

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

Form C-101
August 1, 2011

Permit 384869

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Texas Standard Operating NM LLC 3300 North A Street Midland, TX 79705		2. OGRID Number 329818
4. Property Code 337077		3. API Number 30-025-54460
5. Property Name TXS Big Dog State Com		6. Well No. 101H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	7	18S	36E		900	S	1330	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	6	18S	36E	3	50	N	1980	W	Lea

9. Pool Information

WC-025 G-09 S173615C;UPPER PENN	98333
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3867
16. Multiple N	17. Proposed Depth 21753	18. Formation Upper Pennsylvanian Undesignated	19. Contractor	20. Spud Date 3/28/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	2000	1200	0
Int1	12.25	9.625	43.5	10600	2000	0
Prod	8.5	5.5	23	21753	2500	8300

Casing/Cement Program: Additional Comments

Surface casing fluid is Fresh Water/Spud Mud; Intermediate casing fluid is Brine/Cut Brine. Casing grade for intermediate casing is HCP-110; casing grade for Production casing is HCP-110 CY. A Pilot Hole will be drilled to 12,000' and then plugged back to drill the lateral.
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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron
Annular	5000	2500	Shafer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Craig E Young	Approved By: Matthew Gomez
Title: VP Operations	Title:
Email Address: craig@txsoil.com	Approved Date: 3/5/2025 Expiration Date: 3/5/2027
Date: 3/4/2025 Phone: 432-693-6674	Conditions of Approval Attached

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number	30-025-54460	Pool Code	98333	Pool Name	WC-025 G-09 S173615C;UPPER PENN	
Property Code	337077	Property Name	TXS BIG DOG STATE COM		Well Number	101H
OGRID No.	329818	Operator Name	TEXAS STANDARD OPERATING NM LLC		Ground Level Elevation	3867'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal				Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	7	18S	36E		900 FSL	1330 FWL	32.7572773°N	103.3979386°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	6	18S	36E	3	50 FNL	1980 FWL	32.7837555°N	103.3959147°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320.22				
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	7	18S	36E		900 FSL	1330 FWL	32.7572773°N	103.3979386°W	LEA


First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	7	18S	36E		100 FSL	1980 FWL	32.7550756°N	103.3958200°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	6	18S	36E	3	100 FNL	1980 FWL	32.7836181°N	103.3959140°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATIONS <i>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.</i> <i>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.</i>		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i>	
Signature <i>Timothy M. Roberson</i> 3/1/25		Signature and Seal of Professional Surveyor 	
Printed Name <i>Timothy M. Roberson, President</i>		Certificate Number 14400	Date of Survey 02/25/2025
Email Address <i>tim@Txsoil.com</i>			

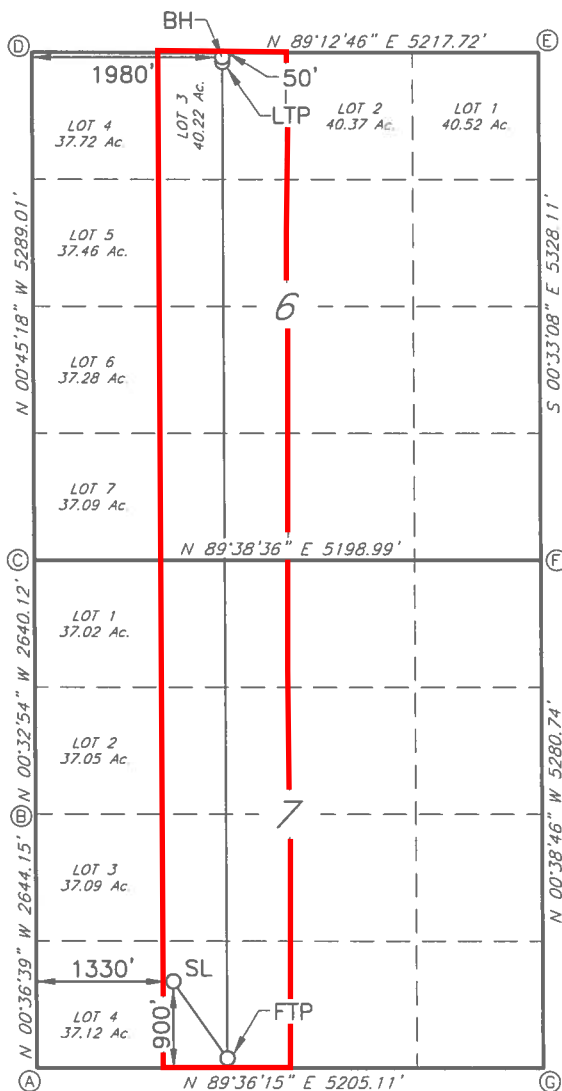
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

TXS BIG DOG STATE #101H



GEODETIC DATA
 NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
 N: 640499.5 - E: 828895.5

LAT: 32.7572773° N
 LONG: 103.3979386° W

FIRST TAKE POINT (FTP)
 N: 639704.2 - E: 829554.0

LAT: 32.7550756° N
 LONG: 103.3958200° W

LAST TAKE POINT (LTP)
 N: 650088.7 - E: 829433.1

LAT: 32.7836181° N
 LONG: 103.3959140° W

BOTTOM HOLE (BH)
 N: 650138.6 - E: 829432.4

LAT: 32.7837555° N
 LONG: 103.3959147° W

CORNER DATA
 NAD 83 GRID - NM EAST

A: FOUND 1/2" REBAR
 N: 639590.6 - E: 827575.4

B: FOUND SPIKE NAIL
 N: 642234.1 - E: 827547.2

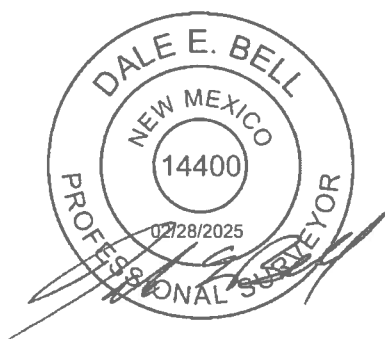
C: FOUND FENCE CORNER
 N: 644873.7 - E: 827522.0

D: FOUND SPIKE NAIL
 N: 650161.4 - E: 827452.3

E: CALCULATED CORNER
 N: 650233.1 - E: 832668.7

F: FOUND RAIL ROAD SPIKE
 N: 644906.1 - E: 832720.0

G: FOUND RAIL ROAD SPIKE
 N: 639626.5 - E: 832779.6



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

Form APD Conditions

Permit 384869

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Texas Standard Operating NM LLC [329818] 3300 North A Street Midland, TX 79705	API Number: 30-025-54460
	Well: TXS Big Dog State Com #101H

OCD Reviewer	Condition
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.
matthew.gomez	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
matthew.gomez	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.
matthew.gomez	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.

