

District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240District II – (575) 748-1283
811 S. First St., Artesia, NM 88210District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505State of New Mexico
Energy, Minerals and Natural Resources

EMNRD-OCD ARTESIA

REC'D: 7/10/2020

Form C-103

Revised July 18, 2013

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

WELL API NO.

30-015-45706

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

COG Operating LLC

3. Address of Operator

600 W. Illinois Ave., Midland, TX 79701

7. Lease Name or Unit Agreement Name

Bigfoot State Com

8. Well Number

502H

9. OGRID Number

229137

10. Pool name or Wildcat

Winchester; Bone Spring, West 97569

4. Well Location

Unit Letter L : 1335 feet from the South line and 410 feet from the West lineSection 20 Township 19S Range 28E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3480' GR

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐ CHANGE PLANS ☒PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐DOWNHOLE COMMINGLE ☐CLOSED-LOOP SYSTEM ☐OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐ P AND A ☐CASING/CEMENT JOB ☐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: 1335 FSL 410 FWL, Sec 20, T19S, R28E, Unit L

BHL: 1980 FSL 50 FEL, Sec 21, T19S, R28E, Unit I

TO:

SHL: 1095 FSL 250 FEL, Sec 19, T19S, R28E, Unit P

BHL: 1650 FSL 50 FEL, Sec 21, T19S, R28E, Unit I

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 LeadDATE 07/10/2020

Type or print name

Robyn M. Russell

E-mail address:

Rrussell@concho.com

PHONE:

(432) 685-4385

For State Use Only

APPROVED BY:

TITLE GeologistDATE 7/15/2020

Conditions of Approval (if any):

RWP 7/15/2020

Bigfoot State Com #502H

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#	17,610'	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 17,610' 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 502H

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 502H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 502H	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 502H				
Well Position	+N/-S	0.0 usft	Northing:	597,147.74 usft	Latitude: 32° 38' 29.752 N
	+E/-W	0.0 usft	Easting:	538,941.40 usft	Longitude: 104° 12' 24.570 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	47,787.32911184

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	86.46	

Survey Tool Program	Date	5/12/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	6,602.1	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
6,602.1	17,610.3	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

