

DISTRICT I
1825 N. FRENCHE DR., HOBBES, 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) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-46258	Pool Code 98094	Pool Name Bobcat Draw; Upper Wolfcamp
Property Code 325776	Property Name VALOR STATE COM	Well Number 801H
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3329.0'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	35	25-S	33-E		210	NORTH	725	EAST	LEA

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
H	2	26-S	33-E		2590	NORTH	990	EAST	LEA

Dedicated Acres 960	Joint or Infill	Consolidation Code	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

POINT LEGEND <table border="1"> <tr><td>1</td><td>Y=398941.4 N</td><td>X=788688.7 E</td></tr> <tr><td>2</td><td>Y=398299.7 N</td><td>X=788708.5 E</td></tr> <tr><td>3</td><td>Y=393860.4 N</td><td>X=788728.6 E</td></tr> <tr><td>4</td><td>Y=391020.9 N</td><td>X=788748.0 E</td></tr> <tr><td>5</td><td>Y=391011.7 N</td><td>X=787426.3 E</td></tr> <tr><td>6</td><td>Y=398932.7 N</td><td>X=787386.2 E</td></tr> </table>	1	Y=398941.4 N	X=788688.7 E	2	Y=398299.7 N	X=788708.5 E	3	Y=393860.4 N	X=788728.6 E	4	Y=391020.9 N	X=788748.0 E	5	Y=391011.7 N	X=787426.3 E	6	Y=398932.7 N	X=787386.2 E		OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Robyn M. Russell</i> Date: 03/12/2020 Printed Name: Robyn M. Russell E-mail Address: Russell@concho.com 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: DECEMBER 12, 2018 Signature & Seal of Professional Surveyor: <i>Chad L. Hargrow</i> CHAD L. HARGROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR Certificate No. CHAD HARGROW 17777 W.O. # 20-425 DRAWN BY: AH
1	Y=398941.4 N	X=788688.7 E																		
2	Y=398299.7 N	X=788708.5 E																		
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5	Y=391011.7 N	X=787426.3 E																		
6	Y=398932.7 N	X=787386.2 E																		

NORTHERN DELAWARE BASIN

LEA COUNTY, NM

BULLDOG

VALOR ST COM 801H

OWB

Plan: PWP3

Standard Planning Report

11 March, 2020

Concho Resources LLC

Planning Report

Database: edm
Company: NORTHERN DELAWARE BASIN
Project: LEA COUNTY, NM
Site: BULLDOG
Well: VALOR ST COM 801H
Wellbore: OWB
Design: PWP3

Local Co-ordinate Reference: Well VALOR ST COM 801H
TVD Reference: KB=30' @ 3359.3usft (SCAN QUEST)
MD Reference: KB=30' @ 3359.3usft (SCAN QUEST)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	LEA 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		

Site	BULLDOG				
Site Position:		Northing:	398,637.10 usft	Latitude:	32° 5' 36.820 N
From:	Map	Easting:	741,887.40 usft	Longitude:	103° 33' 8.116 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	VALOR ST COM 801H, ACTIVE					
Well Position	+N/-S	32.2 usft	Northing:	398,669.30 usft	Latitude:	32° 5' 36.785 N
	+E/-W	4,889.2 usft	Easting:	746,776.60 usft	Longitude:	103° 32' 11.282 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,329.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/4/2020	6.63	59.91	47,586.28847237

Design	PWP3				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	7,582.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	181.55	

Plan Survey Tool Program	Date 3/11/2020				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1 152.0	1,178.0	MWD-SURFACE (OWB)	MWD+IFR1+FDIR OWSG MWD + IFR1 + FDIR C		
2 1,277.0	7,582.0	MWD-INTERMEDIATE (OWB)	MWD+IFR1+FDIR OWSG MWD + IFR1 + FDIR C		
3 7,582.0	20,207.5	PWP3 (OWB)	MWD+IFR1+FDIR OWSG MWD + IFR1 + FDIR C		

