



Interchange A S22-30-07C

Directional Survey Report

Start date: 09/23/2019

End date: 09/23/2019

Company Name: Extraction Oil & Gas
Well Name: Interchange A S22-30-07C
Field: Wattenberg
Rig ID: Ensign #147
API/UWI: 05-014-20768

State/Prov: Colorado
County: Broomfield
Country: US
Location: Interchange A
Latitude/Longitude: 39.980305 / -104.993130

Survey Company: Atlas Drilling Services
Job Number: 00271EX-CO
Proposed Azimuth: 176.2
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	0.40	303.83	123.00	0.24	-0.36	-0.26	0.43	303.83	0.33	123.00
2	215.00	0.49	245.53	215.00	0.25	-0.98	-0.32	1.01	284.56	0.48	92.00
3	307.00	0.75	298.76	306.99	0.38	-1.87	-0.50	1.91	281.55	0.65	92.00
4	396.00	0.66	237.07	395.99	0.38	-2.81	-0.57	2.83	277.77	0.82	89.00
5	486.00	0.62	135.67	485.98	-0.25	-2.90	0.05	2.91	265.14	1.10	90.00
6	575.00	1.02	115.35	574.97	-0.93	-1.85	0.81	2.07	243.31	0.55	89.00
7	665.00	0.66	135.36	664.96	-1.64	-0.76	1.59	1.81	204.91	0.51	90.00
8	754.00	1.19	144.97	753.95	-2.76	0.13	2.77	2.77	177.35	0.62	89.00
9	844.00	0.71	93.94	843.94	-3.57	1.22	3.64	3.77	161.11	1.03	90.00
10	933.00	1.10	28.06	932.93	-2.85	2.17	2.99	3.58	142.69	1.17	89.00
11	1,023.00	3.05	14.79	1,022.87	0.23	3.19	-0.01	3.20	85.94	2.22	90.00
12	1,112.00	4.86	17.39	1,111.65	6.11	4.92	-5.77	7.85	38.84	2.04	89.00
13	1,202.00	6.63	8.98	1,201.20	14.88	6.87	-14.40	16.39	24.78	2.17	90.00
14	1,291.00	9.46	7.90	1,289.31	27.21	8.68	-26.57	28.56	17.69	3.18	89.00
15	1,380.00	12.28	9.50	1,376.71	43.79	11.25	-42.95	45.21	14.41	3.19	89.00
16	1,469.00	14.76	13.43	1,463.24	64.16	15.44	-62.99	65.99	13.54	2.97	89.00
17	1,559.00	17.41	12.85	1,549.71	88.44	21.10	-86.84	90.92	13.42	2.95	90.00
PTB	1,634.00	17.41	12.85	1,621.27	110.32	26.09	-108.34	113.36	13.31	0.00	75.00