

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

EMNRD-OCD ARTESIA Form C-103
REC'D: 7/10/2020 Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-45705
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator COG Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator 600 W. Illinois Ave., Midland, TX 79701		7. Lease Name or Unit Agreement Name Bigfoot State Com
4. Well Location Unit Letter <u>M</u> : <u>1305</u> feet from the <u>South</u> line and <u>410</u> feet from the <u>West</u> line Section <u>20</u> Township <u>19S</u> Range <u>28E</u> NMPM County <u>Eddy</u>		8. Well Number <u>501H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3481' GR		9. OGRID Number 229137
		10. Pool name or Wildcat Winchester; Bone Spring, West 97569

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

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

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC respectfully requests to change the location of this well:

FROM:

SHL: 1305 FSL 410 FWL, Sec 20, T19S, R28E, Unit M
BHL: 660 FSL 50 FEL, Sec 21, T19S, R28E, Unit P

TO:

SHL: 1065 FSL 250 FEL, Sec 19, T19S, R28E, Unit P
BHL: 330 FSL 50 FEL, Sec 21, T19S, R28E, Unit P

Attached are the revised C102, Drilling and Directional Plans.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE Regulatory Compliance Lead DATE 07/10/2020

Type or print name Robyn M. Russell E-mail address: Russell@concho.com PHONE: (432) 685-4385

For State Use Only

APPROVED BY:  TITLE Geologist DATE 7/15/2020

Conditions of Approval (if any):

District I
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Phone: (505) 476-3460 Fax: (505) 476-3462

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 30-015-45705	2 Pool Code 97569	3 Pool Name Winchester; Bone Spring, West
4 Property Code 316035	5 Property Name BIGFOOT STATE COM	6 Well Number 501H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3502'

10 Surface Location

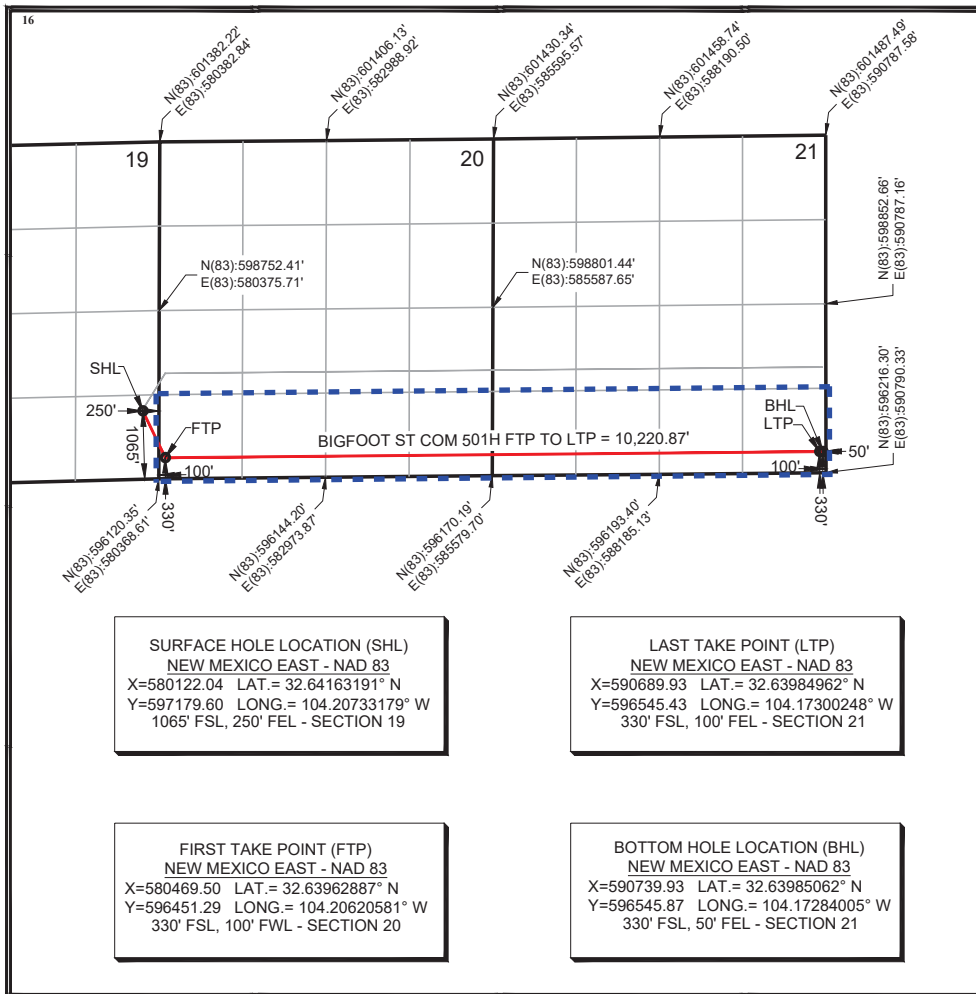
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	19-S	28-E		1065'	SOUTH	250'	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	19-S	28-E		330'	SOUTH	50'	EAST	EDDY

