



# Directional Survey Report

Company Name: Extraction Oil & Gas

Well Name: Interchange B S22-30-16C

Field: Wattenberg

Rig ID: Ensign #147

State/Prov: Colorado

County: Broomfield

Location: Interchange B

API/UWI: 05-014-20783

Survey Company: Atlas Drilling Services

Job Number: 000258EX-CO

Latitude: 39.978175

Longitude: -104.991095

Proposed Azimuth: 167.92

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	1.06	183.48	128.99	-1.19	-0.07	1.15	0.82	69
2	221	1.46	194.76	220.97	-3.17	-0.42	3.02	0.51	0
3	312	0.71	152.59	311.95	-4.80	-0.46	4.59	1.15	0
4	402	1.19	57.98	401.95	-4.79	0.59	4.81	1.59	0
5	492	3.14	30.08	491.88	-2.17	2.62	2.67	2.40	0
6	581	3.89	33.43	580.71	2.46	5.50	-1.26	0.87	0
7	670	3.62	30.26	669.52	7.41	8.58	-5.45	0.38	0
8	760	4.60	23.12	759.29	13.18	11.43	-10.50	1.23	0
9	850	7.25	25.02	848.80	21.65	15.25	-17.98	2.95	0
10	939	10.08	26.82	936.78	33.69	21.14	-28.52	3.19	0
11	1029	12.06	30.35	1,025.10	48.84	29.45	-41.59	2.32	0
12	1118	13.26	33.08	1,111.93	65.41	39.72	-55.65	1.51	0
13	1208	14.23	34.49	1,199.35	83.18	51.61	-70.53	1.14	0
14	1297	14.94	34.67	1,285.49	101.63	64.33	-85.92	0.80	0
15	1386	15.82	34.98	1,371.30	121.01	77.82	-102.04	0.99	0
16	1475	18.07	34.01	1,456.43	142.39	92.49	-119.88	2.55	0
17	1565	21.48	33.43	1,541.11	167.72	109.38	-141.11	3.80	0
18	1606	22.40	33.61	1,579.14	180.49	117.84	-151.83	2.25	0
PTB	1665	22.40	33.61	1,633.69	199.22	130.29	-167.54	0	0