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Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
7,582.0	3.83	33.78	7,570.5	146.9	297.5	0.00	0.00	0.00	0.00	
7,805.0	1.00	270.00	7,793.4	153.1	299.7	2.00	-1.27	-55.51	-169.26	
8,100.0	1.00	270.00	8,088.3	153.1	294.6	0.00	0.00	0.00	0.00	
11,955.0	1.00	270.00	11,942.7	153.1	227.3	0.00	0.00	0.00	0.00	
12,845.9	89.85	210.00	12,509.0	-336.1	-65.0	10.03	9.97	-6.73	-60.01	
13,606.5	89.85	179.58	12,511.1	-1,062.9	-256.8	4.00	0.00	-4.00	-90.05	
20,207.5	89.85	179.58	12,528.8	-7,663.6	-207.9	0.00	0.00	0.00	0.00	PBHL (VALOR ST CC

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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	0.23	56.37	100.0	0.1	0.2	-0.1	0.23	0.23	0.00
200.0	0.49	67.79	200.0	0.4	0.7	-0.4	0.27	0.26	11.42
300.0	0.75	85.17	300.0	0.7	1.8	-0.7	0.32	0.26	17.38
400.0	0.91	63.95	400.0	1.0	3.2	-1.1	0.34	0.16	-21.22
500.0	1.11	63.29	500.0	1.8	4.7	-1.9	0.20	0.20	-0.66
600.0	1.30	69.84	599.9	2.6	6.7	-2.8	0.23	0.19	6.56
700.0	1.30	58.09	699.9	3.5	8.8	-3.8	0.27	0.00	-11.75
800.0	1.07	44.00	799.9	5.0	10.4	-5.3	0.37	-0.23	-14.09
900.0	0.63	32.30	899.9	6.1	11.3	-6.4	0.47	-0.43	-11.70
1,000.0	0.66	37.04	999.9	7.0	11.9	-7.3	0.06	0.03	4.74
1,100.0	0.44	106.47	1,099.9	7.5	12.6	-7.8	0.66	-0.22	69.43
1,200.0	0.35	112.69	1,199.9	7.2	13.2	-7.6	0.10	-0.09	6.22
1,300.0	0.80	139.59	1,299.9	6.5	14.0	-6.9	0.51	0.44	26.90
1,400.0	0.85	148.74	1,399.9	5.4	14.8	-5.8	0.14	0.05	9.15
1,500.0	0.93	144.40	1,499.8	4.1	15.6	-4.5	0.10	0.08	-4.34
1,600.0	1.05	140.02	1,599.8	2.7	16.7	-3.2	0.14	0.12	-4.38
1,700.0	1.15	134.95	1,699.8	1.3	18.0	-1.7	0.14	0.10	-5.07
1,800.0	1.66	132.72	1,799.8	-0.3	19.7	-0.2	0.50	0.50	-2.23
1,900.0	1.53	132.05	1,899.7	-2.4	22.0	1.8	0.12	-0.12	-0.67
2,000.0	1.35	131.49	1,999.7	-4.0	23.7	3.3	0.18	-0.18	-0.56
2,100.0	1.51	129.28	2,099.7	-5.6	25.6	4.9	0.17	0.16	-2.21
