

RECEIVED
By RPodany at 11:52 am, Jul 02, 2019

BAM Permian Operating, LLC
Project: Chaves County, NM (NAD 83)
Site: (Linley) Sec-32_T-15-S_R-29-E
Well: Linley State 001H
Wellbore: OWB
Design: Plan #1
Lat: 32° 57' 57.353 N
Long: 104° 3' 23.060 W
Pad GL: 3741.00
KB: KB @ 3741.00usft



WELL DETAILS: Linley State 001H

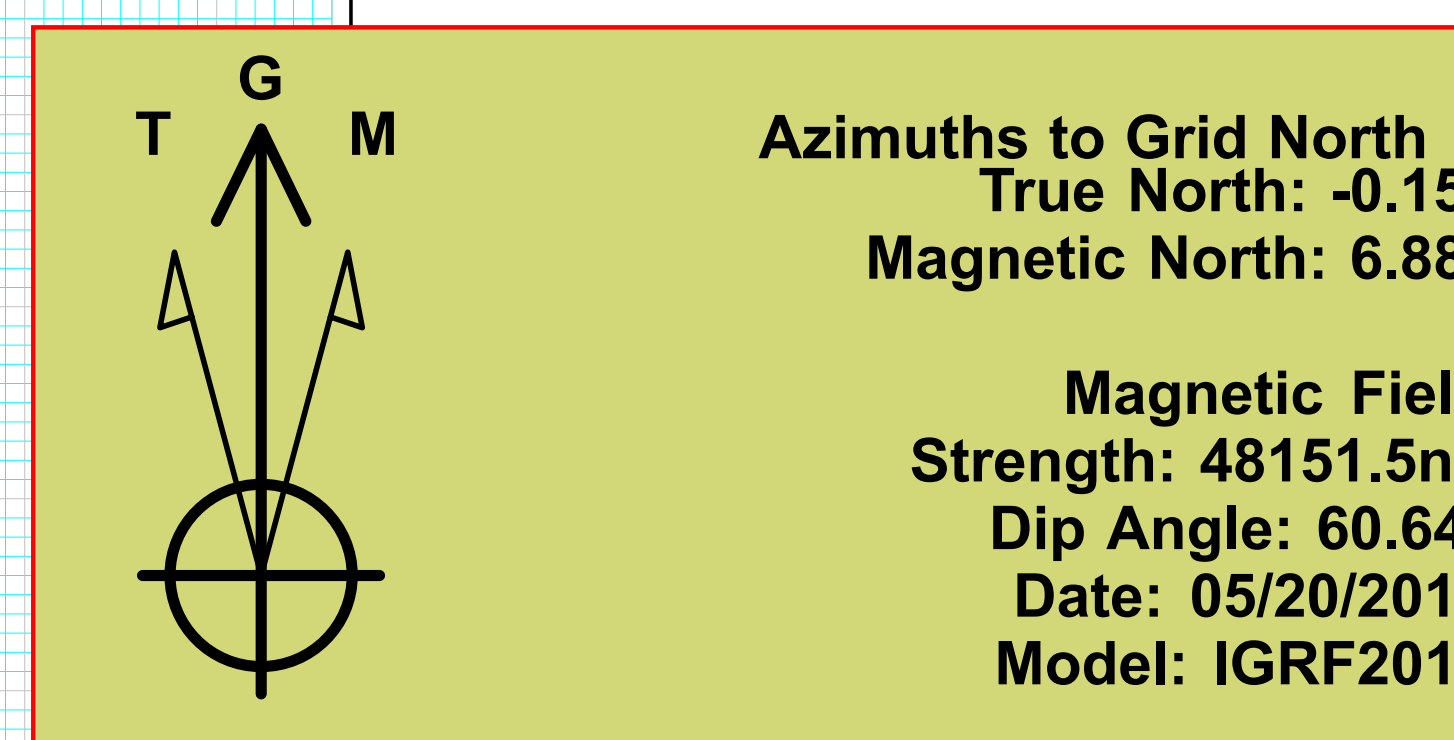
				3741.00			
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	0.00	715253.1000	626269.8000	32° 57' 57.353 N	104° 3' 23.060 W	

