



CLIENT: EXTRACTION OIL & GAS
WELL: UNITED A S16-20-9N
COUNTY: BROOMFIELD
RIG: ENSIGN 147

M.W.D. OPERATORS: J.FROST / T.BACA
DIRECTIONAL DRILLER: EXTRACTION (JASON)
TOOL AZM TO TRUE NORTH: 8.24
JOB #: RM-200327

VERTICAL SECTION : 189.84

Survey #	Survey Depth (FT.)	Inclination (Deg)	Azimuth (Deg)	T.V.D. (FT.)	Vertical Section (FT.)	N/-S (FT.)	E / -W (FT.)	Dog Leg (Deg.)
Tie In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
# 1	134	0.13	223.48	134.00	0.13	-0.11	-0.10	0.10
# 2	226	0.40	187.54	226.00	0.53	-0.50	-0.22	0.33
# 3	317	0.62	179.71	317.00	1.34	-1.31	-0.26	0.25
# 4	406	0.79	176.90	405.99	2.41	-2.41	-0.22	0.19
# 5	496	0.31	286.85	495.99	2.98	-2.95	-0.42	1.05
# 6	585	0.66	330.45	584.98	2.56	-2.44	-0.90	0.55
# 7	674	0.57	333.61	673.98	1.80	-1.60	-1.35	0.11
# 8	764	0.79	325.96	763.97	1.00	-0.68	-1.90	0.26
# 9	853	0.97	73.89	852.96	0.22	0.04	-1.52	1.60
# 10	942	1.23	79.43	941.95	-0.44	0.42	0.14	0.32
# 11	1,032	0.62	112.13	1,031.94	-0.67	0.41	1.54	0.87
# 12	1,121	0.92	273.14	1,120.93	-0.49	0.27	1.28	1.71
# 13	1,210	1.45	274.37	1,209.91	-0.30	0.40	-0.56	0.60
# 14	1,299	1.71	280.00	1,298.88	-0.19	0.71	-2.99	0.34
# 15	1,389	2.24	280.26	1,388.83	-0.21	1.26	-6.04	0.59
# 16	1,479	2.59	278.24	1,478.75	-0.16	1.86	-9.79	0.40
# 17	1,575	4.31	276.48	1,574.57	0.11	2.58	-15.52	1.79
PTB	1,635	4.31	276.48	1,634.40	0.37	3.09	-20.00	0.00



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