

District I

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

District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101

August 1, 2011

Permit 282385

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

1. Operator Name and Address COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		2. OGRID Number 229137
		3. API Number 30-015-47093
4. Property Code 328236	5. Property Name MYOX 30 19 STATE COM	6. Well No. 704H

7. Surface Location

UL - Lot N	Section 18	Township 25S	Range 28E	Lot Idn	Feet From 380	N/S Line S	Feet From 1356	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot N	Section 30	Township 25S	Range 28E	Lot Idn N	Feet From 200	N/S Line S	Feet From 2202	E/W Line W	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3045
16. Multiple N	17. Proposed Depth 19839	18. Formation Wolfcamp	19. Contractor	20. Spud Date 9/5/2020
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	14.75	10.75	45.5	550	450	0
Int1	9.875	7.625	29.7	8500	1200	0
Prod	6.75	5.5	20	19839	1300	8000

Casing/Cement Program: Additional Comments

Drill 14-3/4" hole to ~550' w/ fresh water. Run 10-3/4" 45.5# J-55 BTC casing to TD and cement to surface in one stage. Drill 9-7/8" hole to ~8,500' with cut brine emulsion. Run 7-5/8" 29.7# L-80 BTC to TD and cement to surface in one stage. Drill 6-3/4" vertical hole, curve & lateral to 19839' with OBM. Run 5-1/2" 20# P110 CDC HTQ from surfaced to 8,400' and TLW casing from 8,400' to TD and cement to 8,000' in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

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 ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Diane Kuykendall

Title: Production Accounting Director

Email Address: dkuykendall@concho.com

Date: 5/12/2020

Phone: 432-685-4372

OIL CONSERVATION DIVISION

Approved By: Raymond Podany

Title: Geologist

Approved Date: 5/12/2020 Expiration Date: 5/12/2022

Conditions of Approval Attached

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State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp
4 Property Code	5 Property Name MYOX 30 19 STATE COM	6 Well Number 704H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3045'

" Surface Location

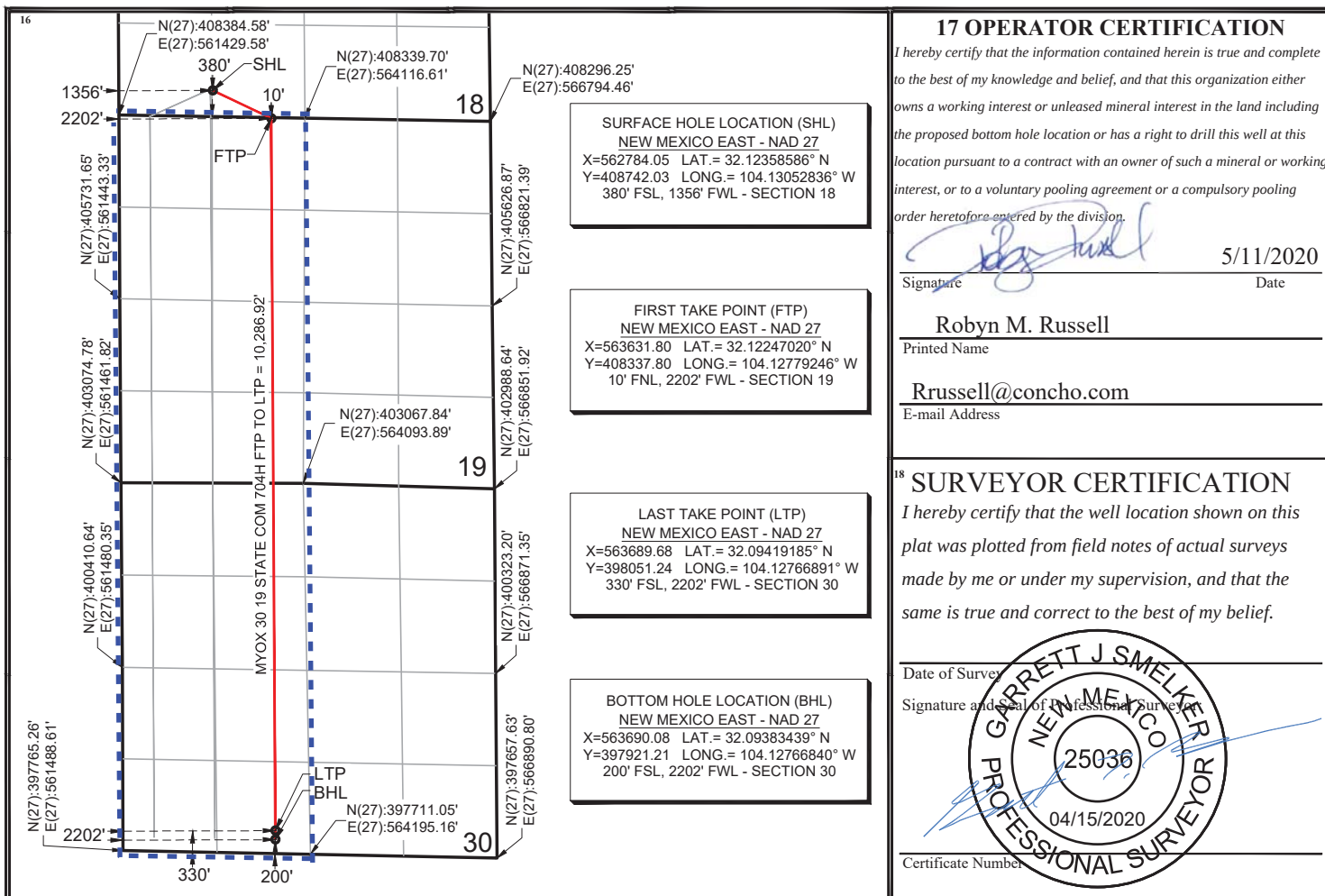
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	18	25-S	28-E		380'	SOUTH	1356'	WEST	EDDY

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	30	25-S	28-E		200'	SOUTH	2202'	WEST	EDDY

12 Dedicated Acres 642.72	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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GAS CAPTURE PLAN

Date: 5/12/2020

☒ Original

Operator & OGRID No.: [229137] COG OPERATING LLC

☐ Amended - Reason for
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
MYOX 30 19 STATE COM #704H	30-015-47093	N-18-25S-28E	0380S 1356W	3415	None	It will require additional line to connect to the facility but the amount is unknown currently. Processing Plant Location: Sec 35, Blk 57, T2S, Culberson County, TX.

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC Texas Pipeline, Ltd. and will be connected to ETC Texas Pipeline, Ltd. Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. COG OPERATING LLC provides (periodically) to ETC Texas Pipeline, Ltd. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG OPERATING LLC and ETC Texas Pipeline, Ltd. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC Texas Pipeline, Ltd. Processing Plant located in Sec. 18, Twn. 25S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC Texas Pipeline, Ltd. system at that time. Based on current information, it is COG OPERATING LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 282385

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-47093
		Well: MYOX 30 19 STATE COM #704H
Created By	Comment	Comment Date
rodrom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	5/12/2020

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Form APD Conditions

Permit 282385

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-47093
		Well: MYOX 30 19 STATE COM #704H

OCD Reviewer	Condition
rpodany	Will require a directional survey with the C-104
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing
rpodany	NSL required

