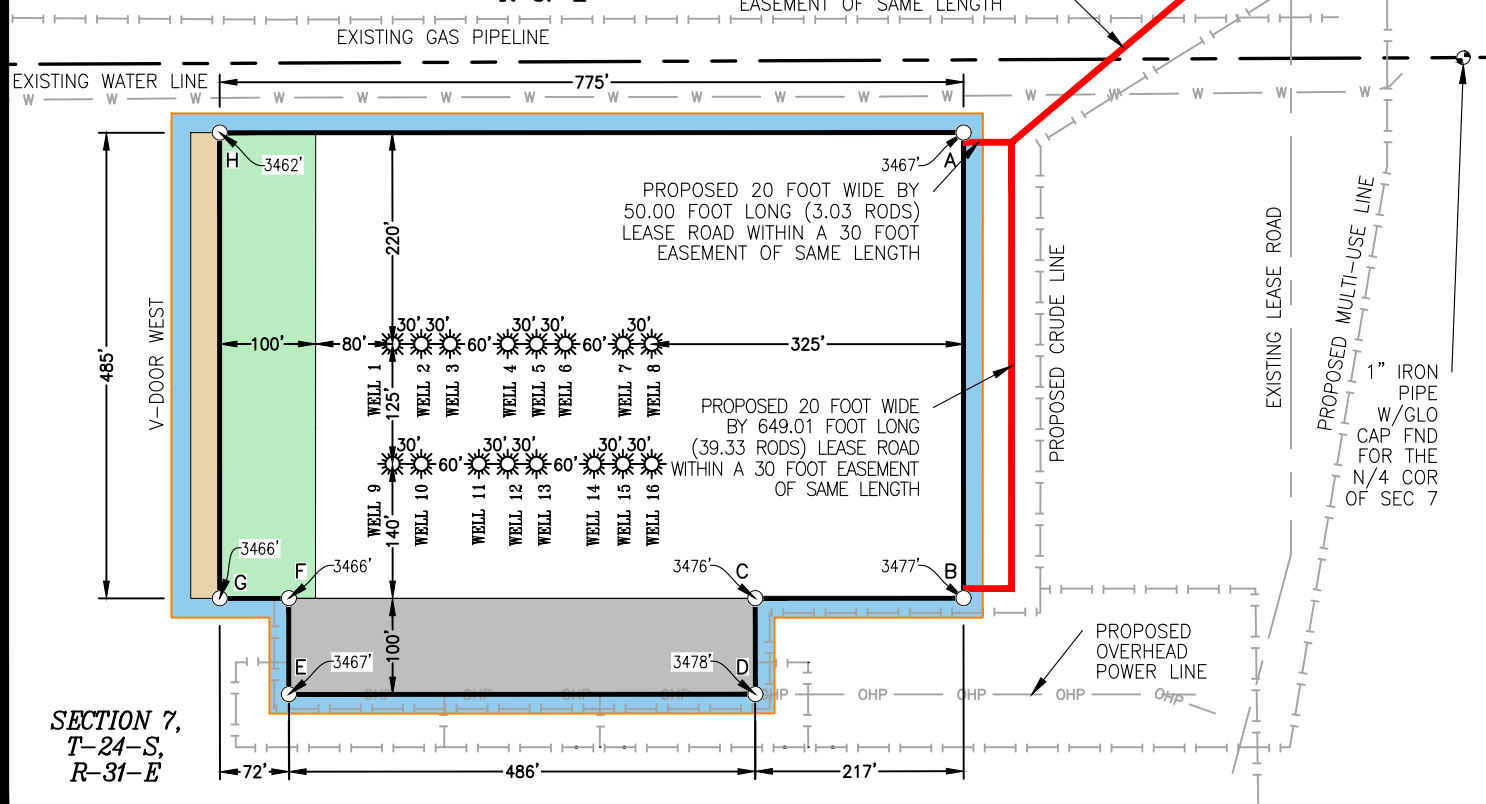


NAD 83		
A	E:(X)700480.97 N:(Y)451029.61	LAT:32.23890798 LON:-103.81861140
B	E:(X)700480.88 N:(Y)450544.57	LAT:32.23757472 LON:-103.81861923
C	E:(X)700263.94 N:(Y)450544.55	LAT:32.23757751 LON:-103.81932083
D	E:(X)700264.01 N:(Y)450444.69	LAT:32.23730304 LON:-103.81932217
E	E:(X)699777.97 N:(Y)450444.48	LAT:32.23730882 LON:-103.82089410
F	E:(X)699777.94 N:(Y)450544.49	LAT:32.23758375 LON:-103.82089265
G	E:(X)699705.93 N:(Y)450544.48	LAT:32.23758467 LON:-103.82112555
H	E:(X)699706.00 N:(Y)451029.51	LAT:32.23891790 LON:-103.82111782

SECTION 6,
T-24-S,
R-31-E

PROPOSED 20 FOOT WIDE BY
246.85 FOOT LONG (14.96 RODS)
LEASE ROAD WITHIN A 30 FOOT
EASEMENT OF SAME LENGTH

NAD 27		
A	E:(X)659297.09 N:(Y)450970.57	LAT:32.23878486 LON:-103.81812631
B	E:(X)659296.98 N:(Y)450485.54	LAT:32.23745157 LON:-103.81813418
C	E:(X)659080.04 N:(Y)450485.52	LAT:32.23745437 LON:-103.81883578
D	E:(X)659080.11 N:(Y)450385.67	LAT:32.23717988 LON:-103.81883711
E	E:(X)658594.07 N:(Y)450385.46	LAT:32.23718569 LON:-103.82040901
F	E:(X)658594.05 N:(Y)450485.46	LAT:32.23746060 LON:-103.82040755
G	E:(X)658522.04 N:(Y)450485.45	LAT:32.23746152 LON:-103.82064043
H	E:(X)658522.12 N:(Y)450970.47	LAT:32.23879477 LON:-103.82063267



07/20/2023	08/07/2023
DATE SURVEYED	DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

1	12/11/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833.)

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

DECEMBER 18, 2024



PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0029_JS01
SHEET 2 OF 3



SITE PLAN

SNDDNS_24S31E_7_2

SEC. 7 TWP. 24-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

FAA PERMIT NEEDED: NO

**WELL 1**JEFF SMITH MDP1 7_18 FED COM 31H
OXY USA, INC.

293' FNL 1,582' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699886.04' / Y:450809.50'
 LAT:32.23831078N / LON:103.82053893W
NAD 27, SPCS NM EAST
 X:658702.15' / Y:450750.47'
 LAT:32.23818764N / LON:103.82005382W
 ELEVATION = 3467'

WELL 2JEFF SMITH MDP1 7_18 FED COM 32H
OXY USA, INC.

293' FNL 1,612' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699915.98' / Y:450809.51'
 LAT:32.23831042N / LON:103.82044210W
NAD 27, SPCS NM EAST
 X:658732.09' / Y:450750.48'
 LAT:32.23818728N / LON:103.81995699W
 ELEVATION = 3467'

WELL 3JEFF SMITH MDP1 7_18 FED COM 33H
OXY USA, INC.

293' FNL 1,642' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699946.00' / Y:450809.50'
 LAT:32.23830999N / LON:103.82034501W
NAD 27, SPCS NM EAST
 X:658762.11' / Y:450750.47'
 LAT:32.23818685N / LON:103.81985990W
 ELEVATION = 3468'

WELL 4JEFF SMITH MDP1 7_18 FED COM 41H
OXY USA, INC.

294' FNL 1,702' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700005.96' / Y:450809.54'
 LAT:32.23830932N / LON:103.82015109W
NAD 27, SPCS NM EAST
 X:658822.07' / Y:450750.51'
 LAT:32.23818618N / LON:103.81966598W
 ELEVATION = 3469'

WELL 5JEFF SMITH MDP1 7_18 FED COM 47H
OXY USA, INC.

294' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700035.95' / Y:450809.48'
 LAT:32.23830876N / LON:103.82054101W
NAD 27, SPCS NM EAST
 X:658852.06' / Y:450750.45'
 LAT:32.23818562N / LON:103.81956899W
 ELEVATION = 3469'

WELL 6JEFF SMITH MDP1 7_18 FED COM 42H
OXY USA, INC.

294' FNL 1,762' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700066.08' / Y:450809.50'
 LAT:32.23796682N / LON:103.81995665W
NAD 27, SPCS NM EAST
 X:658882.20' / Y:450750.47'
 LAT:32.23818528N / LON:103.81947154W
 ELEVATION = 3469'

WELL 7JEFF SMITH MDP1 7_18 FED COM 11H
OXY USA, INC.

294' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700126.10' / Y:450809.43'
 LAT:32.23830744N / LON:103.81976254W
NAD 27, SPCS NM EAST
 X:658942.21' / Y:450750.40'
 LAT:32.23818429N / LON:103.81927744W
 ELEVATION = 3470'

WELL 8JEFF SMITH MDP1 7_18 FED COM 12H
OXY USA, INC.

294' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700156.01' / Y:450809.58'
 LAT:32.23830746N / LON:103.81966580W
NAD 27, SPCS NM EAST
 X:658972.12' / Y:450750.55'
 LAT:32.23818431N / LON:103.81918070W
 ELEVATION = 3470'

WELL 9NUGGET 6_31 FED COM 11H
OXY USA, INC.

418' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699885.94' / Y:450684.56'
 LAT:32.23796735N / LON:103.82054119W
NAD 27, SPCS NM EAST
 X:658702.05' / Y:450625.53'
 LAT:32.23784421N / LON:103.82005608W
 ELEVATION = 3467'

WELL 10NUGGET 6_31 FED COM 12H
OXY USA, INC.

418' FNL 1,792' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699915.99' / Y:450684.51'
 LAT:32.23796682N / LON:103.82044400W
NAD 27, SPCS NM EAST
 X:658732.10' / Y:450625.47'
 LAT:32.23784368N / LON:103.81995891W
 ELEVATION = 3468'

WELL 11NUGGET 6_31 FED COM 21H
OXY USA, INC.

418' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:699975.94' / Y:450684.47'
 LAT:32.23796592N / LON:103.82025011W
NAD 27, SPCS NM EAST
 X:658792.05' / Y:450625.44'
 LAT:32.23784278N / LON:103.81976502W
 ELEVATION = 3470'

WELL 12NUGGET 6_31 FED COM 22H
OXY USA, INC.

419' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700005.99' / Y:450684.49'
 LAT:32.23796558N / LON:103.82015292W
NAD 27, SPCS NM EAST
 X:658822.10' / Y:450625.49'
 LAT:32.23784244N / LON:103.81966784W
 ELEVATION = 3471'

WELL 13NUGGET 6_31 FED COM 23H
OXY USA, INC.

419' FNL 1,732' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700036.01' / Y:450684.53'
 LAT:32.23796530N / LON:103.82005583W
NAD 27, SPCS NM EAST
 X:658852.12' / Y:450625.50'
 LAT:32.23784216N / LON:103.81957075W
 ELEVATION = 3472'

WELL 14NUGGET 6_31 FED COM 43H
OXY USA, INC.

419' FNL 1,792' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700095.99' / Y:450684.50'
 LAT:32.23796443N / LON:103.81986185W
NAD 27, SPCS NM EAST
 X:658912.10' / Y:450625.47'
 LAT:32.23784128N / LON:103.81937676W
 ELEVATION = 3472'

WELL 15NUGGET 6_31 FED COM 48H
OXY USA, INC.

419' FNL 1,822' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700125.96' / Y:450684.54'
 LAT:32.23796414N / LON:103.81976492W
NAD 27, SPCS NM EAST
 X:658942.07' / Y:450625.51'
 LAT:32.23784100N / LON:103.81927984W
 ELEVATION = 3473'

WELL 16NUGGET 6_31 FED COM 44H
OXY USA, INC.

419' FNL 1,852' FWL, SECTION 7
NAD 83, SPCS NM EAST
 X:700156.00' / Y:450684.52'
 LAT:32.23796369N / LON:103.81966776W
NAD 27, SPCS NM EAST
 X:658972.11' / Y:450625.49'
 LAT:32.23784055N / LON:103.81918269W
 ELEVATION = 3472'

07/20/2023 08/07/2023

DATE SURVEYED DATE DRAWN

I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653 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.

1	12/11/2024	ERR
REV.	DATE	BY

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 0.99977581 AND A CONVERGENCE ANGLE OF 0.27195833°.)

LEGEND

	EXISTING ROAD		OHP	OVERHEAD POWER
	PROPOSED ROAD		FENCE	FENCE
	SURFACE SITE EDGE		SECTION LINE	SECTION LINE
	EXIST. PIPELINE		PROPERTY LINE	PROPERTY LINE
			WATER LINE	WATER LINE
			SWD	SALT WATER LINE
	MONUMENT		QUARTER SPLIT	

DECEMBER 18, 2024



PREPARED BY:
 DELTA FIELD SERVICES, LLC
 510 TRENTON ST.
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. OXY_0029_JS01
 SHEET 3 OF 3

Oxy USA Inc. - NUGGET 6_31 FED COM 23H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	8794	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	18836	Deepest Expected Fresh Water (ft):	562

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	562	562	
Salado	940	940	Salt
Marker Bed 126	2000	2000	Salt
Castile	2807	2807	Salt
Delaware	4197	4197	Oil/Gas/Brine
Bell Canyon	4229	4229	Oil/Gas/Brine
Cherry Canyon	5122	5122	Oil/Gas/Brine
Brushy Canyon	6389	6385	Losses
Bone Spring	8082	8053	Oil/Gas
Bone Spring 1st			Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	14.75	0	880	0	880	10.75	45.5	J-55	BTC
Intermediate	9.875	0	8192	0	8160	7.625	26.4	L-80 HC	BTC
Production	6.75	0	18836	0	8794	5.5	20	P-110	DWC/C-HT-IS

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

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.00	1.100	1.4	1.4

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	736	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	208	1.68	13.2	5%	6,639	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1024	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	631	1.84	13.3	25%	7,692	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	8160
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	8794
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				

*Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.
	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing (intermediate and production) requirements as per the agreement reached in the OXY/BLM meeting on April 4th, 2025. Please see BOP Break Testing Variance attachment for further details.

