



# Directional Survey Report

Company Name: Extraction Oil & Gas

Well Name: Interchange B S22-30-17N

Field: Wattenberg

Rig ID: Ensign #147

State/Prov: Colorado

County: Broomfield

Location: Interchange B

API/UWI: 05-014-20782

Survey Company: Atlas Drilling Services

Job Number: 000259EX-CO

Latitude: 39.978186

Longitude: -104.991032

Proposed Azimuth: 166.86

Declination: 8.05

North Reference: True

KB: 28'

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	DLS	Temp
Tiein	0	0	0	0	0	0	0	0	0
1	129	0.62	73.45	129.00	0.20	0.67	-0.04	0.48	-9999
2	221	0.88	100.81	220.99	0.21	1.84	0.22	0.47	-9999
3	312	1.10	92.31	311.98	0.04	3.40	0.73	0.29	-9999
4	402	2.61	64.72	401.93	0.88	6.12	0.53	1.90	-9999
5	492	5.13	54.06	491.72	4.12	11.23	-1.46	2.90	-9999
6	581	7.60	28.81	580.18	11.61	17.29	-7.38	4.13	-9999
7	670	9.54	28.85	668.18	23.23	23.68	-17.24	2.18	-9999
8	760	10.30	30.13	756.83	36.72	31.32	-28.64	0.88	-9999
9	850	11.53	29.11	845.20	51.54	39.74	-41.16	1.38	-9999
10	939	12.20	30.97	932.30	67.38	48.90	-54.50	0.87	-9999
11	1029	12.99	32.29	1,020.14	84.08	59.20	-68.42	0.93	-9999
12	1118	14.10	33.08	1,106.66	101.62	70.46	-82.94	1.26	-9999
13	1208	14.10	35.02	1,193.95	119.79	82.73	-97.84	0.53	-9999
14	1297	15.51	37.58	1,279.99	138.10	96.21	-112.61	1.75	-9999
15	1386	17.63	37.31	1,365.29	158.25	111.64	-128.72	2.38	-9999
16	1475	20.02	35.02	1,449.53	181.45	128.56	-147.47	2.81	-9999
17	1565	22.63	33.21	1,533.36	208.56	146.88	-169.70	2.99	-9999
18	1609	23.42	32.86	1,573.85	222.98	156.27	-181.62	1.82	-9999
PTB	1674	23.42	32.86	1,633.50	244.69	170.28	-199.57	0	0