

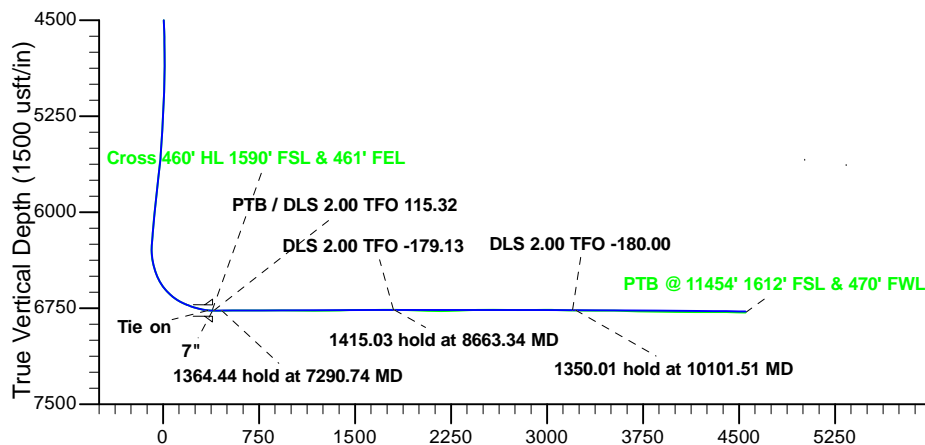


Project: Weld Co., CO
Site: Sec.31-T7N-R63W
Well: Spaur Brothers EH 31-262HN
Wellbore: Wellbore #1
Design: Design #4
Lat: 40° 31' 45.969 N
Long: 104° 28' 15.971 W
GL: 4762.00
KB: WELL @ 4778.50usft (Original Well Elev)

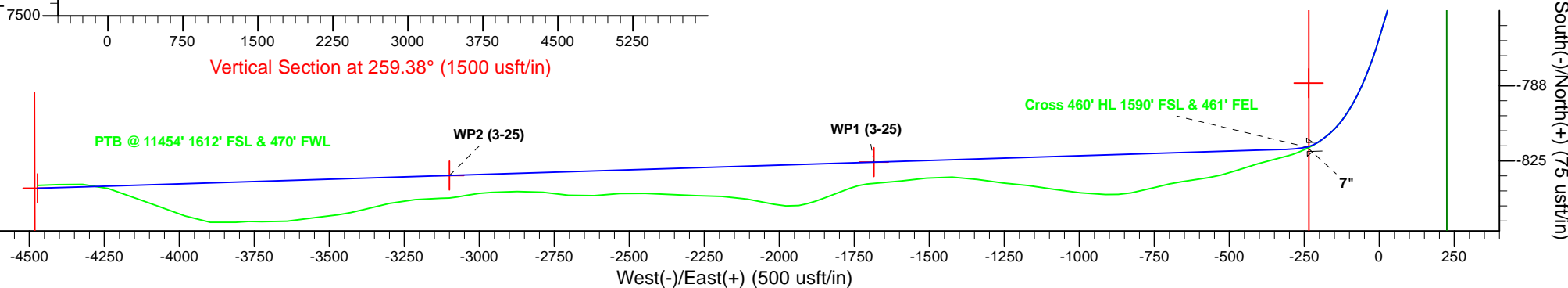


M Azimuths to True North
Magnetic North: 8.36°
Magnetic Field
Strength: 52947.5snT
Dip Angle: 67.11°
Date: 02/18/2014
Model: IGRF2010

CASING DETAILS:
TVD MD Name Size
6768.40 7219.69 7" 7"



Vertical Section at 259.38° (1500 usft/in)





Precision

Survey Report

Client	Great Western Oil and Gas Co.	MWD Operator	L. Suarez / A. Thomson
Well Name	Spaur Brothers EH 31-262HN	Rig Name	Xtreme 17
Location	Weld County, CO.	End Date	3/27/2014
Start Date	2/23/2014	Proposed Direction	259.4
North Reference	True North	Declination	8.36°