12 Dedicated Acres 320	13 Joint or Infill	14 Consolidation Code	15 Order No. 51
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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.



17 OPERATOR CERTIFICATION

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

Signature: *[Signature]* Date: 07/07/2020

Printed Name: Robyn M. Russell

E-mail Address: Rrussell@concho.com

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 05/12/2020
Signature and Seal of Professional Surveyor: *[Signature]*

Certificate Number: 25036

Bigfoot State Com #501H

Casing and Cement

<u>String</u>	<u>Hole Size</u>	<u>Csg OD</u>	<u>PPE</u>	<u>Depth</u>	<u>Sx Cement</u>	<u>TOC</u>
Surface	17-1/2"	13-3/8"	54.5#	250'	200	0'
Intermediate	12-1/4"	9-5/8"	40#	3,380'	850	0'
Production	8-3/4"	5-1/2"	17#	17,651'	3,000	2,800'

Well Plan

Drill 17-1/2" hole to 250' with Saturated Brine. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage to cover the Salt.

Drill 12-1/4" hole to ~3,380' with Cut Brine. Run 9-5/8" 40# J-55 casing to TD and cement to surface in one stage.

Drill 8-3/4" vertical hole, curve & lateral to 17,651' with Cut Brine. Run 5-1/2" 17# P110 BTC casing to TD and cement to 2,800' in one stage.

Well Control

After setting 13-3/8" casing and installing 3000 psi casing head, NU 13-5/8" Cameron BOP. Test annular and casing to 1500 psi and other BOP equipment to 3000 psi.

After setting 9-5/8" casing and installing 3000 psi casing spool, NU 13-5/8" Cameron BOP. Test annular to 1500 psi and other BOP equipment to 3000 psi.

DELAWARE BASIN WEST

EDDY COUNTY, NM

ZEUS

BIGFOOT ST COM 501H

OWB

Plan: PWP1

Standard Survey Report

12 May, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 501H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 501H	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	BIGFOOT ST COM 501H				
Well Position	+N/-S	0.0 usft	Northing:	597,117.75 usft	Latitude: 32° 38' 29.455 N
	+E/-W	0.0 usft	Easting:	538,942.19 usft	Longitude: 104° 12' 24.561 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,502.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/12/2020	7.00	60.22	47,787.28068313

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	93.42	

Survey Tool Program	Date	5/12/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	6,643.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
6,643.0	17,650.9	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:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 501H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 501H	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
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
5,600.0	2.00	160.00	5,600.0	-1.6	0.6	0.7	2.00	2.00	0.00