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

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	880	0	880	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	880	8192	880	8160	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	8192	18836	8160	8794	Water-Based or Oil-Based Mud	8.0 - 9.6	38-50	N/C

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

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

6. Logging and Testing Procedures

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4390 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	151°F

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other facets of operation

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

Total Estimated Cuttings Volume: 1350 bbls

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Nugget 6_31

Nugget 6_31 Fed Com 23H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

09 May, 2025

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3497.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3497.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 23H	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	Nugget 6_31		
Site Position:		Northing:	450,899.01 usft
From:	Map	Easting:	698,758.94 usft
Position Uncertainty:	0.89 ft	Slot Radius:	13.200 in
		Latitude:	32.238572
		Longitude:	-103.824183

Well	Nugget 6_31 Fed Com 23H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.27 °		Ground Level:
			3,472.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	4/2/2024	6.37	59.78	47,402.10000000

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 (°)
	2.00	0.00	0.00	2.34

Plan Survey Tool Program	Date	5/9/2025		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,835.77	Permitting Plan (Wellbore #1)	B005Mc_MWD+HRGM+SA
				MWD+HRGM+Sag+MSA

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,497.00	0.00	0.00	5,497.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,496.91	10.00	71.52	6,491.84	27.58	82.54	1.00	1.00	0.00	71.52	
8,291.94	10.00	71.52	8,259.61	126.35	378.15	0.00	0.00	0.00	0.00	
9,160.80	90.00	359.76	8,794.00	698.84	465.20	10.00	9.21	-8.26	-72.03	
18,835.80	90.00	359.76	8,794.00	10,373.75	423.91	0.00	0.00	0.00	0.00	PBHL (Nugget 6_31)

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3497.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3497.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 23H	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 Nugget 6_31 Fed Com 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3497.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3497.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 23H	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)
5,497.00	0.00	0.00	5,497.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100'									
5,500.00	0.03	71.52	5,500.00	0.00	0.00	0.00	1.00	1.00	0.00
5,600.00	1.03	71.52	5,599.99	0.29	0.88	0.33	1.00	1.00	0.00
5,700.00	2.03	71.52	5,699.96	1.14	3.41	1.28	1.00	1.00	0.00
5,800.00	3.03	71.52	5,799.86	2.54	7.60	2.85	1.00	1.00	0.00
5,900.00	4.03	71.52	5,899.67	4.49	13.44	5.03	1.00	1.00	0.00
6,000.00	5.03	71.52	5,999.35	6.99	20.93	7.84	1.00	1.00	0.00
6,100.00	6.03	71.52	6,098.89	10.05	30.07	11.27	1.00	1.00	0.00
6,200.00	7.03	71.52	6,198.24	13.65	40.85	15.31	1.00	1.00	0.00
6,300.00	8.03	71.52	6,297.37	17.80	53.28	19.96	1.00	1.00	0.00
6,400.00	9.03	71.52	6,396.27	22.50	67.35	25.24	1.00	1.00	0.00
6,496.91	10.00	71.52	6,491.84	27.58	82.54	30.93	1.00	1.00	0.00
Hold 10° Tangent									
6,500.00	10.00	71.52	6,494.89	27.75	83.05	31.12	0.00	0.00	0.00
6,600.00	10.00	71.52	6,593.37	33.25	99.52	37.29	0.00	0.00	0.00
6,700.00	10.00	71.52	6,691.85	38.76	115.99	43.46	0.00	0.00	0.00
6,800.00	10.00	71.52	6,790.33	44.26	132.46	49.63	0.00	0.00	0.00
6,900.00	10.00	71.52	6,888.81	49.76	148.93	55.80	0.00	0.00	0.00
7,000.00	10.00	71.52	6,987.29	55.26	165.39	61.97	0.00	0.00	0.00
7,100.00	10.00	71.52	7,085.77	60.77	181.86	68.14	0.00	0.00	0.00
7,200.00	10.00	71.52	7,184.25	66.27	198.33	74.31	0.00	0.00	0.00
7,300.00	10.00	71.52	7,282.73	71.77	214.80	80.48	0.00	0.00	0.00
7,400.00	10.00	71.52	7,381.21	77.27	231.27	86.65	0.00	0.00	0.00
7,500.00	10.00	71.52	7,479.70	82.78	247.74	92.82	0.00	0.00	0.00
7,600.00	10.00	71.52	7,578.18	88.28	264.20	98.99	0.00	0.00	0.00
7,700.00	10.00	71.52	7,676.66	93.78	280.67	105.16	0.00	0.00	0.00
7,800.00	10.00	71.52	7,775.14	99.28	297.14	111.33	0.00	0.00	0.00
7,900.00	10.00	71.52	7,873.62	104.79	313.61	117.50	0.00	0.00	0.00
8,000.00	10.00	71.52	7,972.10	110.29	330.08	123.67	0.00	0.00	0.00
8,100.00	10.00	71.52	8,070.58	115.79	346.54	129.85	0.00	0.00	0.00
8,200.00	10.00	71.52	8,169.06	121.30	363.01	136.02	0.00	0.00	0.00
8,291.94	10.00	71.52	8,259.61	126.35	378.15	141.69	0.00	0.00	0.00
KOP, Build & Turn 10°/100'									
8,300.00	10.28	67.22	8,267.54	126.85	379.48	142.24	10.00	3.44	-53.37
8,400.00	16.80	33.43	8,364.85	142.41	395.71	158.45	10.00	6.53	-33.79
8,500.00	25.64	20.18	8,458.03	174.86	411.18	191.50	10.00	8.83	-13.26
8,600.00	35.07	13.55	8,544.25	223.22	425.41	240.40	10.00	9.44	-6.62
8,700.00	44.73	9.49	8,620.89	286.02	437.97	303.66	10.00	9.66	-4.07
8,800.00	54.49	6.62	8,685.61	361.34	448.49	379.35	10.00	9.76	-2.87
8,870.78	61.43	4.99	8,723.14	421.00	454.52	439.21	10.00	9.81	-2.30
PPP-1 Cross									
8,900.00	64.30	4.38	8,736.46	446.92	456.64	465.19	10.00	9.83	-2.09
9,000.00	74.15	2.48	8,771.89	540.13	462.18	558.55	10.00	9.84	-1.90
9,100.00	84.00	0.76	8,790.82	638.15	464.93	656.60	10.00	9.86	-1.72
9,160.80	90.00	359.76	8,794.00	698.84	465.20	717.25	10.00	9.86	-1.66
Landing Point									
9,200.00	90.00	359.76	8,794.00	738.04	465.03	756.41	0.00	0.00	0.00
9,300.00	90.00	359.76	8,794.00	838.04	464.61	856.31	0.00	0.00	0.00
9,400.00	90.00	359.76	8,794.00	938.04	464.18	956.21	0.00	0.00	0.00
9,500.00	90.00	359.76	8,794.00	1,038.04	463.75	1,056.11	0.00	0.00	0.00
9,600.00	90.00	359.76	8,794.00	1,138.04	463.33	1,156.01	0.00	0.00	0.00
9,700.00	90.00	359.76	8,794.00	1,238.04	462.90	1,255.90	0.00	0.00	0.00
9,800.00	90.00	359.76	8,794.00	1,338.04	462.47	1,355.80	0.00	0.00	0.00
9,900.00	90.00	359.76	8,794.00	1,438.03	462.05	1,455.70	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3497.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3497.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 23H	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)
10,000.00	90.00	359.76	8,794.00	1,538.03	461.62	1,555.60	0.00	0.00	0.00
10,100.00	90.00	359.76	8,794.00	1,638.03	461.19	1,655.50	0.00	0.00	0.00
10,200.00	90.00	359.76	8,794.00	1,738.03	460.77	1,755.40	0.00	0.00	0.00
10,300.00	90.00	359.76	8,794.00	1,838.03	460.34	1,855.29	0.00	0.00	0.00
10,400.00	90.00	359.76	8,794.00	1,938.03	459.91	1,955.19	0.00	0.00	0.00
10,500.00	90.00	359.76	8,794.00	2,038.03	459.48	2,055.09	0.00	0.00	0.00
10,600.00	90.00	359.76	8,794.00	2,138.03	459.06	2,154.99	0.00	0.00	0.00
10,700.00	90.00	359.76	8,794.00	2,238.03	458.63	2,254.89	0.00	0.00	0.00
10,800.00	90.00	359.76	8,794.00	2,338.03	458.20	2,354.79	0.00	0.00	0.00
10,900.00	90.00	359.76	8,794.00	2,438.03	457.78	2,454.68	0.00	0.00	0.00
11,000.00	90.00	359.76	8,794.00	2,538.02	457.35	2,554.58	0.00	0.00	0.00
11,100.00	90.00	359.76	8,794.00	2,638.02	456.92	2,654.48	0.00	0.00	0.00
11,200.00	90.00	359.76	8,794.00	2,738.02	456.50	2,754.38	0.00	0.00	0.00
11,300.00	90.00	359.76	8,794.00	2,838.02	456.07	2,854.28	0.00	0.00	0.00
11,400.00	90.00	359.76	8,794.00	2,938.02	455.64	2,954.17	0.00	0.00	0.00
11,500.00	90.00	359.76	8,794.00	3,038.02	455.22	3,054.07	0.00	0.00	0.00
11,600.00	90.00	359.76	8,794.00	3,138.02	454.79	3,153.97	0.00	0.00	0.00
11,700.00	90.00	359.76	8,794.00	3,238.02	454.36	3,253.87	0.00	0.00	0.00
11,800.00	90.00	359.76	8,794.00	3,338.02	453.94	3,353.77	0.00	0.00	0.00
11,900.00	90.00	359.76	8,794.00	3,438.02	453.51	3,453.67	0.00	0.00	0.00
12,000.00	90.00	359.76	8,794.00	3,538.02	453.08	3,553.56	0.00	0.00	0.00
12,100.00	90.00	359.76	8,794.00	3,638.01	452.66	3,653.46	0.00	0.00	0.00
12,200.00	90.00	359.76	8,794.00	3,738.01	452.23	3,753.36	0.00	0.00	0.00
12,300.00	90.00	359.76	8,794.00	3,838.01	451.80	3,853.26	0.00	0.00	0.00
12,400.00	90.00	359.76	8,794.00	3,938.01	451.38	3,953.16	0.00	0.00	0.00
12,500.00	90.00	359.76	8,794.00	4,038.01	450.95	4,053.06	0.00	0.00	0.00
12,600.00	90.00	359.76	8,794.00	4,138.01	450.52	4,152.95	0.00	0.00	0.00
12,700.00	90.00	359.76	8,794.00	4,238.01	450.09	4,252.85	0.00	0.00	0.00
12,800.00	90.00	359.76	8,794.00	4,338.01	449.67	4,352.75	0.00	0.00	0.00
12,900.00	90.00	359.76	8,794.00	4,438.01	449.24	4,452.65	0.00	0.00	0.00
13,000.00	90.00	359.76	8,794.00	4,538.01	448.81	4,552.55	0.00	0.00	0.00
13,100.00	90.00	359.76	8,794.00	4,638.01	448.39	4,652.45	0.00	0.00	0.00
13,200.00	90.00	359.76	8,794.00	4,738.00	447.96	4,752.34	0.00	0.00	0.00
13,300.00	90.00	359.76	8,794.00	4,838.00	447.53	4,852.24	0.00	0.00	0.00
13,400.00	90.00	359.76	8,794.00	4,938.00	447.11	4,952.14	0.00	0.00	0.00
13,500.00	90.00	359.76	8,794.00	5,038.00	446.68	5,052.04	0.00	0.00	0.00
13,600.00	90.00	359.76	8,794.00	5,138.00	446.25	5,151.94	0.00	0.00	0.00
13,700.00	90.00	359.76	8,794.00	5,238.00	445.83	5,251.84	0.00	0.00	0.00
13,800.00	90.00	359.76	8,794.00	5,338.00	445.40	5,351.73	0.00	0.00	0.00
13,900.00	90.00	359.76	8,794.00	5,438.00	444.97	5,451.63	0.00	0.00	0.00
14,000.00	90.00	359.76	8,794.00	5,538.00	444.55	5,551.53	0.00	0.00	0.00
14,100.00	90.00	359.76	8,794.00	5,638.00	444.12	5,651.43	0.00	0.00	0.00
14,172.00	90.00	359.76	8,794.00	5,710.00	443.81	5,723.36	0.00	0.00	0.00
PPP-2 Cross									
14,200.00	90.00	359.76	8,794.00	5,738.00	443.69	5,751.33	0.00	0.00	0.00
14,300.00	90.00	359.76	8,794.00	5,837.99	443.27	5,851.22	0.00	0.00	0.00
14,400.00	90.00	359.76	8,794.00	5,937.99	442.84	5,951.12	0.00	0.00	0.00
14,500.00	90.00	359.76	8,794.00	6,037.99	442.41	6,051.02	0.00	0.00	0.00
14,600.00	90.00	359.76	8,794.00	6,137.99	441.99	6,150.92	0.00	0.00	0.00
14,700.00	90.00	359.76	8,794.00	6,237.99	441.56	6,250.82	0.00	0.00	0.00
14,800.00	90.00	359.76	8,794.00	6,337.99	441.13	6,350.72	0.00	0.00	0.00
14,900.00	90.00	359.76	8,794.00	6,437.99	440.71	6,450.61	0.00	0.00	0.00
15,000.00	90.00	359.76	8,794.00	6,537.99	440.28	6,550.51	0.00	0.00	0.00
15,100.00	90.00	359.76	8,794.00	6,637.99	439.85	6,650.41	0.00	0.00	0.00
15,200.00	90.00	359.76	8,794.00	6,737.99	439.42	6,750.31	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3497.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3497.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 23H	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)
15,300.00	90.00	359.76	8,794.00	6,837.99	439.00	6,850.21	0.00	0.00	0.00
15,400.00	90.00	359.76	8,794.00	6,937.98	438.57	6,950.11	0.00	0.00	0.00
15,500.00	90.00	359.76	8,794.00	7,037.98	438.14	7,050.00	0.00	0.00	0.00
15,600.00	90.00	359.76	8,794.00	7,137.98	437.72	7,149.90	0.00	0.00	0.00
15,700.00	90.00	359.76	8,794.00	7,237.98	437.29	7,249.80	0.00	0.00	0.00
15,800.00	90.00	359.76	8,794.00	7,337.98	436.86	7,349.70	0.00	0.00	0.00
15,900.00	90.00	359.76	8,794.00	7,437.98	436.44	7,449.60	0.00	0.00	0.00
16,000.00	90.00	359.76	8,794.00	7,537.98	436.01	7,549.50	0.00	0.00	0.00
16,100.00	90.00	359.76	8,794.00	7,637.98	435.58	7,649.39	0.00	0.00	0.00
16,200.00	90.00	359.76	8,794.00	7,737.98	435.16	7,749.29	0.00	0.00	0.00
16,300.00	90.00	359.76	8,794.00	7,837.98	434.73	7,849.19	0.00	0.00	0.00
16,400.00	90.00	359.76	8,794.00	7,937.98	434.30	7,949.09	0.00	0.00	0.00
16,500.00	90.00	359.76	8,794.00	8,037.97	433.88	8,048.99	0.00	0.00	0.00
16,600.00	90.00	359.76	8,794.00	8,137.97	433.45	8,148.89	0.00	0.00	0.00
16,700.00	90.00	359.76	8,794.00	8,237.97	433.02	8,248.78	0.00	0.00	0.00
16,800.00	90.00	359.76	8,794.00	8,337.97	432.60	8,348.68	0.00	0.00	0.00
16,900.00	90.00	359.76	8,794.00	8,437.97	432.17	8,448.58	0.00	0.00	0.00
17,000.00	90.00	359.76	8,794.00	8,537.97	431.74	8,548.48	0.00	0.00	0.00
17,100.00	90.00	359.76	8,794.00	8,637.97	431.32	8,648.38	0.00	0.00	0.00
17,200.00	90.00	359.76	8,794.00	8,737.97	430.89	8,748.27	0.00	0.00	0.00
17,300.00	90.00	359.76	8,794.00	8,837.97	430.46	8,848.17	0.00	0.00	0.00
17,400.00	90.00	359.76	8,794.00	8,937.97	430.04	8,948.07	0.00	0.00	0.00
17,500.00	90.00	359.76	8,794.00	9,037.97	429.61	9,047.97	0.00	0.00	0.00
17,600.00	90.00	359.76	8,794.00	9,137.96	429.18	9,147.87	0.00	0.00	0.00
17,700.00	90.00	359.76	8,794.00	9,237.96	428.75	9,247.77	0.00	0.00	0.00
17,800.00	90.00	359.76	8,794.00	9,337.96	428.33	9,347.66	0.00	0.00	0.00
17,900.00	90.00	359.76	8,794.00	9,437.96	427.90	9,447.56	0.00	0.00	0.00
18,000.00	90.00	359.76	8,794.00	9,537.96	427.47	9,547.46	0.00	0.00	0.00
18,100.00	90.00	359.76	8,794.00	9,637.96	427.05	9,647.36	0.00	0.00	0.00
18,200.00	90.00	359.76	8,794.00	9,737.96	426.62	9,747.26	0.00	0.00	0.00
18,300.00	90.00	359.76	8,794.00	9,837.96	426.19	9,847.16	0.00	0.00	0.00
18,400.00	90.00	359.76	8,794.00	9,937.96	425.77	9,947.05	0.00	0.00	0.00
18,500.00	90.00	359.76	8,794.00	10,037.96	425.34	10,046.95	0.00	0.00	0.00
18,600.00	90.00	359.76	8,794.00	10,137.96	424.91	10,146.85	0.00	0.00	0.00
18,700.00	90.00	359.76	8,794.00	10,237.95	424.49	10,246.75	0.00	0.00	0.00
18,800.00	90.00	359.76	8,794.00	10,337.95	424.06	10,346.65	0.00	0.00	0.00
18,835.80	90.00	359.76	8,794.00	10,373.75	423.91	10,382.41	0.00	0.00	0.00
TD at 18835.80' MD									

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Nugget 6_31 Fed Com 23H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 3497.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 3497.00ft
Site:	Nugget 6_31	North Reference:	Grid
Well:	Nugget 6_31 Fed Com 23H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
KOP (Nugget 6_31	0.00	0.01	0.00	120.88	467.64	450,805.40	700,503.62	32.238291	-103.818542
- plan misses target center by 483.01ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL (Nugget 6_31	0.00	0.00	8,794.00	10,373.75	423.91	461,057.62	700,459.89	32.266473	-103.818524
- plan hits target center									
- Point									
FTP (Nugget 6_31 Fed	0.00	0.00	8,794.00	520.90	465.96	451,205.40	700,501.94	32.239391	-103.818541
- plan misses target center by 27.06ft at 8990.10ft MD (8769.10 TVD, 530.64 N, 461.75 E)									
- Point									

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
562.00	562.00	RUSTLER			
940.00	940.00	SALADO			
2,807.00	2,807.00	CASTILE			
4,197.00	4,197.00	DELAWARE			
4,229.00	4,229.00	BELL CANYON			
5,122.00	5,122.00	CHERRY CANYON			
6,388.59	6,385.00	BRUSHY CANYON			
8,082.15	8,053.00	BONE SPRING			