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
TIE IN	0	0.00	0.00	0.00	0.00	0.00	0.00	0.0
1	141	0.4	26.6	141.00	0.44	0.22	-0.30	0.3
2	234	1.0	47.9	233.99	1.27	0.97	-1.19	0.7
3	327	0.7	24.9	326.98	2.33	1.81	-2.21	0.5
4	421	0.8	104.2	420.98	2.69	2.69	-3.14	1.0
5	514	0.6	171.0	513.97	2.05	3.39	-3.71	0.8
6	607	0.5	148.8	606.97	1.23	3.68	-3.84	0.3
7	701	0.9	176.4	700.96	0.14	3.94	-3.90	0.5
8	794	1.0	181.5	793.95	-1.40	3.96	-3.64	0.1
9	887	1.2	230.2	886.93	-2.84	3.19	-2.62	1.0
10	981	1.7	235.1	980.90	-4.26	1.29	-0.49	0.5
11	1001	1.3	235.5	1000.89	-4.56	0.86	-0.01	2.0
12	1079	1.8	235.5	1078.86	-5.76	-0.88	1.92	0.6
13	1172	2.3	227.2	1171.81	-7.85	-3.45	4.84	0.6
14	1265	0.8	177.8	1264.77	-9.77	-4.79	6.51	2.0
15	1359	1.0	162.9	1358.76	-11.21	-4.53	6.52	0.3
16	1452	1.0	174.1	1451.75	-12.79	-4.20	6.49	0.2
17	1546	2.2	59.5	1545.72	-12.69	-2.57	4.86	2.9
18	1639	1.8	72.7	1638.67	-11.35	0.37	1.73	0.7
19	1732	1.3	44.0	1731.63	-10.16	2.49	-0.58	1.0
20	1826	1.8	27.5	1825.60	-8.08	3.92	-2.36	0.7
21	1919	1.7	25.6	1918.56	-5.54	5.19	-4.08	0.1
22	2012	1.4	25.2	2011.52	-3.27	6.27	-5.56	0.3
23	2105	1.0	20.7	2104.50	-1.48	7.04	-6.64	0.4
24	2199	0.5	28.9	2198.49	-0.36	7.53	-7.33	0.5
25	2284	0.3	10.3	2283.49	0.19	7.74	-7.65	0.3
26	2369	0.5	341.8	2368.49	0.76	7.67	-7.68	0.3



Precision

Survey Report

Client	Great Western Oil and Gas Co.	MWD Operator	L. Suarez / A. Thomson
Well Name	Spaur Brothers EH 31-262HN	Rig Name	Xtreme 17
Location	Weld County, CO.	End Date	3/27/2014
Start Date	2/23/2014	Proposed Direction	259.4
North Reference	True North	Declination	8.36°

