

SCIENTIFIC DRILLING INTERNATIONAL

Client : PHILLIPS PETROLEUM COMPANY
 Well Name : PHILLIPS/JAMES E FEDERAL #15
 Location : EDDY COUNTY, NEW MEXICO
 SHL :
 BHL :
 ACTUAL BHL :

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 Date 10/11/93
 Filename : JAMSEF15

Height Of WELLSITE Datum Above Field Datum 0.00 ft No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
6331.0	11.70	N82.73°W	6310.34	-9.26	-204.05	204.05	2.0
6393.0	11.93	N76.19°W	6371.03	-6.94	-216.51	216.51	2.2
6454.0	12.19	N70.51°W	6430.68	-3.28	-228.70	228.70	2.0
6516.0	12.56	N68.71°W	6491.24	1.35	-241.16	241.16	0.9
6577.0	12.61	N69.03°W	6550.78	6.14	-253.55	253.55	0.1
6639.0	12.56	N69.71°W	6611.29	10.90	-266.20	266.20	0.3
6701.0	12.85	N70.04°W	6671.77	15.59	-279.00	279.00	0.5
6762.0	12.85	N70.22°W	6731.24	20.20	-291.76	291.76	0.1
6824.0	12.83	N70.45°W	6791.69	24.84	-304.73	304.73	0.1
6886.0	12.89	N70.70°W	6852.13	29.43	-317.75	317.75	0.1
6947.0	12.73	N70.68°W	6911.62	33.90	-330.51	330.51	0.3
7009.0	12.68	N73.22°W	6972.10	38.12	-343.47	343.47	0.9
7071.0	12.83	N71.60°W	7032.57	42.26	-356.52	356.52	0.6
7132.0	12.71	N71.71°W	7092.06	46.50	-369.32	369.32	0.2
7194.0	12.66	N72.47°W	7152.55	50.69	-382.27	382.27	0.3
7256.0	12.66	N72.19°W	7213.04	54.82	-395.22	395.22	0.1
7317.0	13.04	N72.97°W	7272.51	58.88	-408.16	408.16	0.7
7379.0	12.99	N72.22°W	7332.92	63.05	-421.49	421.49	0.3
7441.0	12.75	N72.58°W	7393.36	67.23	-434.65	434.65	0.4
7502.0	12.92	N72.67°W	7452.84	71.27	-447.58	447.58	0.3
7564.0	12.69	N72.96°W	7513.30	75.33	-460.71	460.71	0.4
7626.0	12.52	N73.22°W	7573.80	79.27	-473.65	473.65	0.3
7688.0	11.94	N74.13°W	7634.40	82.96	-486.26	486.26	1.0
7730.0	11.57	N74.57°W	7675.51	85.27	-494.50	494.50	0.9

Origin of Bottom Hole Closure WELLSITE CENTRE
 Bottom Hole Closure 502 ft 279.8°