



Directional Survey Report

Company Name: Extraction Oil & Gas

Well Name: Interchange B S22-30-19C

Field: Wattenberg

Rig ID: Ensign #147

State/Prov: Colorado

County: Broomfield

Location: Interchange B

API/UWI: 05-014-20778

Survey Company: Atlas Drilling Services

Job Number: 000261EX-CO

Latitude: 39.978209

Longitude: -104.990908

Proposed Azimuth: 164.74

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	-9999
1	129	1.02	118.84	128.99	-0.55	1.01	0.80	0.79	-9999
2	221	2.12	68.07	220.96	-0.31	3.30	1.17	1.82	-9999
3	312	3.76	57.49	311.84	1.92	7.38	0.09	1.89	-9999
4	402	4.37	63.18	401.61	5.05	12.93	-1.47	0.81	-9999
5	492	5.70	48.28	491.27	9.57	19.32	-4.15	2.06	-9999
6	581	7.69	44.54	579.66	16.76	26.80	-9.12	2.29	-9999
7	670	9.28	37.75	667.68	26.68	35.37	-16.43	2.11	-9999
8	760	10.47	39.65	756.35	38.71	45.03	-25.50	1.37	-9999
9	850	13.04	40.18	844.45	52.77	56.80	-35.96	2.86	-9999
10	939	16.35	39.78	930.53	70.07	71.30	-48.84	3.72	-9999
11	1029	18.07	41.89	1,016.50	90.20	88.73	-63.67	2.03	-9999
12	1118	19.31	42.73	1,100.80	111.29	107.93	-78.96	1.43	-9999
13	1208	19.62	44.41	1,185.66	133.01	128.60	-94.47	0.71	-9999
14	1297	21.65	44.14	1,268.94	155.47	150.49	-110.38	2.28	-9999
15	1386	22.45	41.94	1,351.43	179.89	173.29	-127.94	1.29	-9999
16	1475	24.66	38.68	1,433.02	207.03	196.25	-148.08	2.88	-9999
17	1565	27.31	38.06	1,513.91	237.95	220.72	-171.47	2.96	-9999
18	1617	27.80	38.41	1,560.01	256.84	235.60	-185.78	0.99	-9999
PTB	1676	27.80	38.41	1,612.20	278.41	252.70	-202.08	0	0