Company Name: Texas Standard Operating NM LLC.
TXS Big Dog Exploratory Unit #102H
Lea County New Mexico
Rig:
Created By: Shane Robbins
Date: 1/7/2025

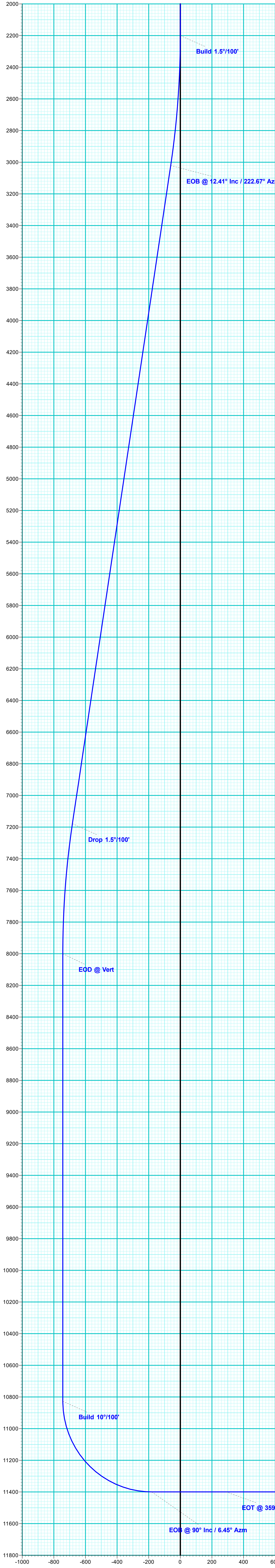
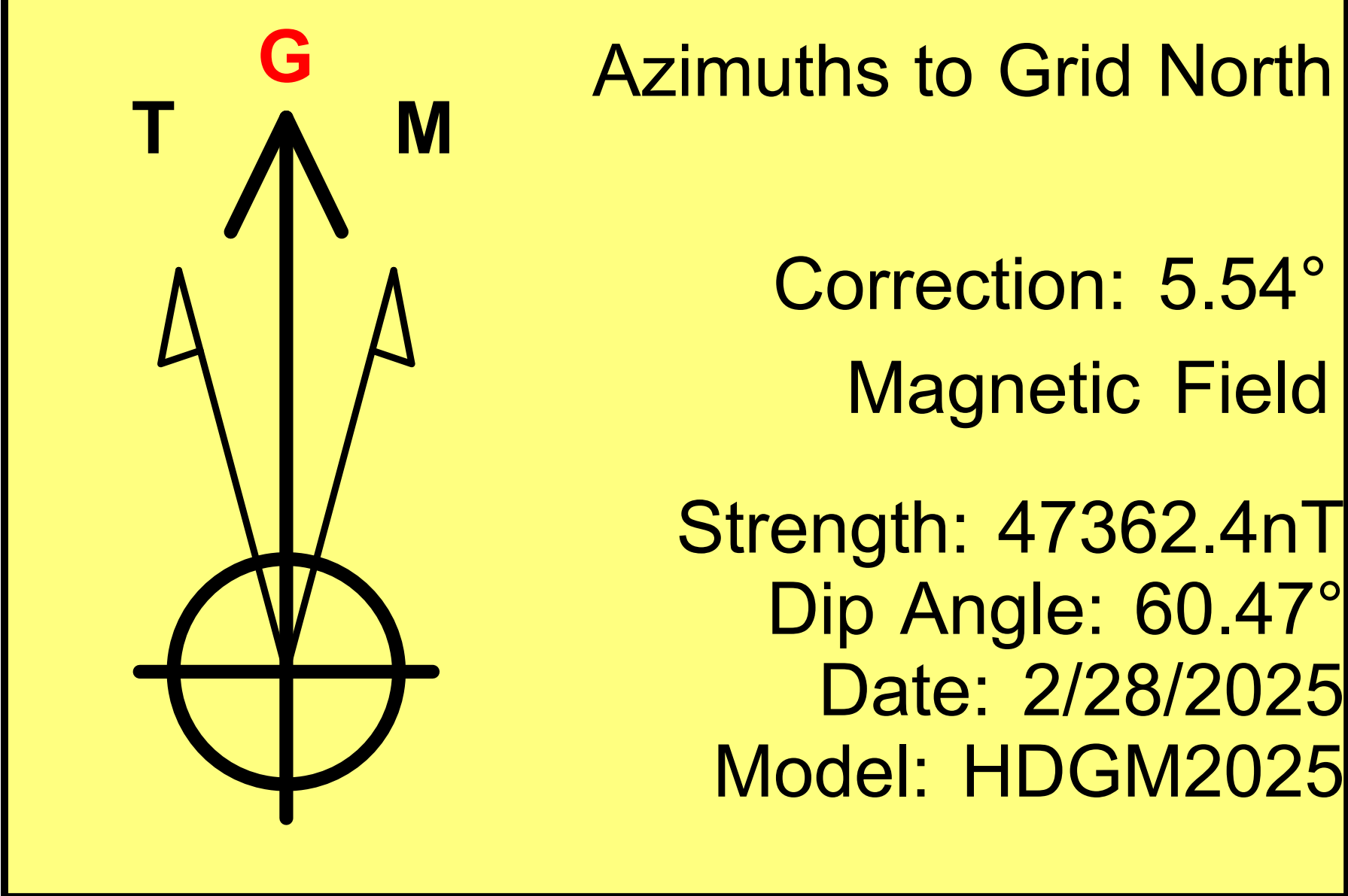
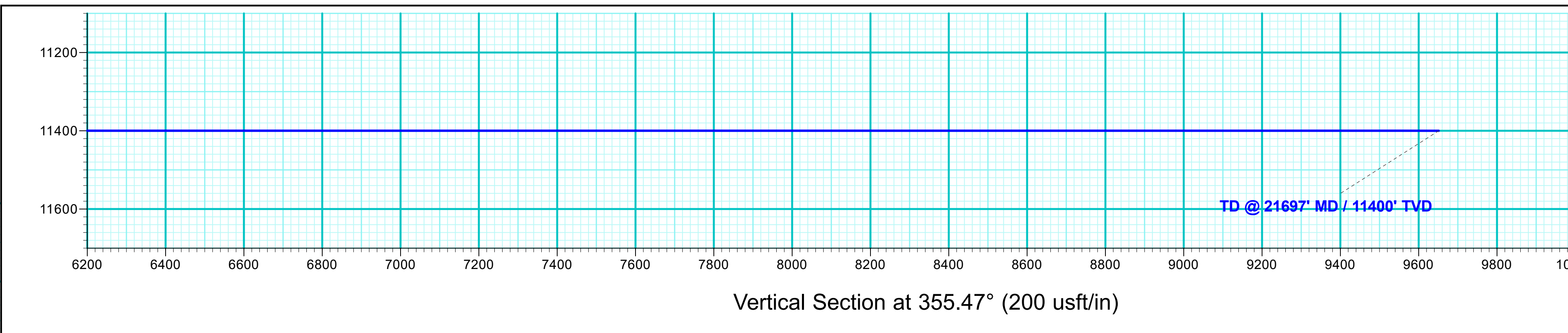
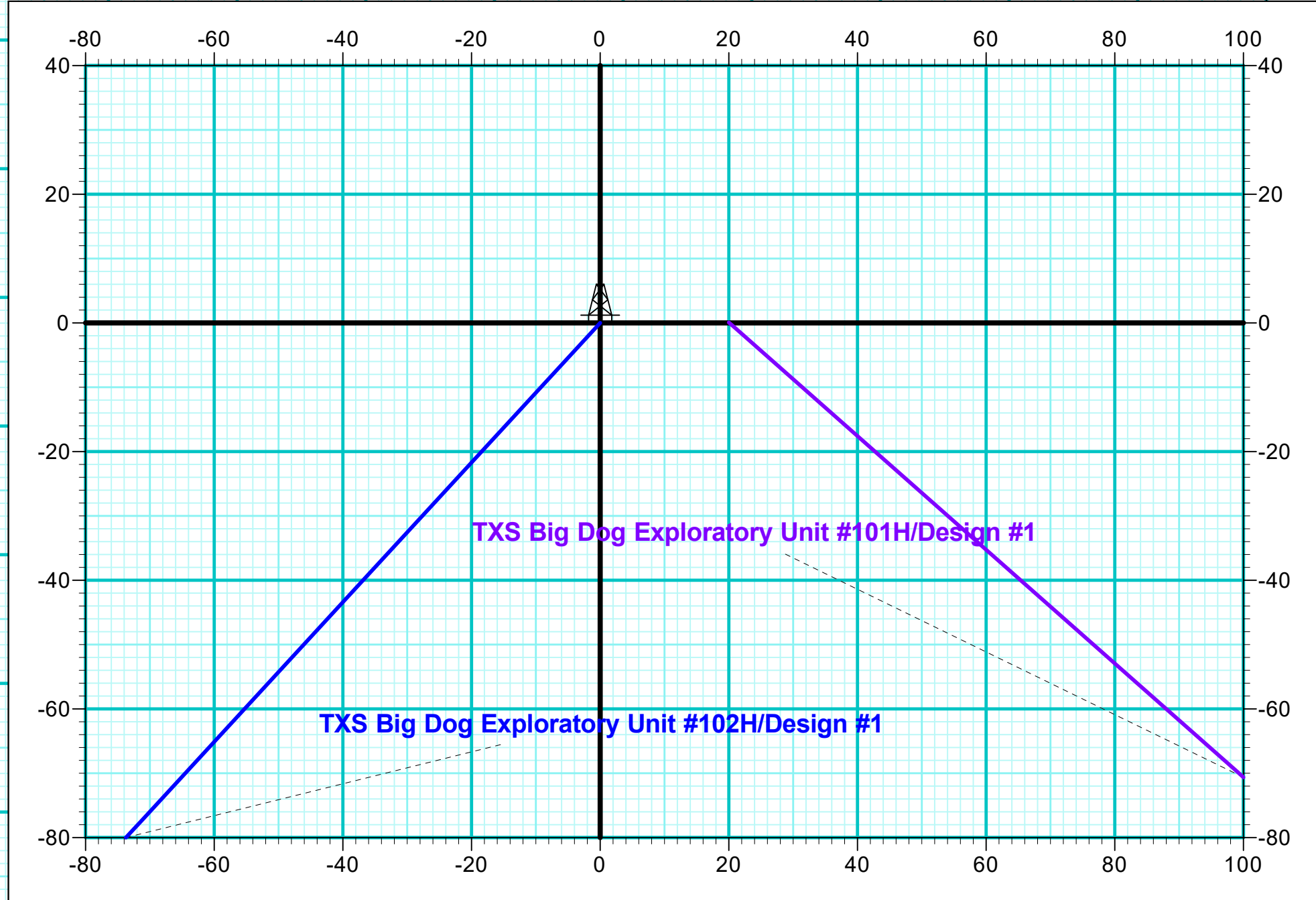
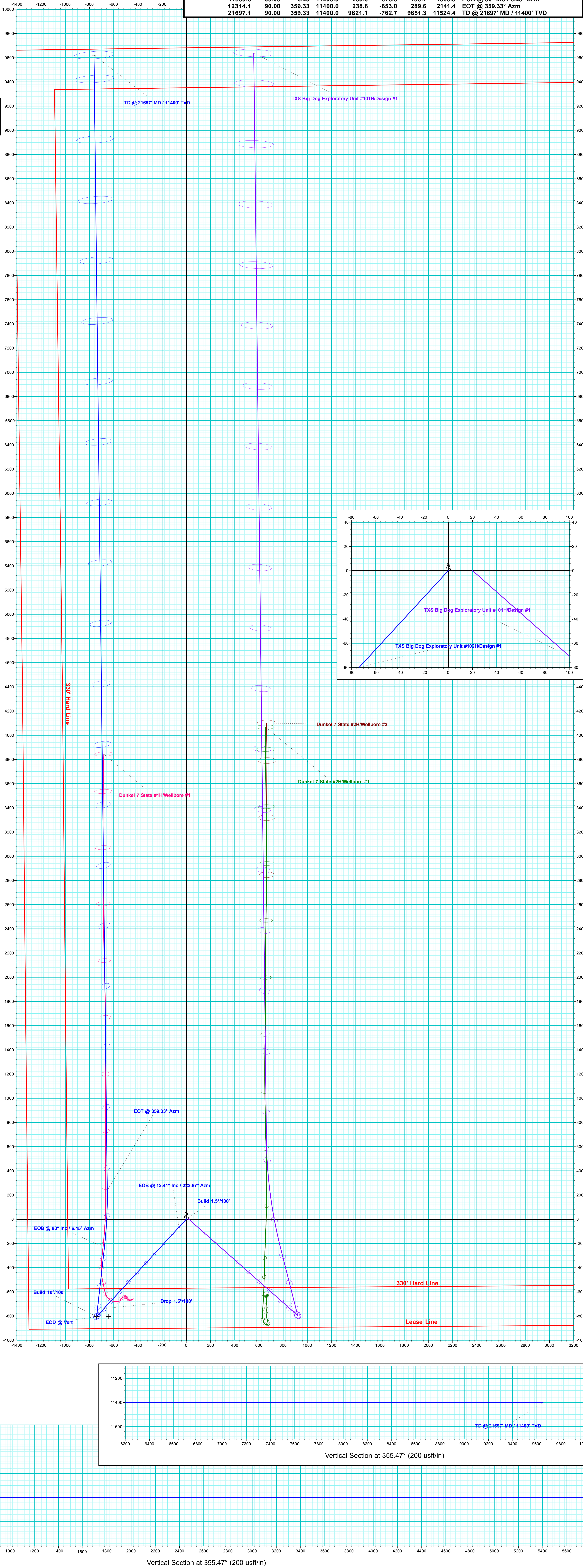
TXS Big Dog Exploratory Unit #102H
Lea County New Mexico
Q250*** & WT-250***
Design #1

