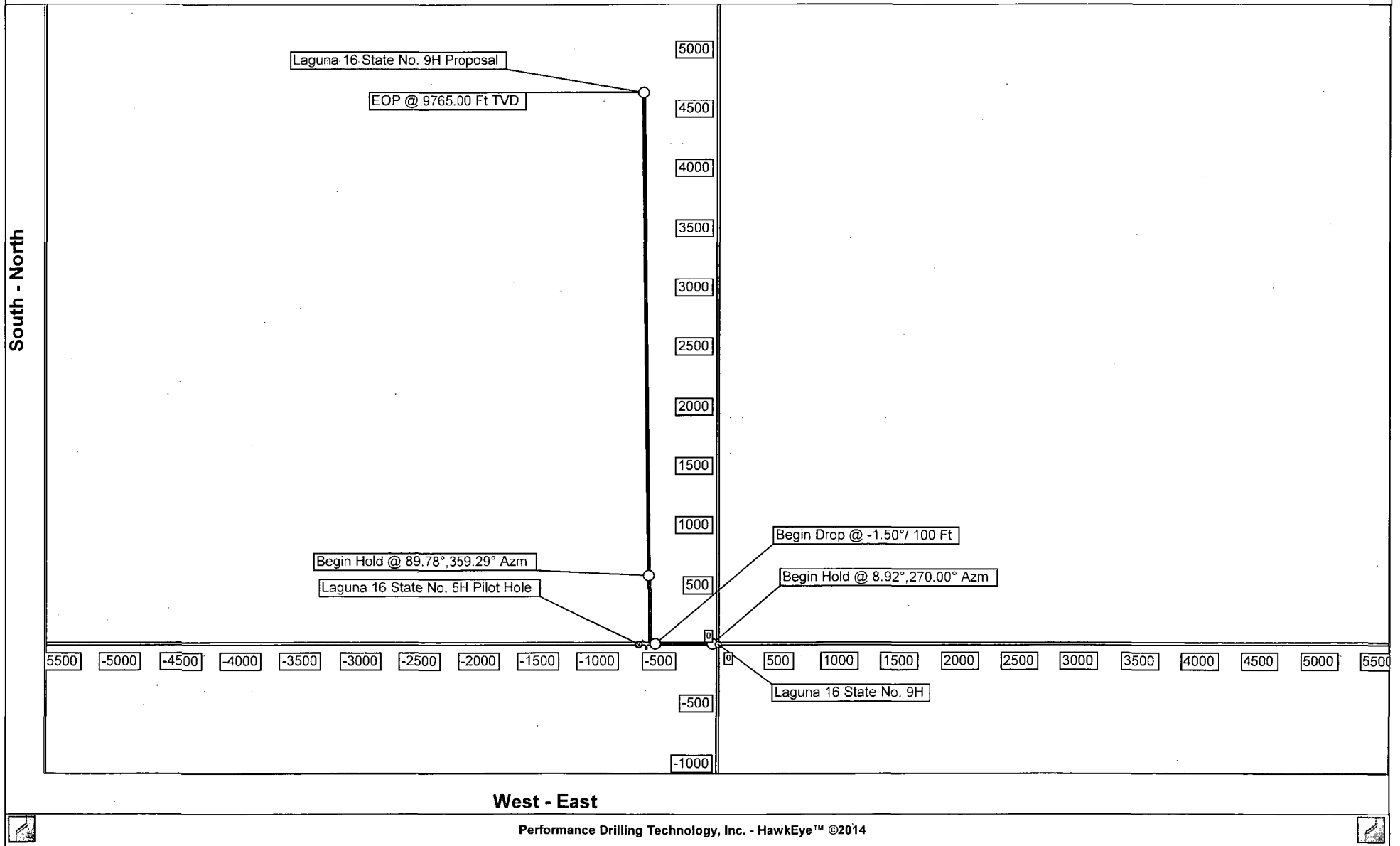


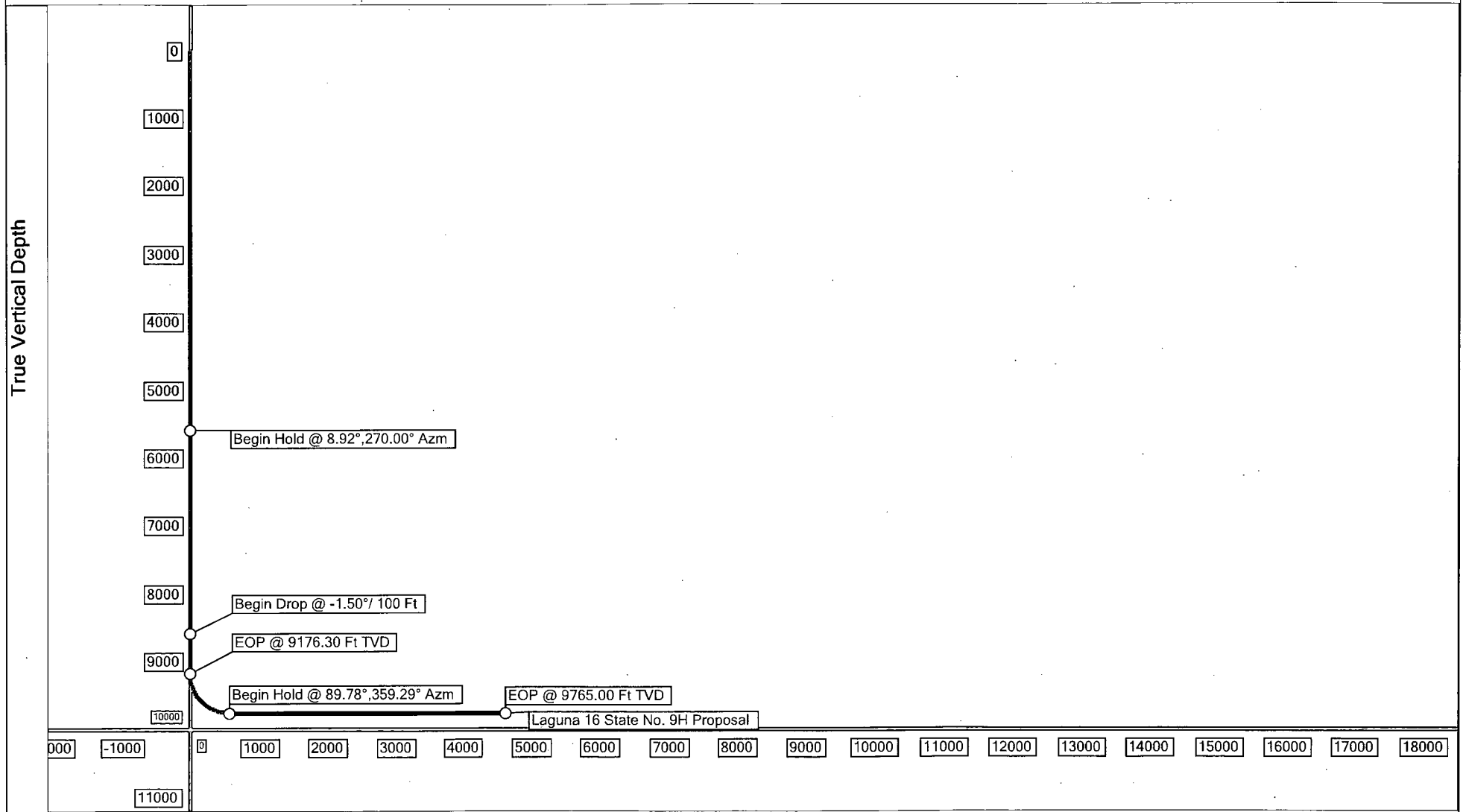
Job Number: 3096
Company: Fasken Oil and Ranch
Lease/Well: Laguna 16 State No. 9H
Location: Southeast NM
Rig Name: Nomac 54
State/County: New Mexico/ Lea
Country: USA
API Number:

Elevation (To MSL): 3512.30 ft
RKB: 21.50 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: New Mexico East 3001
Projection Datum: CLARKE 1866
Magnetic Declination: 7.31
Grid Convergence: 0.29994 E
Date: Wednesday, September 17, 2014



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Grid Convergence: 0.29994 E
Date: Wednesday, September 17, 2014



Vertical Section (1000 Ft/Div) VSP: 0.50°

Job Number: 3096
Company: Fasken Oil and Ranch
Lease/Well: Laguna 16 State No. 9H
Location: Southeast NM
Rig Name: Nomac 54
State/Country: New Mexico/ Lea
Country: USA

Elev. GL: 3512.30 ft
System: US State Plane 1927 (Exact solution)
Group: New Mexico East 3001
Datum: CLARKE 1866
Mag. Decl.: 7.31° (C:\HawkEye\IGRF2005.MIF)
Grid Conv.: 0.29994 E
Date: Wednesday, September 17, 2014



Calculated by HawkEye Software
 Minimum Curvature Method
 Vertical Section Plane 0.50°

Northing (US ft): 570350.90 Easting (US ft): 671660.50
 Latitude: 32°34'0.3596" N Longitude: -103°46'34.0658" W

Well Location: 323.89 FSL, 993.77 FWL, Section 16, T20S, R32E, New Mexico Principal Meridian, Lea County, NM
 Direction Reference: Grid North