2,200.0	1.57	128.16	2,199.6	-7.3	27.7	6.5	0.06	0.06	-1.12
2,300.0	1.69	127.11	2,299.6	-9.0	30.0	8.2	0.13	0.13	-1.04
2,400.0	1.84	121.43	2,399.5	-10.7	32.5	9.9	0.23	0.15	-5.68
2,500.0	2.05	117.55	2,499.5	-12.4	35.5	11.4	0.25	0.21	-3.88
2,600.0	2.37	110.66	2,599.4	-14.0	39.0	12.9	0.42	0.32	-6.89
2,700.0	2.58	105.08	2,699.3	-15.4	43.2	14.2	0.32	0.21	-5.58
2,800.0	2.35	73.84	2,799.2	-15.5	47.2	14.2	1.35	-0.23	-31.24
2,900.0	4.02	48.16	2,899.1	-12.5	51.8	11.1	2.16	1.67	-25.68
3,000.0	4.93	37.26	2,998.7	-6.5	57.3	4.9	1.23	0.90	-10.90
3,100.0	4.02	34.84	3,098.4	0.2	61.6	-1.9	0.92	-0.90	-2.42
3,200.0	3.52	51.62	3,198.2	4.5	65.9	-6.3	1.21	-0.51	16.78
3,300.0	3.88	57.46	3,298.0	8.4	71.3	-10.3	0.52	0.36	5.84
3,400.0	3.86	63.67	3,397.8	11.7	77.2	-13.8	0.42	-0.02	6.21
3,500.0	4.04	64.80	3,497.6	14.6	83.4	-16.8	0.20	0.18	1.13
3,600.0	3.63	69.62	3,597.3	17.4	89.7	-19.8	0.53	-0.41	4.82
3,700.0	3.00	87.60	3,697.1	18.7	95.3	-21.3	1.21	-0.63	17.98
3,800.0	3.32	88.85	3,797.0	18.6	100.6	-21.3	0.33	0.32	1.25
3,900.0	3.83	82.50	3,896.8	19.1	106.8	-22.0	0.65	0.51	-6.35
4,000.0	4.05	79.37	3,996.6	20.2	113.7	-23.3	0.31	0.22	-3.13
4,100.0	3.71	78.01	4,096.3	21.5	120.3	-24.8	0.35	-0.34	-1.36
4,200.0	3.44	54.79	4,196.1	23.9	126.0	-27.3	1.46	-0.27	-23.21
4,300.0	3.46	37.44	4,296.0	28.0	130.2	-31.6	1.04	0.02	-17.35
4,400.0	3.76	40.89	4,395.8	33.0	134.1	-36.6	0.37	0.30	3.45
4,500.0	3.80	50.44	4,495.5	37.6	138.9	-41.3	0.65	0.14	9.55
4,600.0	4.06	55.57	4,595.3	41.7	144.5	-45.6	0.39	0.16	5.14
4,700.0	4.01	60.32	4,695.1	45.6	150.4	-49.7	0.34	-0.05	4.75
4,800.0	4.18	74.77	4,794.8	48.2	157.0	-52.5	1.04	0.17	14.45
4,900.0	4.49	80.04	4,894.5	49.7	164.4	-54.2	0.50	0.30	5.27
5,000.0	4.49	78.95	4,994.2	51.2	172.2	-55.8	0.09	0.01	-1.09
5,100.0	4.21	79.21	5,093.9	52.7	179.6	-57.5	0.29	-0.29	0.27
5,200.0	3.86	82.20	5,193.7	53.8	186.6	-58.9	0.41	-0.35	2.99
5,300.0	3.72	85.12	5,293.5	54.5	193.1	-59.7	0.24	-0.14	2.91

