OCCIDENTAL PERMIAN LTD.

Triple X Bone Spring
Lea County, NM (Grid North)
Foxglove 29 Federal #5H
DH - Job #320914-MPH-1103

Survey: MWD

Regulatory Survey Report (Grid Nort

This survey is correct to the best of my knowledge and is supported by actual field data.

Jami Hattaway

Notarized this date 13th of November, 2014.

Carrie Reed

Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2015

Regulatory Survey Report (Grid North)

Company:	OCCIDENTAL PERMIAN LTD.	**Local Co-ordinate Reference:**	Well Foxglove 29 Federal #5H
Project:	Triple X Bone Spring	**TVD Reference:**	Mean Sea Level (System)
Site:	Lea County, NM (Grid North)	**MD Reference:**	Mean Sea Level (System)
Well:	Foxglove 29 Federal #5H	**North Reference:**	Grid
Wellbore:	DH - Job #320914-MPH-1103	**Survey Calculation Method:**	Minimum Curvature
Design:	DH - Job #320914-MPH-1103	**Database:**	MID_Regulatory

Project	Triple X Bone Spring		
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	Lea County, NM (Grid North)				
Site Position:		**Northing:**	445,907.51 usft	**Latitude:**	32° 13' 25.997 N
From:	Lat/Long	**Easting:**	721,463.19 usft	**Longitude:**	103° 37' 1.870 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0.38 °

Well	Foxglove 29 Federal #5H, Horizontal					
Well Position	**+N/-S**	0.0 usft	**Northing:**	467,061.13 usft	**Latitude:**	32° 16' 54.894 N
	+E/-W	0.0 usft	**Easting:**	727,869.02 usft	**Longitude:**	103° 35' 45.612 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	0.0 usft

Wellbore	DH - Job #320914-MPH-1103				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	9/13/2014	7.20	60.15	48,349

Design	DH - Job #320914-MPH-1103				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	179.58	

Survey Program		**Date** 11/20/2014		
From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
229.0	15,612.0	MWD (DH - Job #320914-MPH-1103)	MWD	MWD

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
229.0	0.57	294.50	229.0	0.5	-1.0	294.50	1.1
318.0	0.35	237.35	318.0	0.5	-1.7	286.98	1.7
411.0	0.26	259.32	411.0	0.3	-2.1	278.52	2.1
592.0	0.26	303.62	592.0	0.5	-2.9	279.30	2.9
773.0	0.35	294.74	773.0	0.9	-3.7	284.05	3.8
955.0	0.70	318.73	955.0	2.0	-4.9	291.98	5.3
1,144.0	1.14	311.88	1,144.0	4.1	-7.1	300.10	8.2
1,316.0	0.97	315.75	1,315.9	6.3	-9.4	303.86	11.3
1,425.0	1.23	277.25	1,424.9	7.1	-11.2	302.42	13.3
1,519.0	1.32	314.60	1,518.9	8.0	-13.0	301.66	15.2
1,614.0	1.58	278.39	1,613.9	9.0	-15.0	300.77	17.5