Concho Resources LLC

Survey Report

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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)
5,700.0	4.00	160.00	5,699.8	-6.6	2.4	2.8	2.00	2.00	0.00
5,800.0	6.00	160.00	5,799.5	-14.7	5.4	6.2	2.00	2.00	0.00
Start 843.2 hold at 5800.0 MD									
5,900.0	6.00	160.00	5,898.9	-24.6	8.9	10.4	0.00	0.00	0.00
6,000.0	6.00	160.00	5,998.4	-34.4	12.5	14.5	0.00	0.00	0.00
6,100.0	6.00	160.00	6,097.8	-44.2	16.1	18.7	0.00	0.00	0.00
6,200.0	6.00	160.00	6,197.3	-54.0	19.7	22.9	0.00	0.00	0.00
6,300.0	6.00	160.00	6,296.7	-63.9	23.2	27.0	0.00	0.00	0.00
6,400.0	6.00	160.00	6,396.2	-73.7	26.8	31.2	0.00	0.00	0.00
6,500.0	6.00	160.00	6,495.6	-83.5	30.4	35.3	0.00	0.00	0.00
6,600.0	6.00	160.00	6,595.1	-93.3	34.0	39.5	0.00	0.00	0.00
6,643.2	6.00	160.00	6,638.0	-97.6	35.5	41.3	0.00	0.00	0.00
Start DLS 10.00 TFO -42.56									
6,700.0	10.88	139.23	6,694.2	-104.4	40.0	46.2	10.00	8.60	-36.55
6,800.0	20.50	128.53	6,790.4	-122.5	59.9	67.1	10.00	9.61	-10.70
6,900.0	30.36	124.55	6,880.6	-147.8	94.5	103.2	10.00	9.86	-3.98
7,000.0	40.28	122.40	6,962.1	-179.6	142.8	153.2	10.00	9.92	-2.15
7,100.0	50.23	120.98	7,032.4	-216.8	203.2	215.7	10.00	9.95	-1.42
7,200.0	60.19	119.93	7,089.4	-258.3	273.9	288.8	10.00	9.96	-1.05
7,300.0	70.16	119.06	7,131.3	-302.9	352.8	370.2	10.00	9.97	-0.86
7,400.0	80.14	118.31	7,156.9	-349.2	437.5	457.5	10.00	9.97	-0.76
7,477.6	87.88	117.75	7,165.0	-385.5	505.6	527.7	10.00	9.97	-0.72
Start DLS 2.00 TFO -90.57									
7,500.0	87.88	117.30	7,165.8	-395.8	525.4	548.1	2.00	-0.02	-2.00
7,600.0	87.86	115.30	7,169.6	-440.1	615.0	640.1	2.00	-0.02	-2.00
7,700.0	87.84	113.30	7,173.3	-481.2	706.1	733.5	2.00	-0.02	-2.00
7,800.0	87.83	111.30	7,177.1	-519.1	798.5	828.0	2.00	-0.01	-2.00
7,900.0	87.82	109.30	7,180.9	-553.8	892.3	923.7	2.00	-0.01	-2.00
8,000.0	87.81	107.30	7,184.7	-585.1	987.1	1,020.2	2.00	-0.01	-2.00
8,100.0	87.81	105.29	7,188.5	-613.2	1,083.0	1,117.6	2.00	0.00	-2.00
8,200.0	87.81	103.29	7,192.4	-637.9	1,179.9	1,215.8	2.00	0.00	-2.00
8,300.0	87.81	101.29	7,196.2	-659.1	1,277.5	1,314.5	2.00	0.00	-2.00
8,400.0	87.81	99.29	7,200.0	-677.0	1,375.8	1,413.7	2.00	0.00	-2.00
8,500.0	87.82	97.29	7,203.8	-691.4	1,474.7	1,513.3	2.00	0.01	-2.00
8,600.0	87.82	95.29	7,207.6	-702.3	1,574.0	1,613.1	2.00	0.01	-2.00
8,700.0	87.84	93.29	7,211.4	-709.8	1,673.6	1,713.0	2.00	0.01	-2.00
8,800.0	87.85	91.28	7,215.2	-713.8	1,773.5	1,812.9	2.00	0.01	-2.00
8,890.5	87.86	89.47	7,218.6	-714.4	1,863.9	1,903.2	2.00	0.02	-2.00