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
5,497.00	5,497.00	0.00	0.00	Build 1°/100'	
6,496.91	6,491.84	27.58	82.54	Hold 10° Tangent	
8,291.94	8,259.61	126.35	378.15	KOP, Build & Turn 10°/100'	
8,870.78	8,723.14	421.00	454.52	PPP-1 Cross	
9,160.80	8,794.00	698.84	465.20	Landing Point	
14,172.00	8,794.00	5,710.00	443.81	PPP-2 Cross	
18,835.80	8,794.00	10,373.75	423.91	TD at 18835.80' MD	



WELL PAD CONTOURS

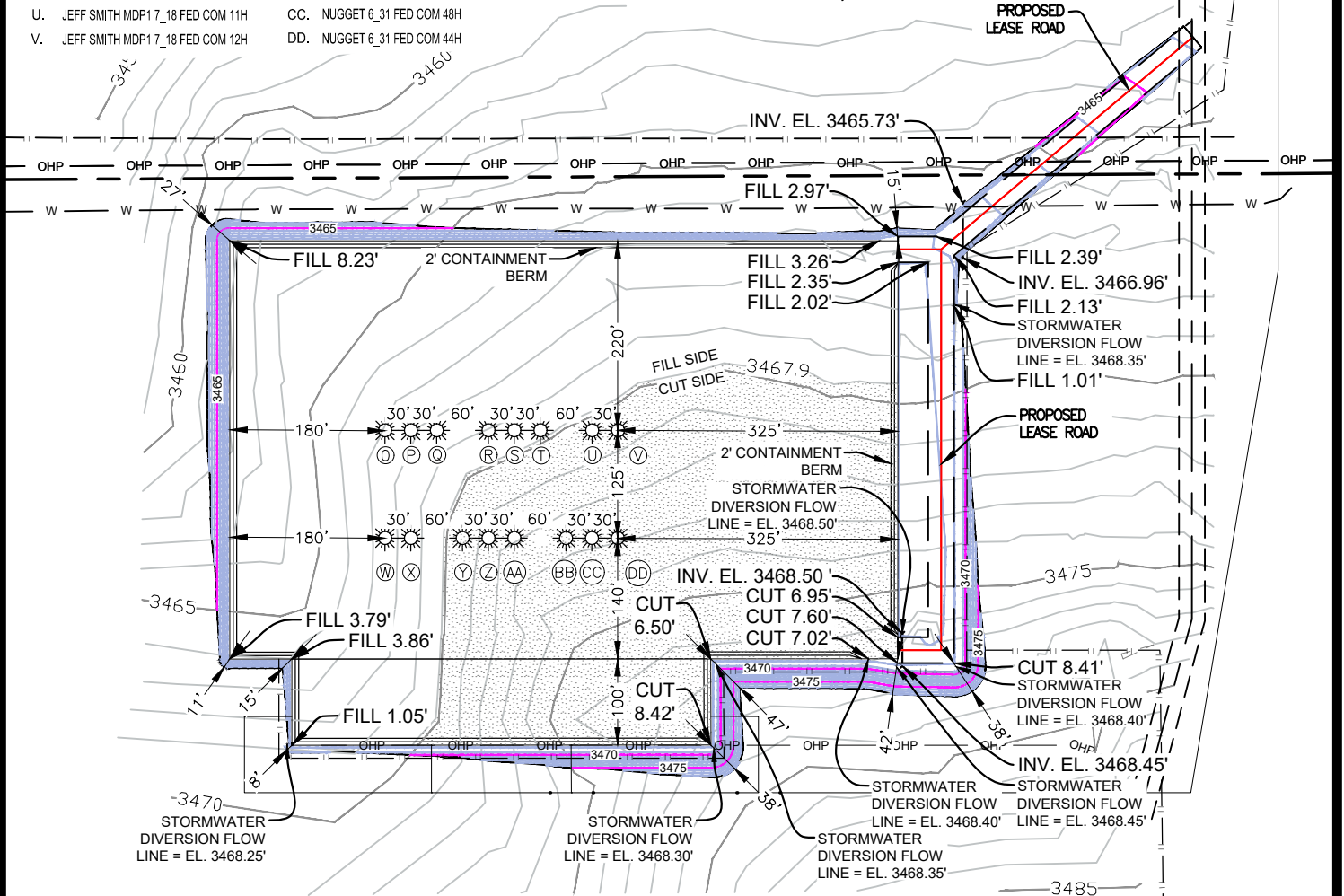
SNDDNS_24S31E_7_2
 SEC. 7 TWP. 24-S RGE. 31-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 OPERATOR: OXY USA, INC.
 U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
 FAA PERMIT NEEDED: NO

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



O. JEFF SMITH MDP1 7_18 FED COM 31H
 P. JEFF SMITH MDP1 7_18 FED COM 32H
 Q. JEFF SMITH MDP1 7_18 FED COM 33H
 R. JEFF SMITH MDP1 7_18 FED COM 41H
 S. JEFF SMITH MDP1 7_18 FED COM 47H
 T. JEFF SMITH MDP1 7_18 FED COM 42H
 U. JEFF SMITH MDP1 7_18 FED COM 11H
 V. JEFF SMITH MDP1 7_18 FED COM 12H
 W. NUGGET 6_31 FED COM 11H
 X. NUGGET 6_31 FED COM 12H
 Y. NUGGET 6_31 FED COM 21H
 Z. NUGGET 6_31 FED COM 22H
 AA. NUGGET 6_31 FED COM 23H
 BB. NUGGET 6_31 FED COM 43H
 CC. NUGGET 6_31 FED COM 48H
 DD. NUGGET 6_31 FED COM 44H

SECTION 6, T-24-S, R-31-E



TOTAL CUT VOLUME: 31,074.43 cu yd
 TOTAL FILL VOLUME: 31,092.76 cu yd
 PROPOSED SHORT-TERM
 DISTURBANCE AREA = 12.13 ACRES

SECTION 7, T-24-S, R-31-E

08/16/2023	08/10/2023	01/20/2025
DATE SURVEYED	DATE DRAWN	REV. 1

LEGEND			
	PROP. PAD SURFACE		PROP. 1' CTR. LINES
	PROPERTY LINE		PROP. 5' CTR. LINES
	PROP. LEASE ROAD		ECF
	EXIST. 1' CTR. LINES		EROSION CON. FENCE
	EXIST. 5' CTR. LINES		OVERHEAD POWER
			FENCE
			WATER LINE



PREPARED BY:
 DELTA FIELD SERVICES, LLC
 510 TRENTON ST.
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. OXY_0029_JS07
 SHEET 1 OF 2



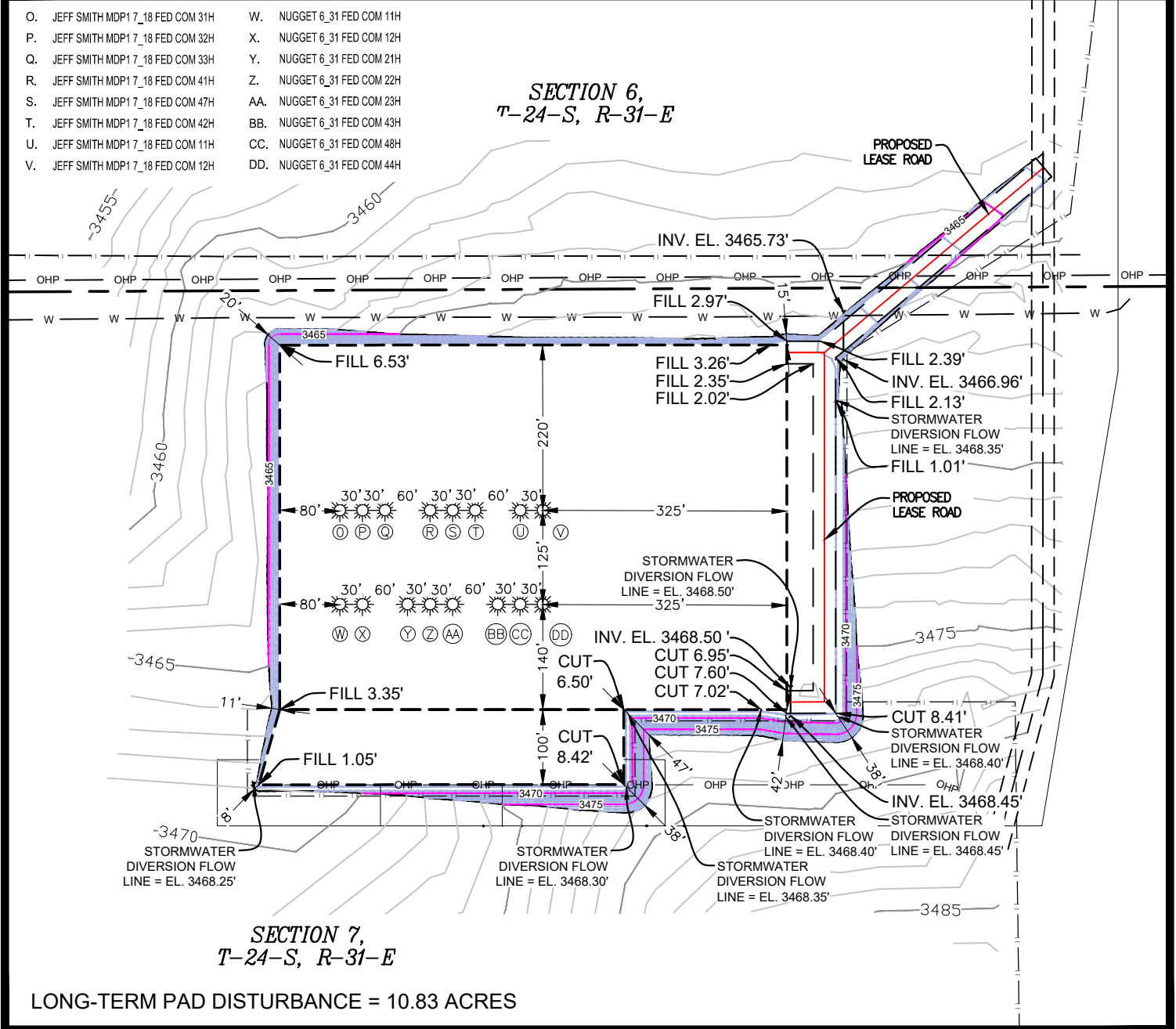
INTERIM RECLAMATION PLAT

SNDDNS_24S31E_7_2
 SEC. 7 TWP. 24-S RGE. 31-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 OPERATOR: OXY USA, INC.
 U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.
 FAA PERMIT NEEDED: NO

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



SECTION 6, T-24-S, R-31-E



07/20/2023	08/15/2023	01/20/2025
DATE SURVEYED	DATE DRAWN	REV. 1

LEGEND	
--- INTERIM RECLAMATION	--- PROP. 1' CTR. LINES
--- PROPERTY LINE	--- PROP. 5' CTR. LINES
--- PROP. LEASE ROAD	--- DISTURBANCE AREA BOUNDARY
--- EXIST. 1' CTR. LINES	--- OHP OVERHEAD POWER
--- EXIST. 5' CTR. LINES	--- FENCE
	--- WATER LINE



PREPARED BY:
 DELTA FIELD SERVICES, LLC
 510 TRENTON ST.
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. OXY_0029_JS07
 SHEET 2 OF 2



Oxy Blanket Design - Casing Design "A"



1. Casing Program

The designs and associated details listed in this document are the "worst case scenario" boundaries for design safety factors.

Location and lithology have NOT been accounted for in these designs; however, the designs are NOT valid for wells within KPLA Boundaries or Capitan Reef areas. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program listed below will remain the same between each design variation.

Hole will be full during casing run for well control and tensile SF.

Casing will be kept at least half full during run for these designs to meet BLM collapse SF requirement.

Design Variation "A1"

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	14.75	0	1200	0	1200	10.75	45.5	J-55	BTC
Intermediate	9.875	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT GBCD
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

*Curve could be in intermediate or production section

Design Variation "A2" - Option to Pivot to Design "B" for Contingency 4S

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	1200	0	1200	13.375	54.5	J-55	BTC
Intermediate	12.25+	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT GBCD
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

*Curve could be in intermediate or production section

†If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate at some point during the hole section. Cement volumes will be updated on C103 submission.

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



Oxy Blanket Design - Casing Design "A"



All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.00	1.100	1.4	1.4

§Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

§Annular Clearance Variance Request may not apply to all connections used or presented.

2. Trajectory / Boundary Conditions

Section	MD		TVD		Max. Angle	Max. Planned DLS
	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)		
Surface	0	1200	0	1200	5°	1°/100 ft
Intermediate	5000 (inside Cherry Canyon)	6500	4980	6390	20°	2°/100 ft
	12211	13111	12202	12775	92° ‡	12°/100 ft ‡
Production	12211 (~100' MD past ICP)	13111	12202	12775	92° ‡	12°/100 ft ‡

‡ Applies only when intermediate casing depth is deepened to landing point to match TVD of production in some areas where required to accommodate higher MWs in depleted areas.

Oxy has reviewed casing burst, collapse, and axial loadcases in Landmark StressCheck with the boundary conditions in the table above which satisfies Oxy and BLM minimum design criteria. Triaxial plots for each casing string is shown in Section 7 and intermediate load case inputs are shown in Section 8.



Oxy Blanket Design - Casing Design "A"



3. Cementing Program

NOTE: Blanket design is for technical review only. The cement volumes will be adjusted to ensure cement tops meet BLM requirements.

Design Variation "A1"

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	819	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1111	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

*Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

Design Variation "A2"

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	1023	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1293	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

*Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

As Reviewed and Approved by BLM on Feb 8, 2024: Oxy uses a Class C / Pozzolan mix on its production cement slurry, which has the same fluid properties as Class H, and has been pilot and field blend tested to have as good or better compressive strength development at our target densities.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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



Oxy Blanket Design - Casing Design "A"



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	12775**
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	100% of working pressure	12775
		10M	Blind Ram		✓	250 psi / 10000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				

*Specify if additional ram is utilized

**Curve could be in intermediate or production section

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

5M Annular BOP Request

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



Oxy Blanket Design - Casing Design "A"



Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Coflex hoses are in compliance with API 16C and meets inspection and testing requirements. See attached for specs and hydrostatic test chart.

Y

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached Schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Hammer Union Variance

Oxy requests permission for hammer unions behind the choke to be routed to the gas buster. The hammer unions will not be subject to wellbore pressure in compliance with API STD 53.

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



Oxy Blanket Design - Casing Design "A"



5. Mud Program & Drilling Conditions

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil-Based Mud	9.5 - 13.5	38-50	N/C

Curve could be in intermediate or production section

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.

Drilling Blind Request

In the event total losses are encountered in the intermediate section, Oxy requests permission to drill blind due to depleted formations where risk of hydrocarbon kicks are unlikely.

- Oxy will first attempt to cure losses before proceeding with drilling blind
- Drilling blind will only be allowed in the Castille and formations below
- While drilling blind, will monitor backside by filling-up on connections and utilize gas monitors
- Depths at which losses occurred and attempt to cure losses with relevant details (LCM sweep info, etc.) will be documented in the drillers log and Subsequent Reports to the BLM.
- If a well control event (hydrocarbon kick) occurs while drilling blind, the BLM will be notified after the well is secured and returned to static.