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Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,708.0	1.49	309.51	1,707.8	9.9	-17.3	299.89	19.9
1,803.0	1.06	272.24	1,802.8	10.7	-19.1	299.36	21.9
1,898.0	1.49	269.96	1,897.8	10.8	-21.2	296.94	23.8
1,993.0	0.79	289.29	1,992.8	11.0	-23.1	295.48	25.6
2,088.0	1.69	285.07	2,087.7	11.6	-25.0	294.81	27.6
2,183.0	0.97	291.14	2,182.7	12.2	-27.1	294.26	29.8
2,278.0	0.53	264.77	2,277.7	12.5	-28.3	293.77	31.0
2,372.0	0.62	156.14	2,371.7	12.0	-28.6	292.75	31.0
2,467.0	0.62	237.35	2,466.7	11.2	-28.8	291.31	30.9
2,562.0	1.76	39.77	2,561.7	12.1	-28.3	293.12	30.7
2,657.0	3.17	51.81	2,656.6	14.8	-25.3	300.37	29.3
2,752.0	2.02	51.20	2,751.5	17.5	-21.9	308.60	28.0
2,847.0	1.14	101.38	2,846.5	18.4	-19.7	313.00	26.9
2,942.0	1.58	154.99	2,941.4	17.0	-18.2	313.01	24.9
3,038.0	2.46	131.97	3,037.4	14.4	-16.1	311.80	21.6
3,133.0	3.08	141.20	3,132.3	11.0	-13.0	310.38	17.1
3,228.0	2.90	143.48	3,227.1	7.1	-10.0	305.58	12.3
3,323.0	1.14	100.68	3,322.1	5.0	-7.6	303.44	9.1
3,418.0	1.06	79.50	3,417.1	5.0	-5.8	310.74	7.7
3,513.0	1.32	91.45	3,512.0	5.1	-3.9	323.13	6.4
3,608.0	1.23	92.94	3,607.0	5.1	-1.7	340.99	5.4
3,703.0	0.79	144.97	3,702.0	4.5	-0.3	355.54	4.5
3,798.0	0.62	151.13	3,797.0	3.5	0.3	4.51	3.5
3,893.0	0.70	57.35	3,892.0	3.3	1.0	16.82	3.5
3,988.0	0.44	190.68	3,987.0	3.3	1.4	23.46	3.6
4,083.0	0.62	202.37	4,082.0	2.5	1.2	25.35	2.7
4,178.0	0.44	239.63	4,177.0	1.8	0.7	20.03	1.9
4,273.0	0.62	153.50	4,272.0	1.2	0.6	26.24	1.3
4,368.0	0.70	135.57	4,367.0	0.3	1.2	76.51	1.2
4,463.0	2.11	112.19	4,461.9	-0.8	3.2	103.63	3.3
4,558.0	0.62	103.23	4,556.9	-1.6	5.4	106.27	5.6
4,653.0	1.67	133.29	4,651.9	-2.6	6.9	110.97	7.3
4,748.0	1.06	107.18	4,746.9	-3.8	8.7	113.78	9.5
4,843.0	1.93	111.31	4,841.8	-4.7	11.0	112.97	12.0
5,032.0	1.41	114.04	5,030.7	-6.8	16.1	112.81	17.5
5,098.0	1.49	125.99	5,096.7	-7.6	17.6	113.45	19.1
5,215.0	1.32	106.22	5,213.7	-8.9	20.1	113.87	22.0
5,310.0	0.53	256.33	5,308.7	-9.3	20.7	114.18	22.7
5,405.0	0.53	219.07	5,403.7	-9.7	20.0	115.96	22.3
5,500.0	0.70	235.59	5,498.7	-10.4	19.3	118.40	21.9
5,595.0	0.70	214.14	5,593.7	-11.2	18.4	121.31	21.6
5,690.0	0.62	261.25	5,688.7	-11.8	17.6	123.77	21.2
5,785.0	0.70	28.70	5,783.7	-11.3	17.4	123.13	20.8
5,880.0	0.88	17.36	5,878.6	-10.1	17.9	119.56	20.6

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Wellbore:	DH - Job #320914-MPH-1103	**Survey Calculation Method:**	Minimum Curvature
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Survey