Start 8760.4 hold at 8890.5 MD									
8,900.0	87.86	89.47	7,218.9	-714.3	1,873.4	1,912.6	0.00	0.00	0.00
9,000.0	87.86	89.47	7,222.6	-713.4	1,973.3	2,012.3	0.00	0.00	0.00
9,100.0	87.86	89.47	7,226.4	-712.4	2,073.3	2,112.0	0.00	0.00	0.00
9,200.0	87.86	89.47	7,230.1	-711.5	2,173.2	2,211.7	0.00	0.00	0.00
9,300.0	87.86	89.47	7,233.8	-710.6	2,273.1	2,311.4	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 501H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 501H	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)
9,400.0	87.86	89.47	7,237.5	-709.7	2,373.0	2,411.1	0.00	0.00	0.00
9,500.0	87.86	89.47	7,241.3	-708.8	2,473.0	2,510.8	0.00	0.00	0.00
9,600.0	87.86	89.47	7,245.0	-707.8	2,572.9	2,610.5	0.00	0.00	0.00
9,700.0	87.86	89.47	7,248.7	-706.9	2,672.8	2,710.2	0.00	0.00	0.00
9,800.0	87.86	89.47	7,252.5	-706.0	2,772.8	2,809.9	0.00	0.00	0.00
9,900.0	87.86	89.47	7,256.2	-705.1	2,872.7	2,909.6	0.00	0.00	0.00
10,000.0	87.86	89.47	7,259.9	-704.2	2,972.6	3,009.3	0.00	0.00	0.00
10,100.0	87.86	89.47	7,263.6	-703.2	3,072.5	3,109.0	0.00	0.00	0.00
10,200.0	87.86	89.47	7,267.4	-702.3	3,172.5	3,208.7	0.00	0.00	0.00
10,300.0	87.86	89.47	7,271.1	-701.4	3,272.4	3,308.4	0.00	0.00	0.00
10,400.0	87.86	89.47	7,274.8	-700.5	3,372.3	3,408.1	0.00	0.00	0.00
10,500.0	87.86	89.47	7,278.5	-699.6	3,472.2	3,507.8	0.00	0.00	0.00
10,600.0	87.86	89.47	7,282.3	-698.7	3,572.2	3,607.4	0.00	0.00	0.00
10,700.0	87.86	89.47	7,286.0	-697.7	3,672.1	3,707.1	0.00	0.00	0.00
10,800.0	87.86	89.47	7,289.7	-696.8	3,772.0	3,806.8	0.00	0.00	0.00
10,900.0	87.86	89.47	7,293.4	-695.9	3,871.9	3,906.5	0.00	0.00	0.00
11,000.0	87.86	89.47	7,297.2	-695.0	3,971.9	4,006.2	0.00	0.00	0.00
11,100.0	87.86	89.47	7,300.9	-694.1	4,071.8	4,105.9	0.00	0.00	0.00
11,200.0	87.86	89.47	7,304.6	-693.1	4,171.7	4,205.6	0.00	0.00	0.00
11,300.0	87.86	89.47	7,308.3	-692.2	4,271.6	4,305.3	0.00	0.00	0.00
11,400.0	87.86	89.47	7,312.1	-691.3	4,371.6	4,405.0	0.00	0.00	0.00
11,500.0	87.86	89.47	7,315.8	-690.4	4,471.5	4,504.7	0.00	0.00	0.00
11,600.0	87.86	89.47	7,319.5	-689.5	4,571.4	4,604.4	0.00	0.00	0.00
11,700.0	87.86	89.47	7,323.3	-688.5	4,671.4	4,704.1	0.00	0.00	0.00
11,800.0	87.86	89.47	7,327.0	-687.6	4,771.3	4,803.8	0.00	0.00	0.00
11,900.0	87.86	89.47	7,330.7	-686.7	4,871.2	4,903.5	0.00	0.00	0.00
12,000.0	87.86	89.47	7,334.4	-685.8	4,971.1	5,003.2	0.00	0.00	0.00
12,100.0	87.86	89.47	7,338.2	-684.9	5,071.1	5,102.9	0.00	0.00	0.00
12,200.0	87.86	89.47	7,341.9	-683.9	5,171.0	5,202.5	0.00	0.00	0.00