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Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 502H	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	0.00	5,600.0	1.7	0.0	0.1	2.00	2.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 502H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 502H	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)
5,700.0	4.00	0.00	5,699.8	7.0	0.0	0.4	2.00	2.00	0.00
5,750.0	5.00	0.00	5,749.7	10.9	0.0	0.7	2.00	2.00	0.00
Start 835.3 hold at 5750.0 MD									
5,800.0	5.00	0.00	5,799.5	15.3	0.0	0.9	0.00	0.00	0.00
5,900.0	5.00	0.00	5,899.1	24.0	0.0	1.5	0.00	0.00	0.00
6,000.0	5.00	0.00	5,998.7	32.7	0.0	2.0	0.00	0.00	0.00
6,100.0	5.00	0.00	6,098.4	41.4	0.0	2.6	0.00	0.00	0.00
6,200.0	5.00	0.00	6,198.0	50.1	0.0	3.1	0.00	0.00	0.00
6,300.0	5.00	0.00	6,297.6	58.8	0.0	3.6	0.00	0.00	0.00
6,400.0	5.00	0.00	6,397.2	67.6	0.0	4.2	0.00	0.00	0.00
6,500.0	5.00	0.00	6,496.8	76.3	0.0	4.7	0.00	0.00	0.00
6,585.3	5.00	0.00	6,581.8	83.7	0.0	5.2	0.00	0.00	0.00
Start DLS 10.00 TFO 66.98									
6,600.0	5.74	13.67	6,596.4	85.1	0.2	5.4	10.00	5.01	92.95
6,700.0	14.18	48.33	6,694.9	98.1	10.5	16.6	10.00	8.45	34.67
6,800.0	23.85	56.42	6,789.4	117.5	36.6	43.8	10.00	9.67	8.08
6,900.0	33.71	59.98	6,876.9	142.6	77.6	86.2	10.00	9.86	3.56
7,000.0	43.62	62.06	6,954.9	172.7	132.2	142.6	10.00	9.92	2.08
7,100.0	53.57	63.50	7,020.9	206.9	198.9	211.2	10.00	9.94	1.44
7,200.0	63.52	64.61	7,073.1	244.2	275.5	290.0	10.00	9.96	1.11
7,300.0	73.48	65.54	7,109.7	283.3	359.8	376.5	10.00	9.96	0.93
7,400.0	83.45	66.37	7,129.6	323.2	449.1	468.2	10.00	9.97	0.84
7,445.2	87.96	66.74	7,133.0	341.1	490.5	510.6	10.00	9.97	0.81
Start DLS 2.00 TFO 90.40									
7,500.0	87.95	67.84	7,135.0	362.2	541.0	562.3	2.00	-0.01	2.00
7,600.0	87.94	69.84	7,138.6	398.3	634.2	657.5	2.00	-0.01	2.00
7,700.0	87.93	71.84	7,142.2	431.1	728.6	753.8	2.00	-0.01	2.00
7,800.0	87.93	73.84	7,145.8	460.6	824.1	850.9	2.00	-0.01	2.00
7,900.0	87.92	75.84	7,149.4	486.7	920.5	948.8	2.00	0.00	2.00
8,000.0	87.92	77.84	7,153.0	509.5	1,017.8	1,047.3	2.00	0.00	2.00
8,100.0	87.92	79.84	7,156.7	528.8	1,115.9	1,146.3	2.00	0.00	2.00
8,200.0	87.93	81.85	7,160.3	544.7	1,214.5	1,245.8	2.00	0.00	2.00
8,300.0	87.93	83.85	7,163.9	557.2	1,313.7	1,345.5	2.00	0.01	2.00
8,400.0	87.94	85.85	7,167.5	566.1	1,413.2	1,445.4	2.00	0.01	2.00
8,500.0	87.95	87.85	7,171.1	571.6	1,513.0	1,545.3	2.00	0.01	2.00
8,581.3	87.96	89.47	7,174.0	573.5	1,594.1	1,626.5	2.00	0.01	2.00
Start 9029.0 hold at 8581.3 MD									
8,600.0	87.96	89.47	7,174.6	573.7	1,612.9	1,645.2	0.00	0.00	0.00
8,700.0	87.96	89.47	7,178.2	574.6	1,712.8	1,745.0	0.00	0.00	0.00
8,800.0	87.96	89.47	7,181.8	575.5	1,812.7	1,844.8	0.00	0.00	0.00
8,900.0	87.96	89.47	7,185.3	576.4	1,912.7	1,944.6	0.00	0.00	0.00
9,000.0	87.96	89.47	7,188.9	577.4	2,012.6	2,044.4	0.00	0.00	0.00
9,100.0	87.96	89.47	7,192.4	578.3	2,112.5	2,144.2	0.00	0.00	0.00
9,200.0	87.96	89.47	7,196.0	579.2	2,212.5	2,244.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 502H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 502H	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)
9,300.0	87.96	89.47	7,199.5	580.1	2,312.4	2,343.8	0.00	0.00	0.00
9,400.0	87.96	89.47	7,203.1	581.0	2,412.3	2,443.6	0.00	0.00	0.00
9,500.0	87.96	89.47	7,206.6	581.9	2,512.3	2,543.4	0.00	0.00	0.00
9,600.0	87.96	89.47	7,210.2	582.9	2,612.2	2,643.2	0.00	0.00	0.00