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5,975.0	0.79	345.19	5,973.6	-8.8	17.9	116.17	20.0
6,070.0	0.64	321.25	6,068.6	-7.8	17.4	114.01	19.1
6,165.0	0.44	316.63	6,163.6	-7.1	16.9	112.81	18.3
6,260.0	0.70	355.65	6,258.6	-6.2	16.6	110.66	17.7
6,355.0	0.44	356.00	6,353.6	-5.3	16.5	107.82	17.3
6,450.0	0.44	332.09	6,448.6	-4.6	16.3	105.82	16.9
6,545.0	0.79	1.71	6,543.6	-3.6	16.1	102.70	16.5
6,640.0	0.97	343.61	6,638.6	-2.2	15.9	97.90	16.1
6,736.0	3.69	297.03	6,734.5	0.0	13.0	90.12	13.0
6,831.0	1.58	299.57	6,829.4	2.0	9.1	77.54	9.3
6,926.0	1.93	306.78	6,924.4	3.6	6.7	61.55	7.6
7,021.0	1.23	322.25	7,019.3	5.4	4.8	41.53	7.2
7,116.0	0.70	346.24	7,114.3	6.7	4.0	30.66	7.8
7,211.0	1.23	273.73	7,209.3	7.4	2.8	21.08	7.9
7,306.0	0.88	248.60	7,304.3	7.2	1.1	9.08	7.3
7,401.0	0.62	217.40	7,399.3	6.5	0.2	1.37	6.5
7,496.0	0.62	218.36	7,494.3	5.7	-0.5	355.22	5.7
7,591.0	0.88	227.68	7,589.3	4.8	-1.3	344.46	5.0
7,686.0	0.79	240.16	7,684.3	4.0	-2.4	328.47	4.7
7,782.0	0.53	234.45	7,780.2	3.4	-3.4	315.13	4.8
7,876.0	0.70	207.64	7,874.2	2.6	-4.0	303.35	4.8
7,972.0	0.53	233.04	7,970.2	1.8	-4.6	291.74	5.0
8,066.0	0.62	223.11	8,064.2	1.2	-5.3	282.83	5.5
8,161.0	0.62	242.18	8,159.2	0.6	-6.1	275.56	6.2
8,256.0	0.70	213.18	8,254.2	-0.1	-6.9	268.92	6.9
8,351.0	0.62	222.76	8,349.2	-1.0	-7.6	262.52	7.6
8,446.0	0.70	243.41	8,444.2	-1.6	-8.4	259.06	8.6
8,541.0	0.79	244.56	8,539.2	-2.2	-9.5	257.18	9.8
8,637.0	0.88	252.29	8,635.2	-2.7	-10.8	256.12	11.2
8,732.0	1.23	236.82	8,730.2	-3.5	-12.4	254.40	12.9
8,827.0	1.49	253.78	8,825.1	-4.4	-14.4	253.18	15.1
8,921.0	1.41	253.87	8,919.1	-5.0	-16.7	253.27	17.5
9,016.0	1.41	265.12	9,014.1	-5.4	-19.0	254.00	19.8
9,111.0	1.41	253.78	9,109.1	-5.9	-21.3	254.57	22.1
9,206.0	2.29	220.56	9,204.0	-7.6	-23.6	252.08	24.8
9,302.0	1.85	227.15	9,299.9	-10.2	-26.0	248.69	27.9
9,397.0	1.93	198.94	9,394.9	-12.7	-27.7	245.33	30.5
9,492.0	2.02	202.19	9,489.8	-15.8	-28.8	241.31	32.9
9,589.0	1.06	205.27	9,586.8	-18.2	-29.9	238.67	34.9
9,684.0	1.32	217.92	9,681.8	-19.8	-30.9	237.31	36.7
9,779.0	1.32	235.59	9,776.8	-21.3	-32.5	236.73	38.8
9,875.0	2.29	276.64	9,872.7	-21.7	-35.3	238.40	41.4
9,970.0	3.08	295.00	9,967.6	-20.4	-39.5	242.66	44.5
10,065.0	0.88	300.89	10,062.5	-19.0	-42.4	245.92	46.5

