



# Interchange A S22-30-10C

## Directional Survey Report

Start date: 09/24/2019

End date: 09/24/2019

**Company Name:** Extraction Oil & Gas  
**Well Name:** Interchange A S22-30-10C  
**Field:** Wattenberg  
**Rig ID:** Ensign #147  
**API/UWI:** 05-014-20760

**State/Prov:** Colorado  
**County:** Broomfield  
**Country:** US  
**Location:** Interchange A  
**Latitude/Longitude:** 39.980435 / -104.993037

**Survey Company:** Atlas Drilling Services  
**Job Number:** 00274EX-CO  
**Proposed Azimuth:** 172.95  
**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	0.22	189.74	123.00	-0.23	-0.04	0.23	0.24	189.74	0.18	123.00
2	213.00	0.31	105.31	213.00	-0.47	0.17	0.48	0.50	160.48	0.40	90.00
3	307.00	0.22	40.31	307.00	-0.40	0.53	0.46	0.66	126.95	0.31	94.00
4	396.00	0.71	79.79	396.00	-0.17	1.18	0.31	1.19	98.14	0.63	89.00
5	486.00	0.71	81.20	485.99	0.02	2.28	0.26	2.28	89.61	0.02	90.00
6	575.00	0.44	45.55	574.98	0.34	3.07	0.04	3.09	83.70	0.49	89.00
7	665.00	0.18	253.90	664.98	0.54	3.18	-0.15	3.23	80.33	0.67	90.00
8	754.00	0.97	30.88	753.98	1.15	3.43	-0.72	3.62	71.49	1.25	89.00
9	844.00	3.40	28.14	843.91	4.16	5.08	-3.50	6.57	50.72	2.70	90.00
10	933.00	6.63	26.78	932.55	11.07	8.64	-9.93	14.05	37.97	3.63	89.00
11	1,023.00	9.99	30.44	1,021.60	22.45	14.94	-20.44	26.96	33.65	3.78	90.00
12	1,112.00	13.17	29.51	1,108.78	37.93	23.85	-34.71	44.80	32.16	3.58	89.00
13	1,202.00	15.42	30.83	1,195.98	57.13	35.03	-52.40	67.01	31.52	2.53	90.00
14	1,291.00	17.68	30.26	1,281.29	78.96	47.91	-72.49	92.36	31.25	2.55	89.00
15	1,380.00	20.77	27.66	1,365.32	104.62	62.05	-96.21	121.64	30.67	3.60	89.00
16	1,469.00	22.67	27.44	1,448.00	133.82	77.28	-123.33	154.53	30.01	2.14	89.00
17	1,559.00	24.44	28.85	1,530.49	165.53	94.26	-152.71	190.48	29.66	2.06	90.00
PTB	1,646.00	24.44	28.85	1,609.70	197.05	111.63	-181.86	226.47	29.53	0.00	87.00