Concho Resources LLC

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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)
5,400.0	3.57	86.61	5,393.2	55.0	199.5	-60.4	0.17	-0.14	1.49
5,500.0	3.14	86.54	5,493.1	55.3	205.4	-60.9	0.43	-0.43	-0.07
5,600.0	2.90	82.67	5,592.9	55.7	210.5	-61.4	0.32	-0.24	-3.87
5,700.0	2.79	80.94	5,692.8	56.5	215.5	-62.3	0.14	-0.10	-1.73
5,800.0	2.80	78.86	5,792.7	57.3	220.2	-63.3	0.10	0.00	-2.08
5,900.0	2.98	80.95	5,892.6	58.2	225.2	-64.3	0.21	0.18	2.09
6,000.0	3.31	60.51	5,992.4	60.0	230.3	-66.2	1.16	0.33	-20.44
6,100.0	3.96	52.98	6,092.2	63.5	235.6	-69.9	0.80	0.65	-7.53
6,200.0	3.89	47.26	6,192.0	67.9	240.8	-74.4	0.40	-0.06	-5.72
6,300.0	3.76	41.44	6,291.8	72.7	245.5	-79.3	0.41	-0.13	-5.82
6,400.0	3.83	36.18	6,391.5	77.8	249.6	-84.6	0.35	0.07	-5.26
6,500.0	3.86	33.42	6,491.3	83.3	253.4	-90.2	0.19	0.03	-2.76
6,600.0	4.04	32.02	6,591.1	89.1	257.1	-96.0	0.21	0.19	-1.40
6,700.0	4.22	27.36	6,690.8	95.4	260.8	-102.4	0.38	0.18	-4.67
6,800.0	4.20	28.91	6,790.5	102.0	264.0	-109.1	0.12	-0.02	1.56
6,900.0	4.27	37.99	6,890.3	108.1	268.1	-115.3	0.67	0.07	9.08
7,000.0	4.24	38.77	6,990.0	113.9	272.9	-121.2	0.06	-0.03	0.78
7,100.0	4.17	36.76	7,089.7	119.6	277.3	-127.1	0.16	-0.07	-2.01
7,200.0	4.20	37.05	7,189.5	125.5	281.7	-133.1	0.03	0.02	0.29
7,300.0	4.26	39.53	7,289.2	131.3	286.2	-139.0	0.19	0.06	2.49
7,400.0	3.88	36.18	7,388.9	136.9	290.7	-144.7	0.45	-0.38	-3.35
7,500.0	3.82	33.95	7,488.7	142.4	294.5	-150.3	0.16	-0.06	-2.24
7,582.0	3.83	33.78	7,570.5	146.9	297.5	-154.9	0.02	0.01	-0.20
Tie On									
7,600.0	3.48	32.67	7,588.5	147.9	298.2	-155.9	2.00	-1.96	-6.15
7,700.0	1.57	17.52	7,688.4	151.7	300.2	-159.8	2.00	-1.90	-15.15
7,800.0	0.93	274.39	7,788.4	153.1	299.8	-161.2	2.00	-0.64	-103.13
7,805.0	1.00	270.00	7,793.4	153.1	299.7	-161.2	2.00	1.35	-87.82
Drop and Turn									
7,900.0	1.00	270.00	7,888.4	153.1	298.1	-161.1	0.00	0.00	0.00
8,000.0	1.00	270.00	7,988.3	153.1	296.3	-161.1	0.00	0.00	0.00
8,100.0	1.00	270.00	8,088.3	153.1	294.6	-161.0	0.00	0.00	0.00
Hold Angle									
8,200.0	1.00	270.00	8,188.3	153.1	292.8	-161.0	0.00	0.00	0.00
8,300.0	1.00	270.00	8,288.3	153.1	291.1	-160.9	0.00	0.00	0.00
8,400.0	1.00	270.00	8,388.3	153.1	289.4	-160.9	0.00	0.00	0.00
8,500.0	1.00	270.00	8,488.3	153.1	287.6	-160.8	0.00	0.00	0.00
8,600.0	1.00	270.00	8,588.3	153.1	285.9	-160.8	0.00	0.00	0.00
8,700.0	1.00	270.00	8,688.2	153.1	284.1	-160.8	0.00	0.00	0.00
8,800.0	1.00	270.00	8,788.2	153.1	282.4	-160.7	0.00	0.00	0.00
8,900.0	1.00	270.00	8,888.2	153.1	280.6	-160.7	0.00	0.00	0.00
9,000.0	1.00	270.00	8,988.2	153.1	278.9	-160.6	0.00	0.00	0.00
9,100.0	1.00	270.00	9,088.2	153.1	277.1	-160.6	0.00	0.00	0.00
9,200.0	1.00	270.00	9,188.2	153.1	275.4	-160.5	0.00	0.00	0.00
9,300.0	1.00	270.00	9,288.1	153.1	273.6	-160.5	0.00	0.00	0.00
9,400.0	1.00	270.00	9,388.1	153.1	271.9	-160.4	0.00	0.00	0.00
9,500.0	1.00	270.00	9,488.1	153.1	270.2	-160.4	0.00	0.00	0.00
9,600.0	1.00	270.00	9,588.1	153.1	268.4	-160.3	0.00	0.00	0.00
9,700.0	1.00	270.00	9,688.1	153.1	266.7	-160.3	0.00	0.00	0.00
9,800.0	1.00	270.00	9,788.1	153.1	264.9	-160.2	0.00	0.00	0.00
9,900.0	1.00	270.00	9,888.1	153.1	263.2	-160.2	0.00	0.00	0.00
10,000.0	1.00	270.00	9,988.0	153.1	261.4	-160.1	0.00	0.00	0.00
10,100.0	1.00	270.00	10,088.0	153.1	259.7	-160.1	0.00	0.00	0.00

