

Calculated by HawkEye Software

Job Number: BLM Unit
Company: SG Interests
Lease/Well: Federal 11-90-09 #5
Location:
Rig Name:
State/County: Colorado/ Gunnison
Country: USA

Elevation GL: 7678.90 ft
RKB: 20.00 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: Colorado Central 502
Projection Datum: CLARKE 1866
Magnetic Declination: 9.56°
Grid Convergence: -1.23452 W
Date: Tuesday, January 20, 2015

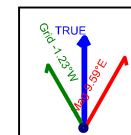
Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS °/100	Easting (US ft)	Northing (US ft)	Latitude Dec. Deg	Longitude Dec. Deg
.00	.00	.00	.00	.00	.00	.00	.00	1444583.60	473447.10	39.1169048	-107.4577204
5500.00	.00	33.36	5500.00	.00	.00	.00	.00	1444583.60	473447.10	39.1169048	-107.4577204
5530.00	.60	33.36	5530.00	.13	.09	-.01	2.00	1444583.69	473447.23	39.1169052	-107.4577201
5560.00	1.20	33.36	5560.00	.52	.35	-.04	2.00	1444583.96	473447.62	39.1169062	-107.4577192
5590.00	1.80	33.36	5589.99	1.18	.78	-.10	2.00	1444584.41	473448.26	39.1169080	-107.4577177
5620.00	2.40	33.36	5619.96	2.10	1.38	-.18	2.00	1444585.03	473449.17	39.1169106	-107.4577155
5650.00	3.00	33.36	5649.93	3.28	2.16	-.28	2.00	1444585.83	473450.33	39.1169138	-107.4577128
5680.00	3.60	33.36	5679.88	4.72	3.11	-.40	2.00	1444586.81	473451.75	39.1169178	-107.4577094
5710.00	4.20	33.36	5709.81	6.43	4.23	-.55	2.00	1444587.97	473453.43	39.1169224	-107.4577055
5740.00	4.80	33.36	5739.72	8.39	5.52	-.72	2.00	1444589.31	473455.37	39.1169278	-107.4577009
5770.00	5.40	33.36	5769.60	10.62	6.99	-.91	2.00	1444590.82	473457.57	39.1169340	-107.4576958
5800.00	6.00	33.36	5799.45	13.11	8.63	-1.12	2.00	1444592.51	473460.02	39.1169408	-107.4576900
5830.00	6.60	33.36	5829.27	15.86	10.44	-1.36	2.00	1444594.38	473462.73	39.1169483	-107.4576836
5860.00	7.20	33.36	5859.05	18.87	12.42	-1.61	2.00	1444596.43	473465.70	39.1169566	-107.4576766
5890.00	7.80	33.36	5888.80	22.14	14.57	-1.89	2.00	1444598.65	473468.92	39.1169656	-107.4576690
5920.00	8.40	33.36	5918.50	25.67	16.90	-2.20	2.00	1444601.05	473472.40	39.1169753	-107.4576608
5950.00	9.00	33.36	5948.15	29.46	19.39	-2.52	2.00	1444603.63	473476.14	39.1169857	-107.4576521
5980.00	9.60	33.36	5977.76	33.51	22.06	-2.87	2.00	1444606.38	473480.13	39.1169968	-107.4576427
6010.00	10.20	33.36	6007.31	37.82	24.90	-3.24	2.00	1444609.31	473484.37	39.1170086	-107.4576327
6040.00	10.80	33.36	6036.81	42.38	27.90	-3.63	2.00	1444612.41	473488.87	39.1170212	-107.4576221
6070.00	11.40	33.36	6066.25	47.21	31.08	-4.04	2.00	1444615.69	473493.63	39.1170344	-107.4576109
6100.00	12.00	33.36	6095.62	52.29	34.42	-4.47	2.00	1444619.14	473498.64	39.1170484	-107.4575991
6130.00	12.60	33.36	6124.93	57.63	37.94	-4.93	2.00	1444622.77	473503.90	39.1170630	-107.4575867
6160.00	13.20	33.36	6154.18	63.22	41.62	-5.41	2.00	1444626.58	473509.41	39.1170784	-107.4575737
