



Interchange A S22-30-09N

Directional Survey Report

Start date: 09/24/2019

End date:

Company Name: Extraction Oil & Gas
Well Name: Interchange A S22-30-09N
Field: Wattenberg
Rig ID: Ensign #147
API/UWI: 05-014-20771

State/Prov: Colorado
County: Broomfield
Country: US
Location: Interchange A
Latitude/Longitude: 39.980392 / -104.993068

Survey Company: Atlas Drilling Services
Job Number: 00273EX-CO
Proposed Azimuth: 174.04
Declination: 8.05 **KB:** 28'
North Reference: True

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
TiIn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	
1	123.00	0.53	31.14	123.00	0.49	0.29	-0.45	0.57	31.14	0.43	123.00
2	215.00	0.40	25.90	215.00	1.14	0.65	-1.07	1.31	29.86	0.15	92.00
3	307.00	0.49	45.20	306.99	1.71	1.07	-1.59	2.02	32.19	0.19	92.00
4	396.00	0.71	61.20	395.99	2.24	1.83	-2.04	2.89	39.21	0.31	89.00
5	486.00	0.62	300.53	485.98	2.76	1.90	-2.54	3.35	34.53	1.29	90.00
6	575.00	1.10	305.90	574.97	3.50	0.79	-3.40	3.59	12.71	0.55	89.00
7	665.00	0.18	284.26	664.97	4.04	-0.05	-4.03	4.04	359.33	1.04	90.00
8	754.00	0.09	91.21	753.97	4.08	-0.11	-4.07	4.08	358.41	0.30	89.00
9	844.00	1.28	18.10	843.96	5.03	0.27	-4.97	5.04	3.07	1.40	90.00
10	933.00	4.11	28.23	932.85	8.79	2.09	-8.52	9.03	13.37	3.21	89.00
11	1,023.00	7.42	29.78	1,022.39	16.67	6.50	-15.91	17.90	21.30	3.68	90.00
12	1,112.00	10.21	28.14	1,110.33	28.62	13.08	-27.11	31.47	24.56	3.15	89.00
13	1,202.00	12.42	24.80	1,198.57	44.44	20.90	-42.03	49.11	25.19	2.56	90.00
14	1,291.00	15.02	24.40	1,285.02	63.63	29.68	-60.21	70.22	25.00	2.92	89.00
15	1,380.00	18.03	25.63	1,370.34	86.56	40.40	-81.90	95.53	25.02	3.40	89.00
16	1,469.00	20.50	26.12	1,454.35	112.98	53.22	-106.84	124.89	25.23	2.78	89.00
17	1,559.00	23.42	24.97	1,537.81	143.35	67.72	-135.54	158.54	25.29	3.28	90.00
18	1,597.00	23.99	23.52	1,572.60	157.28	73.99	-148.74	173.81	25.19	2.15	38.00
PTB	1,658.00	23.99	23.52	1,628.33	180.02	83.88	-170.33	198.60	24.98	0.00	61.00