



Interchange A S22-30-03N

Directional Survey Report

Start date: 09/19/2019

End date: 09/20/2019

Company Name: Extraction Oil & Gas
Well Name: Interchange A S22-30-03N
Field: Wattenberg
Rig ID: Ensign #147
API/UWI: 05-014-20767

State/Prov: Colorado
County: Broomfield
Country: US
Location: Interchange A
Latitude/Longitude: 39.980733 / -104.994002

Survey Company: Atlas Drilling Services
Job Number: 00267EX-CO
Proposed Azimuth: 179.68
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	0.27	244.82	123.00	-0.12	-0.26	0.12	0.29	244.82	0.22	123.00
2	215.00	0.35	238.21	215.00	-0.36	-0.70	0.36	0.79	242.46	0.10	92.00
3	306.00	0.80	225.70	305.99	-0.95	-1.39	0.95	1.68	235.51	0.51	91.00
4	395.00	0.80	225.65	394.98	-1.82	-2.28	1.81	2.92	231.34	0.00	89.00
5	485.00	1.46	348.82	484.97	-1.14	-2.95	1.12	3.16	248.93	2.24	90.00
6	574.00	1.59	12.02	573.94	1.18	-2.91	-1.20	3.14	292.12	0.70	89.00
7	664.00	1.33	12.19	663.91	3.43	-2.43	-3.44	4.20	324.64	0.29	90.00
8	754.00	2.21	18.05	753.87	6.10	-1.67	-6.11	6.32	344.66	1.00	90.00
9	844.00	3.89	5.48	843.74	10.79	-0.84	-10.79	10.82	355.53	2.00	90.00
10	932.00	6.85	3.41	931.35	19.00	-0.25	-19.00	19.00	359.26	3.37	88.00
11	1,022.00	9.63	0.37	1,020.41	31.89	0.12	-31.88	31.89	0.22	3.13	90.00
12	1,112.00	11.62	2.00	1,108.86	48.47	0.49	-48.47	48.48	0.58	2.24	90.00
13	1,201.00	12.77	359.36	1,195.85	67.27	0.69	-67.26	67.27	0.59	1.44	89.00
14	1,290.00	14.45	0.72	1,282.35	88.21	0.72	-88.20	88.21	0.47	1.92	89.00
15	1,379.00	16.53	359.09	1,368.11	111.97	0.66	-111.97	111.98	0.34	2.39	89.00
16	1,469.00	17.32	358.12	1,454.21	138.17	0.02	-138.16	138.17	0.01	0.93	90.00
17	1,558.00	18.65	359.49	1,538.86	165.64	-0.55	-165.64	165.64	359.81	1.57	89.00
18	1,575.00	18.87	0.54	1,554.96	171.10	-0.54	-171.11	171.11	359.82	2.37	17.00
PTB	1,636.00	18.87	0.54	1,612.68	190.83	-0.36	-190.83	190.83	359.89	0.00	61.00