



CLIENT: EXTRACTION OIL & GAS
WELL: UNITED B S16-20-11N (014-20801)
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-200334

VERTICAL SECTION : 188.55

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	0.83	196.33	135.00	0.97	-0.94	-0.27	0.61
# 2	227	2.41	268.92	226.96	1.95	-1.61	-2.40	2.50
# 3	318	4.48	287.11	317.80	1.74	-0.60	-7.71	2.54
# 4	407	6.50	286.67	406.38	0.51	1.86	-15.86	2.27
# 5	496	9.36	293.18	494.52	-2.03	6.16	-27.34	3.36
# 6	586	10.15	294.50	583.22	-6.05	12.33	-41.28	0.91
# 7	675	11.64	292.30	670.62	-10.34	18.99	-56.73	1.74
# 8	764	12.56	290.98	757.64	-14.56	25.86	-74.07	1.08
# 9	854	13.75	294.06	845.28	-19.53	33.72	-92.97	1.53
# 10	943	14.92	296.52	931.50	-25.89	43.15	-112.88	1.48
# 11	1,033	15.02	293.44	1,018.45	-32.46	52.96	-133.95	0.89
# 12	1,121	14.58	286.94	1,103.54	-37.01	60.73	-155.01	1.95
# 13	1,211	14.01	285.44	1,190.75	-39.97	66.93	-176.35	0.76
# 14	1,300	12.70	287.29	1,277.34	-42.75	72.71	-196.07	1.55
# 15	1,390	13.18	287.11	1,365.06	-45.78	78.66	-215.33	0.54
# 16	1,480	12.52	287.90	1,452.80	-48.89	84.68	-234.42	0.76
# 17	1,565	13.09	285.27	1,535.69	-51.51	90.05	-252.47	0.96
PTB	1,625	13.09	285.27	1,594.13	-53.10	93.63	-265.58	0.00



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