NDB WEST

EDDY COUNTY, NM

MYOX 30 19 ST COM

MYOX 30 19 ST COM #704H

OWB

Plan: PWP1

Standard Survey Report

29 April, 2020

Concho Resources LLC

Survey Report

Company:	NDB WEST	Local Co-ordinate Reference:	Well MYOX 30 19 ST COM #704H
Project:	EDDY COUNTY, NM	TVD Reference:	*KB=30' @ 3075.0usft (TBD)
Site:	MYOX 30 19 ST COM	MD Reference:	*KB=30' @ 3075.0usft (TBD)
Well:	MYOX 30 19 ST COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Project	EDDY COUNTY, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well	MYOX 30 19 ST COM #704H				
Well Position	+N/-S	0.0 usft	Northing:	408,742.03 usft	Latitude: 32° 7' 24.909 N
	+E/-W	0.0 usft	Easting:	562,784.05 usft	Longitude: 104° 7' 49.902 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,045.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/29/2020	6.90	59.85	47,528.14989989

Design	PWP1				
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	175.21	

Survey Tool Program	Date	4/29/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	8,713.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
8,713.0	19,839.9	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

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	

Concho Resources LLC

Survey Report

Company:	NDB WEST	Local Co-ordinate Reference:	Well MYOX 30 19 ST COM #704H
Project:	EDDY COUNTY, NM	TVD Reference:	*KB=30' @ 3075.0usft (TBD)
Site:	MYOX 30 19 ST COM	MD Reference:	*KB=30' @ 3075.0usft (TBD)
Well:	MYOX 30 19 ST COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
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
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	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	108.00	2,600.0	-0.5	1.7	0.7	2.00	2.00	0.00
2,650.0	3.00	108.00	2,649.9	-1.2	3.7	1.5	2.00	2.00	0.00
Start 6062.2 hold at 2650.0 MD									
2,700.0	3.00	108.00	2,699.9	-2.0	6.2	2.5	0.00	0.00	0.00
2,800.0	3.00	108.00	2,799.7	-3.6	11.2	4.6	0.00	0.00	0.00
2,900.0	3.00	108.00	2,899.6	-5.3	16.2	6.6	0.00	0.00	0.00
3,000.0	3.00	108.00	2,999.5	-6.9	21.2	8.6	0.00	0.00	0.00
3,100.0	3.00	108.00	3,099.3	-8.5	26.1	10.6	0.00	0.00	0.00
3,200.0	3.00	108.00	3,199.2	-10.1	31.1	12.7	0.00	0.00	0.00
3,300.0	3.00	108.00	3,299.0	-11.7	36.1	14.7	0.00	0.00	0.00
3,400.0	3.00	108.00	3,398.9	-13.3	41.1	16.7	0.00	0.00	0.00
3,500.0	3.00	108.00	3,498.8	-15.0	46.0	18.7	0.00	0.00	0.00
3,600.0	3.00	108.00	3,598.6	-16.6	51.0	20.8	0.00	0.00	0.00
3,700.0	3.00	108.00	3,698.5	-18.2	56.0	22.8	0.00	0.00	0.00
3,800.0	3.00	108.00	3,798.4	-19.8	61.0	24.8	0.00	0.00	0.00
3,900.0	3.00	108.00	3,898.2	-21.4	66.0	26.9	0.00	0.00	0.00
4,000.0	3.00	108.00	3,998.1	-23.0	70.9	28.9	0.00	0.00	0.00
4,100.0	3.00	108.00	4,097.9	-24.7	75.9	30.9	0.00	0.00	0.00
4,200.0	3.00	108.00	4,197.8	-26.3	80.9	32.9	0.00	0.00	0.00
4,300.0	3.00	108.00	4,297.7	-27.9	85.9	35.0	0.00	0.00	0.00
4,400.0	3.00	108.00	4,397.5	-29.5	90.8	37.0	0.00	0.00	0.00
4,500.0	3.00	108.00	4,497.4	-31.1	95.8	39.0	0.00	0.00	0.00
4,600.0	3.00	108.00	4,597.3	-32.7	100.8	41.0	0.00	0.00	0.00
4,700.0	3.00	108.00	4,697.1	-34.4	105.8	43.1	0.00	0.00	0.00
4,800.0	3.00	108.00	4,797.0	-36.0	110.7	45.1	0.00	0.00	0.00
4,900.0	3.00	108.00	4,896.8	-37.6	115.7	47.1	0.00	0.00	0.00
5,000.0	3.00	108.00	4,996.7	-39.2	120.7	49.2	0.00	0.00	0.00
5,100.0	3.00	108.00	5,096.6	-40.8	125.7	51.2	0.00	0.00	0.00
5,200.0	3.00	108.00	5,196.4	-42.5	130.7	53.2	0.00	0.00	0.00
5,300.0	3.00	108.00	5,296.3	-44.1	135.6	55.2	0.00	0.00	0.00
5,400.0	3.00	108.00	5,396.2	-45.7	140.6	57.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NDB WEST	Local Co-ordinate Reference:	Well MYOX 30 19 ST COM #704H
Project:	EDDY COUNTY, NM	TVD Reference:	*KB=30' @ 3075.0usft (TBD)
Site:	MYOX 30 19 ST COM	MD Reference:	*KB=30' @ 3075.0usft (TBD)
Well:	MYOX 30 19 ST COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
5,500.0	3.00	108.00	5,496.0	-47.3	145.6	59.3	0.00	0.00	0.00
5,600.0	3.00	108.00	5,595.9	-48.9	150.6	61.3	0.00	0.00	0.00
5,700.0	3.00	108.00	5,695.8	-50.5	155.5	63.3	0.00	0.00	0.00
5,800.0	3.00	108.00	5,795.6	-52.2	160.5	65.4	0.00	0.00	0.00
5,900.0	3.00	108.00	5,895.5	-53.8	165.5	67.4	0.00	0.00	0.00
6,000.0	3.00	108.00	5,995.3	-55.4	170.5	69.4	0.00	0.00	0.00
6,100.0	3.00	108.00	6,095.2	-57.0	175.5	71.4	0.00	0.00	0.00
6,200.0	3.00	108.00	6,195.1	-58.6	180.4	73.5	0.00	0.00	0.00
6,300.0	3.00	108.00	6,294.9	-60.2	185.4	75.5	0.00	0.00	0.00
6,400.0	3.00	108.00	6,394.8	-61.9	190.4	77.5	0.00	0.00	0.00
6,500.0	3.00	108.00	6,494.7	-63.5	195.4	79.6	0.00	0.00	0.00
6,600.0	3.00	108.00	6,594.5	-65.1	200.3	81.6	0.00	0.00	0.00
6,700.0	3.00	108.00	6,694.4	-66.7	205.3	83.6	0.00	0.00	0.00
6,800.0	3.00	108.00	6,794.2	-68.3	210.3	85.6	0.00	0.00	0.00
6,900.0	3.00	108.00	6,894.1	-69.9	215.3	87.7	0.00	0.00	0.00
7,000.0	3.00	108.00	6,994.0	-71.6	220.3	89.7	0.00	0.00	0.00
7,100.0	3.00	108.00	7,093.8	-73.2	225.2	91.7	0.00	0.00	0.00
7,200.0	3.00	108.00	7,193.7	-74.8	230.2	93.7	0.00	0.00	0.00
7,300.0	3.00	108.00	7,293.6	-76.4	235.2	95.8	0.00	0.00	0.00
7,400.0	3.00	108.00	7,393.4	-78.0	240.2	97.8	0.00	0.00	0.00
7,500.0	3.00	108.00	7,493.3	-79.7	245.1	99.8	0.00	0.00	0.00
7,600.0	3.00	108.00	7,593.1	-81.3	250.1	101.9	0.00	0.00	0.00
7,700.0	3.00	108.00	7,693.0	-82.9	255.1	103.9	0.00	0.00	0.00
7,800.0	3.00	108.00	7,792.9	-84.5	260.1	105.9	0.00	0.00	0.00
7,900.0	3.00	108.00	7,892.7	-86.1	265.0	107.9	0.00	0.00	0.00
8,000.0	3.00	108.00	7,992.6	-87.7	270.0	110.0	0.00	0.00	0.00
8,100.0	3.00	108.00	8,092.5	-89.4	275.0	112.0	0.00	0.00	0.00
8,200.0	3.00	108.00	8,192.3	-91.0	280.0	114.0	0.00	0.00	0.00
8,300.0	3.00	108.00	8,292.2	-92.6	285.0	116.0	0.00	0.00	0.00
8,400.0	3.00	108.00	8,392.1	-94.2	289.9	118.1	0.00	0.00	0.00
8,500.0	3.00	108.00	8,491.9	-95.8	294.9	120.1	0.00	0.00	0.00
8,600.0	3.00	108.00	8,591.8	-97.4	299.9	122.1	0.00	0.00	0.00
8,700.0	3.00	108.00	8,691.6	-99.1	304.9	124.2	0.00	0.00	0.00
8,712.2	3.00	108.00	8,703.8	-99.3	305.5	124.4	0.00	0.00	0.00
Start DLS 10.00 TFO 47.39									
8,800.0	11.03	143.95	8,790.9	-106.8	312.6	132.5	10.00	9.15	40.93
8,900.0	20.93	149.56	8,886.9	-130.0	327.3	156.8	10.00	9.89	5.61
9,000.0	30.89	151.66	8,976.8	-168.1	348.6	196.6	10.00	9.96	2.09
9,100.0	40.86	152.80	9,057.7	-219.9	375.8	250.5	10.00	9.98	1.14
9,200.0	50.85	153.55	9,127.3	-283.8	408.1	316.9	10.00	9.99	0.76
9,300.0	60.84	154.12	9,183.3	-358.0	444.6	393.9	10.00	9.99	0.57
9,400.0	70.83	154.58	9,224.2	-440.2	484.0	479.0	10.00	9.99	0.46
9,500.0	80.82	154.99	9,248.7	-527.8	525.2	569.8	10.00	9.99	0.41
9,591.9	90.00	155.35	9,256.0	-610.8	563.6	655.7	10.00	9.99	0.39