9,700.0	87.96	89.47	7,213.8	583.8	2,712.1	2,743.0	0.00	0.00	0.00
9,800.0	87.96	89.47	7,217.3	584.7	2,812.1	2,842.8	0.00	0.00	0.00
9,900.0	87.96	89.47	7,220.9	585.6	2,912.0	2,942.6	0.00	0.00	0.00
10,000.0	87.96	89.47	7,224.4	586.5	3,011.9	3,042.4	0.00	0.00	0.00
10,100.0	87.96	89.47	7,228.0	587.4	3,111.9	3,142.2	0.00	0.00	0.00
10,200.0	87.96	89.47	7,231.5	588.4	3,211.8	3,242.0	0.00	0.00	0.00
10,300.0	87.96	89.47	7,235.1	589.3	3,311.7	3,341.8	0.00	0.00	0.00
10,400.0	87.96	89.47	7,238.6	590.2	3,411.7	3,441.6	0.00	0.00	0.00
10,500.0	87.96	89.47	7,242.2	591.1	3,511.6	3,541.4	0.00	0.00	0.00
10,600.0	87.96	89.47	7,245.8	592.0	3,611.5	3,641.2	0.00	0.00	0.00
10,700.0	87.96	89.47	7,249.3	592.9	3,711.5	3,741.0	0.00	0.00	0.00
10,800.0	87.96	89.47	7,252.9	593.8	3,811.4	3,840.8	0.00	0.00	0.00
10,900.0	87.96	89.47	7,256.4	594.8	3,911.3	3,940.6	0.00	0.00	0.00
11,000.0	87.96	89.47	7,260.0	595.7	4,011.3	4,040.4	0.00	0.00	0.00
11,100.0	87.96	89.47	7,263.5	596.6	4,111.2	4,140.2	0.00	0.00	0.00
11,200.0	87.96	89.47	7,267.1	597.5	4,211.1	4,240.0	0.00	0.00	0.00
11,300.0	87.96	89.47	7,270.6	598.4	4,311.1	4,339.8	0.00	0.00	0.00
11,400.0	87.96	89.47	7,274.2	599.3	4,411.0	4,439.6	0.00	0.00	0.00
11,500.0	87.96	89.47	7,277.7	600.3	4,510.9	4,539.4	0.00	0.00	0.00
11,600.0	87.96	89.47	7,281.3	601.2	4,610.9	4,639.2	0.00	0.00	0.00
11,700.0	87.96	89.47	7,284.9	602.1	4,710.8	4,739.0	0.00	0.00	0.00
11,800.0	87.96	89.47	7,288.4	603.0	4,810.7	4,838.8	0.00	0.00	0.00
11,900.0	87.96	89.47	7,292.0	603.9	4,910.6	4,938.6	0.00	0.00	0.00
12,000.0	87.96	89.47	7,295.5	604.8	5,010.6	5,038.4	0.00	0.00	0.00
12,100.0	87.96	89.47	7,299.1	605.8	5,110.5	5,138.1	0.00	0.00	0.00
12,200.0	87.96	89.47	7,302.6	606.7	5,210.4	5,237.9	0.00	0.00	0.00
12,300.0	87.96	89.47	7,306.2	607.6	5,310.4	5,337.7	0.00	0.00	0.00
12,400.0	87.96	89.47	7,309.7	608.5	5,410.3	5,437.5	0.00	0.00	0.00
12,500.0	87.96	89.47	7,313.3	609.4	5,510.2	5,537.3	0.00	0.00	0.00
12,600.0	87.96	89.47	7,316.9	610.3	5,610.2	5,637.1	0.00	0.00	0.00
12,700.0	87.96	89.47	7,320.4	611.2	5,710.1	5,736.9	0.00	0.00	0.00
12,800.0	87.96	89.47	7,324.0	612.2	5,810.0	5,836.7	0.00	0.00	0.00
12,900.0	87.96	89.47	7,327.5	613.1	5,910.0	5,936.5	0.00	0.00	0.00
13,000.0	87.96	89.47	7,331.1	614.0	6,009.9	6,036.3	0.00	0.00	0.00
13,100.0	87.96	89.47	7,334.6	614.9	6,109.8	6,136.1	0.00	0.00	0.00
13,200.0	87.96	89.47	7,338.2	615.8	6,209.8	6,235.9	0.00	0.00	0.00
13,300.0	87.96	89.47	7,341.7	616.7	6,309.7	6,335.7	0.00	0.00	0.00
13,400.0	87.96	89.47	7,345.3	617.7	6,409.6	6,435.5	0.00	0.00	0.00
13,500.0	87.96	89.47	7,348.9	618.6	6,509.6	6,535.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 502H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 502H	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	87.96	89.47	7,352.4	619.5	6,609.5	6,635.1	0.00	0.00	0.00
13,700.0	87.96	89.47	7,356.0	620.4	6,709.4	6,734.9	0.00	0.00	0.00
13,800.0	87.96	89.47	7,359.5	621.3	6,809.4	6,834.7	0.00	0.00	0.00
13,900.0	87.96	89.47	7,363.1	622.2	6,909.3	6,934.5	0.00	0.00	0.00
14,000.0	87.96	89.47	7,366.6	623.2	7,009.2	7,034.3	0.00	0.00	0.00
14,100.0	87.96	89.47	7,370.2	624.1	7,109.2	7,134.1	0.00	0.00	0.00
14,200.0	87.96	89.47	7,373.7	625.0	7,209.1	7,233.9	0.00	0.00	0.00
14,300.0	87.96	89.47	7,377.3	625.9	7,309.0	7,333.7	0.00	0.00	0.00
14,400.0	87.96	89.47	7,380.9	626.8	7,409.0	7,433.5	0.00	0.00	0.00
14,500.0	87.96	89.47	7,384.4	627.7	7,508.9	7,533.3	0.00	0.00	0.00
