



Interchange A S22-30-05N

Directional Survey Report

Start date: 09/18/2019

End date: 09/19/2019

Company Name: Extraction Oil & Gas
Well Name: Interchange A S22-30-05N
Field: Wattenberg
Rig ID: Ensign #147
API/UWI: 05-014-20763

State/Prov: Colorado
County: Broomfield
Country: US
Location: Interchange A
Latitude/Longitude: 39.980819 / -104.993940

Survey Company: Atlas Drilling Services
Job Number: EX-CO
Proposed Azimuth: 177.52
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	1.02	193.13	122.99	-1.07	-0.25	1.05	1.09	193.13	0.83	123.00
2	215.00	1.64	201.42	214.97	-3.09	-0.92	3.05	3.22	196.51	0.70	92.00
3	306.00	1.72	159.82	305.93	-5.58	-0.92	5.54	5.66	189.36	1.31	91.00
4	395.00	1.99	140.47	394.89	-8.03	0.52	8.04	8.05	176.26	0.76	89.00
5	485.00	1.50	85.52	484.85	-9.14	2.69	9.25	9.53	163.58	1.85	90.00
6	574.00	1.86	23.74	573.82	-7.73	4.44	7.91	8.91	150.14	1.97	89.00
7	664.00	2.21	4.91	663.76	-4.66	5.17	4.88	6.96	132.03	0.83	90.00
8	754.00	1.33	41.72	753.72	-2.15	6.02	2.41	6.39	109.70	1.55	90.00
9	844.00	1.59	29.51	843.69	-0.29	7.33	0.60	7.33	92.25	0.45	90.00
10	932.00	2.83	27.48	931.63	2.70	8.93	-2.31	9.33	73.17	1.41	88.00
11	1,022.00	4.68	28.89	1,021.43	7.89	11.73	-7.37	14.14	56.08	2.06	90.00
12	1,112.00	6.05	13.91	1,111.04	15.71	14.64	-15.06	21.47	42.99	2.16	90.00
13	1,201.00	8.66	9.81	1,199.30	26.86	16.91	-26.11	31.75	32.19	2.99	89.00
14	1,290.00	10.21	11.00	1,287.09	41.21	19.56	-40.33	45.62	25.39	1.76	89.00
15	1,379.00	11.36	9.50	1,374.52	57.60	22.51	-56.57	61.84	21.35	1.33	89.00
16	1,465.00	12.99	9.81	1,458.58	75.48	25.56	-74.30	79.69	18.71	1.90	86.00
17	1,558.00	16.31	12.77	1,548.55	98.52	30.23	-97.12	103.05	17.06	3.66	93.00
18	1,569.00	17.15	13.16	1,559.08	101.61	30.94	-100.17	106.21	16.93	7.70	11.00
PTB	1,630.00	17.15	13.16	1,617.37	119.12	35.03	-117.49	124.17	16.39	0.00	61.00