Concho Resources LLC

Survey Report

Company:	NDB WEST	Local Co-ordinate Reference:	Well MYOX 30 19 ST COM #704H
Project:	EDDY COUNTY, NM	TVD Reference:	*KB=30' @ 3075.0usft (TBD)
Site:	MYOX 30 19 ST COM	MD Reference:	*KB=30' @ 3075.0usft (TBD)
Well:	MYOX 30 19 ST COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
Start DLS 2.00 TFO 90.00									
9,600.0	90.00	155.51	9,256.0	-618.2	567.0	663.4	2.00	0.00	2.00
9,700.0	90.00	157.51	9,256.0	-709.9	606.9	758.1	2.00	0.00	2.00
9,800.0	90.00	159.51	9,256.0	-803.0	643.5	853.9	2.00	0.00	2.00
9,900.0	90.00	161.51	9,256.0	-897.2	676.9	950.6	2.00	0.00	2.00
10,000.0	90.00	163.51	9,256.0	-992.6	706.9	1,048.1	2.00	0.00	2.00
10,100.0	90.00	165.51	9,256.0	-1,089.0	733.6	1,146.4	2.00	0.00	2.00
10,200.0	90.00	167.51	9,256.0	-1,186.2	756.9	1,245.2	2.00	0.00	2.00
10,300.0	90.00	169.51	9,256.0	-1,284.2	776.8	1,344.5	2.00	0.00	2.00
10,400.0	90.00	171.51	9,256.0	-1,382.8	793.3	1,444.2	2.00	0.00	2.00
10,500.0	90.00	173.51	9,256.0	-1,482.0	806.4	1,544.1	2.00	0.00	2.00
10,600.0	90.00	175.51	9,256.0	-1,581.5	815.9	1,644.1	2.00	0.00	2.00
10,700.0	90.00	177.51	9,256.0	-1,681.3	822.0	1,744.0	2.00	0.00	2.00
10,798.5	90.00	179.48	9,256.0	-1,779.8	824.6	1,842.4	2.00	0.00	2.00
Start 9041.4 hold at 10798.5 MD									
10,800.0	90.00	179.48	9,256.0	-1,781.3	824.6	1,843.9	0.00	0.00	0.00
10,900.0	90.00	179.48	9,256.0	-1,881.3	825.5	1,943.6	0.00	0.00	0.00
11,000.0	90.00	179.48	9,256.0	-1,981.3	826.4	2,043.3	0.00	0.00	0.00
11,100.0	90.00	179.48	9,256.0	-2,081.3	827.3	2,143.0	0.00	0.00	0.00
11,200.0	90.00	179.48	9,256.0	-2,181.3	828.2	2,242.7	0.00	0.00	0.00
11,300.0	90.00	179.48	9,256.0	-2,281.2	829.1	2,342.5	0.00	0.00	0.00
11,400.0	90.00	179.48	9,256.0	-2,381.2	830.0	2,442.2	0.00	0.00	0.00
11,500.0	90.00	179.48	9,256.0	-2,481.2	830.9	2,541.9	0.00	0.00	0.00
11,600.0	90.00	179.48	9,256.0	-2,581.2	831.8	2,641.6	0.00	0.00	0.00
11,700.0	90.00	179.48	9,256.0	-2,681.2	832.7	2,741.4	0.00	0.00	0.00
11,800.0	90.00	179.48	9,256.0	-2,781.2	833.6	2,841.1	0.00	0.00	0.00
11,900.0	90.00	179.48	9,256.0	-2,881.2	834.5	2,940.8	0.00	0.00	0.00
12,000.0	90.00	179.48	9,256.0	-2,981.2	835.4	3,040.5	0.00	0.00	0.00
12,100.0	90.00	179.48	9,256.0	-3,081.2	836.3	3,140.3	0.00	0.00	0.00
12,200.0	90.00	179.48	9,256.0	-3,181.2	837.2	3,240.0	0.00	0.00	0.00
12,300.0	90.00	179.48	9,256.0	-3,281.2	838.1	3,339.7	0.00	0.00	0.00
12,400.0	90.00	179.48	9,256.0	-3,381.2	839.0	3,439.4	0.00	0.00	0.00
12,500.0	90.00	179.48	9,256.0	-3,481.2	839.9	3,539.1	0.00	0.00	0.00
12,600.0	90.00	179.48	9,256.0	-3,581.2	840.8	3,638.9	0.00	0.00	0.00
12,700.0	90.00	179.48	9,256.0	-3,681.2	841.7	3,738.6	0.00	0.00	0.00
12,800.0	90.00	179.48	9,256.0	-3,781.2	842.6	3,838.3	0.00	0.00	0.00
12,900.0	90.00	179.48	9,256.0	-3,881.2	843.5	3,938.0	0.00	0.00	0.00
13,000.0	90.00	179.48	9,256.0	-3,981.2	844.4	4,037.8	0.00	0.00	0.00
13,100.0	90.00	179.48	9,256.0	-4,081.2	845.3	4,137.5	0.00	0.00	0.00
13,200.0	90.00	179.48	9,256.0	-4,181.2	846.2	4,237.2	0.00	0.00	0.00
13,300.0	90.00	179.48	9,256.0	-4,281.2	847.1	4,336.9	0.00	0.00	0.00
13,400.0	90.00	179.48	9,256.0	-4,381.2	848.0	4,436.6	0.00	0.00	0.00
13,500.0	90.00	179.48	9,256.0	-4,481.2	848.9	4,536.4	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NDB WEST	Local Co-ordinate Reference:	Well MYOX 30 19 ST COM #704H
Project:	EDDY COUNTY, NM	TVD Reference:	*KB=30' @ 3075.0usft (TBD)
Site:	MYOX 30 19 ST COM	MD Reference:	*KB=30' @ 3075.0usft (TBD)
Well:	MYOX 30 19 ST COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
13,600.0	90.00	179.48	9,256.0	-4,581.2	849.8	4,636.1	0.00	0.00	0.00
13,700.0	90.00	179.48	9,256.0	-4,681.2	850.7	4,735.8	0.00	0.00	0.00
13,800.0	90.00	179.48	9,256.0	-4,781.1	851.6	4,835.5	0.00	0.00	0.00
13,900.0	90.00	179.48	9,256.0	-4,881.1	852.5	4,935.3	0.00	0.00	0.00
14,000.0	90.00	179.48	9,256.0	-4,981.1	853.4	5,035.0	0.00	0.00	0.00
14,100.0	90.00	179.48	9,256.0	-5,081.1	854.3	5,134.7	0.00	0.00	0.00
14,200.0	90.00	179.48	9,256.0	-5,181.1	855.2	5,234.4	0.00	0.00	0.00
14,300.0	90.00	179.48	9,256.0	-5,281.1	856.1	5,334.1	0.00	0.00	0.00
14,400.0	90.00	179.48	9,256.0	-5,381.1	857.0	5,433.9	0.00	0.00	0.00
14,500.0	90.00	179.48	9,256.0	-5,481.1	857.9	5,533.6	0.00	0.00	0.00
14,600.0	90.00	179.48	9,256.0	-5,581.1	858.8	5,633.3	0.00	0.00	0.00
14,700.0	90.00	179.48	9,256.0	-5,681.1	859.7	5,733.0	0.00	0.00	0.00
14,800.0	90.00	179.48	9,256.0	-5,781.1	860.6	5,832.8	0.00	0.00	0.00
14,900.0	90.00	179.48	9,256.0	-5,881.1	861.5	5,932.5	0.00	0.00	0.00