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

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

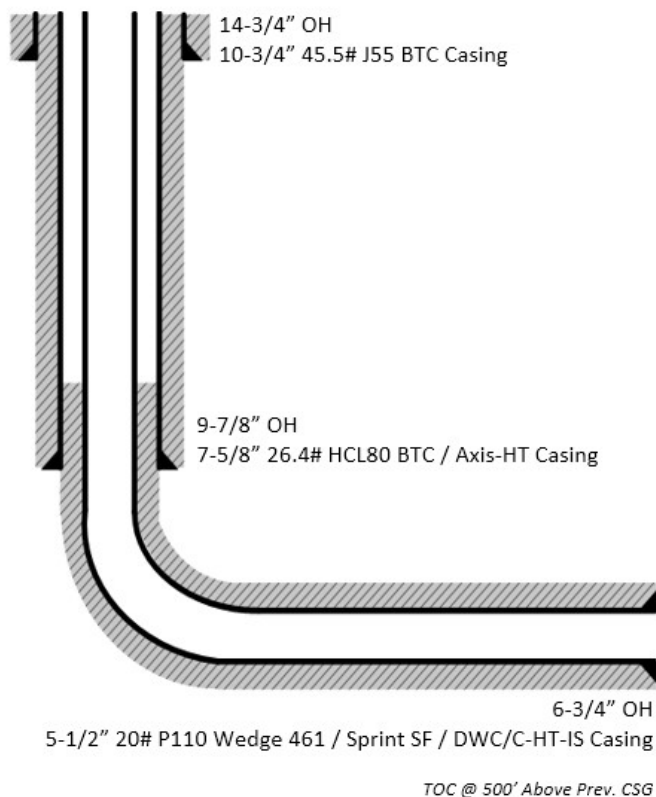


Oxy Blanket Design - Casing Design "A"

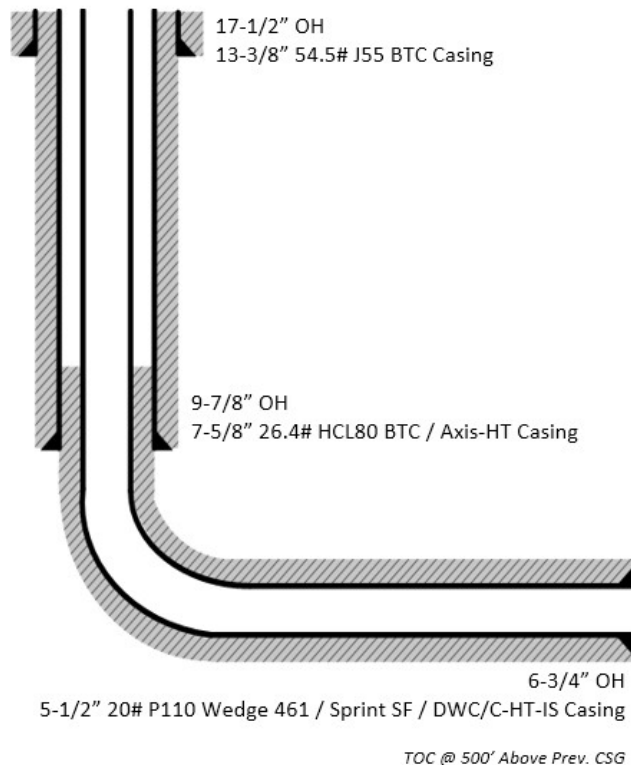


6. Wellbore Diagram(s)

Design Variation "A1"



Design Variation "A2"

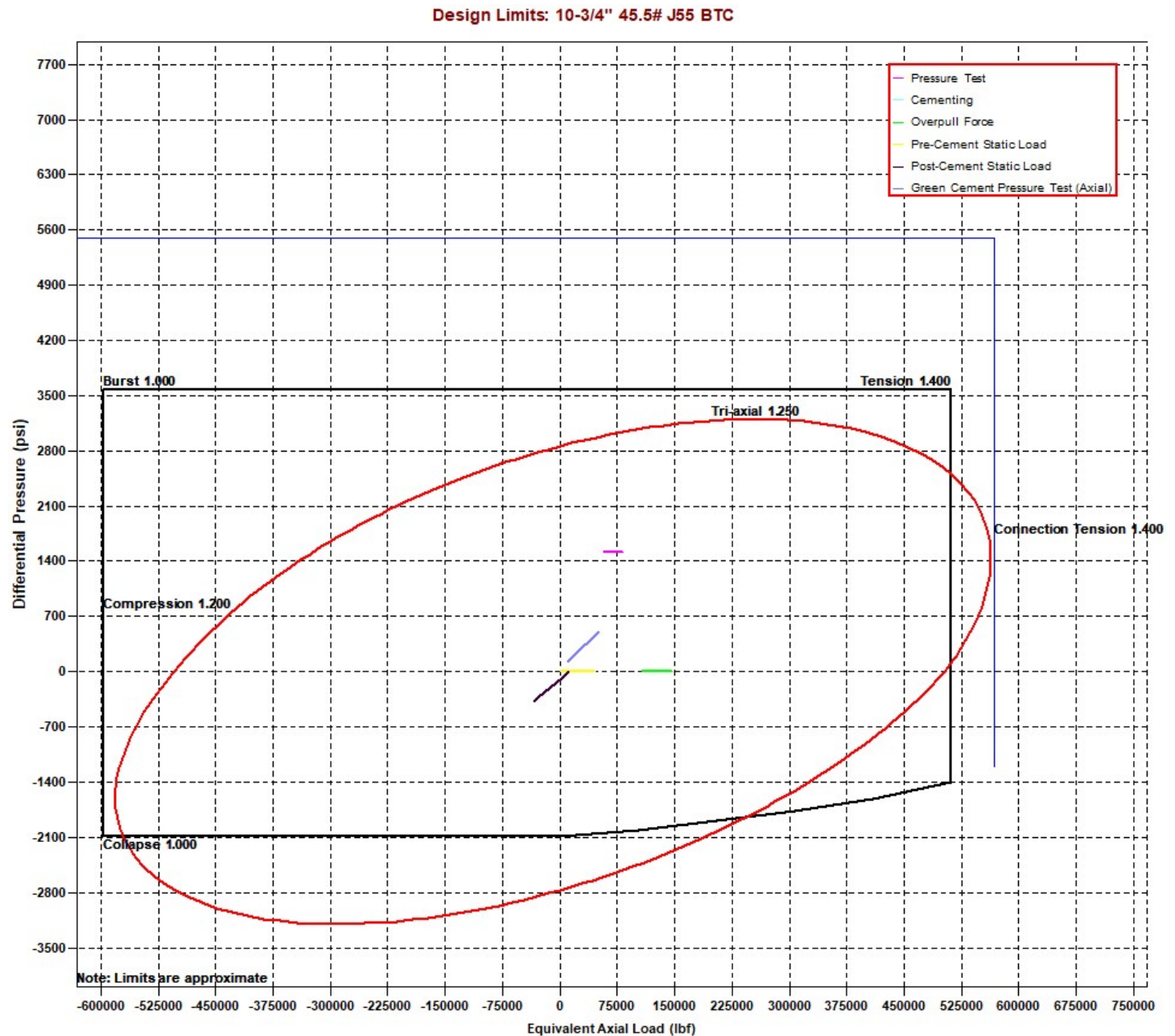




Oxy Blanket Design - Casing Design "A"

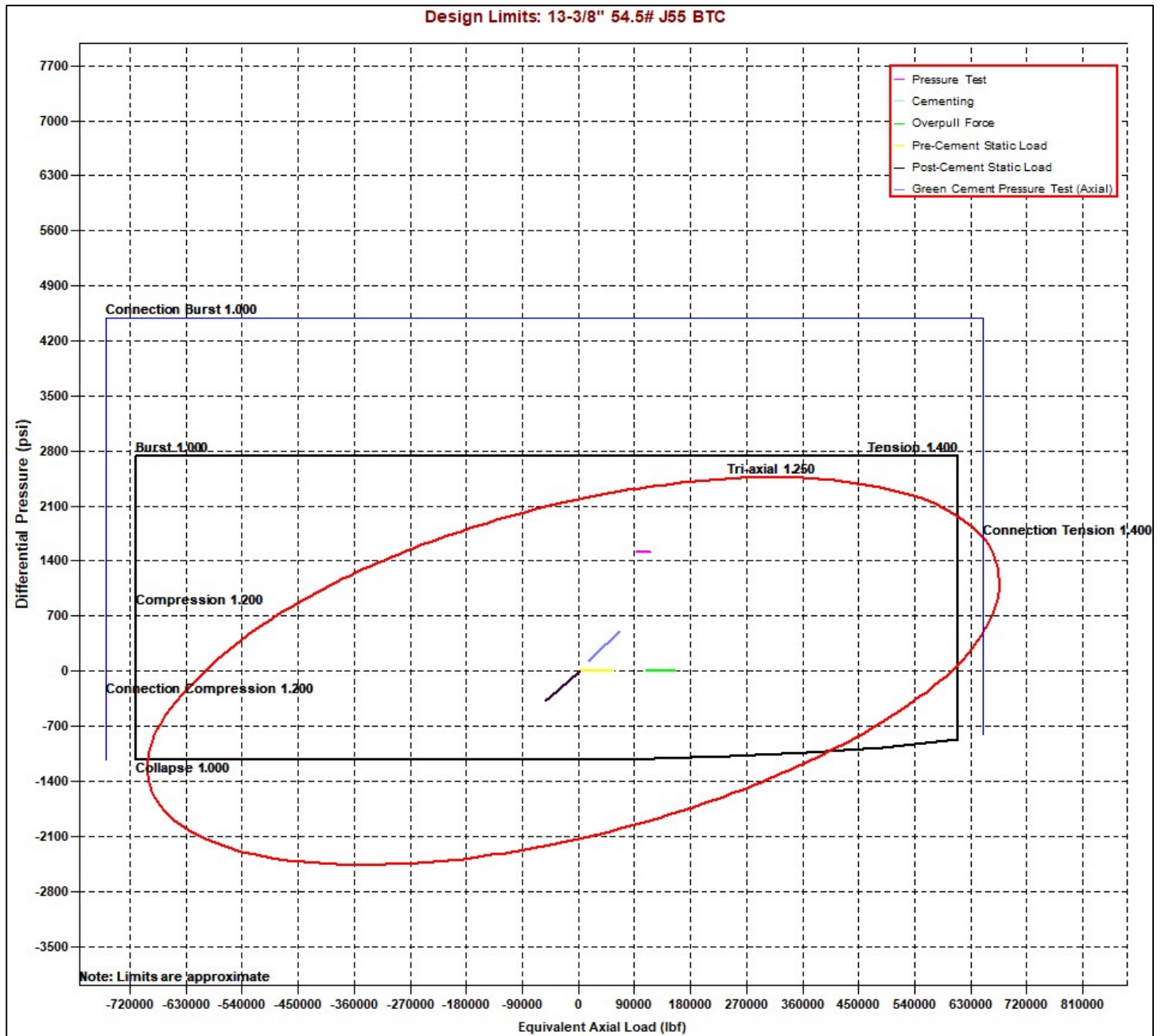


7. Landmark StressCheck Screenshots – Triaxial Output





Oxy Blanket Design - Casing Design "A"

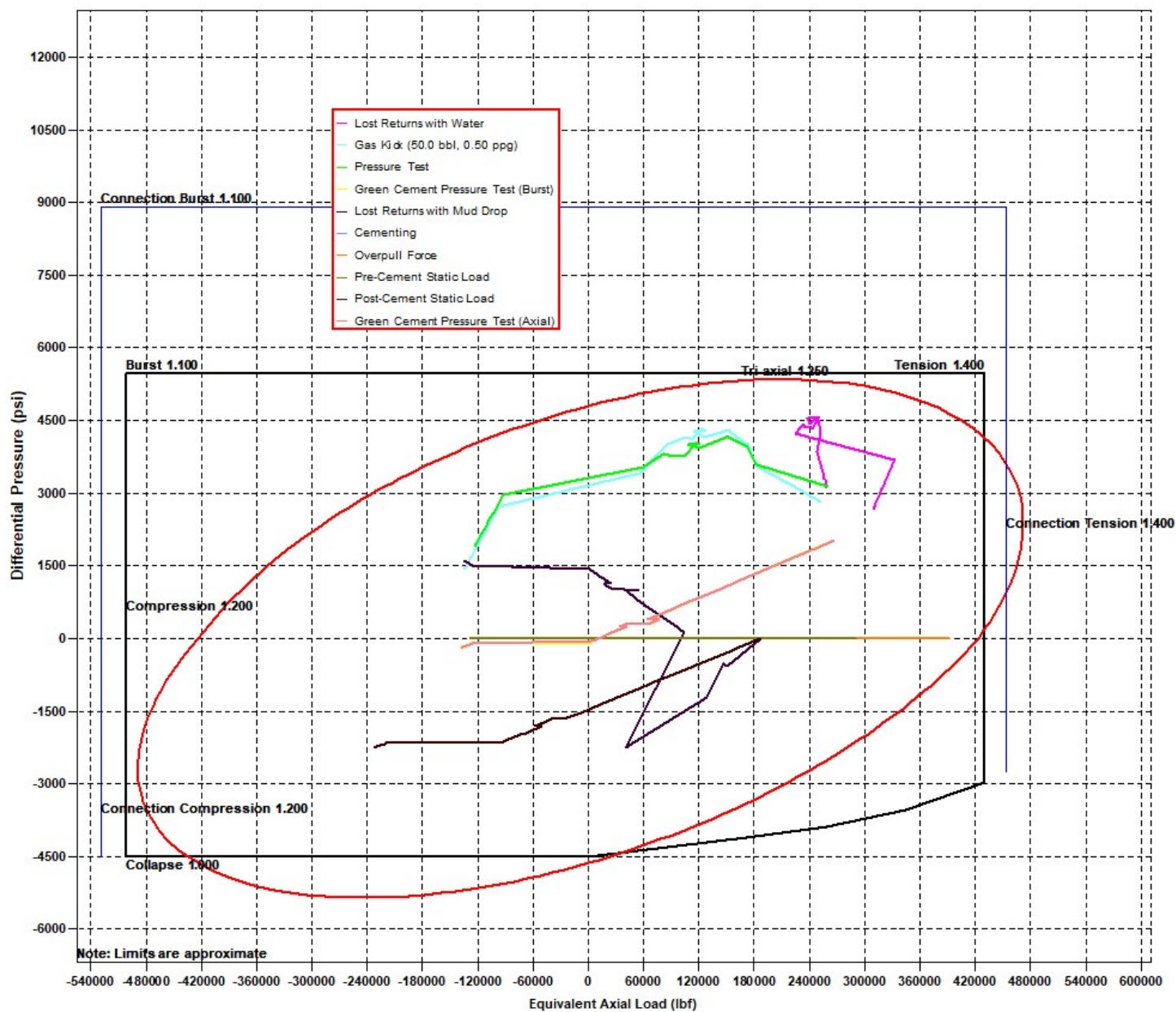




Oxy Blanket Design - Casing Design "A"



Design Limits: 7-5/8" 26.4# HC-L80 BTC

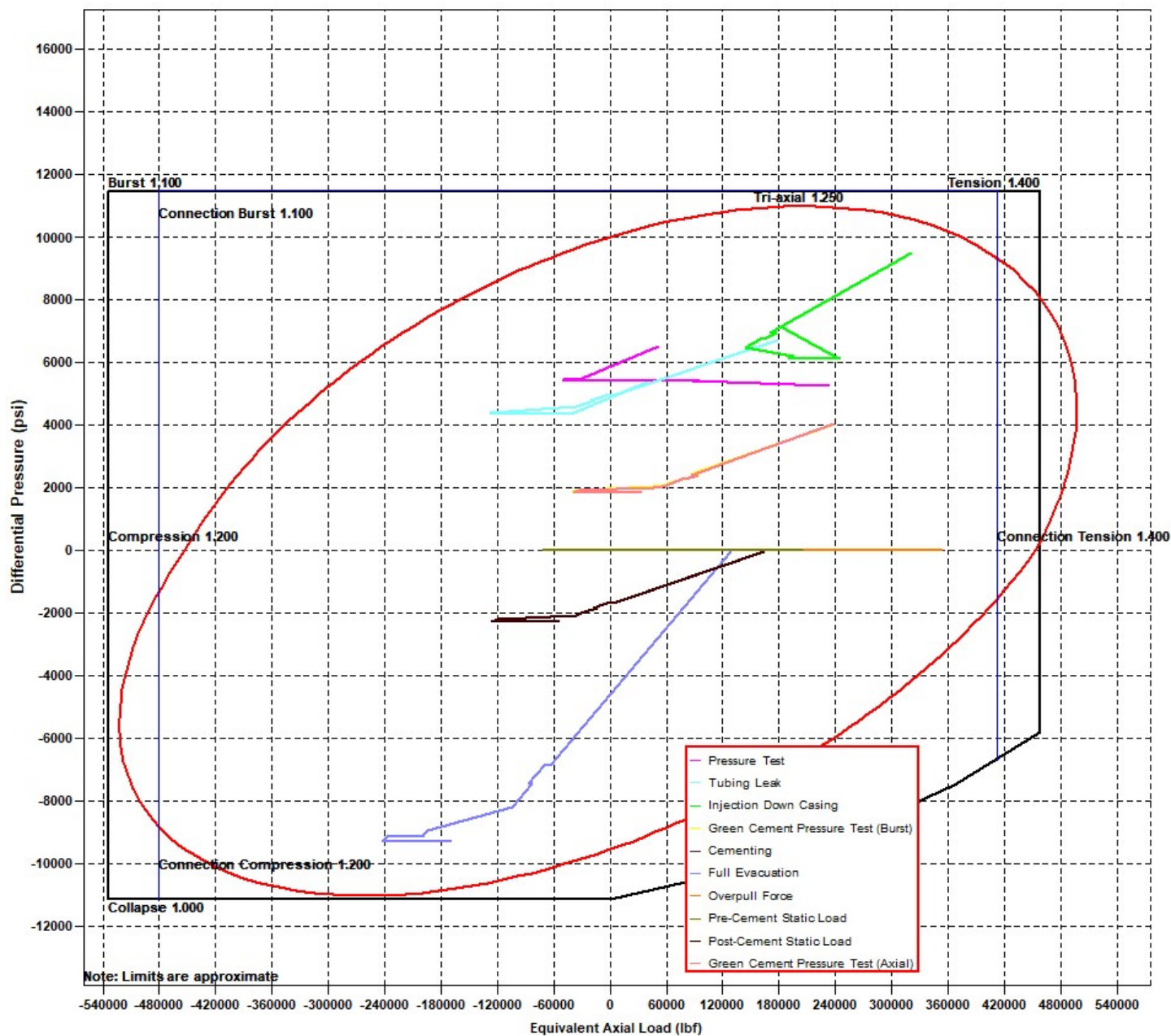




Oxy Blanket Design - Casing Design "A"