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Project: LEA COUNTY, NM
Site: BULLDOG
Well: VALOR ST COM 801H
Wellbore: OWB
Design: PWP3

Local Co-ordinate Reference: Well VALOR ST COM 801H
TVD Reference: KB=30' @ 3359.3usft (SCAN QUEST)
MD Reference: KB=30' @ 3359.3usft (SCAN QUEST)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.0	1.00	270.00	10,188.0	153.1	257.9	-160.0	0.00	0.00	0.00
10,300.0	1.00	270.00	10,288.0	153.1	256.2	-160.0	0.00	0.00	0.00
10,400.0	1.00	270.00	10,388.0	153.1	254.4	-160.0	0.00	0.00	0.00
10,500.0	1.00	270.00	10,488.0	153.1	252.7	-159.9	0.00	0.00	0.00
10,600.0	1.00	270.00	10,587.9	153.1	251.0	-159.9	0.00	0.00	0.00
10,700.0	1.00	270.00	10,687.9	153.1	249.2	-159.8	0.00	0.00	0.00
10,800.0	1.00	270.00	10,787.9	153.1	247.5	-159.8	0.00	0.00	0.00
10,900.0	1.00	270.00	10,887.9	153.1	245.7	-159.7	0.00	0.00	0.00
11,000.0	1.00	270.00	10,987.9	153.1	244.0	-159.7	0.00	0.00	0.00
11,100.0	1.00	270.00	11,087.9	153.1	242.2	-159.6	0.00	0.00	0.00
11,200.0	1.00	270.00	11,187.9	153.1	240.5	-159.6	0.00	0.00	0.00
11,300.0	1.00	270.00	11,287.8	153.1	238.7	-159.5	0.00	0.00	0.00
11,400.0	1.00	270.00	11,387.8	153.1	237.0	-159.5	0.00	0.00	0.00
11,500.0	1.00	270.00	11,487.8	153.1	235.3	-159.4	0.00	0.00	0.00
11,600.0	1.00	270.00	11,587.8	153.1	233.5	-159.4	0.00	0.00	0.00
11,700.0	1.00	270.00	11,687.8	153.1	231.8	-159.3	0.00	0.00	0.00
11,800.0	1.00	270.00	11,787.8	153.1	230.0	-159.3	0.00	0.00	0.00
11,900.0	1.00	270.00	11,887.8	153.1	228.3	-159.2	0.00	0.00	0.00
11,955.0	1.00	270.00	11,942.7	153.1	227.3	-159.2	0.00	0.00	0.00
Curve KOP									
12,000.0	5.09	219.77	11,987.7	151.6	225.6	-157.6	10.03	9.08	-111.61
12,100.0	15.07	213.22	12,086.0	137.3	215.7	-143.1	10.03	9.98	-6.56
12,200.0	25.08	211.85	12,179.8	108.3	197.3	-113.6	10.03	10.02	-1.37
12,300.0	35.11	211.23	12,266.2	65.6	171.1	-70.2	10.03	10.02	-0.62
12,400.0	45.13	210.86	12,342.6	10.4	138.0	-14.2	10.03	10.03	-0.37
12,500.0	55.16	210.60	12,406.6	-55.5	98.8	52.8	10.03	10.03	-0.26
12,600.0	65.19	210.40	12,456.3	-130.1	54.8	128.6	10.03	10.03	-0.20
12,700.0	75.22	210.23	12,490.1	-211.3	7.4	211.0	10.03	10.03	-0.17
12,800.0	85.24	210.07	12,507.0	-296.4	-42.0	297.4	10.03	10.03	-0.16
12,845.9	89.85	210.00	12,509.0	-336.1	-65.0	337.7	10.03	10.03	-0.15
EOC / Start Lateral Turn									
12,900.0	89.85	207.84	12,509.1	-383.4	-91.1	385.7	4.00	0.00	-4.00
13,000.0	89.85	203.84	12,509.4	-473.4	-134.7	476.9	4.00	0.00	-4.00
13,100.0	89.84	199.84	12,509.7	-566.2	-171.9	570.6	4.00	0.00	-4.00
13,200.0	89.84	195.84	12,510.0	-661.4	-202.5	666.6	4.00	0.00	-4.00
13,300.0	89.84	191.84	12,510.2	-758.4	-226.4	764.3	4.00	0.00	-4.00
13,400.0	89.84	187.84	12,510.5	-857.0	-243.5	863.2	4.00	0.00	-4.00
13,500.0	89.84	183.84	12,510.8	-956.4	-253.7	962.9	4.00	0.00	-4.00
13,600.0	89.85	179.84	12,511.0	-1,056.3	-256.9	1,062.9	4.00	0.00	-4.00
13,606.5	89.85	179.58	12,511.1	-1,062.8	-256.8	1,069.4	4.00	0.00	-4.00
EOT / Hold									
13,700.0	89.85	179.58	12,511.3	-1,156.3	-256.2	1,162.9	0.00	0.00	0.00
13,800.0	89.85	179.58	12,511.6	-1,256.3	-255.4	1,262.8	0.00	0.00	0.00
13,900.0	89.85	179.58	12,511.9	-1,356.3	-254.7	1,362.7	0.00	0.00	0.00
14,000.0	89.85	179.58	12,512.1	-1,456.3	-253.9	1,462.7	0.00	0.00	0.00
14,100.0	89.85	179.58	12,512.4	-1,556.3	-253.2	1,562.6	0.00	0.00	0.00
14,200.0	89.85	179.58	12,512.7	-1,656.3	-252.4	1,662.6	0.00	0.00	0.00
14,300.0	89.85	179.58	12,512.9	-1,756.3	-251.7	1,762.5	0.00	0.00	0.00
14,400.0	89.85	179.58	12,513.2	-1,856.3	-251.0	1,862.4	0.00	0.00	0.00
14,500.0	89.85	179.58	12,513.5	-1,956.3	-250.2	1,962.4	0.00	0.00	0.00
14,600.0	89.85	179.58	12,513.7	-2,056.3	-249.5	2,062.3	0.00	0.00	0.00
14,700.0	89.85	179.58	12,514.0	-2,156.3	-248.7	2,162.3	0.00	0.00	0.00
14,800.0	89.85	179.58	12,514.3	-2,256.3	-248.0	2,262.2	0.00	0.00	0.00