15,000.0	90.00	179.48	9,256.0	-5,981.1	862.4	6,032.2	0.00	0.00	0.00
15,100.0	90.00	179.48	9,256.0	-6,081.1	863.3	6,131.9	0.00	0.00	0.00
15,200.0	90.00	179.48	9,256.0	-6,181.1	864.2	6,231.6	0.00	0.00	0.00
15,300.0	90.00	179.48	9,256.0	-6,281.1	865.1	6,331.4	0.00	0.00	0.00
15,400.0	90.00	179.48	9,256.0	-6,381.1	866.0	6,431.1	0.00	0.00	0.00
15,500.0	90.00	179.48	9,256.0	-6,481.1	866.9	6,530.8	0.00	0.00	0.00
15,600.0	90.00	179.48	9,256.0	-6,581.1	867.8	6,630.5	0.00	0.00	0.00
15,700.0	90.00	179.48	9,256.0	-6,681.1	868.7	6,730.3	0.00	0.00	0.00
15,800.0	90.00	179.48	9,256.0	-6,781.1	869.6	6,830.0	0.00	0.00	0.00
15,900.0	90.00	179.48	9,256.0	-6,881.1	870.5	6,929.7	0.00	0.00	0.00
16,000.0	90.00	179.48	9,256.0	-6,981.1	871.4	7,029.4	0.00	0.00	0.00
16,100.0	90.00	179.48	9,256.0	-7,081.1	872.3	7,129.1	0.00	0.00	0.00
16,200.0	90.00	179.48	9,256.0	-7,181.0	873.2	7,228.9	0.00	0.00	0.00
16,300.0	90.00	179.48	9,256.0	-7,281.0	874.1	7,328.6	0.00	0.00	0.00
16,400.0	90.00	179.48	9,256.0	-7,381.0	875.0	7,428.3	0.00	0.00	0.00
16,500.0	90.00	179.48	9,256.0	-7,481.0	875.9	7,528.0	0.00	0.00	0.00
16,600.0	90.00	179.48	9,256.0	-7,581.0	876.8	7,627.8	0.00	0.00	0.00
16,700.0	90.00	179.48	9,256.0	-7,681.0	877.7	7,727.5	0.00	0.00	0.00
16,800.0	90.00	179.48	9,256.0	-7,781.0	878.6	7,827.2	0.00	0.00	0.00
16,900.0	90.00	179.48	9,256.0	-7,881.0	879.5	7,926.9	0.00	0.00	0.00
17,000.0	90.00	179.48	9,256.0	-7,981.0	880.4	8,026.6	0.00	0.00	0.00
17,100.0	90.00	179.48	9,256.0	-8,081.0	881.3	8,126.4	0.00	0.00	0.00
17,200.0	90.00	179.48	9,256.0	-8,181.0	882.2	8,226.1	0.00	0.00	0.00
17,300.0	90.00	179.48	9,256.0	-8,281.0	883.1	8,325.8	0.00	0.00	0.00
17,400.0	90.00	179.48	9,256.0	-8,381.0	884.1	8,425.5	0.00	0.00	0.00
17,500.0	90.00	179.48	9,256.0	-8,481.0	885.0	8,525.3	0.00	0.00	0.00
17,600.0	90.00	179.48	9,256.0	-8,581.0	885.9	8,625.0	0.00	0.00	0.00
17,700.0	90.00	179.48	9,256.0	-8,681.0	886.8	8,724.7	0.00	0.00	0.00
17,800.0	90.00	179.48	9,256.0	-8,781.0	887.7	8,824.4	0.00	0.00	0.00
17,900.0	90.00	179.48	9,256.0	-8,881.0	888.6	8,924.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NDB WEST	Local Co-ordinate Reference:	Well MYOX 30 19 ST COM #704H
Project:	EDDY COUNTY, NM	TVD Reference:	*KB=30' @ 3075.0usft (TBD)
Site:	MYOX 30 19 ST COM	MD Reference:	*KB=30' @ 3075.0usft (TBD)
Well:	MYOX 30 19 ST COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
18,000.0	90.00	179.48	9,256.0	-8,981.0	889.5	9,023.9	0.00	0.00	0.00
18,100.0	90.00	179.48	9,256.0	-9,081.0	890.4	9,123.6	0.00	0.00	0.00
18,200.0	90.00	179.48	9,256.0	-9,181.0	891.3	9,223.3	0.00	0.00	0.00
18,300.0	90.00	179.48	9,256.0	-9,281.0	892.2	9,323.0	0.00	0.00	0.00
18,400.0	90.00	179.48	9,256.0	-9,381.0	893.1	9,422.8	0.00	0.00	0.00
18,500.0	90.00	179.48	9,256.0	-9,481.0	894.0	9,522.5	0.00	0.00	0.00
18,600.0	90.00	179.48	9,256.0	-9,581.0	894.9	9,622.2	0.00	0.00	0.00
18,700.0	90.00	179.48	9,256.0	-9,680.9	895.8	9,721.9	0.00	0.00	0.00
18,800.0	90.00	179.48	9,256.0	-9,780.9	896.7	9,821.7	0.00	0.00	0.00
18,900.0	90.00	179.48	9,256.0	-9,880.9	897.6	9,921.4	0.00	0.00	0.00
19,000.0	90.00	179.48	9,256.0	-9,980.9	898.5	10,021.1	0.00	0.00	0.00
19,100.0	90.00	179.48	9,256.0	-10,080.9	899.4	10,120.8	0.00	0.00	0.00
19,200.0	90.00	179.48	9,256.0	-10,180.9	900.3	10,220.5	0.00	0.00	0.00
19,300.0	90.00	179.48	9,256.0	-10,280.9	901.2	10,320.3	0.00	0.00	0.00
19,400.0	90.00	179.48	9,256.0	-10,380.9	902.1	10,420.0	0.00	0.00	0.00
19,500.0	90.00	179.48	9,256.0	-10,480.9	903.0	10,519.7	0.00	0.00	0.00
19,600.0	90.00	179.48	9,256.0	-10,580.9	903.9	10,619.4	0.00	0.00	0.00
19,700.0	90.00	179.48	9,256.0	-10,680.9	904.8	10,719.2	0.00	0.00	0.00
19,800.0	90.00	179.48	9,256.0	-10,780.9	905.7	10,818.9	0.00	0.00	0.00
19,839.9	90.00	179.48	9,256.0	-10,820.8	906.0	10,858.7	0.00	0.00	0.00
TD at 19839.9									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (MYOX 30 19 ST - hit/miss target - Shape - plan misses target center by 344.6usft at 9523.8usft MD (9252.0 TVD, -549.2 N, 535.2 E) - Circle (radius 50.0)	0.00	0.00	9,256.0	-404.2	847.7	408,337.80	563,631.80	32° 7' 20.893 N	104° 7' 40.053 W
PBHL (MYOX 30 19 S - plan hits target center - Rectangle (sides W100.0 H10,417.0 D20.0)	0.00	359.48	9,256.0	-10,820.8	906.0	397,921.21	563,690.08	32° 5' 37.804 N	104° 7' 39.606 W
LTP (MYOX 30 19 ST - plan misses target center by 0.8usft at 19709.9usft MD (9256.0 TVD, -10690.8 N, 904.9 E) - Point	0.00	0.00	9,256.0	-10,690.8	905.6	398,051.24	563,689.68	32° 5' 39.091 N	104° 7' 39.608 W