6190.00	13.80	33.36	6183.35	69.07	45.47	-5.91	2.00	1444630.55	473515.18	39.1170944	-107.4575601
6220.00	14.40	33.36	6212.44	75.18	49.49	-6.43	2.00	1444634.70	473521.19	39.1171112	-107.4575460
6250.00	15.00	33.36	6241.46	81.53	53.68	-6.98	2.00	1444639.02	473527.46	39.1171287	-107.4575312
6280.00	15.60	33.36	6270.40	88.15	58.03	-7.54	2.00	1444643.52	473533.98	39.1171468	-107.4575159
6310.00	16.20	33.36	6299.25	95.01	62.55	-8.13	2.00	1444648.18	473540.74	39.1171657	-107.4575000
6340.00	16.80	33.36	6328.02	102.13	67.23	-8.74	2.00	1444653.02	473547.76	39.1171852	-107.4574834
6370.00	17.40	33.36	6356.69	109.50	72.08	-9.37	2.00	1444658.03	473555.02	39.1172054	-107.4574663
6400.00	18.00	33.36	6385.27	117.11	77.10	-10.02	2.00	1444663.21	473562.53	39.1172264	-107.4574487
6430.00	18.60	33.36	6413.75	124.98	82.28	-10.70	2.00	1444668.55	473570.28	39.1172480	-107.4574304
6460.00	19.20	33.36	6442.13	133.10	87.62	-11.39	2.00	1444674.07	473578.28	39.1172702	-107.4574116
6490.00	19.80	33.36	6470.41	141.46	93.13	-12.11	2.00	1444679.76	473586.52	39.1172932	-107.4573922
6520.00	20.40	33.36	6498.59	150.07	98.80	-12.84	2.00	1444685.61	473595.01	39.1173169	-107.4573722
6550.00	21.00	33.36	6526.65	158.93	104.63	-13.60	2.00	1444691.63	473603.74	39.1173412	-107.4573516
6580.00	21.60	33.36	6554.60	168.03	110.62	-14.38	2.00	1444697.82	473612.71	39.1173662	-107.4573305
6610.00	22.20	33.36	6582.43	177.38	116.77	-15.18	2.00	1444704.17	473621.92	39.1173918	-107.4573088
6640.00	22.80	33.36	6610.15	186.97	123.08	-16.00	2.00	1444710.69	473631.37	39.1174182	-107.4572866
6670.00	23.40	33.36	6637.74	196.80	129.56	-16.84	2.00	1444717.37	473641.06	39.1174452	-107.4572638
6700.00	24.00	33.36	6665.21	206.87	136.19	-17.70	2.00	1444724.22	473650.99	39.1174728	-107.4572404
6730.00	24.60	33.36	6692.56	217.18	142.98	-18.59	2.00	1444731.22	473661.15	39.1175011	-107.4572165
6760.00	25.20	33.36	6719.77	227.73	149.92	-19.49	2.00	1444738.39	473671.55	39.1175301	-107.4571920
6790.00	25.80	33.36	6746.85	238.52	157.02	-20.41	2.00	1444745.73	473682.18	39.1175597	-107.4571670
6820.00	26.40	33.36	6773.79	249.54	164.28	-21.36	2.00	1444753.22	473693.05	39.1175900	-107.4571414
6850.00	27.00	33.36	6800.59	260.80	171.69	-22.32	2.00	1444760.87	473704.14	39.1176209	-107.4571153
6880.00	27.60	33.36	6827.25	272.30	179.26	-23.30	2.00	1444768.68	473715.47	39.1176524	-107.4570886
6910.00	28.20	33.36	6853.76	284.02	186.98	-24.31	2.00	1444776.65	473727.03	39.1176846	-107.4570614
6940.00	28.80	33.36	6880.12	295.98	194.85	-25.33	2.00	1444784.78	473738.81	39.1177175	-107.4570337
6970.00	29.40	33.36	6906.34	308.16	202.87	-26.37	2.00	1444793.06	473750.82	39.1177509	-107.4570054
7000.00	30.00	33.36	6932.39	320.58	211.04	-27.43	2.00	1444801.50	473763.06	39.1177850	-107.4569766