12,300.0	87.86	89.47	7,345.6	-683.0	5,270.9	5,302.2	0.00	0.00	0.00
12,400.0	87.86	89.47	7,349.3	-682.1	5,370.8	5,401.9	0.00	0.00	0.00
12,500.0	87.86	89.47	7,353.1	-681.2	5,470.8	5,501.6	0.00	0.00	0.00
12,600.0	87.86	89.47	7,356.8	-680.3	5,570.7	5,601.3	0.00	0.00	0.00
12,700.0	87.86	89.47	7,360.5	-679.3	5,670.6	5,701.0	0.00	0.00	0.00
12,800.0	87.86	89.47	7,364.2	-678.4	5,770.5	5,800.7	0.00	0.00	0.00
12,900.0	87.86	89.47	7,368.0	-677.5	5,870.5	5,900.4	0.00	0.00	0.00
13,000.0	87.86	89.47	7,371.7	-676.6	5,970.4	6,000.1	0.00	0.00	0.00
13,100.0	87.86	89.47	7,375.4	-675.7	6,070.3	6,099.8	0.00	0.00	0.00
13,200.0	87.86	89.47	7,379.1	-674.7	6,170.2	6,199.5	0.00	0.00	0.00
13,300.0	87.86	89.47	7,382.9	-673.8	6,270.2	6,299.2	0.00	0.00	0.00
13,400.0	87.86	89.47	7,386.6	-672.9	6,370.1	6,398.9	0.00	0.00	0.00
13,500.0	87.86	89.47	7,390.3	-672.0	6,470.0	6,498.6	0.00	0.00	0.00
13,600.0	87.86	89.47	7,394.1	-671.1	6,570.0	6,598.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 501H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 501H	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)
13,700.0	87.86	89.47	7,397.8	-670.1	6,669.9	6,698.0	0.00	0.00	0.00
13,800.0	87.86	89.47	7,401.5	-669.2	6,769.8	6,797.7	0.00	0.00	0.00
13,900.0	87.86	89.47	7,405.2	-668.3	6,869.7	6,897.3	0.00	0.00	0.00
14,000.0	87.86	89.47	7,409.0	-667.4	6,969.7	6,997.0	0.00	0.00	0.00
14,100.0	87.86	89.47	7,412.7	-666.5	7,069.6	7,096.7	0.00	0.00	0.00
14,200.0	87.86	89.47	7,416.4	-665.5	7,169.5	7,196.4	0.00	0.00	0.00
14,300.0	87.86	89.47	7,420.1	-664.6	7,269.4	7,296.1	0.00	0.00	0.00
14,400.0	87.86	89.47	7,423.9	-663.7	7,369.4	7,395.8	0.00	0.00	0.00
14,500.0	87.86	89.47	7,427.6	-662.8	7,469.3	7,495.5	0.00	0.00	0.00
14,600.0	87.86	89.47	7,431.3	-661.9	7,569.2	7,595.2	0.00	0.00	0.00
14,700.0	87.86	89.47	7,435.0	-660.9	7,669.1	7,694.9	0.00	0.00	0.00
14,800.0	87.86	89.47	7,438.8	-660.0	7,769.1	7,794.6	0.00	0.00	0.00
14,900.0	87.86	89.47	7,442.5	-659.1	7,869.0	7,894.3	0.00	0.00	0.00
15,000.0	87.86	89.47	7,446.2	-658.2	7,968.9	7,994.0	0.00	0.00	0.00
15,100.0	87.86	89.47	7,449.9	-657.3	8,068.8	8,093.7	0.00	0.00	0.00
15,200.0	87.86	89.47	7,453.7	-656.3	8,168.8	8,193.4	0.00	0.00	0.00
15,300.0	87.86	89.47	7,457.4	-655.4	8,268.7	8,293.1	0.00	0.00	0.00
15,400.0	87.86	89.47	7,461.1	-654.5	8,368.6	8,392.8	0.00	0.00	0.00
15,500.0	87.86	89.47	7,464.9	-653.6	8,468.6	8,492.5	0.00	0.00	0.00
15,600.0	87.86	89.47	7,468.6	-652.7	8,568.5	8,592.1	0.00	0.00	0.00
15,700.0	87.86	89.47	7,472.3	-651.7	8,668.4	8,691.8	0.00	0.00	0.00