Concho Resources LLC

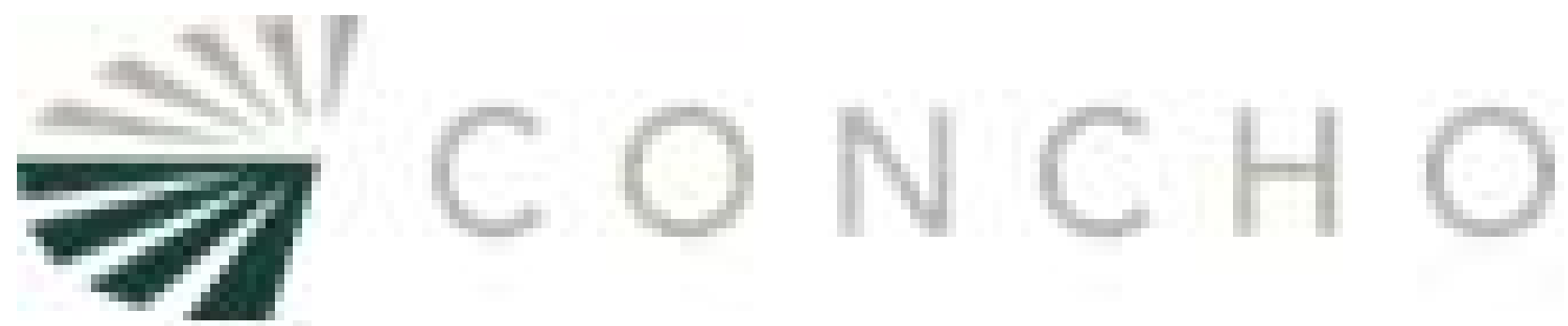
Survey Report

Company:	NDB WEST	Local Co-ordinate Reference:	Well MYOX 30 19 ST COM #704H
Project:	EDDY COUNTY, NM	TVD Reference:	*KB=30' @ 3075.0usft (TBD)
Site:	MYOX 30 19 ST COM	MD Reference:	*KB=30' @ 3075.0usft (TBD)
Well:	MYOX 30 19 ST COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2650	2650	-1	4	Start 6062.2 hold at 2650.0 MD
8712	8704	-99	305	Start DLS 10.00 TFO 47.39
9592	9256	-611	564	Start DLS 2.00 TFO 90.00
10,799	9256	-1780	825	Start 9041.4 hold at 10798.5 MD
19,840	9256	-10,821	906	TD at 19839.9

Checked By: _____ Approved By: _____ Date: _____



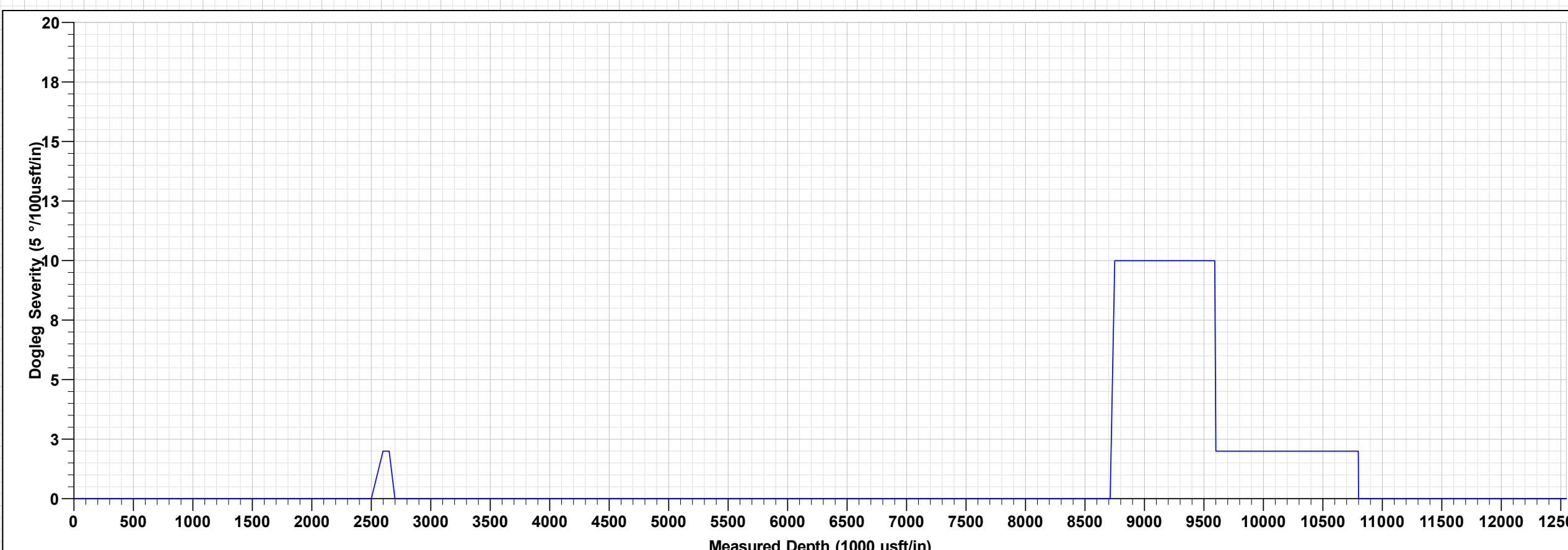
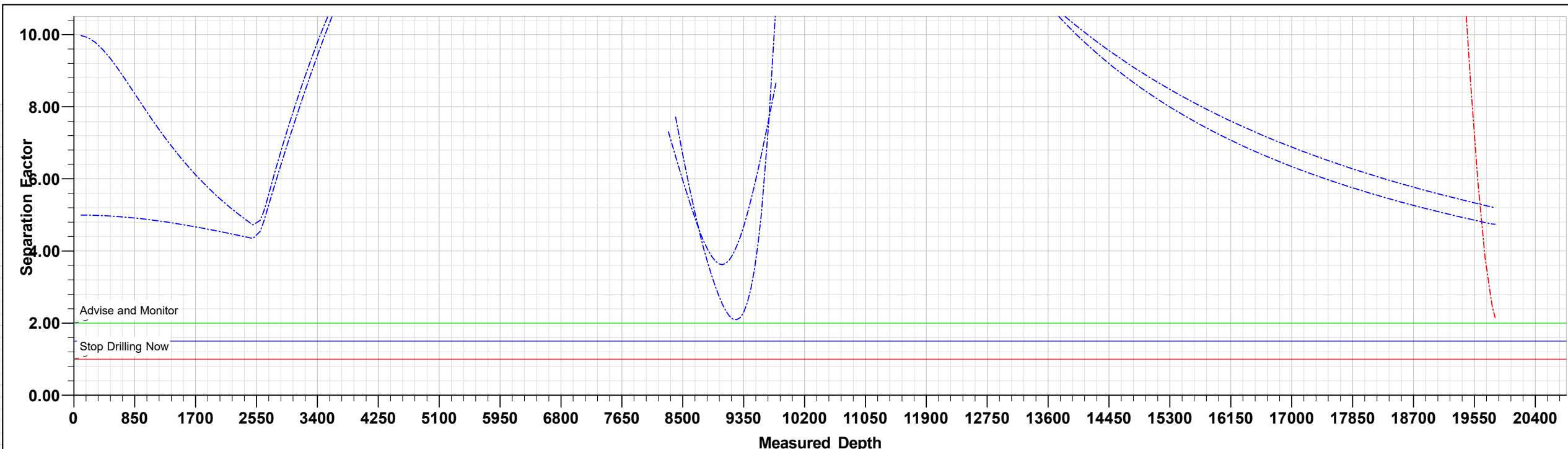
Project: EDDY COUNTY, NM
Site: MYOX 30 19 ST COM
Well: MYOX 30 19 ST COM #704H
Wellbore: OWB
Design: PWP1
GL: 3045.0
*KB=30' @ 3075.0usft (TBD)