14,600.0	87.96	89.47	7,388.0	628.6	7,608.8	7,633.1	0.00	0.00	0.00
14,700.0	87.96	89.47	7,391.5	629.6	7,708.8	7,732.9	0.00	0.00	0.00
14,800.0	87.96	89.47	7,395.1	630.5	7,808.7	7,832.7	0.00	0.00	0.00
14,900.0	87.96	89.47	7,398.6	631.4	7,908.6	7,932.5	0.00	0.00	0.00
15,000.0	87.96	89.47	7,402.2	632.3	8,008.6	8,032.3	0.00	0.00	0.00
15,100.0	87.96	89.47	7,405.7	633.2	8,108.5	8,132.1	0.00	0.00	0.00
15,200.0	87.96	89.47	7,409.3	634.1	8,208.4	8,231.9	0.00	0.00	0.00
15,300.0	87.96	89.47	7,412.9	635.1	8,308.4	8,331.7	0.00	0.00	0.00
15,400.0	87.96	89.47	7,416.4	636.0	8,408.3	8,431.5	0.00	0.00	0.00
15,500.0	87.96	89.47	7,420.0	636.9	8,508.2	8,531.3	0.00	0.00	0.00
15,600.0	87.96	89.47	7,423.5	637.8	8,608.2	8,631.1	0.00	0.00	0.00
15,700.0	87.96	89.47	7,427.1	638.7	8,708.1	8,730.9	0.00	0.00	0.00
15,800.0	87.96	89.47	7,430.6	639.6	8,808.0	8,830.7	0.00	0.00	0.00
15,900.0	87.96	89.47	7,434.2	640.6	8,908.0	8,930.5	0.00	0.00	0.00
16,000.0	87.96	89.47	7,437.7	641.5	9,007.9	9,030.3	0.00	0.00	0.00
16,100.0	87.96	89.47	7,441.3	642.4	9,107.8	9,130.1	0.00	0.00	0.00
16,200.0	87.96	89.47	7,444.9	643.3	9,207.8	9,229.9	0.00	0.00	0.00
16,300.0	87.96	89.47	7,448.4	644.2	9,307.7	9,329.7	0.00	0.00	0.00
16,400.0	87.96	89.47	7,452.0	645.1	9,407.6	9,429.5	0.00	0.00	0.00
16,500.0	87.96	89.47	7,455.5	646.1	9,507.5	9,529.3	0.00	0.00	0.00
16,600.0	87.96	89.47	7,459.1	647.0	9,607.5	9,629.1	0.00	0.00	0.00
16,700.0	87.96	89.47	7,462.6	647.9	9,707.4	9,728.9	0.00	0.00	0.00
16,800.0	87.96	89.47	7,466.2	648.8	9,807.3	9,828.7	0.00	0.00	0.00
16,900.0	87.96	89.47	7,469.7	649.7	9,907.3	9,928.5	0.00	0.00	0.00
17,000.0	87.96	89.47	7,473.3	650.6	10,007.2	10,028.3	0.00	0.00	0.00
17,100.0	87.96	89.47	7,476.9	651.5	10,107.1	10,128.1	0.00	0.00	0.00
17,200.0	87.96	89.47	7,480.4	652.5	10,207.1	10,227.9	0.00	0.00	0.00
17,300.0	87.96	89.47	7,484.0	653.4	10,307.0	10,327.7	0.00	0.00	0.00
17,400.0	87.96	89.47	7,487.5	654.3	10,406.9	10,427.5	0.00	0.00	0.00
17,500.0	87.96	89.47	7,491.1	655.2	10,506.9	10,527.3	0.00	0.00	0.00
17,600.0	87.96	89.47	7,494.6	656.1	10,606.8	10,627.1	0.00	0.00	0.00
17,610.3	87.96	89.47	7,495.0	656.2	10,617.1	10,637.4	0.00	0.00	0.00
TD at 17610.3									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BIGFOOT ST COM 502H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=28' @ 3530.0usft (TBD)
Site:	ZEUS	MD Reference:	KB=28' @ 3530.0usft (TBD)
Well:	BIGFOOT ST COM 502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)		
FTP (BIGFOOT ST C)	0.00	0.00	7,133.0	561.8	351.8	597,709.52	539,293.22	32° 38' 35.307 N	104° 12' 20.447 W
- plan misses target center by 257.6usft at 7405.9usft MD (7130.3 TVD, 325.5 N, 454.5 E)									
- Circle (radius 50.0)									
PBHL (BIGFOOT ST C)	-2.04	269.47	7,495.0	656.2	10,617.1	597,803.96	549,558.50	32° 38' 36.104 N	104° 10' 20.389 W
- plan hits target center									
- Rectangle (sides W100.0 H10,215.7 D20.0)									
LTP (BIGFOOT ST C)	0.00	0.00	7,495.0	655.8	10,567.1	597,803.53	549,508.50	32° 38' 36.100 N	104° 10' 20.974 W
- plan misses target center by 1.8usft at 17560.3usft MD (7493.2 TVD, 655.8 N, 10567.2 E)									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
5500	5500	0	0	Start Build 2.00
5750	5750	11	0	Start 835.3 hold at 5750.0 MD
6585	6582	84	0	Start DLS 10.00 TFO 66.98
7445	7133	341	491	Start DLS 2.00 TFO 90.40
8581	7174	574	1594	Start 9029.0 hold at 8581.3 MD
17,610	7495	656	10,617	TD at 17610.3