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Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
10,160.0	1.67	266.00	10,157.5	-18.7	-44.4	247.20	48.2
10,255.0	1.41	260.11	10,252.5	-19.0	-47.0	248.00	50.7
10,351.0	1.14	261.08	10,348.5	-19.3	-49.1	248.50	52.7
10,446.0	1.06	306.78	10,443.4	-19.0	-50.7	249.51	54.1
10,471.0	1.41	287.27	10,468.4	-18.7	-51.2	249.91	54.5
10,541.0	3.69	236.47	10,538.4	-19.7	-53.9	249.91	57.4
10,573.0	8.45	214.51	10,570.2	-22.2	-56.1	248.39	60.3
10,604.0	13.04	209.20	10,600.6	-27.1	-59.1	245.32	65.0
10,636.0	18.47	208.17	10,631.4	-34.8	-63.2	241.19	72.2
10,667.0	22.16	213.00	10,660.5	-44.0	-68.7	237.37	81.6
10,699.0	24.53	209.84	10,689.9	-54.8	-75.3	233.95	93.2
10,731.0	27.52	206.06	10,718.6	-67.2	-81.9	230.61	106.0
10,762.0	31.04	202.54	10,745.7	-81.1	-88.1	227.38	119.7
10,794.0	34.12	202.02	10,772.6	-97.0	-94.6	224.29	135.5
10,826.0	36.32	200.08	10,798.8	-114.2	-101.3	221.55	152.6
10,857.0	38.78	198.94	10,823.3	-132.0	-107.6	219.17	170.3
10,889.0	41.68	196.48	10,847.8	-151.7	-113.8	216.88	189.7
10,921.0	43.35	192.44	10,871.4	-172.7	-119.2	214.62	209.8
10,952.0	45.28	189.52	10,893.5	-193.9	-123.3	212.46	229.8
10,984.0	47.48	188.13	10,915.6	-216.8	-126.9	210.34	251.2
11,016.0	49.51	189.01	10,936.8	-240.5	-130.5	208.48	273.6
11,048.0	51.88	189.80	10,957.1	-264.9	-134.5	206.92	297.1
11,080.0	53.55	189.10	10,976.5	-290.0	-138.7	205.55	321.5
11,111.0	55.22	187.34	10,994.5	-315.0	-142.3	204.31	345.6
11,143.0	56.89	187.25	11,012.4	-341.3	-145.6	203.11	371.1
11,175.0	57.16	187.43	11,029.8	-367.9	-149.1	202.06	397.0
11,207.0	58.30	187.16	11,046.9	-394.8	-152.5	201.12	423.2
11,238.0	59.53	187.95	11,062.9	-421.1	-156.0	200.33	449.1
11,270.0	61.73	187.69	11,078.6	-448.7	-159.8	199.60	476.3
11,302.0	64.10	186.81	11,093.2	-477.0	-163.4	198.91	504.2
11,333.0	66.04	188.31	11,106.2	-504.8	-167.1	198.31	531.8
11,365.0	68.68	189.36	11,118.6	-534.0	-171.6	197.82	560.9
11,397.0	72.11	189.54	11,129.3	-563.8	-176.6	197.39	590.8
11,428.0	76.77	190.68	11,137.6	-593.1	-181.8	197.04	620.4
11,460.0	79.40	191.29	11,144.2	-623.9	-187.8	196.75	651.5
11,492.0	81.16	192.35	11,149.6	-654.7	-194.3	196.52	683.0
11,512.0	82.75	192.70	11,152.4	-674.1	-198.5	196.41	702.7
11,593.0	86.00	194.02	11,160.3	-752.5	-217.2	196.10	783.2
11,689.0	89.25	193.75	11,164.3	-845.6	-240.2	195.86	879.0
11,784.0	91.19	191.73	11,164.0	-938.2	-261.1	195.55	973.9
11,879.0	92.42	188.39	11,161.0	-1,031.7	-277.7	195.07	1,068.5
11,974.0	91.63	183.73	11,157.6	-1,126.1	-287.7	194.33	1,162.3
12,069.0	91.10	178.80	11,155.3	-1,221.0	-289.8	193.35	1,255.0
12,164.0	91.10	178.55	11,153.5	-1,316.0	-287.6	192.33	1,347.1
12,259.0	91.54	178.46	11,151.3	-1,410.9	-285.2	191.43	1,439.5