WELL DETAILS: MYOX 30 19 ST COM #704H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408742.03	562784.05	32° 7' 24.909 N	104° 7' 49.902 W

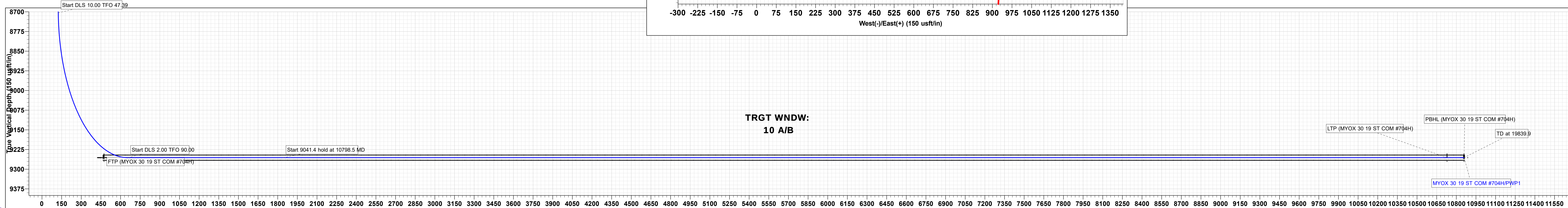
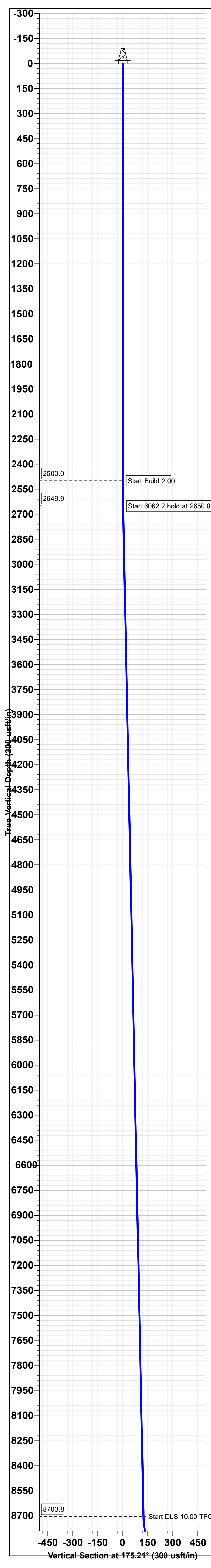
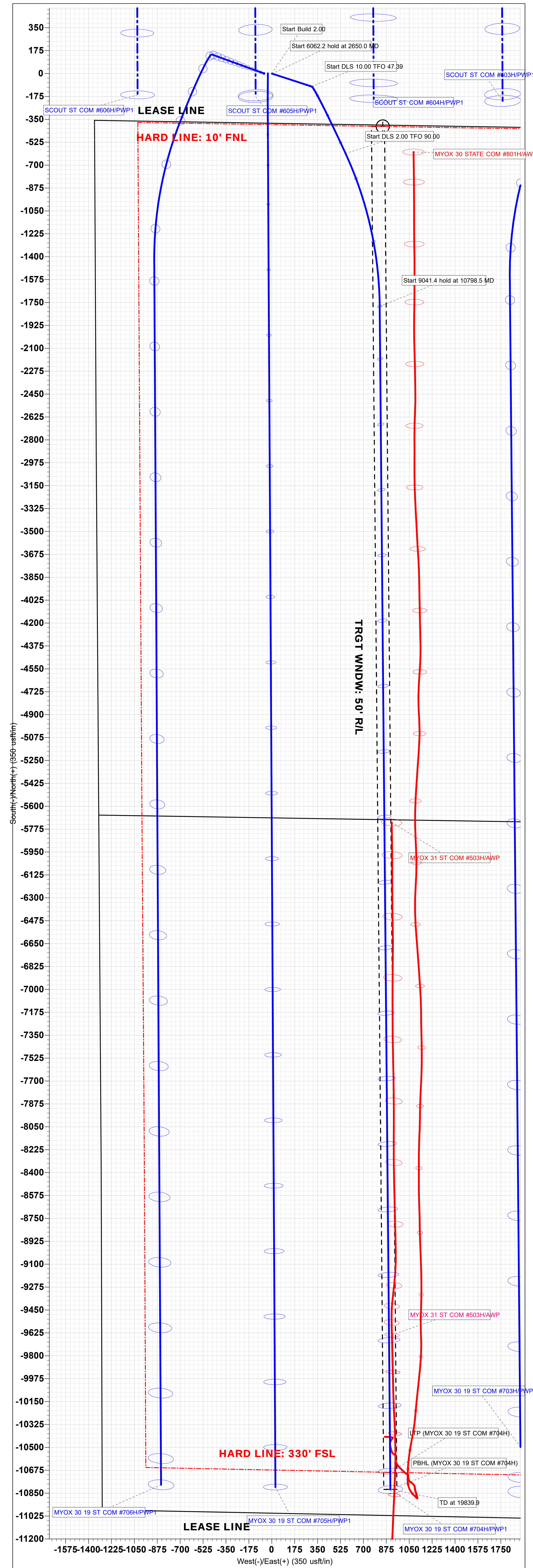
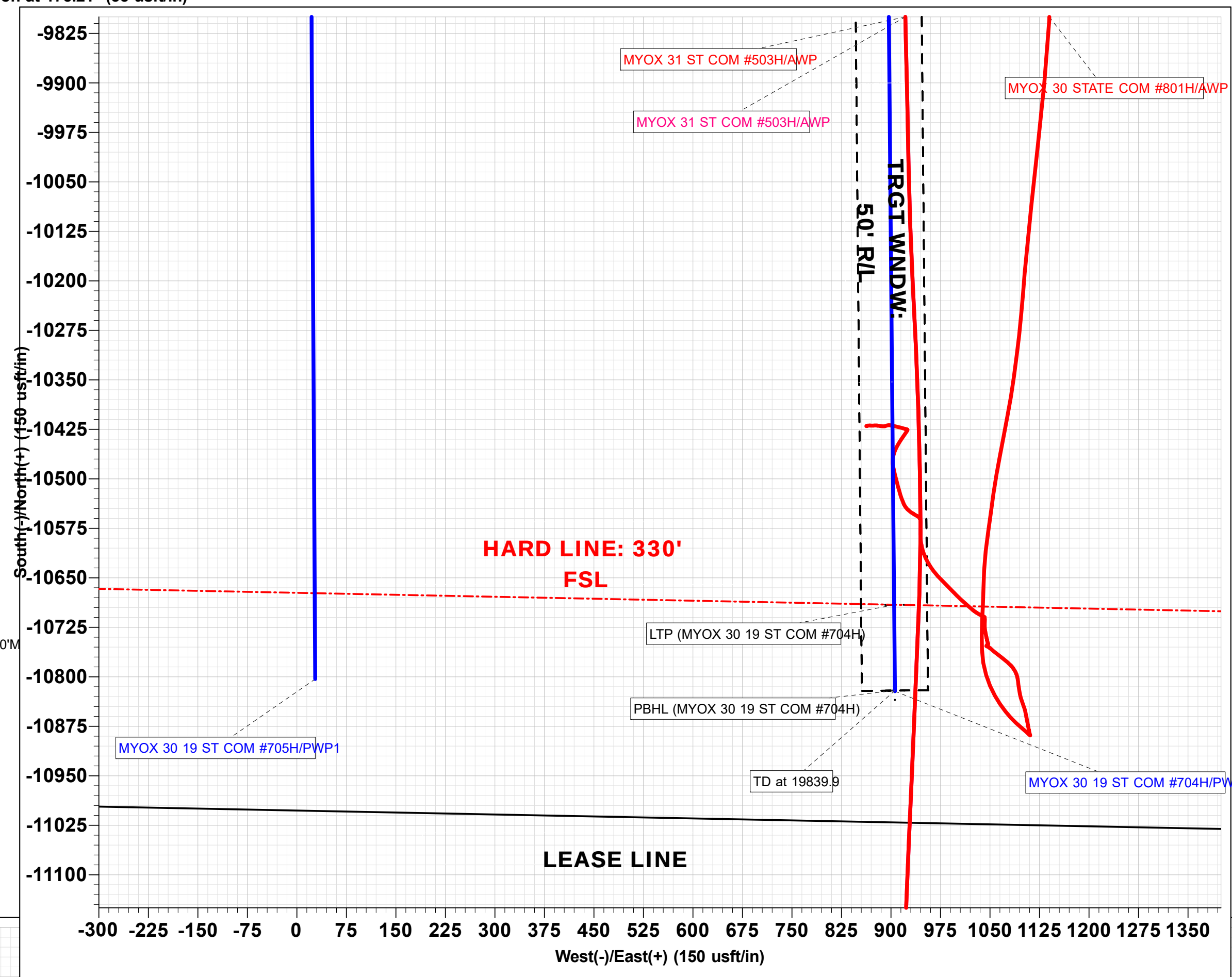
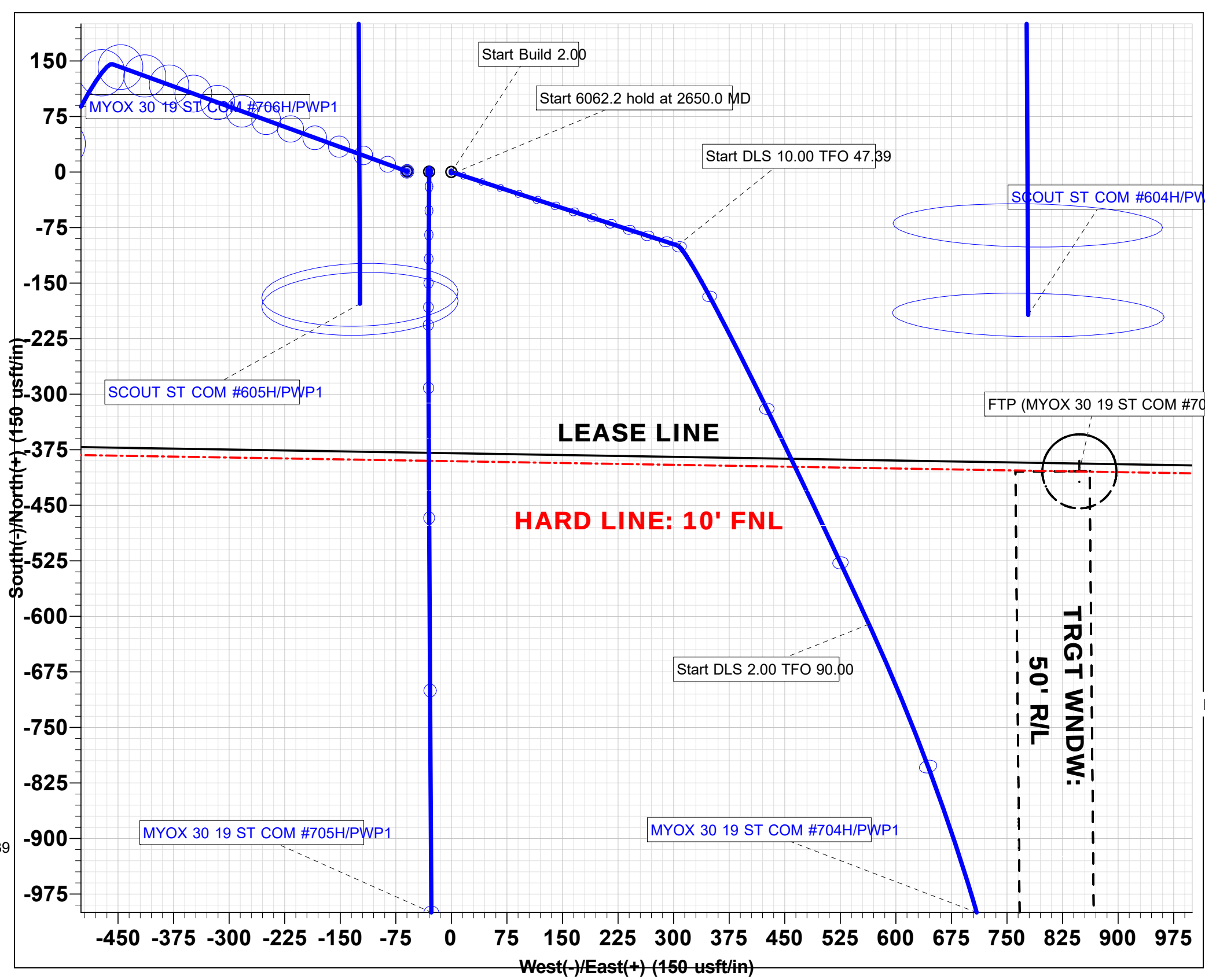
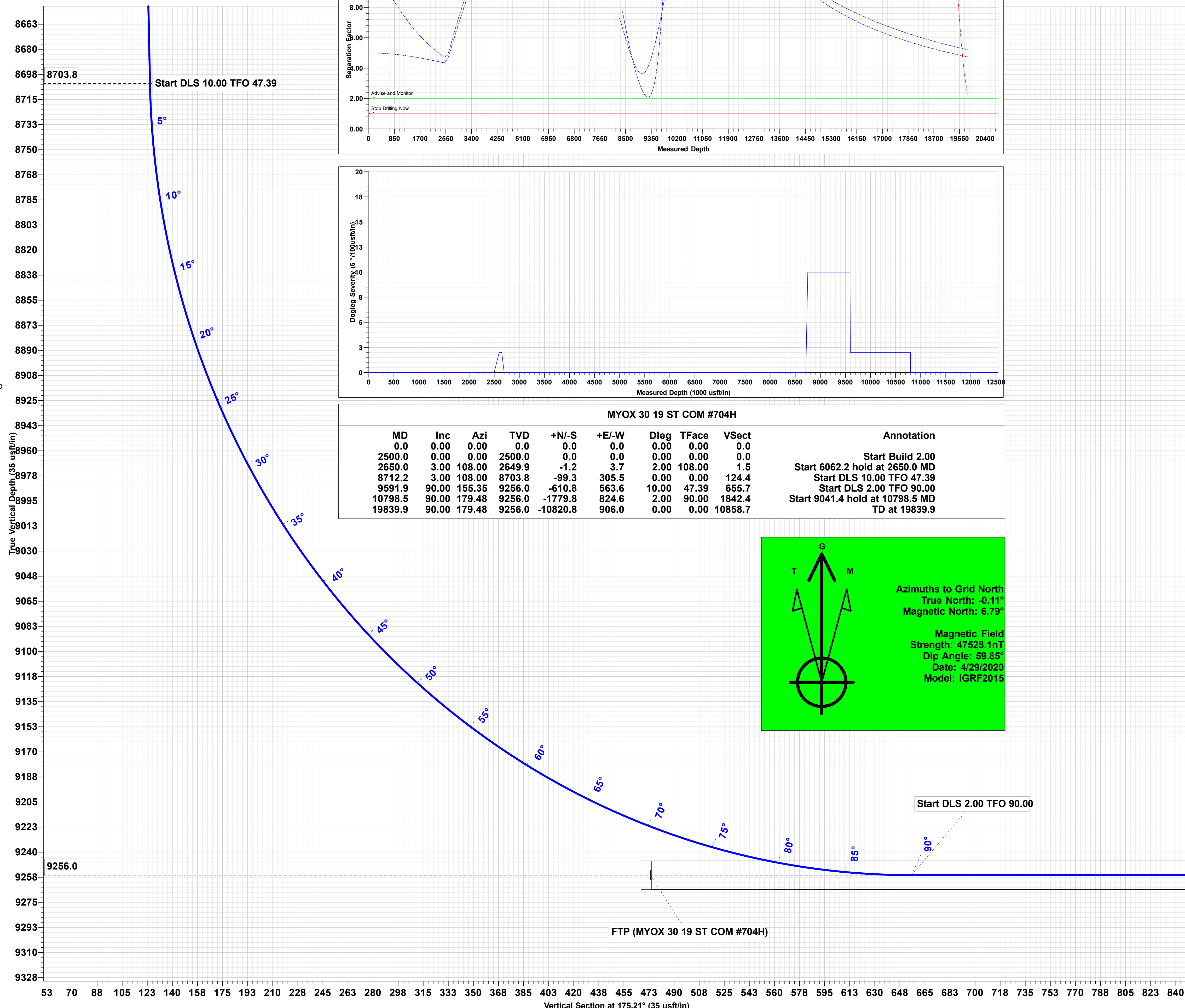