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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)
14,900.0	89.85	179.58	12,514.5	-2,356.3	-247.3	2,362.1	0.00	0.00	0.00
15,000.0	89.85	179.58	12,514.8	-2,456.3	-246.5	2,462.1	0.00	0.00	0.00
15,100.0	89.85	179.58	12,515.1	-2,556.3	-245.8	2,562.0	0.00	0.00	0.00
15,200.0	89.85	179.58	12,515.3	-2,656.3	-245.0	2,662.0	0.00	0.00	0.00
15,300.0	89.85	179.58	12,515.6	-2,756.3	-244.3	2,761.9	0.00	0.00	0.00
15,400.0	89.85	179.58	12,515.9	-2,856.3	-243.5	2,861.8	0.00	0.00	0.00
15,500.0	89.85	179.58	12,516.2	-2,956.3	-242.8	2,961.8	0.00	0.00	0.00
15,600.0	89.85	179.58	12,516.4	-3,056.3	-242.1	3,061.7	0.00	0.00	0.00
15,700.0	89.85	179.58	12,516.7	-3,156.3	-241.3	3,161.7	0.00	0.00	0.00
15,800.0	89.85	179.58	12,517.0	-3,256.3	-240.6	3,261.6	0.00	0.00	0.00
15,900.0	89.85	179.58	12,517.2	-3,356.3	-239.8	3,361.5	0.00	0.00	0.00
16,000.0	89.85	179.58	12,517.5	-3,456.3	-239.1	3,461.5	0.00	0.00	0.00
16,100.0	89.85	179.58	12,517.8	-3,556.3	-238.4	3,561.4	0.00	0.00	0.00
16,200.0	89.85	179.58	12,518.0	-3,656.3	-237.6	3,661.4	0.00	0.00	0.00
16,300.0	89.85	179.58	12,518.3	-3,756.3	-236.9	3,761.3	0.00	0.00	0.00
16,400.0	89.85	179.58	12,518.6	-3,856.3	-236.1	3,861.2	0.00	0.00	0.00
16,500.0	89.85	179.58	12,518.8	-3,956.3	-235.4	3,961.2	0.00	0.00	0.00
16,600.0	89.85	179.58	12,519.1	-4,056.3	-234.6	4,061.1	0.00	0.00	0.00
16,700.0	89.85	179.58	12,519.4	-4,156.2	-233.9	4,161.1	0.00	0.00	0.00
16,800.0	89.85	179.58	12,519.6	-4,256.2	-233.2	4,261.0	0.00	0.00	0.00
16,900.0	89.85	179.58	12,519.9	-4,356.2	-232.4	4,360.9	0.00	0.00	0.00
17,000.0	89.85	179.58	12,520.2	-4,456.2	-231.7	4,460.9	0.00	0.00	0.00
17,100.0	89.85	179.58	12,520.5	-4,556.2	-230.9	4,560.8	0.00	0.00	0.00
17,200.0	89.85	179.58	12,520.7	-4,656.2	-230.2	4,660.8	0.00	0.00	0.00
17,300.0	89.85	179.58	12,521.0	-4,756.2	-229.5	4,760.7	0.00	0.00	0.00
17,400.0	89.85	179.58	12,521.3	-4,856.2	-228.7	4,860.6	0.00	0.00	0.00