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	NS (Ft)	EW (Ft)	VS (Ft)	DLS %/100	Easting (US ft)	Northing (US ft)	Latitude Dec. Deg	Longitude Dec. Deg
7030.00	30.60	33.36	6958.30	333.22	219.36	-28.52	2.00	1444810.10	473775.52	39.1178197	-107.4569472
7060.00	31.20	33.36	6984.04	346.09	227.84	-29.62	2.00	1444818.84	473788.20	39.1178551	-107.4569174
7090.00	31.80	33.36	7009.62	359.18	236.46	-30.74	2.00	1444827.74	473801.10	39.1178910	-107.4568870
7120.00	32.40	33.36	7035.03	372.50	245.22	-31.88	2.00	1444836.79	473814.23	39.1179276	-107.4568561
7128.81	32.58	33.36	7042.46	376.45	247.82	-32.22	2.00	1444839.48	473818.12	39.1179384	-107.4568469
8535.28	32.58	33.36	8227.66	1008.96	664.22	-86.35	.00	1445269.40	474441.52	39.1196751	-107.4553793
8565.28	31.87	37.06	8253.04	1022.03	673.43	-86.98	7.00	1445278.90	474454.38	39.1197110	-107.4553468
8595.28	31.27	40.91	8278.60	1034.23	683.30	-86.56	7.00	1445289.03	474466.37	39.1197445	-107.4553120
8625.28	30.79	44.88	8304.31	1045.56	693.82	-85.10	7.00	1445299.79	474477.47	39.1197756	-107.4552749
8655.28	30.43	48.94	8330.14	1055.99	704.97	-82.60	7.00	1445311.16	474487.66	39.1198043	-107.4552357
8685.28	30.20	53.08	8356.04	1065.51	716.73	-79.05	7.00	1445323.12	474496.92	39.1198304	-107.4551942
8715.28	30.10	57.26	8381.98	1074.12	729.09	-74.47	7.00	1445335.67	474505.26	39.1198540	-107.4551506
8745.28	30.14	61.44	8407.93	1081.79	742.04	-68.86	7.00	1445348.77	474512.65	39.1198751	-107.4551050
8775.28	30.31	65.60	8433.86	1088.52	755.55	-62.23	7.00	1445362.42	474519.09	39.1198936	-107.4550574
8805.28	30.60	69.70	8459.72	1094.29	769.60	-54.58	7.00	1445376.60	474524.56	39.1199094	-107.4550078
8835.28	31.03	73.72	8485.49	1099.11	784.19	-45.93	7.00	1445391.29	474529.06	39.1199226	-107.4549564
8865.28	31.57	77.62	8511.13	1102.96	799.28	-36.30	7.00	1445406.46	474532.59	39.1199332	-107.4549032
8895.28	32.23	81.40	8536.60	1105.84	814.86	-25.68	7.00	1445422.10	474535.13	39.1199411	-107.4548483
8925.28	33.00	85.02	8561.87	1107.75	830.91	-14.10	7.00	1445438.19	474536.69	39.1199464	-107.4547917
8955.28	33.87	88.49	8586.91	1108.68	847.41	-1.56	7.00	1445454.70	474537.26	39.1199489	-107.4547336
8985.28	34.83	91.80	8611.68	1108.63	864.33	11.90	7.00	1445471.62	474536.85	39.1199488	-107.4546739
9015.28	35.87	94.95	8636.15	1107.60	881.65	26.27	7.00	1445488.91	474535.45	39.1199459	-107.4546129
9045.28	37.00	97.94	8660.29	1105.59	899.35	41.54	7.00	1445506.57	474533.06	39.1199404	-107.4545505
9075.28	38.19	100.77	8684.06	1102.61	917.41	57.69	7.00	1445524.55	474529.69	39.1199322	-107.4544869
9105.28	39.45	103.45	8707.43	1098.66	935.79	74.68	7.00	1445542.84	474525.34	39.1199214	-107.4544221
9135.28	40.77	105.99	8730.38	1093.74	954.48	92.51	7.00	1445561.42	474520.03	39.1199079	-107.4543562
9165.28	42.14	108.39	8752.86	1087.87	973.45	111.14	7.00	1445580.26	474513.74	39.1198918	-107.4542894
9195.28	43.56	110.67	8774.86	1081.04	992.67	130.55	7.00	1445599.33	474506.51	39.1198730	-107.4542216
