



CLIENT: EXTRACTION OIL & GAS
 WELL: RINN VALLEY WEST 18N-20-14N(123-47482)
 COUNTY: WELD
 RIG: ENSIGN 147

M.W.D. OPERATORS: J.FROST / T.BACA
 DIRECTIONAL DRILLER: EXTRACTION (Chris)
 TOOL AZM TO TRUE NORTH: 8.26
 JOB #: RM-200359

Vertical Section : 344.03

KB: 27 FEET

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	139	1.62	120.40	138.98	-1.42	-0.99	1.69	1.17
# 2	231	1.66	127.17	230.94	-3.43	-2.46	3.88	0.21
# 3	322	1.01	203.99	321.92	-5.10	-3.99	4.60	1.91
# 4	411	2.63	276.23	410.89	-4.93	-4.48	2.25	2.82
# 5	501	4.52	293.64	500.71	-1.89	-2.84	-3.05	2.40
# 6	590	6.32	304.97	589.31	4.15	1.38	-10.28	2.34
# 7	679	8.30	308.67	677.58	13.20	8.20	-19.31	2.29
# 8	768	10.19	306.82	765.42	24.71	16.93	-30.63	2.15
# 9	858	12.34	306.20	853.68	38.64	27.39	-44.76	2.39
# 10	947	14.63	305.24	940.22	54.92	39.49	-61.62	2.59
# 11	1,037	16.83	301.99	1,026.85	73.46	52.95	-81.95	2.63
# 12	1,126	17.44	300.23	1,111.90	92.65	66.49	-104.40	0.90
# 13	1,215	19.98	301.19	1,196.19	113.43	81.08	-128.94	2.87
# 14	1,304	20.34	299.44	1,279.74	135.60	96.56	-155.42	0.79
# 15	1,394	21.31	298.47	1,363.86	158.19	112.05	-183.42	1.14
# 16	1,484	23.24	300.14	1,447.14	182.43	128.76	-213.15	2.26
# 17	1,566	24.43	301.28	1,522.14	206.55	145.69	-241.63	1.56
PTB	1,621	24.43	301.28	1,572.22	223.25	157.50	-261.08	0.00