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	NS (Ft)	VS (Ft)	Closure (Ft)	Walk Rate */100 Ft	Build Rate */100 Ft	DLS */100 Ft	Easting (US ft)	Northing (US ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	NS (Ft)	VS (Ft)	Closure (Ft)	Walk Rate "/100 Ft	Build Rate "/100 Ft	DLS "/100 Ft	Easting (US ft)	Northing (US ft)
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	671660.50	570350.90
5100.00	1.50	270.00	5099.99	-1.31	0.00	-0.01	1.31	-90.00	1.50	1.50	671659.19	570350.90
5200.00	3.00	270.00	5199.91	-5.23	0.00	-0.05	5.23	0.00	1.50	1.50	671655.27	570350.90
5300.00	4.50	270.00	5299.69	-11.77	0.00	-0.10	11.77	0.00	1.50	1.50	671648.73	570350.90
5400.00	6.00	270.00	5399.27	-20.92	0.00	-0.18	20.92	0.00	1.50	1.50	671639.58	570350.90
5500.00	7.50	270.00	5498.57	-32.68	0.00	-0.29	32.68	0.00	1.50	1.50	671627.82	570350.90
5594.72	8.92	270.00	5592.32	-46.20	0.00	-0.40	46.20	0.00	1.50	1.50	671614.30	570350.90
5694.72	8.92	270.00	5691.11	-61.71	0.00	-0.54	61.71	0.00	0.00	0.00	671598.79	570350.90
5794.72	8.92	270.00	5789.90	-77.22	0.00	-0.67	77.22	0.00	0.00	0.00	671583.28	570350.90
5894.72	8.92	270.00	5888.69	-92.72	0.00	-0.81	92.72	0.00	0.00	0.00	671567.78	570350.90
5994.72	8.92	270.00	5987.48	-108.23	0.00	-0.94	108.23	0.00	0.00	0.00	671552.27	570350.90
6094.72	8.92	270.00	6086.27	-123.74	0.00	-1.08	123.74	0.00	0.00	0.00	671536.76	570350.90
6194.72	8.92	270.00	6185.06	-139.24	0.00	-1.22	139.24	0.00	0.00	0.00	671521.26	570350.90
6294.72	8.92	270.00	6283.85	-154.75	0.00	-1.35	154.75	0.00	0.00	0.00	671505.75	570350.90
6394.72	8.92	270.00	6382.64	-170.26	0.00	-1.49	170.26	0.00	0.00	0.00	671490.24	570350.90
6494.72	8.92	270.00	6481.43	-185.77	0.00	-1.62	185.77	0.00	0.00	0.00	671474.73	570350.90
6594.72	8.92	270.00	6580.22	-201.27	0.00	-1.76	201.27	0.00	0.00	0.00	671459.23	570350.90
6694.72	8.92	270.00	6679.01	-216.78	0.00	-1.89	216.78	0.00	0.00	0.00	671443.72	570350.90
6794.72	8.92	270.00	6777.80	-232.29	0.00	-2.03	232.29	0.00	0.00	0.00	671428.21	570350.90
6894.72	8.92	270.00	6876.59	-247.79	0.00	-2.16	247.79	0.00	0.00	0.00	671412.71	570350.90
6994.72	8.92	270.00	6975.38	-263.30	0.00	-2.30	263.30	0.00	0.00	0.00	671397.20	570350.90
7094.72	8.92	270.00	7074.17	-278.81	0.00	-2.43	278.81	0.00	0.00	0.00	671381.69	570350.90
7194.72	8.92	270.00	7172.96	-294.31	0.00	-2.57	294.31	0.00	0.00	0.00	671366.19	570350.90