PROJECT DETAILS: Lea County New Mexico
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: TXS Big Dog Exploratory Unit #102H
3867.0
+N/-S 0.0 +E/-W 0.0 Northing 640499.40 Easting 828875.50 Latitude 32° 45' 26.199 N Longitude 103° 23' 52.814 W



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
2200.0	0.00	0.00	2200.0	0.0	0.0	0.0	0.0	Build 1.5"/100'	
3027.6	12.41	222.67	3021.1	-65.7	-60.5	-60.7	89.3	EOB @ 12.41° Inc / 222.67° Azm	
7284.9	12.41	222.67	7178.9	-738.6	-680.8	-682.5	1004.5	Drop 1.5"/100'	
8112.5	0.00	0.00	8000.0	-804.3	-741.3	-743.2	1093.8	EOD @ Vert	
10839.5	0.00	0.00	10827.0	-804.3	-741.3	-743.2	1093.8	Build 10"/100'	
11839.5	90.00	6.45	11400.0	-235.0	-676.9	-180.7	1666.8	EOB @ 90° Inc / 6.45° Azm	
12314.1	90.00	359.33	11400.0	238.8	-653.0	289.6	2141.4	EOT @ 359.33° Azm	
21697.1	90.00	359.33	11400.0	9621.1	-762.7	9651.3	11524.4	TD @ 21697° MD / 11400' TVD	





Texas Standard Operating NM LLC.