SECTION DETAILS

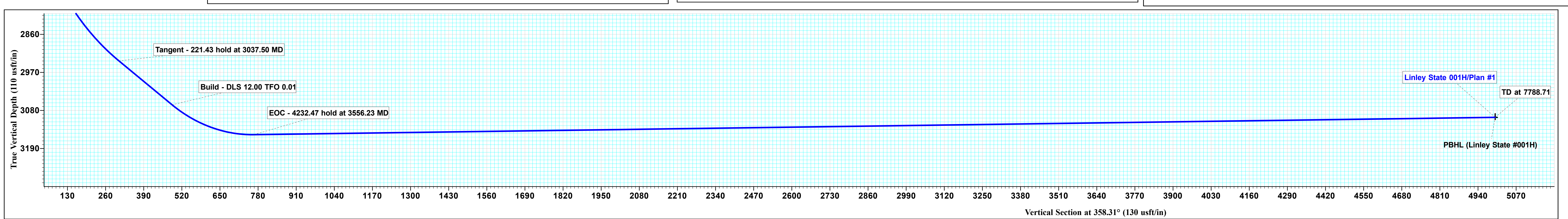
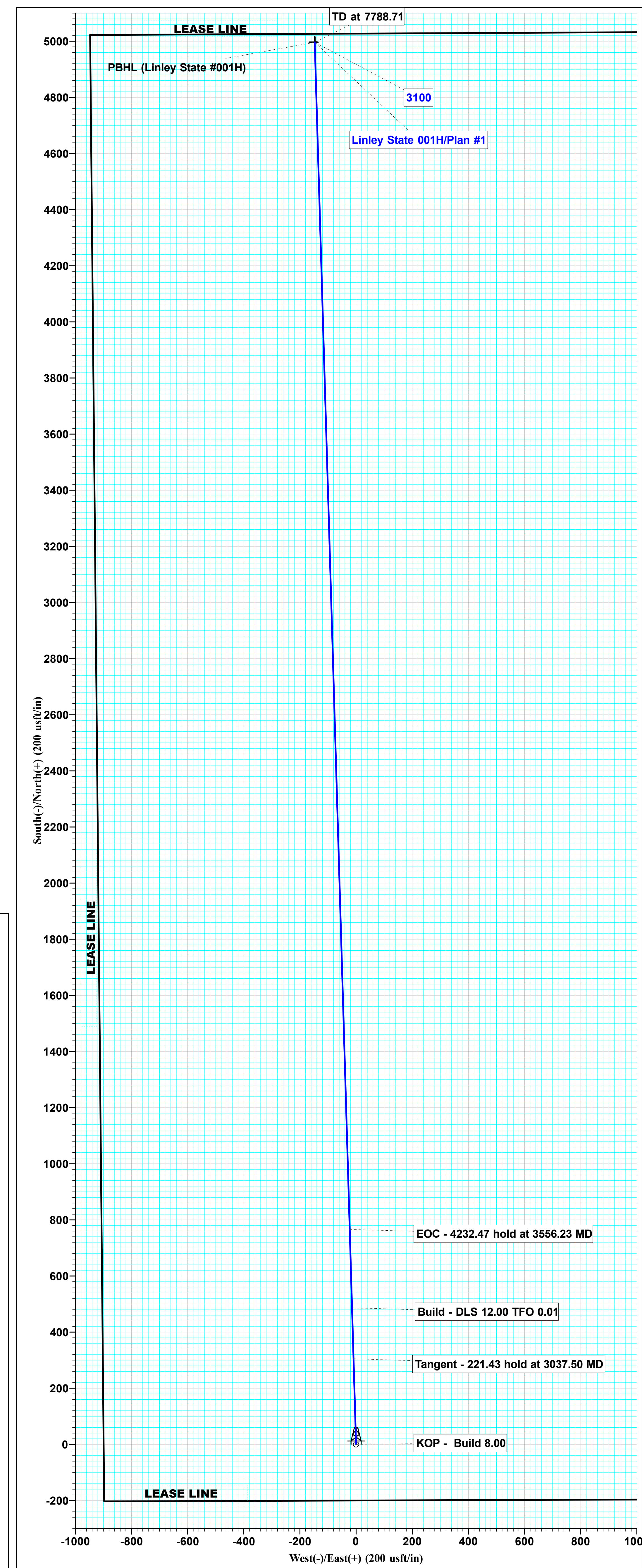
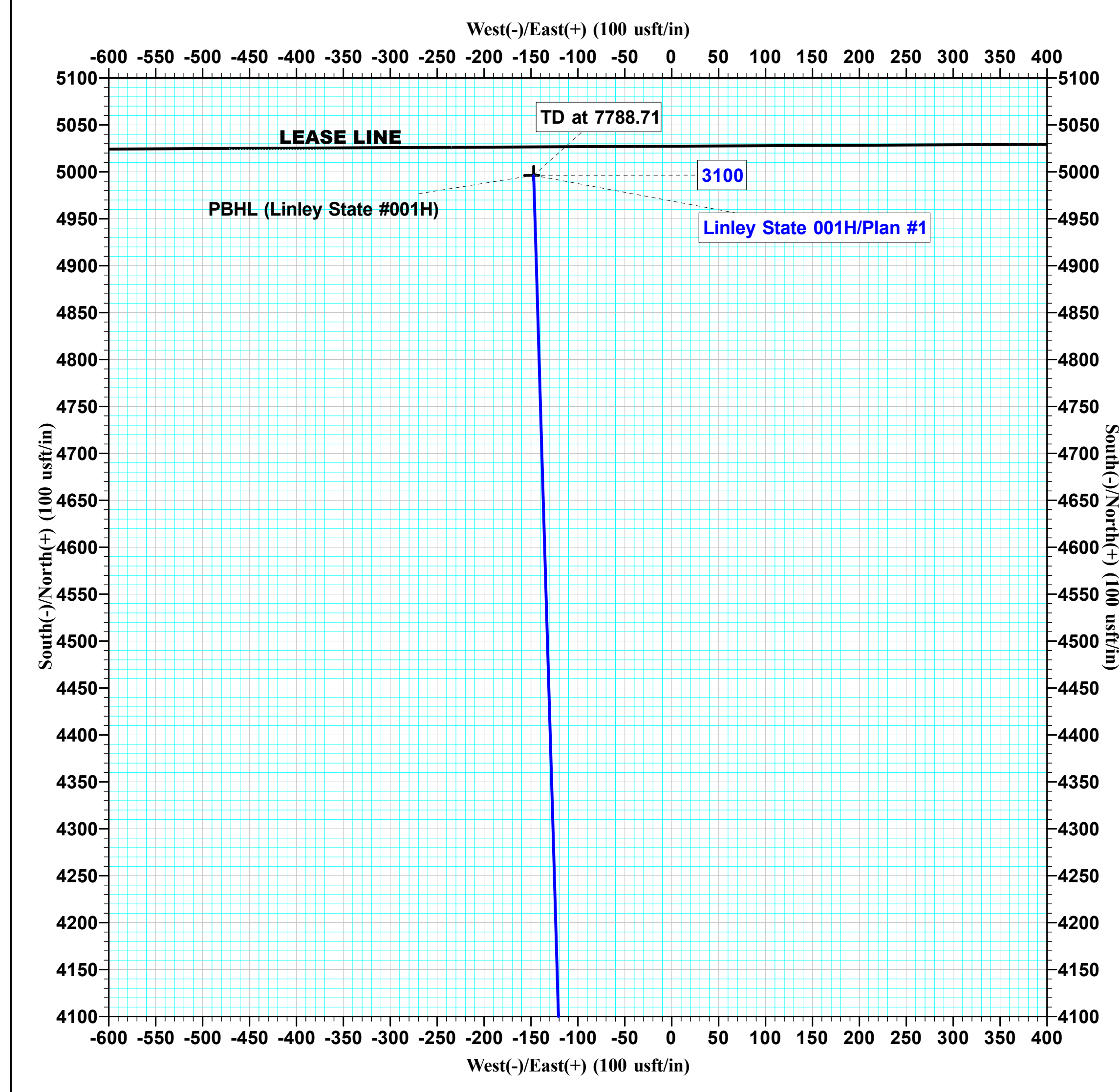
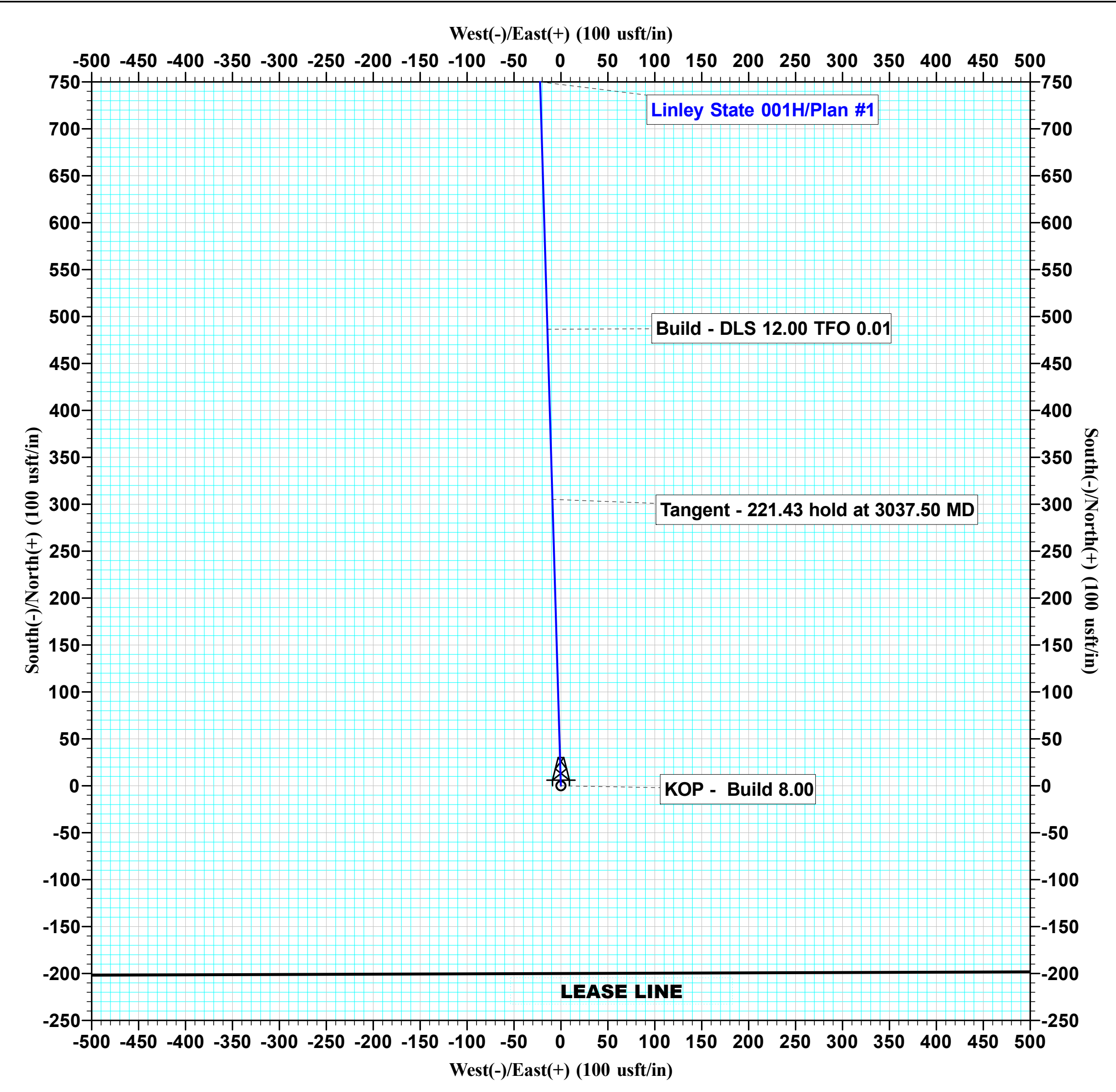