15,800.0	87.86	89.47	7,476.0	-650.8	8,768.3	8,791.5	0.00	0.00	0.00
15,900.0	87.86	89.47	7,479.8	-649.9	8,868.3	8,891.2	0.00	0.00	0.00
16,000.0	87.86	89.47	7,483.5	-649.0	8,968.2	8,990.9	0.00	0.00	0.00
16,100.0	87.86	89.47	7,487.2	-648.1	9,068.1	9,090.6	0.00	0.00	0.00
16,200.0	87.86	89.47	7,490.9	-647.1	9,168.0	9,190.3	0.00	0.00	0.00
16,300.0	87.86	89.47	7,494.7	-646.2	9,268.0	9,290.0	0.00	0.00	0.00
16,400.0	87.86	89.47	7,498.4	-645.3	9,367.9	9,389.7	0.00	0.00	0.00
16,500.0	87.86	89.47	7,502.1	-644.4	9,467.8	9,489.4	0.00	0.00	0.00
16,600.0	87.86	89.47	7,505.8	-643.5	9,567.7	9,589.1	0.00	0.00	0.00
16,700.0	87.86	89.47	7,509.6	-642.5	9,667.7	9,688.8	0.00	0.00	0.00
16,800.0	87.86	89.47	7,513.3	-641.6	9,767.6	9,788.5	0.00	0.00	0.00
16,900.0	87.86	89.47	7,517.0	-640.7	9,867.5	9,888.2	0.00	0.00	0.00
17,000.0	87.86	89.47	7,520.7	-639.8	9,967.4	9,987.9	0.00	0.00	0.00
17,100.0	87.86	89.47	7,524.5	-638.9	10,067.4	10,087.6	0.00	0.00	0.00
17,200.0	87.86	89.47	7,528.2	-637.9	10,167.3	10,187.2	0.00	0.00	0.00
17,300.0	87.86	89.47	7,531.9	-637.0	10,267.2	10,286.9	0.00	0.00	0.00
17,400.0	87.86	89.47	7,535.7	-636.1	10,367.2	10,386.6	0.00	0.00	0.00
17,500.0	87.86	89.47	7,539.4	-635.2	10,467.1	10,486.3	0.00	0.00	0.00
17,600.0	87.86	89.47	7,543.1	-634.3	10,567.0	10,586.0	0.00	0.00	0.00
17,650.9	87.86	89.47	7,545.0	-633.8	10,617.9	10,636.8	0.00	0.00	0.00
TD at 17650.9									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 501H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 501H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (BIGFOOT ST COM 501H) - hit/miss target - Shape - plan misses target center by 377.2usft at 7496.2usft MD (7165.7 TVD, -394.0 N, 522.0 E) - Circle (radius 50.0)	0.00	0.00	7,175.0	-728.3	347.4	596,389.46	539,289.64	32° 38' 22.244 N	104° 12' 20.508 W
PBHL (BIGFOOT ST COM 501H) - plan hits target center - Rectangle (sides W100.0 H10,221.0 D20.0)	-2.13	269.47	7,545.0	-633.8	10,617.9	596,483.96	549,560.07	32° 38' 23.041 N	104° 10' 20.394 W
LTP (BIGFOOT ST COM 501H) - plan misses target center by 2.1usft at 17600.0usft MD (7543.1 TVD, -634.3 N, 10567.0 E) - Point	0.00	0.00	7,545.0	-634.2	10,567.9	596,483.52	549,510.07	32° 38' 23.038 N	104° 10' 20.979 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5500	5500	0	0	Start Build 2.00
5800	5799	-15	5	Start 843.2 hold at 5800.0 MD
6643	6638	-98	36	Start DLS 10.00 TFO -42.56
7478	7165	-385	506	Start DLS 2.00 TFO -90.57
8891	7219	-714	1864	Start 8760.4 hold at 8890.5 MD
17,651	7545	-634	10,618	TD at 17650.9