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
27	2455	0.7	332.9	2454.48	1.58	7.31	-7.48	0.3
28	2540	0.7	333.0	2539.48	2.51	6.84	-7.18	0.0
29	2626	0.5	336.2	2625.47	3.32	6.45	-6.95	0.2
30	2711	0.6	336.5	2710.47	4.06	6.12	-6.77	0.1
31	2797	0.4	328.5	2796.47	4.73	5.79	-6.56	0.2
32	2882	0.4	0.6	2881.46	5.28	5.63	-6.51	0.3
33	2967	0.3	351.3	2966.46	5.80	5.60	-6.58	0.1
34	3053	0.3	18.7	3052.46	6.24	5.64	-6.70	0.2
35	3138	0.3	335.5	3137.46	6.65	5.62	-6.75	0.3
36	3223	0.1	113.5	3222.46	6.82	5.60	-6.76	0.4
37	3308	0.2	106.6	3307.46	6.75	5.81	-6.95	0.1
38	3394	0.7	148.1	3393.46	6.26	6.23	-7.28	0.7
39	3479	1.5	167.4	3478.44	4.73	6.75	-7.50	1.0
40	3564	1.1	168.8	3563.42	2.85	7.15	-7.55	0.5
41	3649	1.4	176.8	3648.40	1.01	7.36	-7.42	0.4
42	3735	1.4	176.2	3734.37	-1.09	7.49	-7.16	0.0
43	3820	1.4	168.5	3819.35	-3.14	7.77	-7.06	0.2
44	3905	1.6	182.9	3904.32	-5.34	7.91	-6.79	0.5
45	3990	1.5	197.0	3989.29	-7.59	7.53	-6.00	0.5
46	4076	1.6	265.7	4075.26	-8.76	6.00	-4.29	2.0
47	4161	1.3	272.0	4160.24	-8.81	3.86	-2.17	0.4
48	4247	1.4	292.6	4246.21	-8.38	1.91	-0.33	0.6
49	4332	1.8	287.1	4331.18	-7.58	-0.32	1.72	0.5
50	4417	1.5	273.6	4416.14	-7.12	-2.71	3.98	0.6
51	4502	1.8	270.4	4501.11	-7.04	-5.16	6.36	0.4
52	4587	1.8	262.0	4586.07	-7.22	-7.81	9.01	0.3
53	4673	0.6	300.5	4672.05	-7.18	-9.54	10.70	1.6
54	4758	1.0	302.4	4757.04	-6.55	-10.55	11.57	0.5
55	4843	1.1	154.6	4842.03	-6.89	-10.82	11.91	2.4



Precision

Survey Report

Client	Great Western Oil and Gas Co.	MWD Operator	L. Suarez / A. Thomson
Well Name	Spaur Brothers EH 31-262HN	Rig Name	Xtreme 17
Location	Weld County, CO.	End Date	3/27/2014
Start Date	2/23/2014	Proposed Direction	259.4
North Reference	True North	Declination	8.36°

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
56	4928	2.6	154.8	4926.99	-9.38	-9.65	11.22	1.8
57	5014	4.9	158.7	5012.80	-14.56	-7.49	10.04	2.7
58	5099	8.4	157.2	5097.21	-23.67	-3.76	8.06	4.1
59	5184	9.8	150.4	5181.14	-35.69	2.22	4.40	2.1
60	5269	11.2	150.4	5264.72	-49.15	9.87	-0.64	1.6
61	5354	12.3	153.7	5347.94	-64.45	17.96	-5.77	1.5
62	5439	14.8	157.8	5430.56	-82.62	26.07	-10.40	3.1
63	5524	17.5	157.6	5512.20	-104.49	35.05	-15.19	3.2
64	5609	21.5	156.5	5592.31	-130.60	46.13	-21.27	4.7
65	5695	25.4	154.6	5671.19	-161.73	60.33	-29.49	4.6
66	5780	27.4	156.0	5747.33	-196.07	76.11	-38.67	2.5
67	5865	30.1	159.9	5821.85	-233.96	91.39	-46.71	3.9
68	5950	31.7	160.6	5894.78	-275.05	106.14	-53.63	1.9
69	6036	31.2	157.8	5968.15	-316.98	122.06	-61.55	1.8
70	6121	31.4	160.6	6040.78	-358.26	137.73	-69.35	1.7
71	6206	32.3	161.8	6112.99	-400.72	152.18	-75.73	1.3
72	6292	29.7	159.7	6186.70	-442.53	166.75	-82.34	3.3
73	6377	30.4	164.1	6260.28	-482.97	179.95	-87.86	2.7
74	6419	31.1	167.8	6296.38	-503.80	185.16	-89.14	4.8
75	6462	31.6	175.7	6333.12	-525.90	188.35	-88.20	9.6
76	6505	32.9	187.5	6369.52	-548.73	187.67	-83.33	14.9
77	6547	33.9	194.0	6404.59	-571.41	183.35	-74.90	8.8
78	6590	32.3	193.5	6440.62	-594.22	177.76	-65.21	3.8
79	6633	32.6	197.3	6476.91	-616.45	171.64	-55.09	4.8
80	6675	33.8	210.2	6512.09	-637.38	162.38	-42.14	17.0
81	6718	38.0	220.2	6546.95	-657.86	147.80	-24.03	16.7
82	6761	41.8	228.3	6579.95	-677.52	128.54	-1.47	15.0
83	6803	44.9	232.3	6610.50	-695.90	106.35	23.72	9.9
84	6846	49.3	234.2	6639.76	-714.73	81.11	52.00	10.7