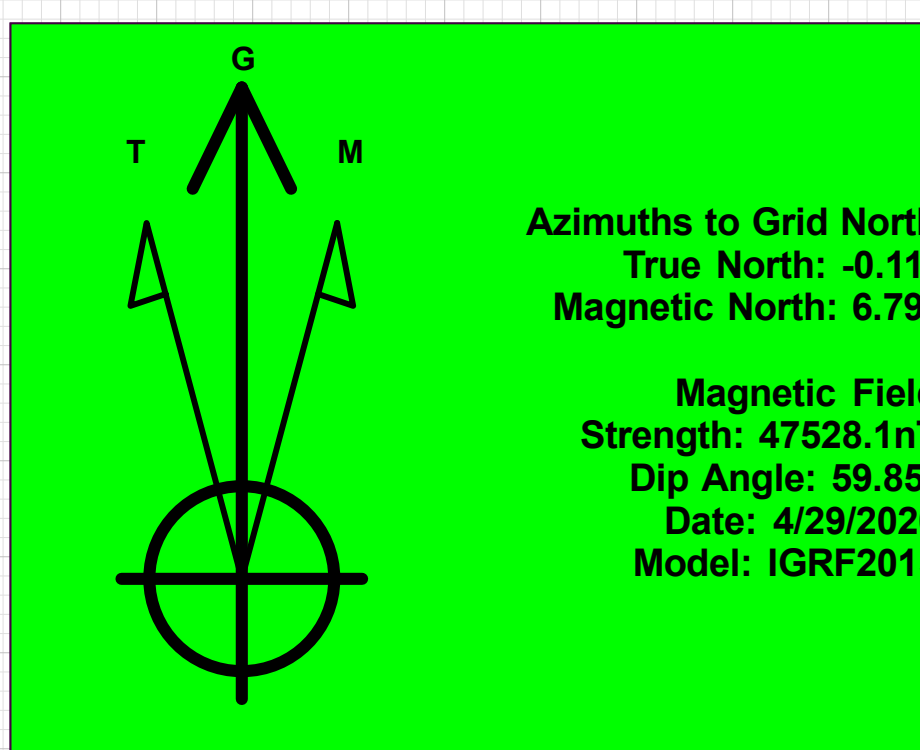
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (MYOX 30 19 ST COM #704H)	9256.0	-404.2	847.7	408337.80	563631.80	32° 7' 20.893 N	104° 7' 40.653 W
LTP (MYOX 30 19 ST COM #704H)	9256.0	-10690.8	905.6	398051.24	563689.68	32° 5' 39.091 N	104° 7' 39.608 W
PBHL (MYOX 30 19 ST COM #704H)	9256.0	-10820.8	906.0	397921.21	563690.08	32° 5' 37.804 N	104° 7' 39.606 W