Checked By: _____ Approved By: _____ Date: _____

Project: EDDY COUNTY, NM
Site: ZEUS
Well: BIGFOOT ST COM 501H
Wellbore: OWB
Design: PWP1
GL: 3502.0
KB=28' @ 3530.0usft (TBD)

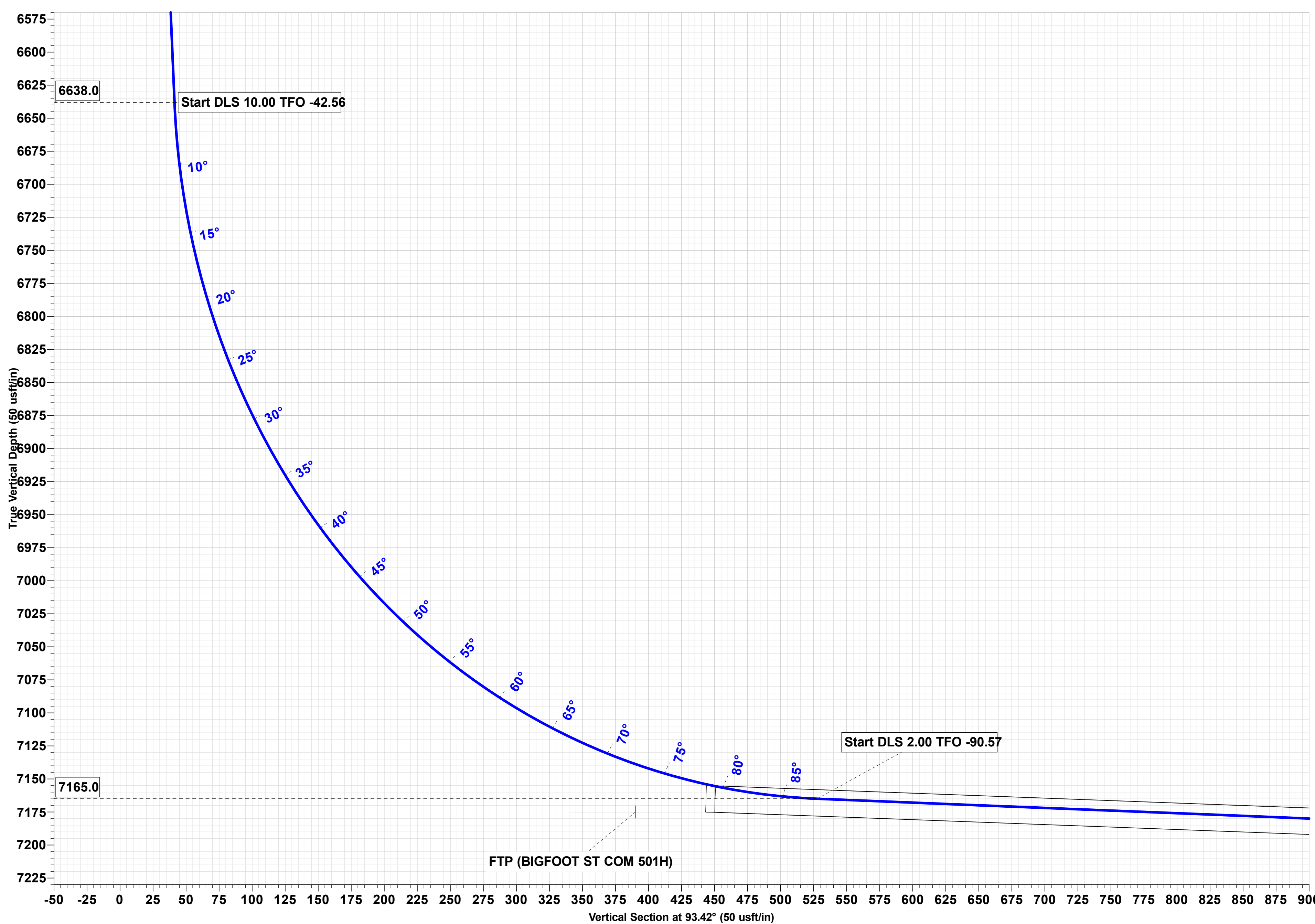
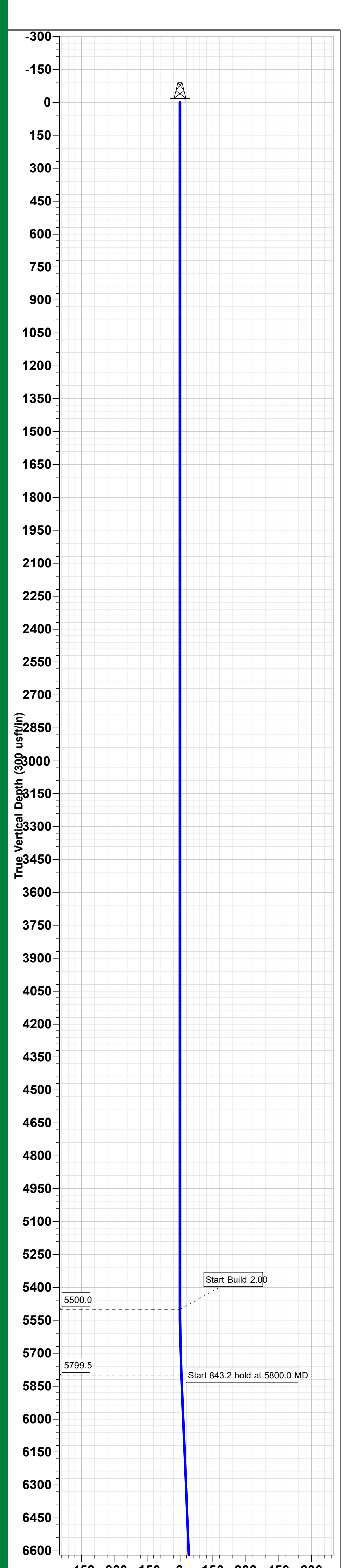
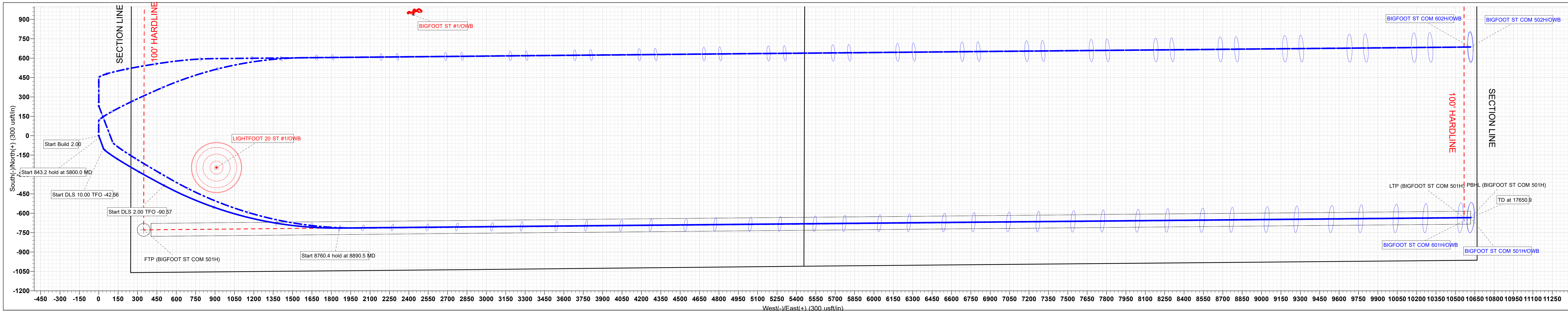
WELL DETAILS: BIGFOOT ST COM 501H

Northing
597117.75

Easting
538942.19

Latitude
32° 38' 29.455 N

Longitude
104° 12' 24.561 W



BIGFOOT ST COM 501H										Annotation
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		Start Build 2.00
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0		Start 843.2 hold at 5800.0 MD
5800.0	6.00	160.00	5799.5	-14.7	5.4	2.00	160.00	6.2		Start DLS 10.00 TFO -42.56
6643.2	6.00	160.00	6638.0	-97.6	35.5	0.00	0.00	41.3		Start DLS 2.00 TFO -90.57
7477.6	87.88	117.75	7165.0	-385.5	505.6	10.00	-42.56	527.7		Start 8760.4 hold at 8890.5 MD
8890.5	87.86	89.47	7218.6	-714.4	1863.9	2.00	-90.57	1903.2		TD at 17650.9
17650.9	87.86	89.47	7545.0	-633.8	10617.9	0.00	0.00	10636.8		

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (BIGFOOT ST COM 501H)	7175.0	-728.3	347.5	596389.46	539289.64
LTP (BIGFOOT ST COM 501H)	7545.0	-634.2	10567.9	596483.52	549510.07
PBHL (BIGFOOT ST COM 501H)	7545.0	-633.8	10617.9	596483.96	549560.07