Design Limits: 5-1/2" 20# P110 Sprint SF





Oxy Blanket Design - Casing Design "A"



8. Landmark StressCheck Screenshots – Inputs for Intermediate CSG Load Cases

Burst Load Cases

General		7 5/8" Intermediate Casing
Burst Loads Data		
Drilling Load:	Lost Returns with Water	
Fracture at Shoe (MD= 13111.00 ft):	10591 psi	
Mud/Water Interface, MD:	0.00 ft	
Mud Weight	11.28 ppg	
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	
Drilling Load:	Gas Kick Profile	
Influx Depth, MD:	23361.00 ft	
Kick Volume:	50.0 bbl	
Kick Intensity	0.50 ppg	
Maximum Mud Weight:	13.50 ppg	
Kick Gas Gravity:	0.55 (0.1159 psi/ft @ 182 °F & 9291 psi)	
Fracture at Shoe (MD= 13111.00 ft):	10591 psi	
Drill Pipe OD:	5.000 in	
Collar OD:	5.500 in	
Collar Length:	200.00 ft	
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	
Drilling Load:	Pressure Test	
Test Pressure:	3120 psi	
Mud Weight:	10.00 ppg	
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)	
Drilling Load:	Green Cement Pressure Test	
Test Pressure:	2000 psi	
Mud Weight at Shoe:	10.00 ppg	
TOC, MD:	25.00 ft	
Lead Slurry Density:	13.30 ppg	
Tail Slurry Density:	13.30 ppg	
Tail Slurry Length:	5906.00 ft	
Displacement Fluid Density:	10.00 ppg	
Float Collar Depth, MD:	12800.00 ft	
External Pressure:	Fluid Gradients (w/ Pore Pressure)	
TOC, MD:	25.00 ft	
Prior Shoe, MD:	1200.00 ft	
Mud Weight Above TOC:	10.00 ppg	
Fluid Gradient Below TOC:	8.33 ppg	
Wellhead Pressure:	13 psi	
Pore Pressure In Open Hole:	Yes	



Oxy Blanket Design - Casing Design "A"



Collapse Load Cases

General		7 5/8" Intermediate Casing
Collapse Loads Data		
Drilling Load:		Cementing
Mud Weight at Shoe:		10.00 ppg
TOC, MD:		25.00 ft
Lead Slurry Density:		13.30 ppg
Tail Slurry Density:		13.30 ppg
Tail Slurry Length:		5906.00 ft
Displacement Fluid Density:		10.00 ppg
Float Collar Depth, MD:		12800.00 ft
Assigned External Pressure:		Fluid Gradients (w/ Pore Pressure)
Drilling Load:		Lost Returns with Mud Drop
Lost Returns Depth, MD:		13110.89 ft
Pore Pressure at Lost Returns Depth:		8183 psi
Pore Pressure Gradient at Lost Returns Depth:		12.33 ppg
Mud Weight:		13.50 ppg
Mud Drop Level, MD:		1106.39 ft
Assigned External Pressure:		Fluid Gradients (w/ Pore Pressure)
External Pressure:		Fluid Gradients (w/ Pore Pressure)
TOC, MD:		25.00 ft
Prior Shoe, MD:		1200.00 ft
Fluid Gradient Above TOC:		10.00 ppg
Fluid Gradient Below TOC:		10.00 ppg
Wellhead Pressure:		13 psi
Pore Pressure In Open Hole Below TOC:		No

Axial Load Cases

General		7 5/8" Intermediate Casing
Axial Loads Data		
Overpull Force:		100000 lbf
Pre-Cement Static Load:		Yes
Pickup Force:		0 lbf
Post-Cement Static Load:		Yes
Green Cement Pressure Test:		2000 psi
Service Loads:		Yes



Oxy Blanket Design - Casing Design "A"



9. Landmark StressCheck Screenshot – Int. Casing Triaxial Results Table (Pressure Test)

StressCheck - [Triaxial Results - Blanket Design A1 *]

File Edit Wellbore Tubular View Composer Tools Window Help

7 5/8" Intermediate Casing

Pressure Test

	Depth (MD) (ft)	Axial Force (lbf)		Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor				Temperature (°F)	Pressure (psi)		Addtl Pickup To Prevent Buck. (lbf)	Buckled Length (ft)
		Apparent (w/Bending)	Actual (w/o Bending)			Triaxial	Burst	Collapse (V)	Axial		Internal	External		
28	12300	-142410	-17423	-94936	16622.5	1.79	2.10	N/A	(4.09)	178	9505	6732		
29	12400	-149639	-24652	-100590	16622.5	1.87	2.25	N/A	(3.89)	179	9555	6970		
30	12400	-149640	-24653	-100591	16622.5	1.87	2.25	N/A	(3.89)	179	9555	6970		
31	12500	-156448	-31461	-105919	16622.5	1.95	2.42	N/A	(3.72)	180	9603	7193		
32	12500	-156449	-31462	-105920	16622.5	1.95	2.42	N/A	(3.72)	180	9603	7193		
33	12550	-159630	-34643	-108410	16622.5	1.99	2.50	N/A	(3.64)	180	9625	7298		
34	12550	-159631	-34644	-108411	16622.5	1.99	2.50	N/A	(3.64)	180	9625	7298		
35	12600	-162630	-37643	-110759	16622.5	2.03	2.59	N/A	(3.58)	180	9646	7396		
36	12600	-162631	-37644	-110760	16622.5	2.03	2.59	N/A	(3.58)	180	9646	7396		
37	12650	-165426	-40439	-112949	16622.5	2.07	2.67	N/A	(3.52)	181	9665	7488		
38	12650	-165427	-40440	-112950	16622.5	2.07	2.67	N/A	(3.52)	181	9665	7488		
39	12700	-167997	-43010	-114963	16622.5	2.10	2.76	N/A	(3.46)	181	9683	7573		
40	12700	-167998	-43011	-114963	16622.5	2.10	2.76	N/A	(3.46)	181	9683	7573		
41	12750	-170322	-45335	-116784	16622.5	2.13	2.84	N/A	(3.41)	181	9699	7649		
42	12750	-170323	-45336	-116785	16622.5	2.13	2.84	N/A	(3.41)	181	9699	7649		
43	12800	-172385	-47398	-118401	16622.5	2.16	2.91	N/A	(3.37)	181	9714	7717		
44	12800	-172386	-47399	-118401	16622.5	2.16	2.91	N/A	(3.37)	181	9714	7717		
45	12850	-174169	-49183	-119799	16622.5	2.19	2.98	N/A	(3.34)	182	9726	7775		
46	12850	-174170	-49183	-119800	16622.5	2.19	2.98	N/A	(3.34)	182	9726	7775		
47	12900	-175662	-50675	-120969	16622.5	2.21	3.04	N/A	(3.31)	182	9736	7824		
48	12950	-176851	-51864	-121901	16622.5	2.23	3.09	N/A	(3.29)	182	9745	7863		
49	13000	-177727	-52740	-122588	16622.5	2.24	3.13	N/A	(3.27)	182	9751	7892		
50	13000	-177728	-52741	-122588	16622.5	2.24	3.13	N/A	(3.27)	182	9751	7892		
51	13050	-178285	-53298	-123025	16622.5	2.25	3.15	N/A	(3.26)	182	9755	7910		
52	13111	-178527	-53540	-123214	16622.5	2.25	3.16	N/A	(3.26)	182	9756	7918		
53														
54														
55														
56														

() Compression
(V) Vector Collapse Safety Factor

Internal Pressure = Surface Pressure + Hydrostatic = 9756 psi

External Pressure = Fluid Gradient w/ Pore Pressure = 7918 psi

Burst SF = 3.16

NOTE: Specific load case inputs for the pressure test can be seen in **Section 8** above. The test pressure does not exceed 70% of the minimum internal yield.



Oxy Blanket Design - Casing Design "A"



10. Intermediate Non-API Casing Spec Sheet



Technical Data Sheet

7 5/8" 26.40 lbs/ft. L80HC - Axis HT

Mechanical Properties

Minimum Yield Strength	psi.	80,000
Maximum Yield Strength	psi.	95,000
Minimum Tensile Strength	psi.	95,000

Dimensions

		Pipe	AXIS HT
Outside Diameter	in.	7.625	8.500
Wall Thickness	in.	0.328	-
Inside Diameter	in.	6.969	-
Standard Drift	in.	6.844	6.844
Alternate Drift	in.	-	-
Plain End Weight	lbs/ft.	-	-
Nominal Linear Weight	lbs/ft.	26.40	-

Performance

		Pipe	AXIS HT
Minimum Collapse Pressure	psi.	4,320	-
Minimum Internal Yield Pressure	psi.	6,020	6,020
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	-
Joint Strength	lbs.	-	635 x 1,000

Make-Up Torques

		Pipe	AXIS HT
Optimum Make-Up Torque	ft/lbs.	-	8,000
Maximum Operational Torque	ft/lbs.	-	25,000

Disclaimer: The content of this Technical Data Sheet is for general information only and does not guarantee performance and/or accuracy, which can only be determined by a professional expert with the specific installation and operation parameters. Information printed or downloaded may not be current and no longer in control by Axis Pipe and Tube. Anyone using the information herein does so at his or her own risk. To verify that you have the latest technical information, please contact Axis Pipe and Tube Technical Sales +1 (979) 599-7600, www.axispipeandtube.com



Oxy Blanket Design - Casing Design "A"



11. Production Non-API Casing Spec Sheets

Printed on: 11/09/2021

TenarisHydril Wedge 461[®] MS



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

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-4CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	MS				

Pipe Body Data

Geometry		Performance	
Nominal OD	5.500 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	20 lb/ft	Min. Internal Yield Pressure	14,360 psi
Drift	4.653 in.	SMYS	125,000 psi
Nominal ID	4.778 in.	Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.050 in.	Tension Efficiency	100 %	Minimum	17,000 ft-lb
Coupling Length	7.714 in.	Joint Yield Strength	729 x1000 lb	Optimum	18,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	21,600 ft-lb
Make-up Loss	3.775 in.	Compression Efficiency	100 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	729 x1000 lb	Operating Torque	43,000 ft-lb
Connection OD Option	Ms	Max. Allowable Bending	104 °/100 ft	Yield Torque	51,000 ft-lb
		External Pressure Capacity	12,300 psi	Buck-On	
		Coupling Face Load	273,000 lb	Minimum	21,600 ft-lb
				Maximum	23,100 ft-lb

Notes

This connection is fully interchangeable with:
 Wedge 441® - 5.5 in. - 0.304 / 0.361 in.
 Wedge 461® - 5.5 in. - 0.304 / 0.415 / 0.476 in.
 Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
 In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

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

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information – if any – provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com. ©Tenaris 2021. All rights reserved.



Oxy Blanket Design - Casing Design "A"



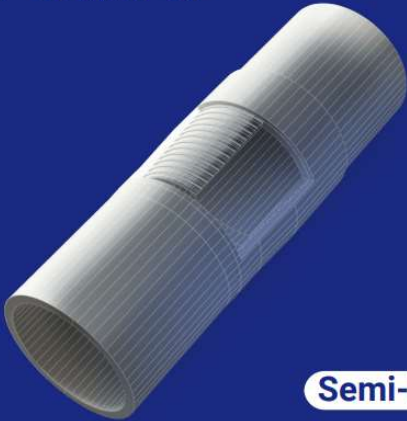
Generated on May 21, 2024



CONNECTION DATA SHEET

OD: 5.500 in. Grade: P110
Weight: 20.00 lb/ft Drift: 4.653 in. (API)
Wall Th.: 0.361 in.

VAM® SPRINT-SF



Semi-Flush

Field Torque Values

Make-up Torque (ft-lb)

20,000 MIN
22,500 OPTI
25,000 MAX

Torque with Sealability (ft-lb)

36,000 MTS

Locked Flank Torque (ft-lb)

4,500 MIN
15,750 MAX

(2) MTS: Maximum Torque with Sealability.

PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	API 5CT	
Minimum Yield Strength	110	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	125	ksi
Pipe Body Yield Strength	641	klb
Internal Yield Pressure	12,640	psi
Collapse Pressure	11,100	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium Integral Semi-Flu	
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,100	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



BOOST YOUR EFFICIENCY, REDUCE COSTS
AND ENSURE 100% WELL INTEGRITY WITH
VAM® FIELD SERVICE

Scan the QR code
to contact us



The information available on this Site ("Information") is offered for general information. It is supposed to be correct at the time of publishing on the Site but is not intended to constitute professional advice and is provided 'as is'. Vallourec does not guarantee the completeness and accuracy of this information. Under no circumstances will Vallourec be liable for damage, liability of any kind, or any loss or injury that may result from the credibility given to this information or its use. The information may be amended, corrected, at any time by Vallourec without warning. Vallourec's products and services are subject to Vallourec's The Information may be amended, corrected, and/or supplemented at any time by Vallourec without warning, standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services.



Oxy Blanket Design - Casing Design "A"



DWC/C-HT-IS

Connection Data Sheet

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

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

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

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

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

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

"VST = Vallourec Star as the mill source for the pipe, "P110EC" is the grade name"

Need Help? Contact: tech.support@vam-usa.com

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

03/04/2024 08:36:50 PM





Oxy Blanket Design - Casing Design "A"



VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

DWC Connection Data Sheet Notes:

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

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

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

03/04/2024 08:36:50 PM





Oxy Blanket Design - Casing Design "B"



1. Casing Program

The designs and associated details listed in this document are the "worst case scenario" boundaries for design safety factors.

Location and lithology have NOT been accounted for in these designs; however, the designs are NOT valid for wells within KPLA Boundaries or Capitan Reef areas. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program listed below will remain the same between each design variation.

Hole will be full during casing run for well control and tensile SF.

Casing will be kept at least half full during run for these designs to meet BLM collapse SF requirement.

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	1200	0	1200	13.375	54.5	J-55	BTC
Intermediate 1	12.25+	0	4832	0	4832	10.75	45.5	L-80 HC	BTC-SC
Intermediate 2	9.875	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis-HT
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

*Curve could be in intermediate or production section

†Oxy requests the option to set intermediate 1 casing shallower, yet still below the salts, if required due to losses or hole conditions. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run incase hole conditions merit pumping a second stage cement job to comply with the permitted top of cement. If cement is circulated to surface during first stage, Oxy will drop a cancelation cone and not pump the second stage. Well specific depths for the pad will be included with the casing setting depths information submitted for review.

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

All Casing SF Values will meet or exceed those below			
SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
1.00	1.100	1.4	1.4

§Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

§Annular Clearance Variance Request may not apply to all connections used or presented.



Oxy Blanket Design - Casing Design "B"



2. Trajectory / Boundary Conditions

Section	MD		TVD		Max. Angle	Max. Planned DLS
	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)		
Surface	0	1200	0	1200	5°	1°/100 ft
Salt	0	4832	0	4832	5°	1°/100 ft
Intermediate	5000 (inside Cherry Canyon)	6500	4980	6390	20°	2°/100 ft
	12211	13111	12202	12775	92° ±	12°/100 ft ±
Production	12211 (~100' MD past ICP)	13111	12202	12775	92° ±	12°/100 ft ±

± Applies only when intermediate casing depth is deepened to landing point to match TVD of production in some areas where required to accommodate higher MWs in depleted areas.

Oxy has reviewed casing burst, collapse, and axial loadcases in Landmark StressCheck with the boundary conditions in the table above which satisfies Oxy and BLM minimum design criteria. Triaxial plots for each casing string is shown in Section 7 and intermediate load case inputs are shown in Section 8.