Lea County New Mexico

Sec 7, T18S, R36E

TXS Big Dog Exploratory Unit #101H

Wellbore #1

Plan: Design #1

KLX Well Planning Report

01 March, 2025





Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well TXS Big Dog Exploratory Unit #101H
Company:	Texas Standard Operating NM LLC.	TVD Reference:	WELL @ 3892.0usft
Project:	Lea County New Mexico	MD Reference:	WELL @ 3892.0usft
Site:	Sec 7, T18S, R36E	North Reference:	Grid
Well:	TXS Big Dog Exploratory Unit #101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County New Mexico		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 7, T18S, R36E				
Site Position:		Northing:	640,499.50 usft	Latitude:	32° 45' 26.198 N
From:	Map	Easting:	828,895.50 usft	Longitude:	103° 23' 52.580 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.51 °

Well	TXS Big Dog Exploratory Unit #101H					
Well Position	+N/-S	0.0 usft	Northing:	640,499.50 usft	Latitude:	32° 45' 26.198 N
	+E/-W	0.0 usft	Easting:	828,895.50 usft	Longitude:	103° 23' 52.580 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,867.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	2/28/2025	6.05	60.47	47,362.40000000

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	3.19

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,123.2	13.85	131.47	3,114.2	-73.5	83.2	1.50	1.50	0.00	131.47	
7,213.6	13.85	131.47	7,085.8	-721.8	816.8	0.00	0.00	0.00	0.00	
8,136.8	0.00	0.00	8,000.0	-795.3	900.0	1.50	-1.50	0.00	180.00	VP TXS Big Dog Ex
10,963.8	0.00	0.00	10,827.0	-795.3	900.0	0.00	0.00	0.00	0.00	
11,863.8	90.00	345.75	11,400.0	-240.0	759.0	10.00	10.00	0.00	345.75	
12,769.3	90.00	359.33	11,400.0	655.7	641.7	1.50	0.00	1.50	90.00	
21,753.3	90.00	359.33	11,400.0	9,639.1	536.9	0.00	0.00	0.00	0.00	PBHL Big Dog 101H



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well TXS Big Dog Exploratory Unit #101H
Company:	Texas Standard Operating NM LLC.	TVD Reference:	WELL @ 3892.0usft
Project:	Lea County New Mexico	MD Reference:	WELL @ 3892.0usft
Site:	Sec 7, T18S, R36E	North Reference:	Grid
Well:	TXS Big Dog Exploratory Unit #101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 1.5°/100'									
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	1.50	131.47	2,300.0	-0.9	1.0	-0.8	1.50	1.50	0.00
2,400.0	3.00	131.47	2,399.9	-3.5	3.9	-3.2	1.50	1.50	0.00
2,500.0	4.50	131.47	2,499.7	-7.8	8.8	-7.3	1.50	1.50	0.00
2,600.0	6.00	131.47	2,599.3	-13.9	15.7	-13.0	1.50	1.50	0.00
2,700.0	7.50	131.47	2,698.6	-21.6	24.5	-20.2	1.50	1.50	0.00
2,800.0	9.00	131.47	2,797.5	-31.1	35.2	-29.1	1.50	1.50	0.00
2,900.0	10.50	131.47	2,896.1	-42.4	47.9	-39.6	1.50	1.50	0.00
3,000.0	12.00	131.47	2,994.2	-55.3	62.5	-51.7	1.50	1.50	0.00
3,100.0	13.50	131.47	3,091.7	-69.9	79.1	-65.4	1.50	1.50	0.00
EOB @ 13.85° Inc / 131.47° Azm									
3,123.2	13.85	131.47	3,114.2	-73.5	83.2	-68.8	1.50	1.50	0.00
3,200.0	13.85	131.47	3,188.8	-85.7	97.0	-80.2	0.00	0.00	0.00
3,300.0	13.85	131.47	3,285.9	-101.5	114.9	-95.0	0.00	0.00	0.00
3,400.0	13.85	131.47	3,383.0	-117.4	132.8	-109.8	0.00	0.00	0.00
3,500.0	13.85	131.47	3,480.1	-133.2	150.8	-124.6	0.00	0.00	0.00
3,600.0	13.85	131.47	3,577.2	-149.1	168.7	-139.5	0.00	0.00	0.00
3,700.0	13.85	131.47	3,674.3	-164.9	186.6	-154.3	0.00	0.00	0.00
3,800.0	13.85	131.47	3,771.4	-180.8	204.6	-169.1	0.00	0.00	0.00
3,900.0	13.85	131.47	3,868.5	-196.6	222.5	-183.9	0.00	0.00	0.00
4,000.0	13.85	131.47	3,965.6	-212.5	240.4	-198.8	0.00	0.00	0.00
4,100.0	13.85	131.47	4,062.6	-228.3	258.4	-213.6	0.00	0.00	0.00
4,200.0	13.85	131.47	4,159.7	-244.2	276.3	-228.4	0.00	0.00	0.00
4,300.0	13.85	131.47	4,256.8	-260.0	294.3	-243.3	0.00	0.00	0.00
4,400.0	13.85	131.47	4,353.9	-275.9	312.2	-258.1	0.00	0.00	0.00
4,500.0	13.85	131.47	4,451.0	-291.7	330.1	-272.9	0.00	0.00	0.00
4,600.0	13.85	131.47	4,548.1	-307.6	348.1	-287.7	0.00	0.00	0.00
4,700.0	13.85	131.47	4,645.2	-323.4	366.0	-302.6	0.00	0.00	0.00
4,800.0	13.85	131.47	4,742.3	-339.3	383.9	-317.4	0.00	0.00	0.00
4,900.0	13.85	131.47	4,839.4	-355.1	401.9	-332.2	0.00	0.00	0.00
5,000.0	13.85	131.47	4,936.5	-371.0	419.8	-347.0	0.00	0.00	0.00