17,500.0	89.85	179.58	12,521.5	-4,956.2	-228.0	4,960.6	0.00	0.00	0.00
17,600.0	89.85	179.58	12,521.8	-5,056.2	-227.2	5,060.5	0.00	0.00	0.00
17,700.0	89.85	179.58	12,522.1	-5,156.2	-226.5	5,160.5	0.00	0.00	0.00
17,800.0	89.85	179.58	12,522.3	-5,256.2	-225.8	5,260.4	0.00	0.00	0.00
17,900.0	89.85	179.58	12,522.6	-5,356.2	-225.0	5,360.3	0.00	0.00	0.00
18,000.0	89.85	179.58	12,522.9	-5,456.2	-224.3	5,460.3	0.00	0.00	0.00
18,100.0	89.85	179.58	12,523.1	-5,556.2	-223.5	5,560.2	0.00	0.00	0.00
18,200.0	89.85	179.58	12,523.4	-5,656.2	-222.8	5,660.2	0.00	0.00	0.00
18,300.0	89.85	179.58	12,523.7	-5,756.2	-222.0	5,760.1	0.00	0.00	0.00
18,400.0	89.85	179.58	12,523.9	-5,856.2	-221.3	5,860.0	0.00	0.00	0.00
18,500.0	89.85	179.58	12,524.2	-5,956.2	-220.6	5,960.0	0.00	0.00	0.00
18,600.0	89.85	179.58	12,524.5	-6,056.2	-219.8	6,059.9	0.00	0.00	0.00
18,700.0	89.85	179.58	12,524.7	-6,156.2	-219.1	6,159.9	0.00	0.00	0.00
18,800.0	89.85	179.58	12,525.0	-6,256.2	-218.3	6,259.8	0.00	0.00	0.00
18,900.0	89.85	179.58	12,525.3	-6,356.2	-217.6	6,359.7	0.00	0.00	0.00
19,000.0	89.85	179.58	12,525.6	-6,456.2	-216.9	6,459.7	0.00	0.00	0.00
19,100.0	89.85	179.58	12,525.8	-6,556.2	-216.1	6,559.6	0.00	0.00	0.00
19,200.0	89.85	179.58	12,526.1	-6,656.2	-215.4	6,659.6	0.00	0.00	0.00
19,300.0	89.85	179.58	12,526.4	-6,756.2	-214.6	6,759.5	0.00	0.00	0.00
19,400.0	89.85	179.58	12,526.6	-6,856.2	-213.9	6,859.4	0.00	0.00	0.00
19,500.0	89.85	179.58	12,526.9	-6,956.2	-213.1	6,959.4	0.00	0.00	0.00
19,600.0	89.85	179.58	12,527.2	-7,056.2	-212.4	7,059.3	0.00	0.00	0.00
19,700.0	89.85	179.58	12,527.4	-7,156.2	-211.7	7,159.3	0.00	0.00	0.00
19,800.0	89.85	179.58	12,527.7	-7,256.2	-210.9	7,259.2	0.00	0.00	0.00
19,900.0	89.85	179.58	12,528.0	-7,356.1	-210.2	7,359.1	0.00	0.00	0.00
20,000.0	89.85	179.58	12,528.2	-7,456.1	-209.4	7,459.1	0.00	0.00	0.00
20,100.0	89.85	179.58	12,528.5	-7,556.1	-208.7	7,559.0	0.00	0.00	0.00
20,200.0	89.85	179.58	12,528.8	-7,656.1	-208.0	7,659.0	0.00	0.00	0.00

