



Interchange A S22-30-02N

Directional Survey Report

Start date: 09/20/2019

End date:

Company Name: Extraction Oil & Gas
Well Name: Interchange A S22-30-02N
Field: Wattenberg
Rig ID: Ensign #147
API/UWI: 05-014-20764

State/Prov: Colorado
County: Broomfield
Country: US
Location: Interchange A
Latitude/Longitude: 39.980690 / -104.994033

Survey Company: Atlas Drilling Services
Job Number: 00268EX-CO
Proposed Azimuth: 180.76
Declination: 8.05 **KB:** 28'
North Reference: True

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL
TieIn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	
1	123.00	0.49	343.80	123.00	0.51	-0.15	-0.50	0.53	343.80	0.40	123.00
2	215.00	0.71	345.39	214.99	1.43	-0.40	-1.43	1.49	344.41	0.24	92.00
3	306.00	0.93	348.60	305.98	2.70	-0.69	-2.69	2.79	345.72	0.25	91.00
4	395.00	1.24	344.72	394.97	4.34	-1.09	-4.33	4.47	345.97	0.36	89.00
5	485.00	1.50	345.25	484.94	6.42	-1.64	-6.40	6.63	345.66	0.29	90.00
6	574.00	2.04	355.79	573.90	9.13	-2.05	-9.10	9.35	347.31	0.71	89.00
7	664.00	2.56	330.71	663.83	12.48	-3.16	-12.43	12.87	345.81	1.24	90.00
8	754.00	3.23	338.60	753.71	16.59	-5.06	-16.52	17.35	343.03	0.86	90.00
9	844.00	4.55	357.37	843.51	22.52	-6.15	-22.43	23.34	344.72	2.02	90.00
10	932.00	7.56	355.92	931.01	31.78	-6.73	-31.69	32.48	348.05	3.42	88.00
11	1,022.00	10.56	354.86	1,019.87	45.90	-7.89	-45.79	46.58	350.25	3.34	90.00
12	1,112.00	13.52	353.67	1,107.88	64.58	-9.78	-64.44	65.31	351.38	3.30	90.00
13	1,201.00	15.64	352.52	1,194.01	86.81	-12.49	-86.64	87.71	351.81	2.40	89.00
14	1,290.00	17.75	353.36	1,279.26	112.19	-15.62	-111.97	113.27	352.07	2.39	89.00
15	1,379.00	17.41	353.27	1,364.10	138.89	-18.75	-138.63	140.15	352.31	0.38	89.00
16	1,469.00	18.34	350.45	1,449.76	166.22	-22.68	-165.91	167.76	352.23	1.41	90.00
17	1,558.00	20.99	350.76	1,533.56	195.77	-27.56	-195.39	197.70	351.99	2.98	89.00
PTB	1,636.00	20.99	350.76	1,606.38	223.35	-32.05	-222.90	225.63	351.83	0.00	78.00