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well TXS Big Dog Exploratory Unit #101H
Company:	Texas Standard Operating NM LLC.	TVD Reference:	WELL @ 3892.0usft
Project:	Lea County New Mexico	MD Reference:	WELL @ 3892.0usft
Site:	Sec 7, T18S, R36E	North Reference:	Grid
Well:	TXS Big Dog Exploratory Unit #101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	13.85	131.47	5,033.6	-386.8	437.7	-361.9	0.00	0.00	0.00	
5,200.0	13.85	131.47	5,130.7	-402.7	455.7	-376.7	0.00	0.00	0.00	
5,300.0	13.85	131.47	5,227.8	-418.5	473.6	-391.5	0.00	0.00	0.00	
5,400.0	13.85	131.47	5,324.9	-434.4	491.5	-406.3	0.00	0.00	0.00	
5,500.0	13.85	131.47	5,422.0	-450.2	509.5	-421.2	0.00	0.00	0.00	
5,600.0	13.85	131.47	5,519.1	-466.1	527.4	-436.0	0.00	0.00	0.00	
5,700.0	13.85	131.47	5,616.1	-481.9	545.3	-450.8	0.00	0.00	0.00	
5,800.0	13.85	131.47	5,713.2	-497.7	563.3	-465.7	0.00	0.00	0.00	
5,900.0	13.85	131.47	5,810.3	-513.6	581.2	-480.5	0.00	0.00	0.00	
6,000.0	13.85	131.47	5,907.4	-529.4	599.1	-495.3	0.00	0.00	0.00	
6,100.0	13.85	131.47	6,004.5	-545.3	617.1	-510.1	0.00	0.00	0.00	
6,200.0	13.85	131.47	6,101.6	-561.1	635.0	-525.0	0.00	0.00	0.00	
6,300.0	13.85	131.47	6,198.7	-577.0	653.0	-539.8	0.00	0.00	0.00	
6,400.0	13.85	131.47	6,295.8	-592.8	670.9	-554.6	0.00	0.00	0.00	
6,500.0	13.85	131.47	6,392.9	-608.7	688.8	-569.4	0.00	0.00	0.00	
6,600.0	13.85	131.47	6,490.0	-624.5	706.8	-584.3	0.00	0.00	0.00	
6,700.0	13.85	131.47	6,587.1	-640.4	724.7	-599.1	0.00	0.00	0.00	
6,800.0	13.85	131.47	6,684.2	-656.2	742.6	-613.9	0.00	0.00	0.00	
6,900.0	13.85	131.47	6,781.3	-672.1	760.6	-628.7	0.00	0.00	0.00	
7,000.0	13.85	131.47	6,878.4	-687.9	778.5	-643.6	0.00	0.00	0.00	
7,100.0	13.85	131.47	6,975.5	-703.8	796.4	-658.4	0.00	0.00	0.00	
7,200.0	13.85	131.47	7,072.5	-719.6	814.4	-673.2	0.00	0.00	0.00	
Drop 1.5°/100'										
7,213.6	13.85	131.47	7,085.8	-721.8	816.8	-675.2	0.00	0.00	0.00	
7,300.0	12.55	131.47	7,169.9	-734.8	831.6	-687.5	1.50	-1.50	0.00	
7,400.0	11.05	131.47	7,267.8	-748.4	846.9	-700.1	1.50	-1.50	0.00	
7,500.0	9.55	131.47	7,366.1	-760.2	860.3	-711.2	1.50	-1.50	0.00	
7,600.0	8.05	131.47	7,465.0	-770.4	871.8	-720.7	1.50	-1.50	0.00	
7,700.0	6.55	131.47	7,564.1	-778.8	881.3	-728.6	1.50	-1.50	0.00	
7,800.0	5.05	131.47	7,663.6	-785.5	888.9	-734.8	1.50	-1.50	0.00	
7,900.0	3.55	131.47	7,763.3	-790.4	894.5	-739.5	1.50	-1.50	0.00	
8,000.0	2.05	131.47	7,863.2	-793.7	898.2	-742.5	1.50	-1.50	0.00	
8,100.0	0.55	131.47	7,963.2	-795.2	899.9	-743.9	1.50	-1.50	0.00	
EOD @ Vert										
8,136.8	0.00	0.00	8,000.0	-795.3	900.0	-744.0	1.50	-1.50	0.00	
8,200.0	0.00	0.00	8,063.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,163.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,263.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,363.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,463.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,563.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,663.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,763.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,863.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,963.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,063.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,163.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,263.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,363.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,463.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,563.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,663.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,763.2	-795.3	900.0	-744.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,863.2	-795.3	900.0	-744.0	0.00	0.00	0.00	



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well TXS Big Dog Exploratory Unit #101H
Company:	Texas Standard Operating NM LLC.	TVD Reference:	WELL @ 3892.0usft
Project:	Lea County New Mexico	MD Reference:	WELL @ 3892.0usft
Site:	Sec 7, T18S, R36E	North Reference:	Grid
Well:	TXS Big Dog Exploratory Unit #101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.0	0.00	0.00	9,963.2	-795.3	900.0	-744.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,063.2	-795.3	900.0	-744.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,163.2	-795.3	900.0	-744.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,263.2	-795.3	900.0	-744.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,363.2	-795.3	900.0	-744.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,463.2	-795.3	900.0	-744.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,563.2	-795.3	900.0	-744.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,663.2	-795.3	900.0	-744.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,763.2	-795.3	900.0	-744.0	0.00	0.00	0.00
Build 10°/100'									
10,963.8	0.00	0.00	10,827.0	-795.3	900.0	-744.0	0.00	0.00	0.00
11,000.0	3.62	345.75	10,863.2	-794.2	899.7	-742.9	10.00	10.00	0.00
11,050.0	8.62	345.75	10,912.9	-789.0	898.4	-737.8	10.00	10.00	0.00
11,100.0	13.62	345.75	10,961.9	-779.7	896.0	-728.6	10.00	10.00	0.00
11,150.0	18.62	345.75	11,009.9	-766.2	892.6	-715.4	10.00	10.00	0.00
11,200.0	23.62	345.75	11,056.6	-748.8	888.2	-698.2	10.00	10.00	0.00
11,250.0	28.62	345.75	11,101.4	-727.5	882.8	-677.2	10.00	10.00	0.00
11,300.0	33.62	345.75	11,144.2	-702.4	876.4	-652.6	10.00	10.00	0.00
11,350.0	38.62	345.75	11,184.6	-673.9	869.2	-624.5	10.00	10.00	0.00
11,400.0	43.62	345.75	11,222.3	-642.0	861.1	-593.1	10.00	10.00	0.00
11,450.0	48.62	345.75	11,256.9	-607.1	852.2	-558.7	10.00	10.00	0.00
11,500.0	53.62	345.75	11,288.3	-569.4	842.6	-521.6	10.00	10.00	0.00
11,550.0	58.62	345.75	11,316.1	-529.1	832.4	-482.0	10.00	10.00	0.00
11,600.0	63.62	345.75	11,340.3	-486.7	821.6	-440.3	10.00	10.00	0.00
11,650.0	68.62	345.75	11,360.5	-442.4	810.4	-396.7	10.00	10.00	0.00
11,700.0	73.62	345.75	11,376.7	-396.6	798.7	-351.6	10.00	10.00	0.00
11,750.0	78.62	345.75	11,388.7	-349.6	786.8	-305.3	10.00	10.00	0.00
11,800.0	83.62	345.75	11,396.4	-301.7	774.6	-258.1	10.00	10.00	0.00
11,850.0	88.62	345.75	11,399.8	-253.4	762.4	-210.6	10.00	10.00	0.00
EOB @ 90° Inc / 345.75° Azm									
11,863.8	90.00	345.75	11,400.0	-240.0	759.0	-197.4	10.00	10.00	0.00
11,900.0	90.00	346.29	11,400.0	-204.9	750.2	-162.8	1.50	0.00	1.50
12,000.0	90.00	347.79	11,400.0	-107.4	727.8	-66.8	1.50	0.00	1.50
12,100.0	90.00	349.29	11,400.0	-9.4	707.9	30.0	1.50	0.00	1.50
12,200.0	90.00	350.79	11,400.0	89.1	690.6	127.4	1.50	0.00	1.50
12,300.0	90.00	352.29	11,400.0	188.0	675.9	225.3	1.50	0.00	1.50
12,400.0	90.00	353.79	11,400.0	287.3	663.8	323.7	1.50	0.00	1.50
12,500.0	90.00	355.29	11,400.0	386.8	654.3	422.6	1.50	0.00	1.50
12,600.0	90.00	356.79	11,400.0	486.6	647.4	521.8	1.50	0.00	1.50
12,700.0	90.00	358.29	11,400.0	586.5	643.1	621.3	1.50	0.00	1.50
EOT @ 359.33° Azm									
12,769.3	90.00	359.33	11,400.0	655.7	641.7	690.4	1.50	0.00	1.50
12,800.0	90.00	359.33	11,400.0	686.5	641.3	721.1	0.00	0.00	0.00
12,900.0	90.00	359.33	11,400.0	786.4	640.2	820.8	0.00	0.00	0.00
13,000.0	90.00	359.33	11,400.0	886.4	639.0	920.6	0.00	0.00	0.00
13,100.0	90.00	359.33	11,400.0	986.4	637.8	1,020.4	0.00	0.00	0.00
13,200.0	90.00	359.33	11,400.0	1,086.4	636.7	1,120.2	0.00	0.00	0.00
13,300.0	90.00	359.33	11,400.0	1,186.4	635.5	1,219.9	0.00	0.00	0.00
13,400.0	90.00	359.33	11,400.0	1,286.4	634.3	1,319.7	0.00	0.00	0.00
13,500.0	90.00	359.33	11,400.0	1,386.4	633.2	1,419.5	0.00	0.00	0.00
13,600.0	90.00	359.33	11,400.0	1,486.4	632.0	1,519.2	0.00	0.00	0.00
13,700.0	90.00	359.33	11,400.0	1,586.4	630.8	1,619.0	0.00	0.00	0.00
13,800.0	90.00	359.33	11,400.0	1,686.4	629.7	1,718.8	0.00	0.00	0.00