3. Cementing Program

NOTE: Blanket design is for technical review only. The cement volumes will be adjusted to ensure cement tops meet BLM requirements.

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	1253	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	4,332	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	676	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	793	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	1002	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	609	1.84	13.3	25%	12,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

*Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

As Reviewed and Approved by BLM on Feb 8, 2024: Oxy uses a Class C / Pozzolan mix on its production cement slurry, which has the same fluid properties as Class H, and has been pilot and field blend tested to have as good or better compressive strength development at our target densities.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.



Oxy Blanket Design - Casing Design "B"



Bradenhead CBL Request

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

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	TVD Depth (ft) per Section:
12.25" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	4832
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	12102
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	100% of working pressure	12775
		10M	Blind Ram		✓	250 psi / 10000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				

*Specify if additional ram is utilized

**Curve could be in intermediate or production section

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

5M Annular BOP Request

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



Oxy Blanket Design - Casing Design "B"



Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Coflex hoses are in compliance with API 16C and meets inspection and testing requirements. See attached for specs and hydrostatic test chart.

Y	Are anchors required by manufacturer?
---	---------------------------------------

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached Schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Hammer Union Variance

Oxy requests permission for hammer unions behind the choke to be routed to the gas buster. The hammer unions will not be subject to wellbore pressure in compliance with API STD 53.

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



Oxy Blanket Design - Casing Design "B"



5. Mud Program & Drilling Conditions

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	1200	4832	1200	4832	Saturated Brine-Based or Oil-Based Mud	8.0 – 10.0	35-45	N/C
Intermediate 2	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil-Based Mud	9.5 - 13.5	38-50	N/C

Curve could be in intermediate or production section

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.

Drilling Blind Request

In the event total losses are encountered in the intermediate section, Oxy requests permission to drill blind due to depleted formations where risk of hydrocarbon kicks are unlikely.

- Oxy will first attempt to cure losses before proceeding with drilling blind
- Drilling blind will only be allowed in the Castille and formations below
- While drilling blind, will monitor backside by filling-up on connections and utilizing gas monitors
- Depths at which losses occurred and attempt to cure losses with relevant details (LCM sweep info, etc.) will be documented in the drillers log and Subsequent Reports to the BLM.
- If a well control event (hydrocarbon kick) occurs while drilling blind, the BLM will be notified after the well is secured and returned to static.

What will be used to monitor the loss or gain of fluid?

PVT/MD Totco/Visual Monitoring

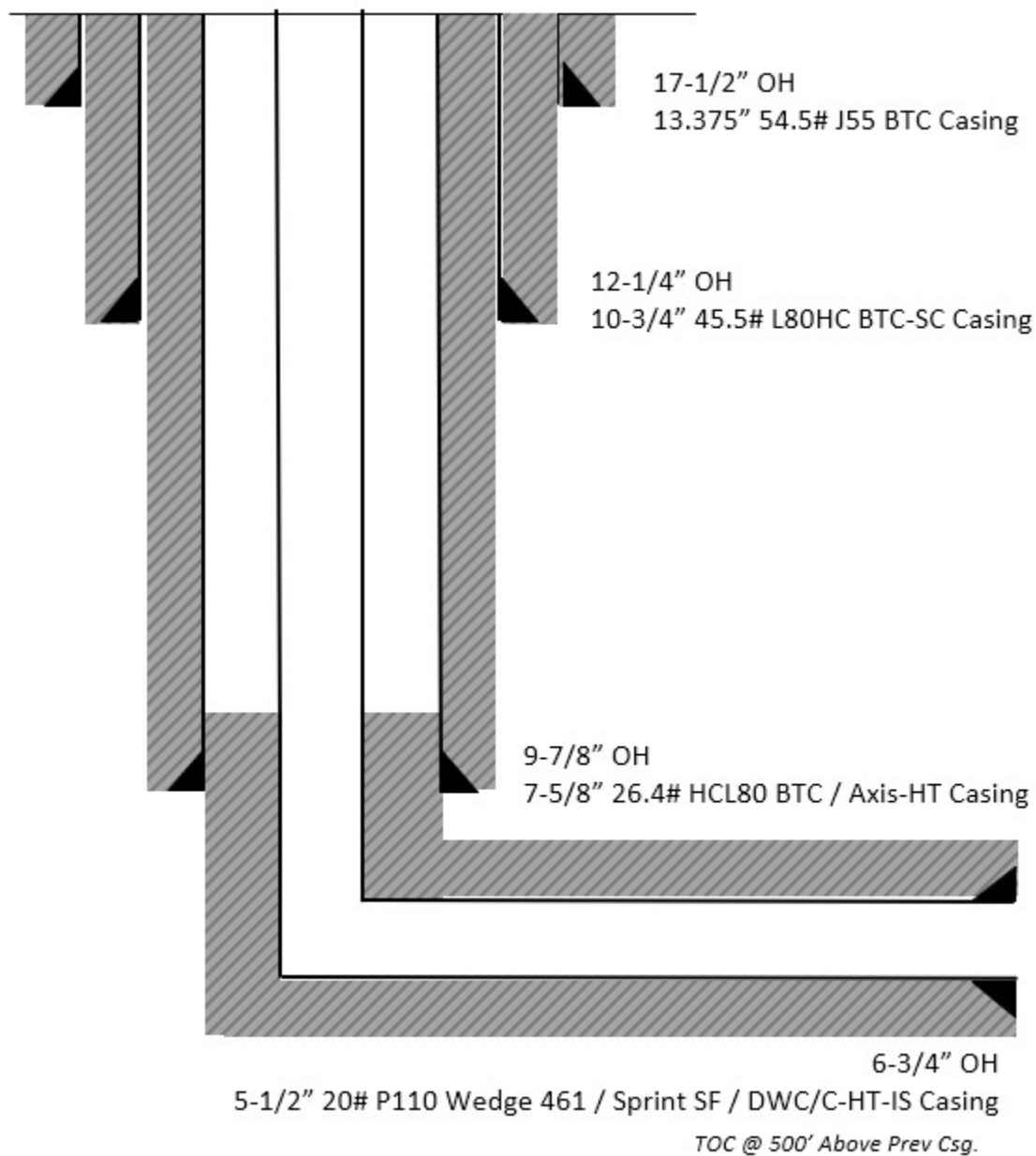
Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential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



Oxy Blanket Design - Casing Design "B"



6. Wellbore Diagram

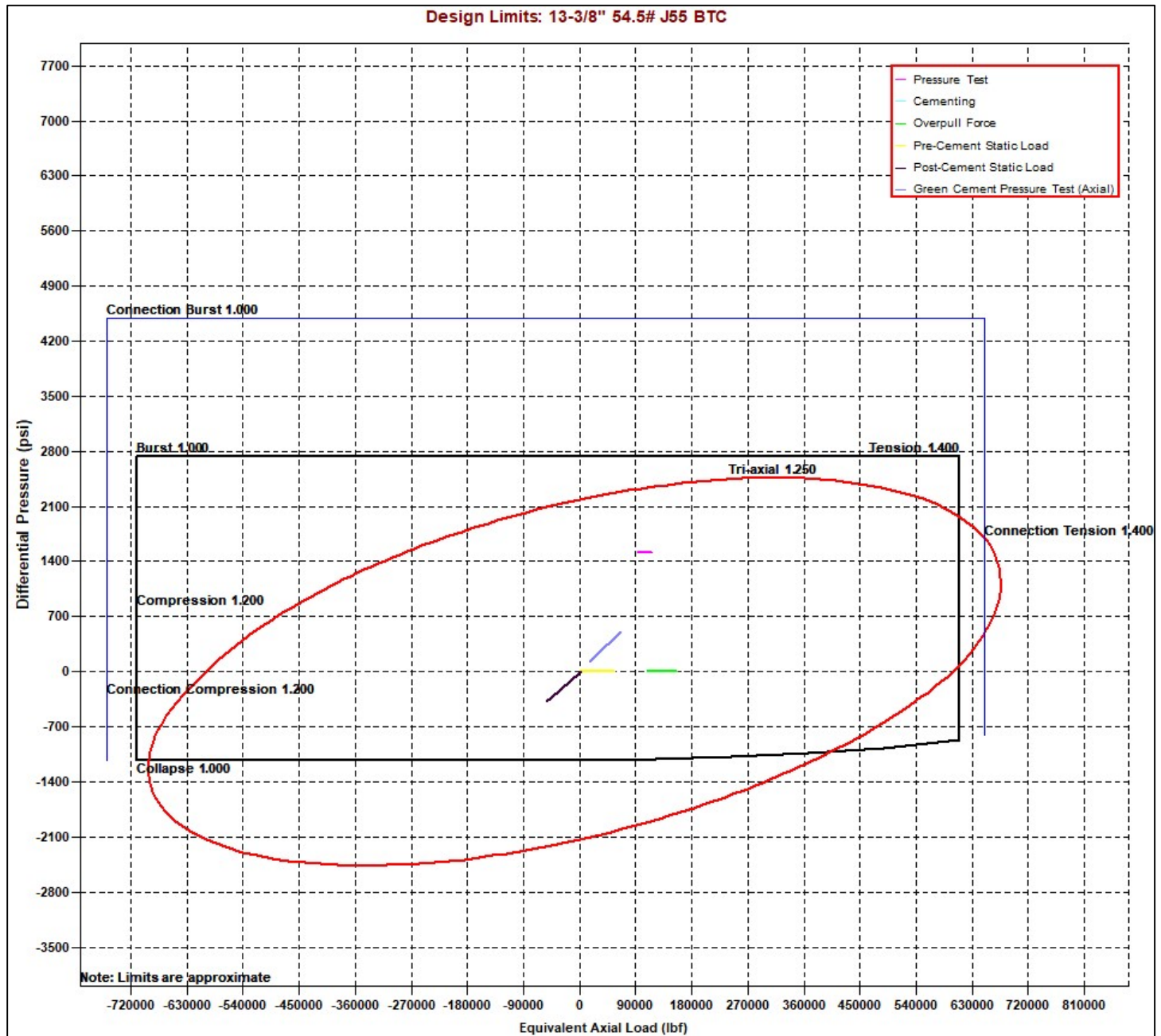




Oxy Blanket Design - Casing Design "B"



7. Landmark StressCheck Screenshots – Triaxial Output

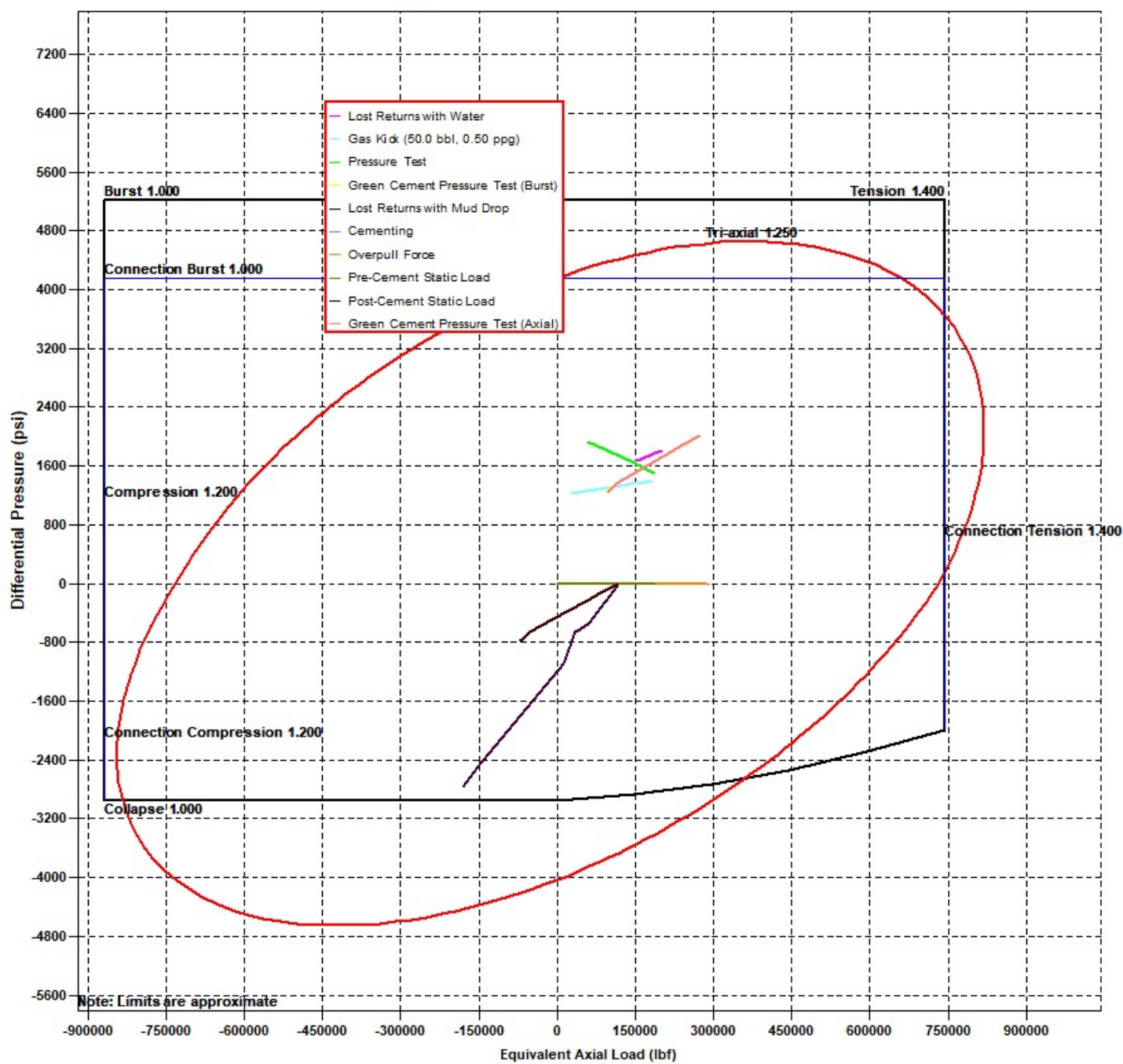




Oxy Blanket Design - Casing Design "B"



Design Limits: 10-3/4" 45.5# HC-L80 BTC-SC

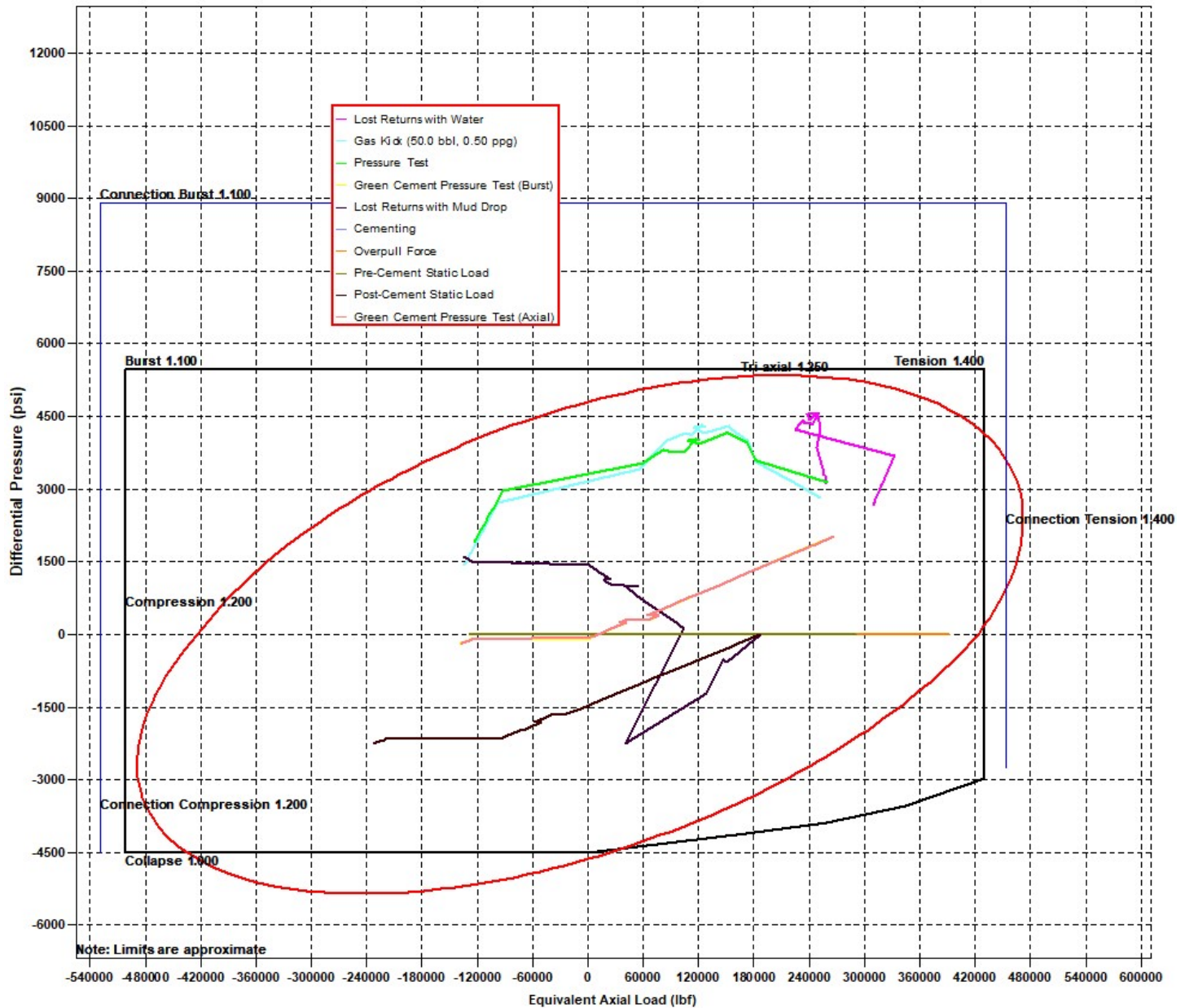




Oxy Blanket Design - Casing Design "B"