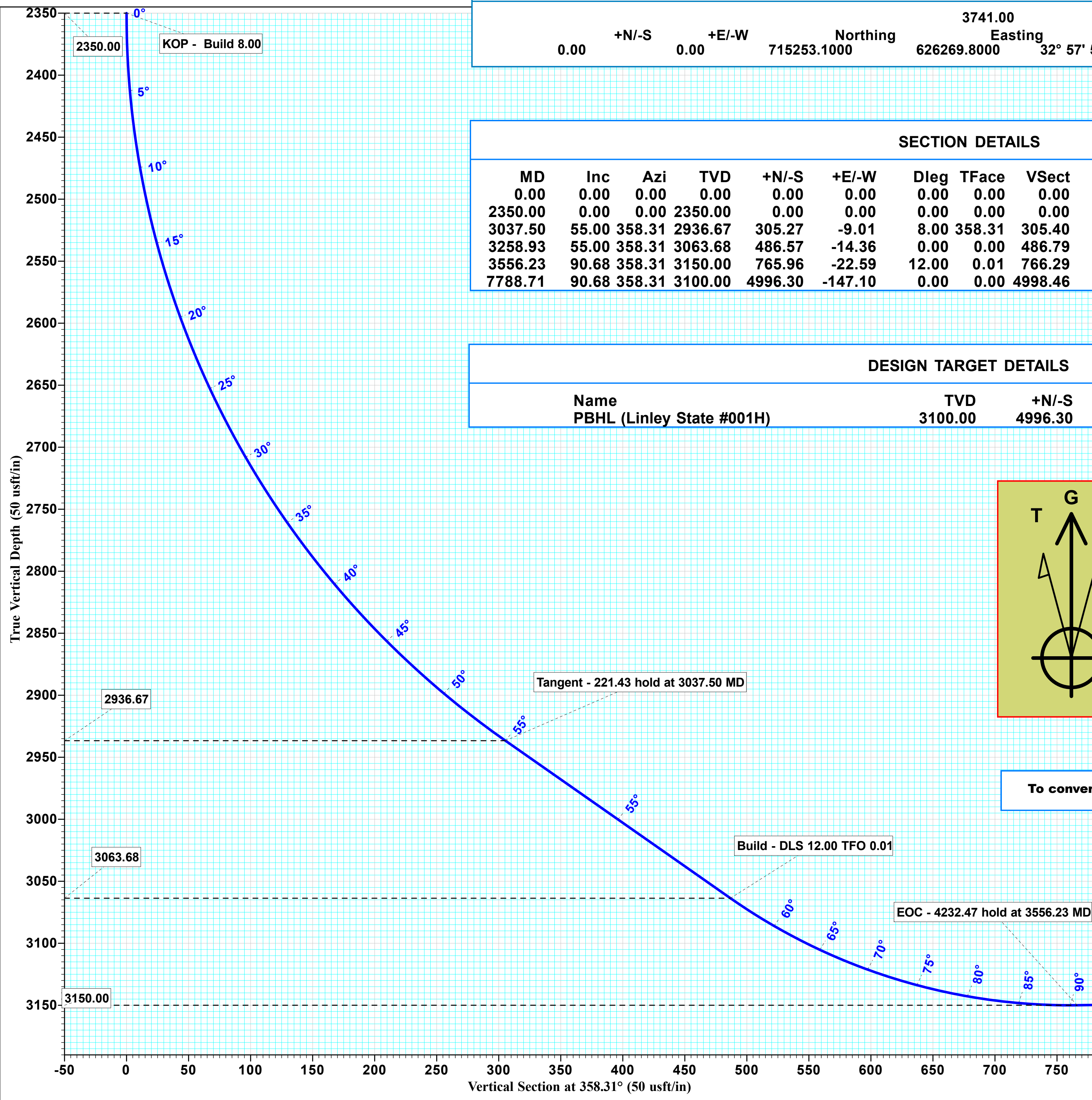
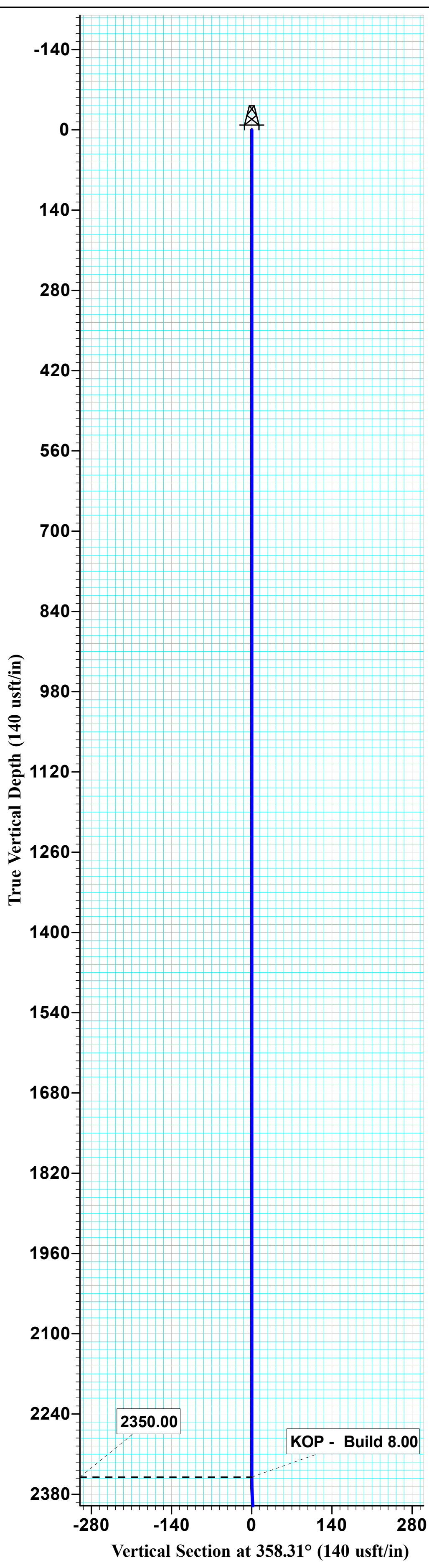
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2350.00	0.00	0.00	2350.00	0.00	0.00	0.00	0.00	0.00	KOP - Build 8.00
3037.50	55.00	358.31	2936.67	305.27	-9.01	8.00	358.31	305.40	Tangent - 221.43 hold at 3037.50 MD
3258.93	55.00	358.31	3063.68	486.57	-14.36	0.00	0.00	486.79	Build - DLS 12.00 TFO 0.01
3556.23	90.68	358.31	3150.00	765.96	-22.59	12.00	0.01	766.29	EOC - 4232.47 hold at 3556.23 MD
7788.71	90.68	358.31	3100.00	4996.30	-147.10	0.00	0.00	4998.46	TD at 7788.71