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12,354.0	91.89	178.37	11,148.5	-1,505.8	-282.5	190.63	1,532.1
12,450.0	90.57	178.29	11,146.4	-1,601.8	-279.7	189.91	1,626.0
12,545.0	89.08	177.41	11,146.7	-1,696.7	-276.2	189.24	1,719.0
12,640.0	89.25	177.58	11,148.1	-1,791.6	-272.0	188.63	1,812.1
12,735.0	90.40	177.85	11,148.4	-1,886.5	-268.2	188.09	1,905.5
12,831.0	91.10	177.67	11,147.1	-1,982.5	-264.5	187.60	2,000.0
12,926.0	91.63	176.79	11,144.9	-2,077.3	-259.9	187.13	2,093.5
13,021.0	92.33	176.18	11,141.6	-2,172.1	-254.1	186.67	2,186.9
13,115.0	90.75	176.26	11,139.1	-2,265.8	-247.9	186.24	2,279.4
13,210.0	87.41	176.53	11,140.6	-2,360.6	-241.9	185.85	2,373.0
13,304.0	86.79	176.35	11,145.3	-2,454.3	-236.1	185.49	2,465.6
13,398.0	87.76	178.37	11,149.8	-2,548.1	-231.8	185.20	2,558.6
13,493.0	89.78	180.04	11,151.9	-2,643.1	-230.4	184.98	2,653.1
13,587.0	90.13	180.13	11,151.9	-2,737.1	-230.6	184.82	2,746.8
13,682.0	90.04	181.71	11,151.8	-2,832.0	-232.1	184.69	2,841.5
13,776.0	90.31	182.94	11,151.5	-2,926.0	-235.9	184.61	2,935.5
13,871.0	90.75	182.77	11,150.6	-3,020.8	-240.6	184.55	3,030.4
13,965.0	91.19	182.42	11,149.0	-3,114.7	-244.9	184.50	3,124.3
14,060.0	91.54	182.77	11,146.8	-3,209.6	-249.2	184.44	3,219.3
14,154.0	92.15	183.12	11,143.7	-3,303.4	-254.0	184.40	3,313.2
14,248.0	89.08	181.71	11,142.7	-3,397.3	-258.0	184.34	3,407.1
14,343.0	88.81	182.68	11,144.5	-3,492.2	-261.6	184.28	3,502.0
14,437.0	88.81	179.34	11,146.4	-3,586.2	-263.3	184.20	3,595.9
14,531.0	90.13	180.39	11,147.3	-3,680.2	-263.1	184.09	3,689.6
14,625.0	88.99	179.08	11,148.0	-3,774.2	-262.6	183.98	3,783.3
14,720.0	90.04	178.37	11,148.8	-3,869.2	-260.5	183.85	3,877.9
14,814.0	91.07	179.08	11,147.9	-3,963.1	-258.4	183.73	3,971.5
14,908.0	91.71	178.81	11,145.6	-4,057.1	-256.7	183.62	4,065.2
15,002.0	92.51	179.08	11,142.2	-4,151.0	-255.0	183.51	4,158.8
15,096.0	89.60	179.34	11,140.4	-4,245.0	-253.7	183.42	4,252.5
15,190.0	87.58	178.99	11,142.8	-4,338.9	-252.3	183.33	4,346.3
15,285.0	87.67	179.25	11,146.7	-4,433.8	-250.8	183.24	4,440.9
15,379.0	88.20	179.16	11,150.1	-4,527.8	-249.5	183.15	4,534.6
15,474.0	88.81	179.96	11,152.6	-4,622.7	-248.8	183.08	4,629.4
15,561.0	89.50	180.15	11,153.8	-4,709.7	-248.9	183.03	4,716.3
15,612.0	89.50	180.15	11,154.3	-4,760.7	-249.0	182.99	4,767.2

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
15,561.0	11,153.8	-4,709.7	-248.9	Last MWD Survey
15,612.0	11,154.3	-4,760.7	-249.0	Projection to Bit

F29F 5H
Lea County, New Mexico
Northing: 467061.10
Easting: 727869.00
Plan #2

T G M

To convert Magnetic North to Grid, Add 6.92°
To convert True North to Grid, Subtract 0.39°

Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.92°

Magnetic Field
Strength: 48414.0snT
Dip Angle: 60.18°
Date: 10/11/2013
Model: IGRF2010

KB= 25' @ 3728.5usft (H&P 615)
Gr @ 3703.5

WELL DETAILS F29F 5H
Ground Level: 3703.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	467061.10	727869.00	32° 16' 54.894 N	103° 35' 45.612 W