Design Limits: 7-5/8" 26.4# HC-L80 BTC

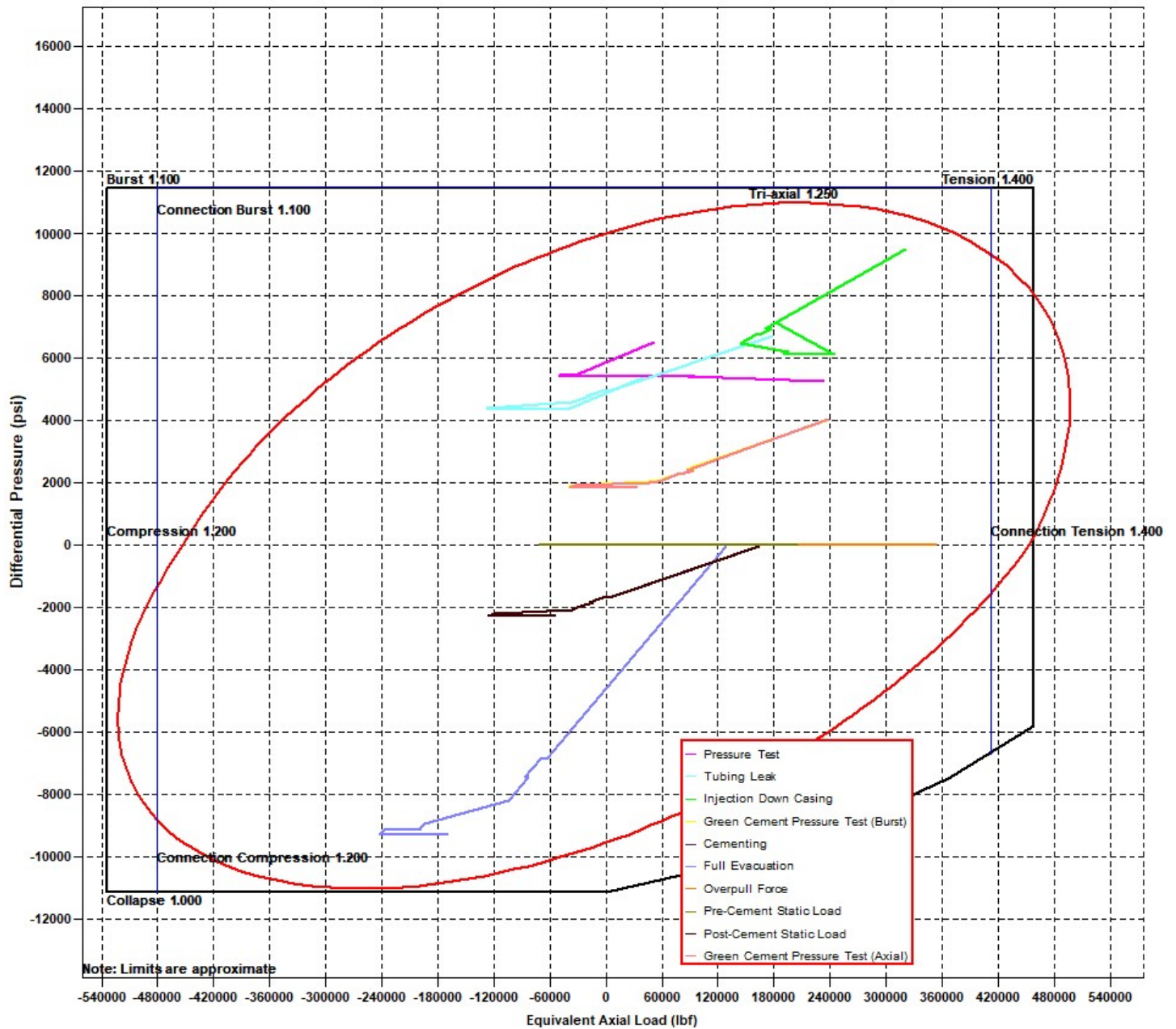




Oxy Blanket Design - Casing Design "B"



Design Limits: 5-1/2" 20# P110 Sprint SF





Oxy Blanket Design - Casing Design "B"



8. Landmark StressCheck Screenshots – Inputs for Intermediate 2 CSG Load Cases

Burst Load Cases

Burst Loads Data	
Drilling Load:	Lost Returns with Water
Fracture at Shoe (MD= 13111.00 ft):	10591 psi
Mud/Water Interface, MD:	0.00 ft
Mud Weight	11.28 ppg
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Gas Kick Profile
Influx Depth, MD:	23361.00 ft
Kick Volume:	50.0 bbl
Kick Intensity	0.50 ppg
Maximum Mud Weight:	13.50 ppg
Kick Gas Gravity:	0.55 (0.1159 psi/ft @ 182 °F & 9291 psi)
Fracture at Shoe (MD= 13111.00 ft):	10591 psi
Drill Pipe OD:	5.000 in
Collar OD:	5.500 in
Collar Length:	200.00 ft
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Pressure Test
Test Pressure:	3120 psi
Mud Weight:	10.00 ppg
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Green Cement Pressure Test
Test Pressure:	4000 psi
Mud Weight at Shoe:	10.00 ppg
TOC, MD:	25.00 ft
Lead Slurry Density:	13.30 ppg
Tail Slurry Density:	13.20 ppg
Tail Slurry Length:	5909.00 ft
Displacement Fluid Density:	10.00 ppg
Float Collar Depth, MD:	13111.00 ft
External Pressure:	Fluid Gradients (w/ Pore Pressure)
TOC, MD:	25.00 ft
Prior Shoe, MD:	4832.00 ft
Mud Weight Above TOC:	10.00 ppg
Fluid Gradient Below TOC:	8.33 ppg
Wellhead Pressure:	18 psi
Pore Pressure In Open Hole:	Yes



Oxy Blanket Design - Casing Design "B"



Collapse Load Cases

Collapse Loads Data	
Drilling Load:	Cementing
Mud Weight at Shoe:	10.00 ppg
TOC, MD:	25.00 ft
Lead Slurry Density:	13.30 ppg
Tail Slurry Density:	13.20 ppg
Tail Slurry Length:	5909.00 ft
Displacement Fluid Density:	10.00 ppg
Float Collar Depth, MD:	13111.00 ft
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Lost Returns with Mud Drop
Lost Returns Depth, MD:	13111.10 ft
Pore Pressure at Lost Returns Depth:	7918 psi
Pore Pressure Gradient at Lost Returns Depth:	11.93 ppg
Mud Weight:	13.50 ppg
Mud Drop Level, MD:	1484.14 ft
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
External Pressure:	Fluid Gradients (w/ Pore Pressure)
TOC, MD:	25.00 ft
Prior Shoe, MD:	4832.00 ft
Fluid Gradient Above TOC:	10.00 ppg
Fluid Gradient Below TOC:	10.00 ppg
Wellhead Pressure:	18 psi
Pore Pressure In Open Hole Below TOC:	No

Axial Load Cases

Axial Loads Data	
Overpull Force:	100000 lbf
Pre-Cement Static Load:	Yes
Pickup Force:	0 lbf
Post-Cement Static Load:	Yes
Green Cement Pressure Test:	2000 psi
Service Loads:	Yes



Oxy Blanket Design - Casing Design "B"



9. Landmark StressCheck Screenshot – Int. Casing Triaxial Results Table (Pressure Test)

StressCheck - [Triaxial Results - Blanket Design B]

File Edit Wellbore Tubular View Composer Tools Window Help

7 5/8" Intermediate Casing

Pressure Test

	Depth (MD) (ft)	Axial Force (lbf)		Equivalent Axial Load (lbf)	Bending Stress at OD (psi)	Absolute Safety Factor				Temperature (°F)	Pressure (psi)		Add'l Pickup To Prevent Buck. (lbf)	Buckled Length (ft)
		Apparent (w/Bending)	Actual (w/o Bending)			Triaxial	Burst	Collapse (V)	Axial		Internal	External		
29	12400	-149056	-24069	-99987	16622.5	1.88	2.25	N/A	(3.90)	179	9555	6970		
30	12500	-155877	-30890	-105328	16622.5	1.96	2.42	N/A	(3.73)	180	9603	7193		
31	12500	-155878	-30891	-105329	16622.5	1.96	2.42	N/A	(3.73)	180	9603	7193		
32	12550	-159065	-34078	-107825	16622.5	2.00	2.50	N/A	(3.66)	180	9625	7298		
33	12550	-159066	-34079	-107826	16622.5	2.00	2.50	N/A	(3.66)	180	9625	7298		
34	12600	-162071	-37084	-110180	16622.5	2.03	2.59	N/A	(3.59)	180	9646	7396		
35	12600	-162072	-37085	-110181	16622.5	2.03	2.59	N/A	(3.59)	180	9646	7396		
36	12650	-164872	-39885	-112376	16622.5	2.07	2.67	N/A	(3.53)	181	9665	7488		
37	12650	-164873	-39886	-112377	16622.5	2.07	2.67	N/A	(3.53)	181	9665	7488		
38	12700	-167448	-42461	-114394	16622.5	2.10	2.76	N/A	(3.47)	181	9683	7573		
39	12700	-167449	-42462	-114395	16622.5	2.10	2.76	N/A	(3.47)	181	9683	7573		
40	12750	-169778	-44791	-116221	16622.5	2.14	2.84	N/A	(3.43)	181	9699	7649		
41	12750	-169779	-44792	-116221	16622.5	2.14	2.84	N/A	(3.43)	181	9699	7649		
42	12800	-171844	-46858	-117841	16622.5	2.17	2.91	N/A	(3.38)	181	9714	7717		
43	12800	-171845	-46858	-117842	16622.5	2.17	2.91	N/A	(3.38)	181	9714	7717		
44	12850	-173632	-48645	-119243	16622.5	2.19	2.98	N/A	(3.35)	182	9726	7775		
45	12850	-173633	-48646	-119243	16622.5	2.19	2.98	N/A	(3.35)	182	9726	7775		
46	12900	-175127	-50141	-120416	16622.5	2.21	3.04	N/A	(3.32)	182	9736	7824		
47	12900	-175128	-50141	-120416	16622.5	2.21	3.04	N/A	(3.32)	182	9736	7824		
48	12950	-176319	-51332	-121350	16622.5	2.23	3.09	N/A	(3.30)	182	9745	7863		
49	13000	-177197	-52210	-122039	16622.5	2.24	3.13	N/A	(3.28)	182	9751	7892		
50	13050	-177755	-52769	-122477	16622.5	2.25	3.15	N/A	(3.27)	182	9755	7910		
51	13050	-177756	-52769	-122477	16622.5	2.25	3.15	N/A	(3.27)	182	9755	7910		
52	13111	-177998	-53011	-122667	16622.5	2.25	3.16	N/A	(3.27)	182	9756	7918		
53														
54														
55														
56														

() Compression
(V) Vector Collapse Safety Factor

Work Csg_Scheme PP_FG Wellpath Diagram String_Conn Design Burst Collapse Axi

Internal Pressure = Surface Pressure + Hydrostatic = 9756 psi

External Pressure = Fluid Gradient w/ Pore Pressure = 7918 psi

Burst SF = 3.16

NOTE: Specific load case inputs for the pressure test can be seen in **Section 8** above. The test pressure does not exceed 70% of the minimum internal yield.



Oxy Blanket Design - Casing Design “B”



10. Intermediate Non-API Casing Spec Sheet

Printed on: 06/19/2023

API BTC -Special Clearance

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Type	Casing
Connection OD Option	Special Clearance				

Pipe Body Data

Geometry	
Nominal OD	10.750 in.
Wall Thickness	0.400 in.
Nominal Weight	45.500 lb/ft
Nominal ID	9.950 in.

Drift	9.875 in.
Plain End Weight	44.26 lb/ft
OD Tolerance	API

Performance

SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	715 x1000 lb
Min. Internal Yield Pressure	3580 psi
Collapse Pressure	2090 psi
Max. Allowed Bending	23 °/100 ft

Connection Data

Geometry	
Thread per In	5
Connection OD	11.250 in.
Hand Tight Stand Off	1 in.

Joint Strength	796 x1000 lb
Coupling Face Load	329 x1000 lb
Internal Pressure Capacity	3290 psi

Notes

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

Tenaris has issued this document for general information only and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information –if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com . ©Tenaris 2023. All rights reserved.



Oxy Blanket Design - Casing Design "B"



Technical Data Sheet

7 5/8" 26.40 lbs/ft. L80HC - Axis HT

Mechanical Properties

Minimum Yield Strength	psi.	80,000
Maximum Yield Strength	psi.	95,000
Minimum Tensile Strength	psi.	95,000

Dimensions

		Pipe	AXIS HT
Outside Diameter	in.	7.625	8.500
Wall Thickness	in.	0.328	-
Inside Diameter	in.	6.969	-
Standard Drift	in.	6.844	6.844
Alternate Drift	in.	-	-
Plain End Weight	lbs/ft.	-	-
Nominal Linear Weight	lbs/ft.	26.40	-

Performance

		Pipe	AXIS HT
Minimum Collapse Pressure	psi.	4,320	-
Minimum Internal Yield Pressure	psi.	6,020	6,020
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	-
Joint Strength	lbs.	-	635 x 1,000

Make-Up Torques

		Pipe	AXIS HT
Optimum Make-Up Torque	ft/lbs.	-	8,000
Maximum Operational Torque	ft/lbs.	-	25,000

Disclaimer: The content of this Technical Data Sheet is for general information only and does not guarantee performance and/or accuracy, which can only be determined by a professional expert with the specific installation and operation parameters. Information printed or downloaded may not be current and no longer in control by Axis Pipe and Tube. Anyone using the information herein does so at his or her own risk. To verify that you have the latest technical information, please contact Axis Pipe and Tube Technical Sales +1 (979) 599-7600. www.axispipeandtube.com

11. Production Non-API Casing Spec Sheets



Oxy Blanket Design - Casing Design "B"



Printed on: 11/09/2021

TenarisHydril Wedge 461[®] MS



Coupling	Pipe Body
Grade: P110-ICV	Grade: P110-ICV
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

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

Pipe Body Data

Geometry		Performance	
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.	Body Yield Strength	729 x1000 lb
		Min. Internal Yield Pressure	14,360 psi
		SMYS	125,000 psi
		Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.050 in.	Tension Efficiency	100 %	Minimum	17,000 ft-lb
Coupling Length	7.714 in.	Joint Yield Strength	729 x1000 lb	Optimum	18,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	21,600 ft-lb
Make-up Loss	3.775 in.	Compression Efficiency	100 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	729 x1000 lb	Operating Torque	43,000 ft-lb
Connection OD Option	Ms	Max. Allowable Bending	104 °/100 ft	Yield Torque	51,000 ft-lb
		External Pressure Capacity	12,300 psi	Buck-On	
		Coupling Face Load	273,000 lb	Minimum	21,600 ft-lb
				Maximum	23,100 ft-lb

Notes

This connection is fully interchangeable with:
 Wedge 441® - 5.5 in. - 0.304 / 0.361 in.
 Wedge 461® - 5.5 in. - 0.304 / 0.415 / 0.476 in.
 Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
 In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

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

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information – if any – provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at www.tenaris.com. ©Tenaris 2021. All rights reserved.