7294.72	8.92	270.00	7271.75	-309.82	0.00	-2.70	309.82	0.00	0.00	0.00	671350.68	570350.90
7394.72	8.92	270.00	7370.54	-325.33	0.00	-2.84	325.33	0.00	0.00	0.00	671335.17	570350.90
7494.72	8.92	270.00	7469.33	-340.83	0.00	-2.97	340.83	0.00	0.00	0.00	671319.67	570350.90
7594.72	8.92	270.00	7568.12	-356.34	0.00	-3.11	356.34	0.00	0.00	0.00	671304.16	570350.90
7694.72	8.92	270.00	7666.91	-371.85	0.00	-3.24	371.85	0.00	0.00	0.00	671288.65	570350.90
7794.72	8.92	270.00	7765.70	-387.35	0.00	-3.38	387.35	0.00	0.00	0.00	671273.15	570350.90
7894.72	8.92	270.00	7864.49	-402.86	0.00	-3.52	402.86	0.00	0.00	0.00	671257.64	570350.90
7994.72	8.92	270.00	7963.28	-418.37	0.00	-3.65	418.37	0.00	0.00	0.00	671242.13	570350.90
8094.72	8.92	270.00	8062.08	-433.87	0.00	-3.79	433.87	0.00	0.00	0.00	671226.63	570350.90
8194.72	8.92	270.00	8160.87	-449.38	0.00	-3.92	449.38	0.00	0.00	0.00	671211.12	570350.90
8294.72	8.92	270.00	8259.66	-464.89	0.00	-4.06	464.89	0.00	0.00	0.00	671195.61	570350.90
8394.72	8.92	270.00	8358.45	-480.39	0.00	-4.19	480.39	0.00	0.00	0.00	671180.11	570350.90
8494.72	8.92	270.00	8457.24	-495.90	0.00	-4.33	495.90	0.00	0.00	0.00	671164.60	570350.90
8594.72	8.92	270.00	8556.03	-511.41	0.00	-4.46	511.41	0.00	0.00	0.00	671149.09	570350.90
8623.02	8.92	270.00	8583.98	-515.80	0.00	-4.50	515.80	0.00	0.00	0.00	671144.70	570350.90
8723.02	7.42	270.00	8682.97	-530.01	0.00	-4.63	530.01	0.00	-1.50	1.50	671130.49	570350.90
8823.02	5.92	270.00	8782.29	-541.62	0.00	-4.73	541.62	0.00	-1.50	1.50	671118.88	570350.90
8923.02	4.42	270.00	8881.88	-550.64	0.00	-4.81	550.64	0.00	-1.50	1.50	671109.86	570350.90
9023.02	2.92	270.00	8981.67	-557.04	0.00	-4.86	557.04	0.00	-1.50	1.50	671103.46	570350.90
9123.02	1.42	270.00	9081.59	-560.83	0.00	-4.89	560.83	0.00	-1.50	1.50	671099.67	570350.90
9217.73	0.00	90.00	9176.30	-562.00	0.00	-4.90	562.00	-190.04	-1.50	1.50	671098.50	570350.90
9317.73	10.00	359.29	9275.79	-562.11	8.70	3.80	562.18	-90.71	10.00	10.00	671098.39	570359.60
9417.73	20.00	359.29	9372.26	-562.43	34.55	29.64	563.49	0.00	10.00	10.00	671098.07	570385.45
9517.73	30.00	359.29	9462.78	-562.95	76.76	71.84	568.16	0.00	10.00	10.00	671097.55	570427.66
9617.73	40.00	359.29	9544.59	-563.66	134.04	129.11	579.38	0.00	10.00	10.00	671096.84	570484.94
9717.73	50.00	359.29	9615.21	-564.54	204.65	199.72	600.49	0.00	10.00	10.00	671095.96	570555.55