9225.28	45.02	112.83	8796.33	1073.28	1012.12	150.71	7.00	1445618.61	474498.32	39.1198517	-107.4541530
9255.28	46.52	114.88	8817.26	1064.58	1031.78	171.60	7.00	1445638.08	474489.20	39.1198278	-107.4540838
9285.28	48.05	116.84	8837.61	1054.96	1051.61	193.20	7.00	1445657.69	474479.16	39.1198014	-107.4540139
9315.28	49.62	118.69	8857.36	1044.44	1071.59	215.46	7.00	1445677.44	474468.21	39.1197725	-107.4539434
9345.28	51.21	120.47	8876.47	1033.02	1091.69	238.36	7.00	1445697.30	474456.36	39.1197412	-107.4538726
9375.28	52.83	122.16	8894.93	1020.73	1111.89	261.87	7.00	1445717.23	474443.64	39.1197074	-107.4538014
9405.28	54.48	123.79	8912.71	1007.57	1132.16	285.96	7.00	1445737.21	474430.05	39.1196713	-107.4537300
9435.28	56.14	125.34	8929.79	993.58	1152.47	310.59	7.00	1445757.21	474415.62	39.1196328	-107.4536584
9465.28	57.82	126.84	8946.13	978.76	1172.79	335.74	7.00	1445777.21	474400.36	39.1195922	-107.4535868
9495.28	59.52	128.29	8961.73	963.13	1193.10	361.36	7.00	1445797.18	474384.31	39.1195492	-107.4535152
9525.28	61.24	129.68	8976.56	946.73	1213.37	387.43	7.00	1445817.09	474367.46	39.1195042	-107.4534437
9555.28	62.97	131.03	8990.59	929.56	1233.57	413.91	7.00	1445836.91	474349.86	39.1194570	-107.4533725
9585.28	64.71	132.34	9003.82	911.65	1253.68	440.76	7.00	1445856.63	474331.53	39.1194079	-107.4533017
9615.28	66.46	133.61	9016.22	893.03	1273.66	467.95	7.00	1445876.21	474312.48	39.1193567	-107.4532312
9645.28	68.23	134.84	9027.78	873.72	1293.50	495.44	7.00	1445895.63	474292.75	39.1193037	-107.4531613
9675.28	70.00	136.05	9038.47	853.75	1313.16	523.19	7.00	1445914.85	474272.36	39.1192489	-107.4530920
9705.28	71.78	137.23	9048.29	833.14	1332.62	551.17	7.00	1445933.86	474251.33	39.1191923	-107.4530234
9735.28	73.56	138.39	9057.23	811.92	1351.85	579.34	7.00	1445952.64	474229.71	39.1191340	-107.4529556
9765.28	75.36	139.52	9065.27	790.12	1370.83	607.67	7.00	1445971.14	474207.51	39.1190742	-107.4528888
9795.28	77.16	140.64	9072.40	767.77	1389.53	636.10	7.00	1445989.35	474184.76	39.1190128	-107.4528229
9825.28	78.96	141.74	9078.60	744.90	1407.93	664.61	7.00	1446007.25	474161.50	39.1189500	-107.4527580
9855.28	80.77	142.82	9083.88	721.55	1425.99	693.16	7.00	1446024.81	474137.76	39.1188859	-107.4526944
9885.28	82.58	143.90	9088.23	697.73	1443.70	721.70	7.00	1446042.00	474113.56	39.1188205	-107.4526319
9915.28	84.39	144.97	9091.63	673.48	1461.04	750.21	7.00	1446058.81	474088.95	39.1187539	-107.4525708
9945.28	86.20	146.03	9094.10	648.84	1477.97	778.64	7.00	1446075.21	474063.95	39.1186863	-107.4525112
9975.28	88.02	147.08	9095.61	623.85	1494.49	806.95	7.00	1446091.18	474038.60	39.1186176	-107.4524530
10005.28	89.84	148.14	9096.17	598.52	1510.55	835.10	7.00	1446106.70	474012.94	39.1185481	-107.4523963
10011.64	90.22	148.36	9096.17	593.11	1513.90	841.05	7.00	1446109.93	474007.45	39.1185332	-107.4523845
13911.66	90.22	148.36	9081.09	-2727.20	3559.75	4484.36	.00	1448083.77	470643.84	39.1094160	-107.4451753