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well TXS Big Dog Exploratory Unit #101H
Company:	Texas Standard Operating NM LLC.	TVD Reference:	WELL @ 3892.0usft
Project:	Lea County New Mexico	MD Reference:	WELL @ 3892.0usft
Site:	Sec 7, T18S, R36E	North Reference:	Grid
Well:	TXS Big Dog Exploratory Unit #101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,900.0	90.00	359.33	11,400.0	1,786.4	628.5	1,818.6	0.00	0.00	0.00	
14,000.0	90.00	359.33	11,400.0	1,886.4	627.3	1,918.3	0.00	0.00	0.00	
14,100.0	90.00	359.33	11,400.0	1,986.4	626.2	2,018.1	0.00	0.00	0.00	
14,200.0	90.00	359.33	11,400.0	2,086.4	625.0	2,117.9	0.00	0.00	0.00	
14,300.0	90.00	359.33	11,400.0	2,186.4	623.8	2,217.7	0.00	0.00	0.00	
14,400.0	90.00	359.33	11,400.0	2,286.3	622.7	2,317.4	0.00	0.00	0.00	
14,500.0	90.00	359.33	11,400.0	2,386.3	621.5	2,417.2	0.00	0.00	0.00	
14,600.0	90.00	359.33	11,400.0	2,486.3	620.3	2,517.0	0.00	0.00	0.00	
14,700.0	90.00	359.33	11,400.0	2,586.3	619.2	2,616.8	0.00	0.00	0.00	
14,800.0	90.00	359.33	11,400.0	2,686.3	618.0	2,716.5	0.00	0.00	0.00	
14,900.0	90.00	359.33	11,400.0	2,786.3	616.8	2,816.3	0.00	0.00	0.00	
15,000.0	90.00	359.33	11,400.0	2,886.3	615.7	2,916.1	0.00	0.00	0.00	
15,100.0	90.00	359.33	11,400.0	2,986.3	614.5	3,015.9	0.00	0.00	0.00	
15,200.0	90.00	359.33	11,400.0	3,086.3	613.3	3,115.6	0.00	0.00	0.00	
15,300.0	90.00	359.33	11,400.0	3,186.3	612.2	3,215.4	0.00	0.00	0.00	
15,400.0	90.00	359.33	11,400.0	3,286.3	611.0	3,315.2	0.00	0.00	0.00	
15,500.0	90.00	359.33	11,400.0	3,386.3	609.8	3,414.9	0.00	0.00	0.00	
15,600.0	90.00	359.33	11,400.0	3,486.3	608.7	3,514.7	0.00	0.00	0.00	
15,700.0	90.00	359.33	11,400.0	3,586.3	607.5	3,614.5	0.00	0.00	0.00	
15,800.0	90.00	359.33	11,400.0	3,686.3	606.3	3,714.3	0.00	0.00	0.00	
15,900.0	90.00	359.33	11,400.0	3,786.2	605.2	3,814.0	0.00	0.00	0.00	
16,000.0	90.00	359.33	11,400.0	3,886.2	604.0	3,913.8	0.00	0.00	0.00	
16,100.0	90.00	359.33	11,400.0	3,986.2	602.8	4,013.6	0.00	0.00	0.00	
16,200.0	90.00	359.33	11,400.0	4,086.2	601.7	4,113.4	0.00	0.00	0.00	
16,300.0	90.00	359.33	11,400.0	4,186.2	600.5	4,213.1	0.00	0.00	0.00	
16,400.0	90.00	359.33	11,400.0	4,286.2	599.3	4,312.9	0.00	0.00	0.00	
16,500.0	90.00	359.33	11,400.0	4,386.2	598.2	4,412.7	0.00	0.00	0.00	
16,600.0	90.00	359.33	11,400.0	4,486.2	597.0	4,512.5	0.00	0.00	0.00	
16,700.0	90.00	359.33	11,400.0	4,586.2	595.8	4,612.2	0.00	0.00	0.00	
16,800.0	90.00	359.33	11,400.0	4,686.2	594.7	4,712.0	0.00	0.00	0.00	
16,900.0	90.00	359.33	11,400.0	4,786.2	593.5	4,811.8	0.00	0.00	0.00	
17,000.0	90.00	359.33	11,400.0	4,886.2	592.3	4,911.6	0.00	0.00	0.00	
17,100.0	90.00	359.33	11,400.0	4,986.2	591.2	5,011.3	0.00	0.00	0.00	
17,200.0	90.00	359.33	11,400.0	5,086.2	590.0	5,111.1	0.00	0.00	0.00	
17,300.0	90.00	359.33	11,400.0	5,186.1	588.8	5,210.9	0.00	0.00	0.00	
17,400.0	90.00	359.33	11,400.0	5,286.1	587.7	5,310.6	0.00	0.00	0.00	
17,500.0	90.00	359.33	11,400.0	5,386.1	586.5	5,410.4	0.00	0.00	0.00	
17,600.0	90.00	359.33	11,400.0	5,486.1	585.3	5,510.2	0.00	0.00	0.00	
17,700.0	90.00	359.33	11,400.0	5,586.1	584.2	5,610.0	0.00	0.00	0.00	
17,800.0	90.00	359.33	11,400.0	5,686.1	583.0	5,709.7	0.00	0.00	0.00	
17,900.0	90.00	359.33	11,400.0	5,786.1	581.8	5,809.5	0.00	0.00	0.00	
18,000.0	90.00	359.33	11,400.0	5,886.1	580.7	5,909.3	0.00	0.00	0.00	
18,100.0	90.00	359.33	11,400.0	5,986.1	579.5	6,009.1	0.00	0.00	0.00	
18,200.0	90.00	359.33	11,400.0	6,086.1	578.3	6,108.8	0.00	0.00	0.00	
18,300.0	90.00	359.33	11,400.0	6,186.1	577.2	6,208.6	0.00	0.00	0.00	
18,400.0	90.00	359.33	11,400.0	6,286.1	576.0	6,308.4	0.00	0.00	0.00	
18,500.0	90.00	359.33	11,400.0	6,386.1	574.8	6,408.2	0.00	0.00	0.00	
18,600.0	90.00	359.33	11,400.0	6,486.1	573.7	6,507.9	0.00	0.00	0.00	
18,700.0	90.00	359.33	11,400.0	6,586.1	572.5	6,607.7	0.00	0.00	0.00	
18,800.0	90.00	359.33	11,400.0	6,686.0	571.3	6,707.5	0.00	0.00	0.00	
18,900.0	90.00	359.33	11,400.0	6,786.0	570.2	6,807.2	0.00	0.00	0.00	
19,000.0	90.00	359.33	11,400.0	6,886.0	569.0	6,907.0	0.00	0.00	0.00	
19,100.0	90.00	359.33	11,400.0	6,986.0	567.8	7,006.8	0.00	0.00	0.00	
19,200.0	90.00	359.33	11,400.0	7,086.0	566.7	7,106.6	0.00	0.00	0.00	