SECTION DETAILS

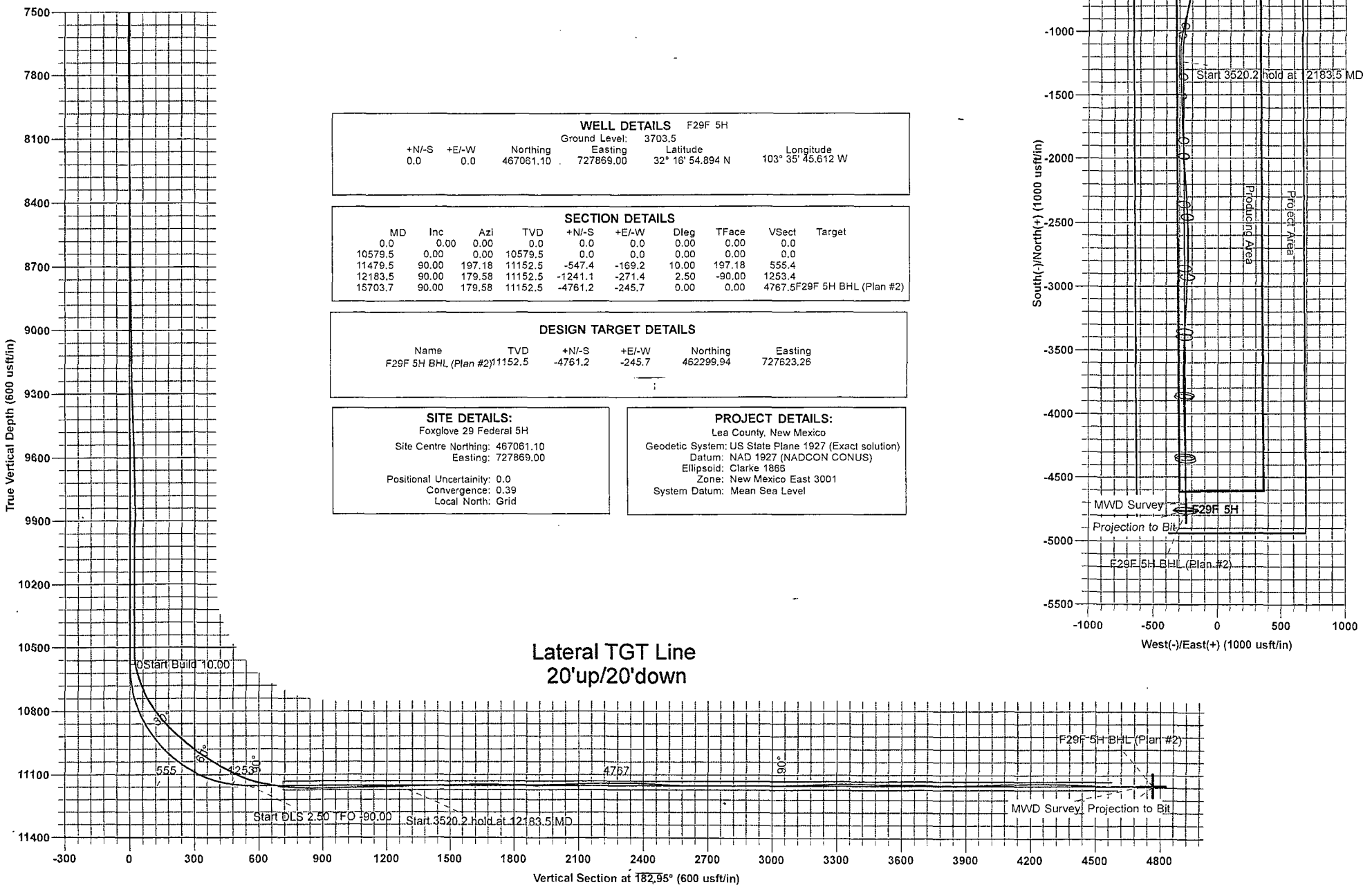
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
10579.5	0.00	0.00	10579.5	0.0	0.0	0.00	0.00	0.0	
11479.5	90.00	197.18	11152.5	-547.4	-169.2	10.00	197.18	555.4	
12183.5	90.00	179.58	11152.5	-1241.1	-271.4	2.50	-90.00	1253.4	
15703.7	90.00	179.58	11152.5	-4761.2	-245.7	0.00	0.00	4767.5	F29F 5H BHL (Plan #2)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
F29F 5H BHL (Plan #2)	11152.5	-4761.2	-245.7	462299.94	727623.26

SITE DETAILS:
Foxglove 29 Federal 5H
Site Centre Northing: 467061.10
Easting: 727869.00
Positional Uncertainity: 0.0
Convergence: 0.39
Local North: Grid

PROJECT DETAILS:
Lea County, New Mexico
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Lateral TGT Line
20'up/20'down