Checked By: _____	Approved By: _____	Date: _____
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Project: EDDY COUNTY, NM
Site: ZEUS
Well: BIGFOOT ST COM 502H
Wellbore: OWB
Design: PWP1
GL: 3502.0
KB=28' @ 3530.0usft (TBD)

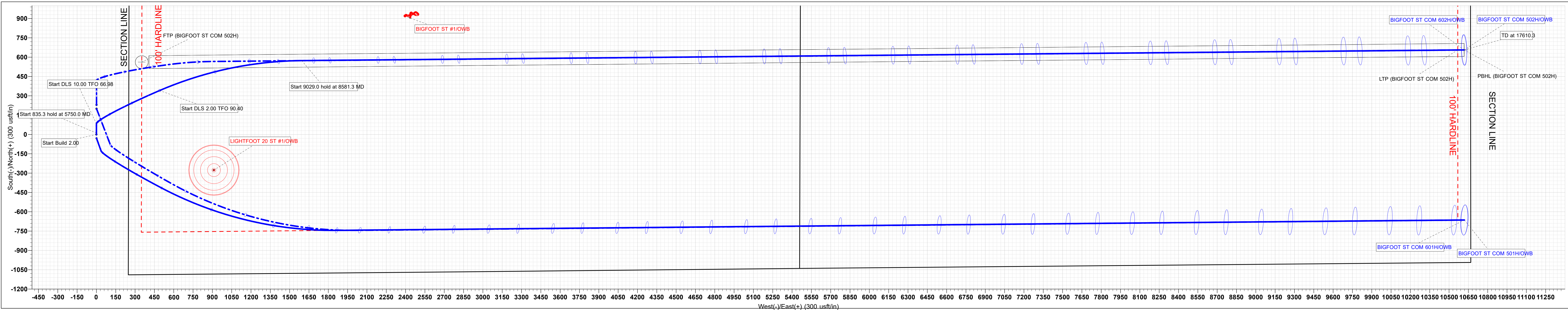
WELL DETAILS: BIGFOOT ST COM 502H

Northing
597147.74

Easting
538941.40

Latitude
32° 38' 29.752 N

Longitude
104° 12' 24.570 W



BIGFOOT ST COM 502H

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	
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
5750.0	5.00	0.00	5749.7	10.9	0.0	2.00	0.00	0.7	Start 835.3 hold at 5750.0 MD
6585.3	5.00	0.00	6581.8	83.7	0.0	0.00	0.00	5.2	Start DLS 2.00 TFO 90.40
7445.2	87.96	66.74	7133.0	341.1	490.5	10.00	66.98	510.6	Start DLS 2.00 TFO 90.40
8581.3	87.96	89.47	7174.0	573.5	1594.1	2.00	90.40	1626.5	Start 9029.0 hold at 8581.3 MD
17610.3	87.96	89.47	7495.0	656.2	10617.1	0.00	0.00	10637.4	TD at 17610.3

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (BIGFOOT ST COM 502H)	7133.0	561.8	351.8	597709.52	539293.22
LTP (BIGFOOT ST COM 502H)	7495.0	655.8	10567.1	597803.53	549508.50
PBHL (BIGFOOT ST COM 502H)	7495.0	656.2	10617.1	597803.96	549558.50