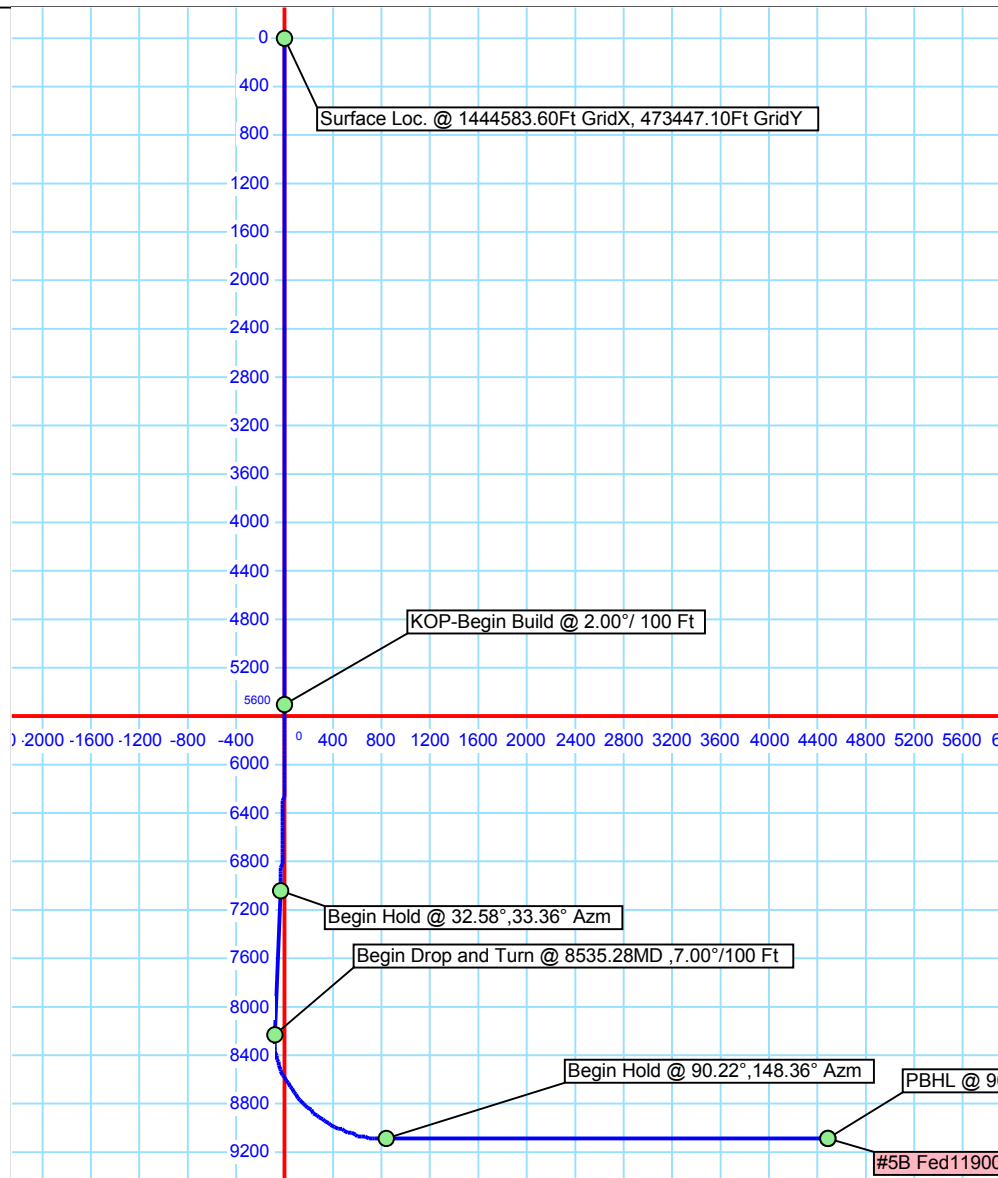


Job Number:
Company: SG Interests
Lease/Well: Federal 11-90-09 #5
Location:
Rig Name:
State/Country: Colorado/ Gunnison
Country:
API Number:

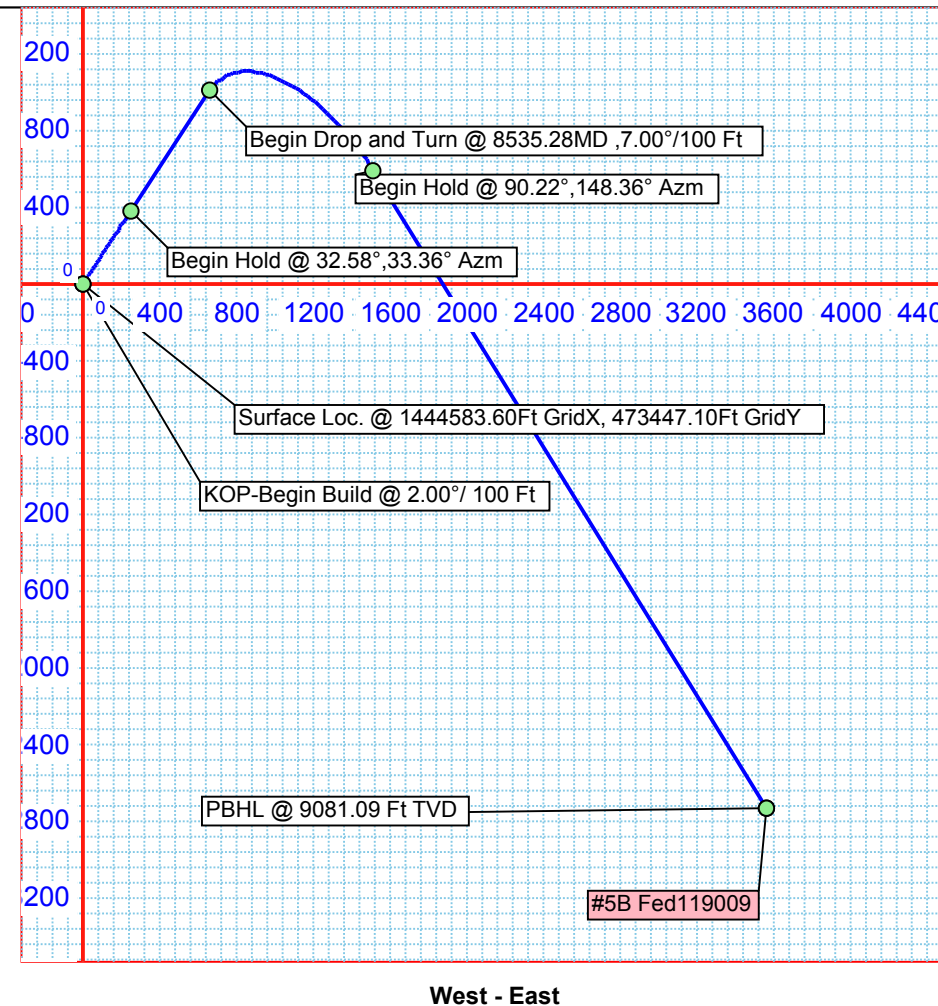
Elevation (To MSL): 7678.90 ft
RKB: 20.00 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: Colorado Central 502
Projection Datum: CLARKE 1866
Magnetic Declination: 9.59
Grid Convergence: -1.23452 W
Date: Tuesday, January 20, 2015



True Vertical Depth



South - North



Vertical Section (400 Ft/Div) VSP: 127.46°