Precision

Survey Report

Client	Great Western Oil and Gas Co.	MWD Operator	L. Suarez / A. Thomson
Well Name	Spaur Brothers EH 31-262HN	Rig Name	Xtreme 17
Location	Weld County, CO.	End Date	3/27/2014
Start Date	2/23/2014	Proposed Direction	259.4
North Reference	True North	Declination	8.36°

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
85	6889	55.0	236.5	6666.14	-734.00	53.18	83.01	13.9
86	6931	60.1	241.4	6688.67	-752.23	22.82	116.21	15.6
87	6974	64.5	245.7	6708.67	-769.15	-11.26	152.82	13.5
88	7017	68.9	250.6	6725.68	-783.82	-47.91	191.54	14.6
89	7059	71.8	254.5	6739.81	-795.66	-85.63	230.80	11.1
90	7102	74.8	259.2	6752.17	-805.01	-125.72	271.93	12.6
91	7144	79.2	262.7	6761.61	-811.44	-166.12	312.82	13.3
92	7183	85.4	264.6	6766.84	-815.71	-204.51	351.34	16.6
93	7295	91.8	268.0	6769.57	-822.92	-316.17	462.42	6.5
94	7380	90.7	267.5	6767.72	-826.26	-401.08	546.49	1.4
95	7465	90.0	267.1	6767.20	-830.26	-485.99	630.68	0.9
96	7551	89.4	268.7	6767.65	-833.41	-571.93	715.72	2.0
97	7636	90.3	268.7	6767.87	-835.34	-656.90	799.60	1.1
98	7721	90.4	267.6	6767.35	-838.09	-741.86	883.60	1.3
99	7807	89.9	268.5	6767.13	-841.01	-827.80	968.62	1.2
100	7892	89.3	270.4	6767.72	-841.83	-912.79	1052.30	2.3
101	7977	88.6	270.8	6769.28	-840.94	-997.77	1135.66	0.9
102	8062	90.4	271.5	6770.02	-839.23	-1082.75	1218.87	2.3
103	8147	91.2	271.0	6768.84	-837.38	-1167.72	1302.04	1.1
104	8233	91.9	270.8	6766.51	-836.03	-1253.68	1386.28	0.8
105	8318	90.9	271.5	6764.43	-834.32	-1338.63	1469.47	1.4
106	8403	89.9	270.1	6763.84	-833.14	-1423.62	1552.78	2.0
107	8489	90.0	269.2	6763.91	-833.66	-1509.62	1637.40	1.1
108	8574	90.7	268.9	6763.39	-835.07	-1594.60	1721.19	0.9
109	8659	89.3	269.6	6763.39	-836.18	-1679.59	1804.93	1.8
110	8744	88.6	267.1	6764.95	-838.63	-1764.54	1888.87	3.1
111	8830	88.2	266.4	6767.35	-843.50	-1850.36	1974.12	0.9
112	8915	87.8	268.5	6770.32	-847.28	-1935.22	2058.23	2.5
113	8958	88.4	270.8	6771.75	-847.54	-1978.20	2100.51	5.5