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	NS (Ft)	VS (Ft)	Closure (Ft)	Walk Rate %/100 Ft	Build Rate %/100 Ft	DLS %/100 Ft	Easting (US ft)	Northing (US ft)
9817.73	60.00	359.29	9672.50	-565.56	286.46	281.51	633.97	0.00	10.00	10.00	671094.94	570637.36
9917.73	70.00	359.29	9714.70	-566.68	376.97	372.01	680.61	0.00	10.00	10.00	671093.82	570727.87
10017.73	80.00	359.29	9740.55	-567.88	473.43	468.46	739.34	0.00	10.00	10.00	671092.62	570824.33
10115.51	89.78	359.29	9749.25	-569.09	570.69	565.70	805.95	0.00	10.00	10.00	671091.41	570921.59
10215.51	89.78	359.29	9749.64	-570.33	670.68	665.68	880.39	0.00	0.00	0.00	671090.17	571021.58
10315.51	89.78	359.29	9750.03	-571.57	770.67	765.66	959.50	0.00	0.00	0.00	671088.93	571121.57
10415.51	89.78	359.29	9750.42	-572.81	870.67	865.63	1042.20	0.00	0.00	0.00	671087.69	571221.57
10515.51	89.78	359.29	9750.80	-574.05	970.66	965.61	1127.70	0.00	0.00	0.00	671086.45	571321.56
10615.51	89.78	359.29	9751.19	-575.30	1070.65	1065.59	1215.42	0.00	0.00	0.00	671085.20	571421.55
10715.51	89.78	359.29	9751.58	-576.54	1170.64	1165.56	1304.91	0.00	0.00	0.00	671083.96	571521.54
10815.51	89.78	359.29	9751.97	-577.78	1270.63	1265.54	1395.83	0.00	0.00	0.00	671082.72	571621.53
10915.51	89.78	359.29	9752.36	-579.02	1370.62	1365.52	1487.91	0.00	0.00	0.00	671081.48	571721.52
11015.51	89.78	359.29	9752.74	-580.26	1470.62	1465.50	1580.95	0.00	0.00	0.00	671080.24	571821.52
11115.51	89.78	359.29	9753.13	-581.50	1570.61	1565.47	1674.80	0.00	0.00	0.00	671079.00	571921.51
11215.51	89.78	359.29	9753.52	-582.75	1670.60	1665.45	1769.32	0.00	0.00	0.00	671077.75	572021.50
11315.51	89.78	359.29	9753.91	-583.99	1770.59	1765.43	1864.41	0.00	0.00	0.00	671076.51	572121.49
11415.51	89.78	359.29	9754.30	-585.23	1870.58	1865.40	1959.99	0.00	0.00	0.00	671075.27	572221.48
11515.51	89.78	359.29	9754.68	-586.47	1970.57	1965.38	2055.99	0.00	0.00	0.00	671074.03	572321.47
11615.51	89.78	359.29	9755.07	-587.71	2070.56	2065.36	2152.36	0.00	0.00	0.00	671072.79	572421.46
11715.51	89.78	359.29	9755.46	-588.96	2170.56	2165.33	2249.04	0.00	0.00	0.00	671071.54	572521.46
11815.51	89.78	359.29	9755.85	-590.20	2270.55	2265.31	2346.00	0.00	0.00	0.00	671070.30	572621.45
11915.51	89.78	359.29	9756.23	-591.44	2370.54	2365.29	2443.21	0.00	0.00	0.00	671069.06	572721.44
12015.51	89.78	359.29	9756.62	-592.68	2470.53	2465.26	2540.63	0.00	0.00	0.00	671067.82	572821.43
12115.51	89.78	359.29	9757.01	-593.92	2570.52	2565.24	2638.24	0.00	0.00	0.00	671066.58	572921.42
12215.51	89.78	359.29	9757.40	-595.16	2670.51	2665.22	2736.03	0.00	0.00	0.00	671065.34	573021.41
12315.51	89.78	359.29	9757.79	-596.41	2770.51	2765.20	2833.97	0.00	0.00	0.00	671064.09	573121.41
12415.51	89.78	359.29	9758.17	-597.65	2870.50	2865.17	2932.05	0.00	0.00	0.00	671062.85	573221.40
12515.51	89.78	359.29	9758.56	-598.89	2970.49	2965.15	3030.26	0.00	0.00	0.00	671061.61	573321.39
12615.51	89.78	359.29	9758.95	-600.13	3070.48	3065.13	3128.58	0.00	0.00	0.00	671060.37	573421.38
12715.51	89.78	359.29	9759.34	-601.37	3170.47	3165.10	3227.00	0.00	0.00	0.00	671059.13	573521.37
12815.51	89.78	359.29	9759.73	-602.61	3270.46	3265.08	3325.52	0.00	0.00	0.00	671057.89	573621.36
12915.51	89.78	359.29	9760.11	-603.86	3370.45	3365.06	3424.12	0.00	0.00	0.00	671056.64	573721.35
13015.51	89.78	359.29	9760.50	-605.10	3470.45	3465.03	3522.80	0.00	0.00	0.00	671055.40	573821.35
13115.51	89.78	359.29	9760.89	-606.34	3570.44	3565.01	3621.56	0.00	0.00	0.00	671054.16	573921.34
13215.51	89.78	359.29	9761.28	-607.58	3670.43	3664.99	3720.38	0.00	0.00	0.00	671052.92	574021.33
13315.51	89.78	359.29	9761.66	-608.82	3770.42	3764.96	3819.26	0.00	0.00	0.00	671051.68	574121.32
13415.51	89.78	359.29	9762.05	-610.07	3870.41	3864.94	3918.20	0.00	0.00	0.00	671050.43	574221.31
13515.51	89.78	359.29	9762.44	-611.31	3970.40	3964.92	4017.19	0.00	0.00	0.00	671049.19	574321.30
13615.51	89.78	359.29	9762.83	-612.55	4070.40	4064.89	4116.23	0.00	0.00	0.00	671047.95	574421.30
13715.51	89.78	359.29	9763.22	-613.79	4170.39	4164.87	4215.31	0.00	0.00	0.00	671046.71	574521.29
13815.51	89.78	359.29	9763.60	-615.03	4270.38	4264.85	4314.44	0.00	0.00	0.00	671045.47	574621.28
13915.51	89.78	359.29	9763.99	-616.27	4370.37	4364.83	4413.61	0.00	0.00	0.00	671044.23	574721.27
14015.51	89.78	359.29	9764.38	-617.52	4470.36	4464.80	4512.81	0.00	0.00	0.00	671042.98	574821.26
14115.51	89.78	359.29	9764.77	-618.76	4570.35	4564.78	4612.05	0.00	0.00	0.00	671041.74	574921.25
14175.26	89.78	359.29	9765.00	-619.50	4630.10	4624.52	4671.36	0.00	0.00	0.00	671041.00	574981.00

- ① 4" Series 900 Valves
- ② Series 900 Annular preventer
- ③ Series 900 Ram type preventer
- ④ 2" Series 900 Check Valve
- ⑤ 2" Series 900 choke
- ⑥ 2" Series 900 Valves
- ⑦ 3" Series 900 Valves