Well Planning Report



Database:	KLXDirectional-AD	Local Co-ordinate Reference:	Well TXS Big Dog Exploratory Unit #101H
Company:	Texas Standard Operating NM LLC.	TVD Reference:	WELL @ 3892.0usft
Project:	Lea County New Mexico	MD Reference:	WELL @ 3892.0usft
Site:	Sec 7, T18S, R36E	North Reference:	Grid
Well:	TXS Big Dog Exploratory Unit #101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,300.0	90.00	359.33	11,400.0	7,186.0	565.5	7,206.3	0.00	0.00	0.00	
19,400.0	90.00	359.33	11,400.0	7,286.0	564.3	7,306.1	0.00	0.00	0.00	
19,500.0	90.00	359.33	11,400.0	7,386.0	563.2	7,405.9	0.00	0.00	0.00	
19,600.0	90.00	359.33	11,400.0	7,486.0	562.0	7,505.7	0.00	0.00	0.00	
19,700.0	90.00	359.33	11,400.0	7,586.0	560.9	7,605.4	0.00	0.00	0.00	
19,800.0	90.00	359.33	11,400.0	7,686.0	559.7	7,705.2	0.00	0.00	0.00	
19,900.0	90.00	359.33	11,400.0	7,786.0	558.5	7,805.0	0.00	0.00	0.00	
20,000.0	90.00	359.33	11,400.0	7,886.0	557.4	7,904.8	0.00	0.00	0.00	
20,100.0	90.00	359.33	11,400.0	7,986.0	556.2	8,004.5	0.00	0.00	0.00	
20,200.0	90.00	359.33	11,400.0	8,086.0	555.0	8,104.3	0.00	0.00	0.00	
20,300.0	90.00	359.33	11,400.0	8,185.9	553.9	8,204.1	0.00	0.00	0.00	
20,400.0	90.00	359.33	11,400.0	8,285.9	552.7	8,303.9	0.00	0.00	0.00	
20,500.0	90.00	359.33	11,400.0	8,385.9	551.5	8,403.6	0.00	0.00	0.00	
20,600.0	90.00	359.33	11,400.0	8,485.9	550.4	8,503.4	0.00	0.00	0.00	
20,700.0	90.00	359.33	11,400.0	8,585.9	549.2	8,603.2	0.00	0.00	0.00	
20,800.0	90.00	359.33	11,400.0	8,685.9	548.0	8,702.9	0.00	0.00	0.00	
20,900.0	90.00	359.33	11,400.0	8,785.9	546.9	8,802.7	0.00	0.00	0.00	
21,000.0	90.00	359.33	11,400.0	8,885.9	545.7	8,902.5	0.00	0.00	0.00	
21,100.0	90.00	359.33	11,400.0	8,985.9	544.5	9,002.3	0.00	0.00	0.00	
21,200.0	90.00	359.33	11,400.0	9,085.9	543.4	9,102.0	0.00	0.00	0.00	
21,300.0	90.00	359.33	11,400.0	9,185.9	542.2	9,201.8	0.00	0.00	0.00	
21,400.0	90.00	359.33	11,400.0	9,285.9	541.0	9,301.6	0.00	0.00	0.00	
21,500.0	90.00	359.33	11,400.0	9,385.9	539.9	9,401.4	0.00	0.00	0.00	
21,600.0	90.00	359.33	11,400.0	9,485.9	538.7	9,501.1	0.00	0.00	0.00	
21,700.0	90.00	359.33	11,400.0	9,585.9	537.5	9,600.9	0.00	0.00	0.00	
TD @ 21753' MD / 11400' TVD										
21,753.3	90.00	359.33	11,400.0	9,639.1	536.9	9,654.0	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP BD 101H	0.00	0.00	0.0	-795.3	658.5	639,704.20	829,554.00	32° 45' 18.272 N	103° 23' 44.952 W	
- plan misses target center by 1032.5usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)										
- Point										
VP TXS Big Dog Expl	0.00	0.00	8,000.0	-795.3	900.0	639,704.20	829,795.50	32° 45' 18.251 N	103° 23' 42.124 W	
- plan hits target center										
- Point										
PBHL Big Dog 101H	0.00	0.00	11,400.0	9,639.1	536.9	650,138.60	829,432.40	32° 47' 1.519 N	103° 23' 45.293 W	
- plan hits target center										
- Point										



Well Planning Report



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Project:	Lea County New Mexico	MD Reference:	WELL @ 3892.0usft
Site:	Sec 7, T18S, R36E	North Reference:	Grid
Well:	TXS Big Dog Exploratory Unit #101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,200.0	2,200.0	0.0	0.0	Build 1.5°/100'
3,123.2	3,114.2	-73.5	83.2	EOB @ 13.85° Inc / 131.47° Azm
7,213.6	7,085.8	-721.8	816.8	Drop 1.5°/100'
8,136.8	8,000.0	-795.3	900.0	EOD @ Vert
10,963.8	10,827.0	-795.3	900.0	Build 10°/100'
11,863.8	11,400.0	-240.0	759.0	EOB @ 90° Inc / 345.75° Azm
12,769.3	11,400.0	655.7	641.7	EOT @ 359.33° Azm
21,753.3	11,400.0	9,639.1	536.9	TD @ 21753' MD / 11400' TVD

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Texas Standard Operating NM LLC **OGRID:** 329818 **Date:** 3 / 03 / 25

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
TXS Big Dog State Com #101H		N-7-18S-36E	900' FSL, 1330' FWL	1400	1500	1200
TXS Big Dog State Com #102H		N-7-18S-36E	900' FSL, 1310' FWL	1400	1500	1200