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20,207.5	89.85	179.58	12,528.8	-7,663.6	-207.9	7,666.4	0.00	0.00	0.00
TD at 20207.5									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (VALOR ST COM 8 - hit/miss target - Shape	0.00	0.00	12,508.8	108.0	-265.8	398,777.30	746,510.80	32° 5' 37.873 N	103° 32' 14.362 W
- plan misses target center by 402.5usft at 12589.3usft MD (12451.7 TVD, -121.8 N, 59.7 E)									
- Circle (radius 50.0)									
LTP (VALOR ST COM 8 - plan misses target center by 0.1usft at 20157.5usft MD (12528.7 TVD, -7613.6 N, -208.3 E)	0.00	0.00	12,528.8	-7,613.6	-208.3	391,055.70	746,568.30	32° 4' 21.459 N	103° 32' 14.356 W
- Point									
PBHL (VALOR ST COM - plan hits target center - Rectangle (sides W100.0 H7,772.0 D20.0)	-0.15	359.57	12,528.8	-7,663.6	-207.9	391,005.70	746,568.70	32° 4' 20.964 N	103° 32' 14.356 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
7,582.0	7,570.5	146.9	297.5	Tie On
7,805.0	7,793.4	153.1	299.7	Drop and Turn
8,100.0	8,088.3	153.1	294.6	Hold Angle
11,955.0	11,942.7	153.1	227.3	Curve KOP
12,845.9	12,509.0	-336.1	-65.0	EOC / Start Lateral Turn
13,606.5	12,511.1	-1,062.8	-256.8	EOT / Hold
20,207.5	12,528.8	-7,663.6	-207.9	TD at 20207.5