MYOX 30 19 ST COM #704H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start 6062.2 hold at 2650.0 MD
2650.0	3.00	108.00	2649.9	-1.2	3.7	2.00	108.00	1.5	Start DLS 10.00 TFO 47.39
8712.2	3.00	108.00	8703.8	-99.3	305.5	0.00	0.00	124.4	Start DLS 2.00 TFO 90.00
8991.9	90.00	155.35	9256.0	-810.8	563.6	10.00	47.39	655.7	Start 9041.4 hold at 10798.5 MD
10798.5	90.00	179.48	9256.0	-1779.8	824.6	2.00	90.00	1842.4	TD at 19839.9
19839.9	90.00	179.48	9256.0	-10620.8	906.0	0.00	0.00	10858.7	



TRGT WNDW:
10 A/B

Intent ☒ As Drilled ☐

API #		
Operator Name: COG Operating LLC	Property Name: Myox 30 19 State Com	Well Number 704H

Kick Off Point (KOP)

UL N	Section 18	Township 25S	Range 28E	Lot	Feet 380	From N/S FSL	Feet 1356	From E/W FWL	County Eddy
Latitude 32.12358586					Longitude -104.13052836			NAD 83	

First Take Point (FTP)

UL C	Section 19	Township 25S	Range 28E	Lot	Feet 10	From N/S FNL	Feet 2202	From E/W FWL	County Eddy
Latitude 32.12247020					Longitude -104.12779246			NAD 83	

Last Take Point (LTP)

UL N	Section 30	Township 25S	Range 28E	Lot	Feet 330	From N/S FSL	Feet 2202	From E/W FWL	County Eddy
Latitude 32.09419185					Longitude -104.12766891			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

☐ N

Is this well an infill well?

☐ Y

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name: COG Operating LLC	Property Name: Myox 30 19 State Com	Well Number 705H

KZ 06/29/2018