IV. Central Delivery Point Name: State 7-16 CDP [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
TXS Big Dog State Com #101H		3/28/25	5/10/25	7/10/25	9/19/25	9/19/25
TXS Big Dog State Com #102H		5/17/25	6/15/25	7/10/25	9/19/25	9/19/25

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

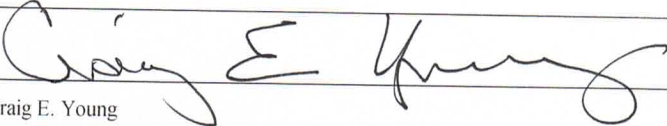
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	Craig E. Young
Title:	Sr. VP Operations
E-mail Address:	Craig@txoil.com
Date:	3/4/25
Phone:	432-693-6674

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

**Attachment To Section 1 Of The Natural Gas Management Plan for Texas Standard Operating NM LLC
TXS Big Dog State Com #101H & TXS Big Dog State Com #102H**

Section VI. Separation Equipment

These two wells will be drilled on the same pad. The pad will have a single battery and metering equipment for each well. It will be a new build facility.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Separation equipment will allow for adequate retention time to allow gas and liquids to separate.
- Separation equipment will separate all three phases (Oil, Water, and Gas).
- Collection systems will be appropriately sized to handle facility production rates on all three phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions, or the need to release gas from the flow stream.

Section VII. Operational Practices as per 19.15.27.8 NMAC Subsections A through F

Subsection A: Texas Standard Operating NM LLC will maximize the recovery of natural gas and minimize the waste of natural gas by properly sizing and maintaining tanks, vessels, and related equipment including thief hatches, enardo valves, flares, and vapor recovery equipment. In all circumstances, Texas Standard shall flare rather than vent natural gas except when flaring is technically infeasible, or when flaring would result a risk to safe operations or personal safety.

Subsection B – Venting and flaring during drilling operations: Texas Standard will capture natural gas coming from the wellbore during drilling operations by routing any gas laden fluids through a mud gas separator with the gas then being routed to a flare stack located at least 100' from the wellbore. In addition, Texas Standard will be drilling the well with fluid sufficiently weighted to minimize the entry of natural gas into the wellbore. Any gas that is flared during the drilling operations will be reported pursuant to Paragraph (1) of Subsection G of 19.15.27.8 NMAC.

Subsection C – Venting and flaring during completion operations: After fracing, sand and the frac plugs will be cleaned out of the wellbore under controlled conditions (circulating 1 barrel in per 1 barrel out) that will reduce or eliminate the flow of gas to the atmosphere. After cleaning the well out, a packer with a rupture disk will be set by wireline. Tubing with gas lift valves will be installed. The rupture disk will then be burst and flowback will commence.

During the initial flowback after the frac job the fluids will go directly into storage tanks until there is sufficient pressure to function a separator at which point the fluids will go into a separator that will remove the gas from the fluid and send the metered gas to an on-site flare stack until it is feasible to route the gas to the inlet separator for this well at the battery.

As soon as it is practical, the produced fluids will be switched out of the flowback separator and into the flowline going directly to the inlet separator for this well and sale as soon as feasible.

Any gas flared during the completion operations will be reported pursuant to Paragraph (1) of Subsection G of 19.15.27.8 NMAC.

Once the well dies, or if the well will not flow, gas lift operations will begin utilizing gas from the Central Battery.

Subsection D – Venting and flaring during production operations: Texas Standard shall not vent or flare natural gas during production operations except as allowed in 19.15.27.8 1,2,& 4 NMAC. Any gas that is flared during production operations will be reported pursuant to Paragraph (1) of Subsection (G) of 19.15.28.8 NMAC.

- Weekly AVO's will be performed on all facilities.
- Leaking thief hatches and pressure safety valves found during AVO's will be cleaned and properly re-sealed.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into a collection system.
- All gas lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.

Subsection E – Performance standards: The production facilities that will be utilized by this well have been designed to handle in excess of the anticipated maximum throughput and are rated for pressures greater than the anticipated pressures. In addition, the facilities have been designed to minimize waste of natural gas.

The production storage tanks will be equipped with automated tank gauging system that reduces the need to open thief hatches on the tanks.

Texas Standard will install an anchored flare stack 100' away from the wellbore and production tanks that has an automatic ignitor and a continuous pilot that will combust any natural gas routed to the flare stack and is capable of handling 3 MMCFGPD. Any gas routed through the flare stack will be metered and will be reported pursuant to Paragraph (1) of Subsection G of 19.15.27.8 NMAC. Natural gas will not be vented except as allowed in 19.15.27.8. 1, 2, &4 NMAC.

Low bleed pilots in Pneumatic calves will be installed if necessary.

Texas Standard will utilize SCADA to monitor production and equipment as well as to shut in the wellbore in case of emergency or other situation that could result in gas being released to the atmosphere.

Should the sales line pressure reach the desired maximum operating pressure, the SCADA system will close the Emergency Shut Down Valve on the wellhead and send an alarm to production personnel. In the event the ESD valve failed to close, gas would be routed to the flare stack with a continuous pilot. Any flared gas would be metered.

Texas Standard shall conduct weekly AVO inspections consisting of visual inspections, listening for leaks and smelling for odors to confirm that all production equipment is operating properly and that there are no leaks or releases of natural gas except as allowed in Section D of 19.15.27.9 NMAC. The AVO inspection shall include the inspection of all components to identify defects and leaks. Any leaks that

are found shall be immediately repaired. Texas Standard shall keep record of an AVO inspection for at least 5 years and shall make such record available for inspection by the Division upon request.

Subsection F – Measurement or estimation of vented and flared natural gas: Texas Standard shall measure or estimate the volume of natural gas that it vents, flares or beneficially uses during drilling, completion, and production operations.

Texas Standard will install equipment to measure the volume of natural gas flared from the separation equipment described in Section VI above as well as the process piping and vapor recovery equipment. Metering equipment will also be installed to measure the volume of natural gas delivered to the custody transfer point.

If metering is not practical due to circumstances such as low flare rate or low pressure venting or flaring, Texas Standard shall estimate the volume of vented or flared natural gas using a verifiable methodology,

VIII. Best Management Practices to minimize venting during active and planned maintenance:

Texas Standard Will install an emergency shut down valve on the wellhead to close the well in the event of an abnormal low or high pressure occurrence on the flowline or within the facility.

Swabbing operations, if necessary, will be performed through the separation equipment described in Section VI above in a closed system.

If the tubing is to be pulled, the well will be killed and pulled in an overbalanced condition to increase the safety of personnel and reduce gas emissions.

Should a production vessel need to be worked on, the vessel will be bled down into the system to as low a pressure as is practical and then the vessel will be isolated by valve at the vessel to minimize the volume of gas to be bled off the vessel with none from the associated piping.

After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

Texas Standard shall verbally notify the division as soon as possible for any venting or flaring event that will exceed 500 MCF or otherwise qualifies as a major release and shall follow up the verbal notification with the filing of a Form C-129. On venting or flaring events that are less than 500 MCF, Texas Standard shall notify the division in writing by filing a Form C-129 within 15 days of the event.