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Linley State #001H)	3100.00	4996.30	-147.10	720249.4000	626122.7000



To convert a Magnetic Direction to a Grid Direction, Add 6.88°



Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Linley State 001H
Company:	BAM Permian Operating, LLC	TVD Reference:	KB @ 3741.00usft
Project:	Chaves County, NM (NAD 83	MD Reference:	KB @ 3741.00usft
Site:	(Linley) Sec-32_T-15-S_R-29-E	North Reference:	Grid
Well:	Linley State 001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Project	Chaves County, NM (NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Linley) Sec-32_T-15-S_R-29-E		
Site Position:		Northing:	715,253.1000 usft
From:	Map	Easting:	626,269.8000 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 57' 57.353 N
		Longitude:	104° 3' 23.060 W
		Grid Convergence:	0.15 °

Well	Linley State 001H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,741.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/20/19	7.03	60.64	48,151.53867126

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	358.31

Plan Survey Tool Program	Date	05/22/19		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	7,788.61	Plan #1 (OWB)	

Plan Sections										
Measured	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,037.50	55.00	358.31	2,936.67	305.27	-9.01	8.00	8.00	0.00	358.31	
3,258.93	55.00	358.31	3,063.68	486.57	-14.36	0.00	0.00	0.00	0.00	
3,556.23	90.68	358.31	3,150.00	765.96	-22.59	12.00	12.00	0.00	0.01	
7,788.71	90.68	358.31	3,100.00	4,996.30	-147.10	0.00	0.00	0.00	0.00	PBHL (Linley State

Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Linley State 001H
Company:	BAM Permian Operating, LLC	TVD Reference:	KB @ 3741.00usft
Project:	Chaves County, NM (NAD 83	MD Reference:	KB @ 3741.00usft
Site:	(Linley) Sec-32_T-15-S_R-29-E	North Reference:	Grid
Well:	Linley State 001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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)
0.00	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
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 8.00									
2,400.00	4.00	358.31	2,399.96	1.74	-0.05	1.74	8.00	8.00	0.00
2,450.00	8.00	358.31	2,449.68	6.97	-0.21	6.97	8.00	8.00	0.00
2,500.00	12.00	358.31	2,498.91	15.64	-0.46	15.65	8.00	8.00	0.00
2,550.00	16.00	358.31	2,547.41	27.73	-0.82	27.74	8.00	8.00	0.00
2,600.00	20.00	358.31	2,594.95	43.17	-1.27	43.19	8.00	8.00	0.00
2,650.00	24.00	358.31	2,641.30	61.89	-1.83	61.92	8.00	8.00	0.00
2,700.00	28.00	358.31	2,686.23	83.80	-2.47	83.83	8.00	8.00	0.00
2,750.00	32.00	358.31	2,729.53	108.78	-3.21	108.83	8.00	8.00	0.00
2,800.00	36.00	358.31	2,770.97	136.72	-4.03	136.78	8.00	8.00	0.00
2,850.00	40.00	358.31	2,810.36	167.49	-4.94	167.56	8.00	8.00	0.00
2,900.00	44.00	358.31	2,847.51	200.92	-5.93	201.01	8.00	8.00	0.00
2,950.00	48.00	358.31	2,882.24	236.86	-6.99	236.97	8.00	8.00	0.00
3,000.00	52.00	358.31	2,914.37	275.14	-8.12	275.26	8.00	8.00	0.00
3,037.50	55.00	358.31	2,936.67	305.27	-9.01	305.40	8.00	8.00	0.00
Tangent - 221.43 hold at 3037.50 MD									
3,100.00	55.00	358.31	2,972.52	356.45	-10.52	356.60	0.00	0.00	0.00
3,200.00	55.00	358.31	3,029.88	438.32	-12.93	438.52	0.00	0.00	0.00
3,258.93	55.00	358.31	3,063.68	486.57	-14.36	486.79	0.00	0.00	0.00
Build - DLS 12.00 TFO 0.01									
3,275.00	56.93	358.31	3,072.68	499.89	-14.75	500.10	12.00	12.00	0.00
3,300.00	59.93	358.31	3,085.76	521.18	-15.38	521.40	12.00	12.00	0.00
3,325.00	62.93	358.31	3,097.72	543.12	-16.02	543.36	12.00	12.00	0.00
3,350.00	65.93	358.31	3,108.51	565.66	-16.69	565.90	12.00	12.00	0.00
3,375.00	68.93	358.31	3,118.10	588.73	-17.37	588.99	12.00	12.00	0.00
3,400.00	71.93	358.31	3,126.48	612.27	-18.06	612.54	12.00	12.00	0.00
3,425.00	74.93	358.31	3,133.61	636.22	-18.77	636.50	12.00	12.00	0.00
3,450.00	77.93	358.31	3,139.47	660.51	-19.48	660.80	12.00	12.00	0.00