Oxy Blanket Design - Casing Design "B"



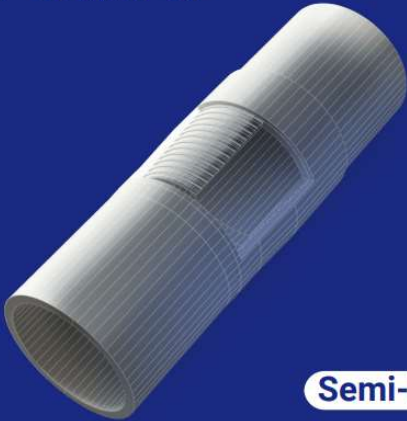
Generated on May 21, 2024



CONNECTION DATA SHEET

OD: 5.500 in. Grade: P110
Weight: 20.00 lb/ft Drift: 4.653 in. (API)
Wall Th.: 0.361 in.

VAM® SPRINT-SF



Semi-Flush

Field Torque Values

Make-up Torque (ft-lb)

20,000 MIN
22,500 OPTI
25,000 MAX

Torque with Sealability (ft-lb)

36,000 MTS

Locked Flank Torque (ft-lb)

4,500 MIN
15,750 MAX

(2) MTS: Maximum Torque with Sealability.

PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	API 5CT	
Minimum Yield Strength	110	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	125	ksi
Pipe Body Yield Strength	641	klb
Internal Yield Pressure	12,640	psi
Collapse Pressure	11,100	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium Integral Semi-Flu	
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,100	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



BOOST YOUR EFFICIENCY, REDUCE COSTS
AND ENSURE 100% WELL INTEGRITY WITH
VAM® FIELD SERVICE

Scan the QR code
to contact us



The information available on this Site ("Information") is offered for general information. It is supposed to be correct at the time of publishing on the Site but is not intended to constitute professional advice and is provided 'as is'. Vallourec does not guarantee the completeness and accuracy of this information. Under no circumstances will Vallourec be liable for damage, liability of any kind, or any loss or injury that may result from the credibility given to this information or its use. The information may be amended, corrected, at any time by Vallourec without warning. Vallourec's products and services are subject to Vallourec's The Information may be amended, corrected, and/or supplemented at any time by Vallourec without warning, standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services.



Oxy Blanket Design - Casing Design "B"



DWC/C-HT-IS

Connection Data Sheet

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

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

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

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

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

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

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

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

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

03/04/2024 08:36:50 PM





Oxy Blanket Design - Casing Design "B"



VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234

VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

DWC Connection Data Sheet Notes:

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

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

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

03/04/2024 08:36:50 PM



C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 PAGE 1 OF 2
		Submittal Type: ☐ Initial Submittal ☒ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-015-56040	Pool Code 13367	Pool Name COTTON DRAW; BONE SPRING
Property Code 329887	Property Name NUGGET 6_31 FED COM	Well Number 23H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3472'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
C	07	24S	31E		419' FNL	1732' FWL	32.23796530	-103.82005583	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
C	31	23S	31E		620' FNL	2200' FWL	32.26647310	-103.81852406	EDDY

Dedicated Acres 655.68	Infill or Defining Well INFILL	Defining Well API 30-015-48616	Overlapping Spacing Unit (Y/N) N	Consolidation Code N/A
Order Numbers: N/A			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
C	07	24S	31E		300' FNL	2200' FWL	32.23829139	-103.81854162	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	06	24S	31E		100' FSL	2200' FWL	32.23939093	-103.81854086	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
C	31	23S	31E		620' FNL	2200' FWL	32.26647310	-103.81852406	EDDY

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3472'
---	---	--

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Sara Guthrie 6/24/2025
Signature Date

Sara Guthrie
Printed Name

sara_guthrie@oxy.com
Email Address

SURVEYOR CERTIFICATIONS

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.



Signature and Seal of Professional Surveyor

Certificate Number

Date of Survey

21653

APRIL 07, 2025

Note: 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.

ACREAGE DEDICATION PLATS

NUGGET 6_31 FED COM 23H

PAGE 2 OF 2

LTP/BHL (NAD83)
X:700459.89' / Y:461057.62'
LAT:32.26647310 / LON:-103.81852406

LTP/BHL (NAD27)
X:659276.32' / Y:460998.34'
LAT:32.26635017 / LON:-103.81803781

PPP-2 (NAD83)
X:700479.80' / Y:456394.13'
LAT:32.25365393 / LON:-103.81853202

PPP-2 (NAD27)
X:659296.09' / Y:456334.97'
LAT:32.25353092 / LON:-103.81804628

FTP (NAD83)
X:700501.94' / Y:451205.40'
LAT:32.23939093 / LON:-103.81854086

FTP (NAD27)
X:659318.07' / Y:451146.36'
LAT:32.23926779 / LON:-103.81805574

PPP-1 (NAD83)
X:700502.36' / Y:451105.40'
LAT:32.23911604 / LON:-103.81854105

PPP-1 (NAD27)
X:659318.48' / Y:451046.36'
LAT:32.23899291 / LON:-103.81805595

KOP (NAD83)
X:700503.62' / Y:450805.40'
LAT:32.23829139 / LON:-103.81854162

KOP (NAD27)
X:659319.73' / Y:450746.37'
LAT:32.23816825 / LON:-103.81805656

SHL (NAD83)
X:700036.01' / Y:450684.53'
LAT:32.23796530 / LON:-103.82005583

SHL (NAD27)
X:658852.12' / Y:450625.50'
LAT:32.23784216 / LON:-103.81957075

**CORNER COORDINATES
NAD 83, SPCS NM EAST**

A - X: 700956.72' / Y:461680.43'
B - X: 700990.28' / Y:456396.89'
C - X: 701001.66' / Y:451107.73'
D - X: 698302.38' / Y:451095.14'
E - X: 698292.14' / Y:453738.71'
F - X: 698281.85' / Y:456382.27'
G - X: 698269.19' / Y:459024.23'
H - X: 698257.10' / Y:461665.25'

**CORNER COORDINATES
NAD 27, SPCS NM EAST**

A - X: 659773.17' / Y:461621.13'
B - X: 659806.58' / Y:456337.73'
C - X: 659817.78' / Y:451048.69'
D - X: 657118.51' / Y:451036.10'
E - X: 657108.36' / Y:453679.61'
F - X: 657098.16' / Y:456323.11'
G - X: 657085.57' / Y:458965.00'
H - X: 657073.56' / Y:461605.95'

***FTP TO LTP LINE BEARINGS**

LINE	BEARING
L1	N 00°14'40" W ~ 9852.32'

***FTP TO LTP LEASE DISTANCES**

TRACT	DISTANCE
NMNM 082904	5188.78'
NMNM 0546732A	4663.54'
TOTAL	9852.32'

○ Drill Line Events

● Section Corners

— Drill Line

↔ Dimension Lines

■ Federal Leases

▨ HSU

○ HSU Corners

All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.

JOB No. OXY_0029_JS01_15055
REV 2 NDS 4/4/2025

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99977581 and a Convergence Angle: 0.27195833°



BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached with OXY/BLM on April 4th, 2025.

BOPE Break Testing is ONLY permitted for 5M BOPE or less (utilizing a 10M BOPE system.)
Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.

BOP break test for the **intermediate or production** section under the following conditions:

- After a full BOP test is conducted.
- When skidding to drill an intermediate or production section which does not penetrate the deeper than the Wolf Camp formation (<5M).
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 3 CFR part 3170 Subpart 3172
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- In the event break testing is not utilized, then a full BOPE test would be conducted.
- 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

Subject: Request for a Variance Allowing Break Testing of a Blowout Preventer Stack

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads. This practice entails retesting only the connections of the **BOP** stack that have been disconnected during this operation and not a complete **BOP** test.

Background

43 CFR part 3170 Subpart 3172 states that a **BOP** test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) is this requires a complete **BOP** test and not just a test of the affected component. 43 CFR part 3170 Subpart 3172, Section I.D.2. states, "Some situations may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this Order. This situation can be resolved by requesting a variance...". OXY feels the practice of break testing the **BOP** stack is such a situation. Therefore, as per 43 CFR part 3170 Subpart 3172, Section IV., OXY submits this request for the variance.

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **BLM** continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is

a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procedure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53, *Blowout Prevention Equipment Systems for Drilling Wells* (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations. BSEE issued new offshore regulations under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*, which became effective on July 28, 2016. Section 250.737(d.1) states "Follow the testing requirements of API Standard 53". In addition, Section 250.737(d.8) has adopted language from **API** Standard 53 as it states "Pressure test affected **BOP** components following the disconnection or repair of any well-pressure containment seal in the wellhead or **BOP** stack assembly".

Break testing has been approved by the BLM in the past. See the Appendix for a Sundry Notice that was approved in 2015 by the Farmington Field Office. This approval granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads.

Oxy feels break testing and our current procedures meet the intent of 43 CFR part 3170 Subpart 3172 and often exceed it. We have not seen any evidence that break testing results in more components failing tests than seen on full BOP tests. As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often. Therefore, there are more opportunities to ensure components are in good working order. Also, Oxy's standard requires complete BOP tests more often than that of 43 CFR part 3170 Subpart 3172. In addition to function testing the annular at least weekly and the pipe and blind rams on each trip, Oxy also performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of 43 CFR part 3170 Subpart 3172.

Procedures

- 1) OXY would perform BOP break testing on multi-well pads where multiple intermediate or production sections can be drilled and cased within the 21-day BOP test window
- 2) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - Between the check valve and the kill line
 - Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- 3) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 4) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 5) The choke line and kill line are reconnected
- 6) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 7) A shell test is performed against the upper pipe rams testing all three breaks
- 8) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 9) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 10) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 11) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 12) A second break test would only be done if the third hole section could be completed within the 21-day BOP test window
- 13) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 9.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

OXY requests a variance to allow break testing of the BOP stack when skidding drilling rigs between wells on multi-well pads. API standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry and the BLM. API Standard 53 recognizes break testing as an acceptable practice and BSEE adopted language from this standard into its newly created 30 CFR Part 250 which also supports break testing. Due to this, OXY feels this request meets the intent of 43 CFR part 3170

Oxy USA Inc. - Blanket Design Pad Document

OXY - Blanket Design A

Pad Name: SNDDNS_T24SR31E_7_2

SHL: 418' FNL 1672' FWL, Sec 07, T24S-R31E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (**Blanket Design A –OXY –3S Slim v7.2.**) The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions (directional plans attached separately for review.)

1. Blanket Design - Wells

Well Name	APD #	Surface		Intermediate		Production	
		MD	TVD	MD	TVD	MD	TVD
NUGGET 6_31 FED COM 21H	10400098124	859	859	8331	8153	19573	8794
NUGGET 6_31 FED COM 22H	10400098125	873	873	7962	7962	19400	8679
NUGGET 6_31 FED COM 23H	10400098234	880	880	8192	8160	18836	8794

2. Review Criteria Table

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-Q 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. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	543	543	
Salado	919	919	Salt
Marker Bed 126	2000	2000	Salt
Castile	2758	2758	Salt
Delaware	4185	4185	Oil/Gas/Brine
Bell Canyon	4215	4215	Oil/Gas/Brine
Cherry Canyon	5124	5108	Oil/Gas/Brine
Brushy Canyon	6446	6365	Losses
Bone Spring	8221	8053	Oil/Gas
Bone Spring 1st			Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

4. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	719	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	219	1.68	13.2	5%	6,696	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1034	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	7,831	Circulate	Class C+Ret.

OXY APD CHANGE SUNDRY LIST FORM

AFMSS Blurb

DATE SUNDRY WORKSHEET CREATED	6/24/2025
WELL NAME, NUMBER	NUGGET 6_31 FEDERAL COM 23H
API NUMBER	30-015-5600
ESTIMATED SPUD DATE	4/1/2026

PLEASE SEE ATTACHED OXY APD CHANGE SUNDRY LIST THAT HIGHLIGHTS CHANGES AND ATTACHMENTS. GENERAL CHANGE DOCUMENTS ARE COMBINED INTO 1 PDF FILE AND WELL SPECIFIC DOCUMENTS ARE INDIVIDUAL ATTACHMENTS.

ITEM		APD BASE LINE (For Regulatory to Complete)										SUNDRY PLAN (Groups to complete the latest plan)									
Surface Planning	NAME	Date APD/BASE LINE APPROVED: NUGGET 6_31 FEDERAL COM 23H										DATE Sundry Worksheet : NUGGET 6_31 FEDERAL COM 23H									
	NSL	NO										NO									
	SHL	NENW 294' FNL & 1852' FWL										NENW 419' FNL & 1792' FWL									
	PAD	SNDDNS_24531E_7_2										SNDDNS_24531E_7_2									
	DHL	NENW 20' FNL & 2015' FWL										NENW 620' FNL & 2200' FWL									
	HSU SIZE, ACRES	655										655									
	POOL	COTTON DRAW; BONE SPRING										COTTON DRAW; BONE SPRING									
Drilling	TVD	8.700										8.794									
	TARGET FORMATION	BONE SPRING										BONE SPRING									
	CASING PROGRAM	APD BASE LINE										SUNDRY PLAN									
		Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT	Grade	Conn.			Section	Hole Size (in.)	MD	TVD	Csg OD (in)	Csg WT (ppf)	Grade	Conn.		
		Surface	14.75	876	876	10.75	45.5	J-55	BTC			Surface	14.75	880	880	10.75	45.5	J-55	BTC		
		Int	9.875	8002	8002	7.625	26.4	L-80 HC	BTC			Int	9.875	8192	8160	7.625	26.4	L-80 HC	BTC		
		Int2										Int2									
	CEMENT PROGRAM	Prod	6.75	19314	8700	5.5	20	P-110	WEDGE 461			Prod	6.75	18836	8794	5.5	20	P-110	DWC/C-HT-15		
		Liner										Liner									
		APD BASE LINE										SUNDRY PLAN									
		Section/Stage	Slurry	Sacks	Yield (ft³/ft)	Density (lb/gal)	Excess	TOC	Placement	Description		Section/Stage	Slurry	Sacks	Yield (ft³/ft)	Density (lb/gal)	Excess	TOC	Placement	Description	
		Surf	SURFACE- TAIL	733	1.53	14.8	100%	0	CIRCULATE	CLASS C+ ACCEL		Surf	SURFACE- TAIL	736	1.33	14.8	100%	0	CIRCULATE	CLASS C+ ACCEL	
VARIANCES	APD BASE LINE	Int/1	INTERMEDIATE 15'- TAIL	187	1.65	13.2	5%	6.632	CIRCULATE	CLASS H+ ACCEL, DISPER, SALT		Int	INTERMEDIATE 15'- TAIL	208	1.68	13.2	5%	6.639	CIRCULATE	CLASS C+ RET, DISPER	
		Int/2	INTERMEDIATE 25'- TAIL BH	1023	1.71	13.3	25%	0	BRADENHEAD	CLASS C+ ACCEL		Int	INTERMEDIATE 25'- TAIL BH	1024	1.71	13.3	25%	0	BRADENHEAD	CLASS C+ ACCEL	
		Int2										Int2									
		Prod	PRODUCTION- TAIL	669	1.84	13.3	25%	7.502	CIRCULATE	CLASS C+ RET.		Prod	PRODUCTION- TAIL	631	1.84	13.3	25%	7.692	CIRCULATE	CLASS C+ RET.	
		APD BASE LINE										SUNDRY PLAN									
	VARIANCES	BOP Break Tesing Variance	Y									BOP Break Tesing Variance	Y								
		SM Annular BOP Variance										SM Annular BOP Variance									
		Bradenhead CBL Variance	Y									Bradenhead CBL Variance	Y								
		Offline Cementing Variance	Y									Offline Cementing Variance	Y								
		Production Annular Clearance Variance	Y									Production Annular Clearance Variance	Y								
	VARIANCES	Flexible Choke Line Variance										Flexible Choke Line Variance									
		(Pilot Hole, Logs etc.)										(Pilot Hole, Logs etc.)									

Note- Only fill out what item is changing. The other cells can be left blank.

VERSION DATE 6/20/2024

Section	Hole Size (in.)	MD (ft)	TVD (ft)	Csg OD (in)	Csg WT (ppf)	Grade	Conn.
Surface							
Int							
Int2							
Prod							
Liner							

Section	Stage	Slurry	Sacks	Yield (ft ³ /ft)	Density (lb/gal)	Excess	TOC	Placement
Surf								
Int								
Int								
Int2								
Int2								
Prod								

Description

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 524797

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 524797
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	12/4/2025