



CLIENT: EXTRACTION OIL & GAS
WELL: UNITED B S16-20-15N (014-20816)
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-200338

VERTICAL SECTION : 182.44

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	135	1.80	196.77	134.98	2.05	-2.03	-0.61	1.33
# 2	227	0.18	75.83	226.96	3.41	-3.38	-0.89	2.06
# 3	318	0.57	52.01	317.96	3.08	-3.06	-0.39	0.45
# 4	407	0.83	84.44	406.95	2.70	-2.73	0.60	0.52
# 5	496	1.05	87.87	495.94	2.55	-2.64	2.05	0.26
# 6	586	0.31	216.80	585.94	2.68	-2.80	2.73	1.41
# 7	675	0.57	286.24	674.94	2.78	-2.87	2.16	0.61
# 8	764	0.97	332.03	763.93	2.02	-2.08	1.38	0.79
# 9	854	1.32	304.43	853.91	0.81	-0.82	0.17	0.71
# 10	943	1.54	324.12	942.88	-0.67	0.73	-1.37	0.60
# 11	1,033	3.43	313.40	1,032.80	-3.38	3.56	-4.04	2.15
# 12	1,121	4.61	318.58	1,120.58	-7.66	8.02	-8.29	1.40
# 13	1,211	4.79	319.99	1,210.28	-13.04	13.61	-13.10	0.24
# 14	1,300	5.49	319.99	1,298.92	-18.92	19.71	-18.23	0.79
# 15	1,390	6.02	318.85	1,388.46	-25.52	26.57	-24.10	0.60
# 16	1,480	6.28	321.48	1,477.95	-32.65	33.97	-30.27	0.43
# 17	1,569	7.08	321.22	1,566.34	-40.45	42.06	-36.74	0.90
PTB	1,635	7.08	321.22	1,631.84	-46.57	48.40	-41.83	0.00



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