Planning Report

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Company:	BAM Permian Operating, LLC	TVD Reference:	KB @ 3741.00usft
Project:	Chaves County, NM (NAD 83	MD Reference:	KB @ 3741.00usft
Site:	(Linley) Sec-32_T-15-S_R-29-E	North Reference:	Grid
Well:	Linley State 001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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)
3,475.00	80.93	358.31	3,144.06	685.07	-20.21	685.37	12.00	12.00	0.00
3,500.00	83.93	358.31	3,147.35	709.84	-20.94	710.15	12.00	12.00	0.00
3,525.00	86.93	358.31	3,149.34	734.75	-21.67	735.07	12.00	12.00	0.00
3,550.00	89.93	358.31	3,150.03	759.72	-22.40	760.05	12.00	12.00	0.00
3,556.23	90.68	358.31	3,150.00	765.96	-22.59	766.29	12.00	12.00	0.00
EOC - 4232.47 hold at 3556.23 MD									
3,600.00	90.68	358.31	3,149.48	809.70	-23.88	810.05	0.00	0.00	0.00
3,700.00	90.68	358.31	3,148.30	909.65	-26.82	910.04	0.00	0.00	0.00
3,800.00	90.68	358.31	3,147.12	1,009.60	-29.76	1,010.04	0.00	0.00	0.00
3,900.00	90.68	358.31	3,145.93	1,109.55	-32.70	1,110.03	0.00	0.00	0.00
4,000.00	90.68	358.31	3,144.75	1,209.50	-35.64	1,210.02	0.00	0.00	0.00
4,100.00	90.68	358.31	3,143.57	1,309.45	-38.58	1,310.02	0.00	0.00	0.00
4,200.00	90.68	358.31	3,142.39	1,409.40	-41.53	1,410.01	0.00	0.00	0.00
4,300.00	90.68	358.31	3,141.21	1,509.35	-44.47	1,510.00	0.00	0.00	0.00
4,400.00	90.68	358.31	3,140.03	1,609.30	-47.41	1,610.00	0.00	0.00	0.00
4,500.00	90.68	358.31	3,138.85	1,709.25	-50.35	1,709.99	0.00	0.00	0.00
4,600.00	90.68	358.31	3,137.67	1,809.20	-53.29	1,809.98	0.00	0.00	0.00
4,700.00	90.68	358.31	3,136.48	1,909.15	-56.24	1,909.97	0.00	0.00	0.00
4,800.00	90.68	358.31	3,135.30	2,009.10	-59.18	2,009.97	0.00	0.00	0.00
4,900.00	90.68	358.31	3,134.12	2,109.05	-62.12	2,109.96	0.00	0.00	0.00
5,000.00	90.68	358.31	3,132.94	2,209.00	-65.06	2,209.95	0.00	0.00	0.00
5,100.00	90.68	358.31	3,131.76	2,308.95	-68.00	2,309.95	0.00	0.00	0.00
5,200.00	90.68	358.31	3,130.58	2,408.90	-70.94	2,409.94	0.00	0.00	0.00
5,300.00	90.68	358.31	3,129.40	2,508.85	-73.89	2,509.93	0.00	0.00	0.00
5,400.00	90.68	358.31	3,128.22	2,608.79	-76.83	2,609.93	0.00	0.00	0.00
5,500.00	90.68	358.31	3,127.03	2,708.74	-79.77	2,709.92	0.00	0.00	0.00
5,600.00	90.68	358.31	3,125.85	2,808.69	-82.71	2,809.91	0.00	0.00	0.00
5,700.00	90.68	358.31	3,124.67	2,908.64	-85.65	2,909.90	0.00	0.00	0.00
5,800.00	90.68	358.31	3,123.49	3,008.59	-88.60	3,009.90	0.00	0.00	0.00
5,900.00	90.68	358.31	3,122.31	3,108.54	-91.54	3,109.89	0.00	0.00	0.00
6,000.00	90.68	358.31	3,121.13	3,208.49	-94.48	3,209.88	0.00	0.00	0.00
6,100.00	90.68	358.31	3,119.95	3,308.44	-97.42	3,309.88	0.00	0.00	0.00
6,200.00	90.68	358.31	3,118.77	3,408.39	-100.36	3,409.87	0.00	0.00	0.00
6,300.00	90.68	358.31	3,117.59	3,508.34	-103.30	3,509.86	0.00	0.00	0.00
6,400.00	90.68	358.31	3,116.40	3,608.29	-106.25	3,609.86	0.00	0.00	0.00
6,500.00	90.68	358.31	3,115.22	3,708.24	-109.19	3,709.85	0.00	0.00	0.00
6,600.00	90.68	358.31	3,114.04	3,808.19	-112.13	3,809.84	0.00	0.00	0.00
6,700.00	90.68	358.31	3,112.86	3,908.14	-115.07	3,909.84	0.00	0.00	0.00
6,800.00	90.68	358.31	3,111.68	4,008.09	-118.01	4,009.83	0.00	0.00	0.00
6,900.00	90.68	358.31	3,110.50	4,108.04	-120.96	4,109.82	0.00	0.00	0.00
7,000.00	90.68	358.31	3,109.32	4,207.99	-123.90	4,209.81	0.00	0.00	0.00
7,100.00	90.68	358.31	3,108.14	4,307.94	-126.84	4,309.81	0.00	0.00	0.00
7,200.00	90.68	358.31	3,106.95	4,407.89	-129.78	4,409.80	0.00	0.00	0.00
7,300.00	90.68	358.31	3,105.77	4,507.84	-132.72	4,509.79	0.00	0.00	0.00
7,400.00	90.68	358.31	3,104.59	4,607.79	-135.66	4,609.79	0.00	0.00	0.00
7,500.00	90.68	358.31	3,103.41	4,707.74	-138.61	4,709.78	0.00	0.00	0.00
7,600.00	90.68	358.31	3,102.23	4,807.69	-141.55	4,809.77	0.00	0.00	0.00
7,700.00	90.68	358.31	3,101.05	4,907.64	-144.49	4,909.77	0.00	0.00	0.00
7,788.71	90.68	358.31	3,100.00	4,996.30	-147.10	4,998.47	0.00	0.00	0.00
TD at 7788.71									

Planning Report

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Company:	BAM Permian Operating, LLC	TVD Reference:	KB @ 3741.00usft
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Well:	Linley State 001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL (Linley State #C	0.00	0.00	3,100.00	4,996.30	-147.10	720,249.4000	626,122.7000	32° 58' 46.794 N	104° 3' 24.633 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2,350.00	2,350.00	0.00	0.00	KOP - Build 8.00
3,037.50	2,936.67	305.27	-9.01	Tangent - 221.43 hold at 3037.50 MD
3,258.93	3,063.68	486.57	-14.36	Build - DLS 12.00 TFO 0.01
3,556.23	3,150.00	765.96	-22.59	EOC - 4232.47 hold at 3556.23 MD
7,788.71	3,100.00	4,996.30	-147.10	TD at 7788.71