Precision

Survey Report

Client	Great Western Oil and Gas Co.	MWD Operator	L. Suarez / A. Thomson
Well Name	Spaur Brothers EH 31-262HN	Rig Name	Xtreme 17
Location	Weld County, CO.	End Date	3/27/2014
Start Date	2/23/2014	Proposed Direction	259.4
North Reference	True North	Declination	8.36°

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
114	9000	89.3	271.7	6772.59	-846.63	-2020.18	2141.60	3.0
115	9043	91.2	271.7	6772.40	-845.35	-2063.16	2183.61	4.4
116	9086	91.5	271.5	6771.39	-844.15	-2106.13	2225.62	0.8
117	9171	92.1	270.4	6768.72	-842.74	-2191.07	2308.85	1.5
118	9256	92.5	270.1	6765.31	-842.37	-2276.00	2392.26	0.6
119	9342	90.9	270.6	6762.76	-841.85	-2361.96	2476.65	1.9
120	9427	89.5	270.3	6762.46	-841.18	-2446.95	2560.07	1.7
121	9512	89.2	269.6	6763.42	-841.25	-2531.95	2643.62	0.9
122	9598	90.2	269.0	6763.87	-842.31	-2617.94	2728.33	1.4
123	9683	90.0	271.2	6763.73	-842.16	-2702.93	2811.84	2.6
124	9768	90.0	270.8	6763.73	-840.67	-2787.92	2895.10	0.5
125	9854	90.6	269.7	6763.28	-840.30	-2873.92	2979.55	1.5
126	9939	88.5	269.7	6763.94	-840.74	-2958.91	3063.17	2.5
127	10024	88.2	268.2	6766.39	-842.30	-3043.86	3146.95	1.8
128	10109	89.3	269.9	6768.24	-843.71	-3128.82	3230.72	2.4
129	10195	89.7	269.2	6769.00	-844.38	-3214.81	3315.36	0.9
130	10280	90.5	268.3	6768.85	-846.24	-3299.79	3399.23	1.4
131	10365	89.6	267.6	6768.77	-849.28	-3384.74	3483.28	1.3
132	10451	88.6	268.9	6770.12	-851.90	-3470.68	3568.23	1.9
133	10536	87.6	268.9	6772.94	-853.54	-3555.62	3652.02	1.2
134	10621	89.0	269.0	6775.46	-855.09	-3640.56	3735.79	1.7
135	10706	89.1	270.6	6776.87	-855.39	-3725.55	3819.38	1.9
136	10792	89.1	269.0	6778.22	-855.69	-3811.54	3903.95	1.9
137	10877	88.9	271.0	6779.71	-855.69	-3896.52	3987.47	2.4
138	10962	89.8	273.4	6780.67	-852.43	-3981.44	4070.34	3.0
139	11047	89.9	272.7	6780.89	-847.90	-4066.32	4152.93	0.8
140	11133	90.7	273.4	6780.44	-843.33	-4152.20	4236.50	1.2
141	11218	89.7	272.7	6780.15	-838.81	-4237.08	4319.09	1.4
142	11303	88.9	270.1	6781.19	-836.73	-4322.04	4402.21	3.2



Precision

Survey Report

Client	Great Western Oil and Gas Co.	MWD Operator	L. Suarez / A. Thomson
Well Name	Spaur Brothers EH 31-262HN	Rig Name	Xtreme 17
Location	Weld County, CO.	End Date	3/27/2014
Start Date	2/23/2014	Proposed Direction	259.4
North Reference	True North	Declination	8.36°

SUR NUM	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
143	11386	88.9	269.7	6782.78	-836.87	-4405.02	4483.80	0.5
PTB	11454	88.9	269.7	6784.08	-837.23	-4473.01	4550.69	0.0
145								
146								
147								
148								
149								
150								
151								
152								
153								
154								
155								
156								
157								
158								
159								
160								
161								
162								
163								
164								
165								
166								
167								
168								
169								
170								
171								