



Interchange A S22-30-04C

Directional Survey Report

Start date: 09/19/2019

End date:

Company Name: Extraction Oil & Gas
Well Name: Interchange A S22-30-04C
Field: Wattenberg
Rig ID: Ensign #147
API/UWI: 05-014-20769

State/Prov: Colorado
County: Broomfield
Country: US
Location: Interchange A
Latitude/Longitude: 39.980776 / -104.993971

Survey Company: Atlas Drilling Services
Job Number: EX-CO
Proposed Azimuth: 178.6
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	1.24	342.65	122.99	1.27	-0.40	-1.28	1.33	342.65	1.01	123.00
2	215.00	1.50	333.62	214.96	3.30	-1.23	-3.33	3.52	339.57	0.37	92.00
3	306.00	0.84	1.43	305.95	5.03	-1.74	-5.07	5.33	340.92	0.94	91.00
4	395.00	0.71	4.51	394.94	6.24	-1.68	-6.27	6.46	344.91	0.15	89.00
5	485.00	0.84	7.02	484.93	7.45	-1.56	-7.48	7.61	348.19	0.15	90.00
6	574.00	0.93	68.51	573.92	8.36	-0.81	-8.38	8.40	354.50	1.02	89.00
7	664.00	0.18	25.63	663.92	8.75	-0.06	-8.75	8.75	359.58	0.90	90.00
8	754.00	0.84	355.43	753.91	9.54	-0.06	-9.54	9.54	359.66	0.77	90.00
9	844.00	1.55	359.40	843.89	11.41	-0.12	-11.41	11.41	359.39	0.79	90.00
10	932.00	3.09	20.34	931.82	14.83	0.69	-14.81	14.84	2.67	1.97	88.00
11	1,022.00	5.35	21.27	1,021.57	21.01	3.06	-20.93	21.23	8.28	2.51	90.00
12	1,112.00	7.42	16.60	1,111.01	30.49	6.24	-30.33	31.12	11.56	2.37	90.00
13	1,201.00	9.19	12.19	1,199.07	42.95	9.38	-42.71	43.96	12.32	2.11	89.00
14	1,290.00	11.31	6.27	1,286.65	58.57	11.84	-58.27	59.76	11.42	2.66	89.00
15	1,379.00	13.43	4.25	1,373.58	77.56	13.56	-77.20	78.73	9.91	2.43	89.00
16	1,469.00	15.20	4.91	1,460.78	99.74	15.34	-99.33	100.91	8.74	1.97	90.00
17	1,558.00	17.45	6.05	1,546.18	124.63	17.74	-124.16	125.89	8.10	2.55	89.00
PTB	1,631.00	17.45	6.05	1,615.83	146.40	20.05	-145.87	147.77	7.80	0.00	73.00