

SCIENTIFIC DRILLING INTERNATIONAL

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

Page 1 of 3
Date 10/11/93
Filename : JAMSEF15

SHL :
BHL :
ACTUAL BHL :

No Interpolation

Height Of WELLSITE Datum Above Field Datum 0.00 ft

MD	INC	DIR	TVD	+N/-S	+E/-W	VS	D'LEG
ft	deg	deg	ft	ft	ft	ft	°/100
0.0	0.00	N 0.00°E	0.00	0.00	0.00	0.00	0.0
100.0	0.98	S29.80°E	100.00	-0.74	0.43	-0.43	1.0
200.0	0.99	N27.24°E	199.99	-0.72	1.25	-1.25	1.7
300.0	1.22	N 5.62°W	299.97	1.11	1.54	-1.54	0.7
400.0	1.20	N84.76°W	399.95	2.27	0.39	-0.39	1.5
500.0	0.76	S43.04°W	499.94	1.88	-1.11	1.11	0.9
600.0	1.12	N35.50°W	599.93	2.19	-2.13	2.13	1.5
700.0	0.53	S54.63°W	699.92	2.72	-3.07	3.07	1.2
800.0	1.01	S85.67°W	799.92	2.38	-4.33	4.33	0.6
900.0	1.05	S55.42°W	899.90	1.80	-5.96	5.96	0.5
1000.0	0.81	S72.91°W	999.89	1.07	-7.39	7.39	0.4
1100.0	1.02	S21.61°W	1099.88	0.03	-8.39	8.39	0.8
1200.0	1.19	N35.03°W	1199.87	0.06	-9.32	9.32	1.9
1300.0	1.18	N82.48°E	1299.86	1.04	-8.89	8.89	2.0
1400.0	1.09	S88.44°E	1399.84	1.15	-6.92	6.92	0.2
1500.0	0.45	N73.04°E	1499.83	1.24	-5.59	5.59	0.7
1600.0	1.47	N73.01°E	1599.81	1.73	-3.99	3.99	1.0
1700.0	0.87	S55.49°W	1699.80	1.67	-3.39	3.39	2.3
1800.0	1.37	S65.95°W	1799.78	0.75	-5.11	5.11	0.5
1900.0	1.01	S65.44°E	1899.77	-0.10	-5.40	5.40	2.2
2000.0	0.77	S20.61°E	1999.76	-1.09	-4.36	4.36	0.7
2100.0	0.76	S67.33°E	2099.75	-1.98	-3.51	3.51	0.6
2200.0	1.24	S18.59°E	2199.74	-3.26	-2.55	2.55	0.9
2300.0	1.25	S21.43°E	2299.72	-5.30	-1.81	1.81	0.1
2400.0	1.18	S68.65°W	2399.70	-6.69	-2.37	2.37	1.7
2500.0	0.97	S79.52°W	2499.69	-7.22	-4.16	4.16	0.3
2600.0	1.21	S32.99°W	2599.67	-8.26	-5.57	5.57	0.9
2700.0	0.70	S19.62°E	2699.66	-9.72	-5.94	5.94	1.0
2800.0	1.59	S44.40°E	2799.64	-11.29	-4.76	4.76	1.0
2900.0	1.47	S37.21°E	2899.60	-13.30	-3.02	3.02	0.2
3000.0	2.18	S32.38°E	2999.55	-15.93	-1.22	1.22	0.7
3100.0	1.44	S67.96°E	3099.50	-18.01	0.96	-0.96	1.3
3200.0	1.81	S22.33°E	3199.46	-19.94	2.72	-2.72	1.3
3300.0	2.28	S21.73°W	3299.41	-23.25	2.59	-2.59	1.6
3400.0	2.06	S19.17°W	3399.33	-26.79	1.26	-1.26	0.2
3500.0	2.14	S51.54°W	3499.27	-29.65	-0.79	0.79	1.2
3600.0	1.36	N75.79°W	3599.23	-30.52	-3.40	3.40	1.7
3685.0	1.71	S80.11°W	3684.20	-30.49	-5.63	5.63	0.9
3742.0	1.11	S66.98°E	3741.19	-30.85	-5.96	5.96	4.8
3803.0	0.95	S70.97°E	3802.18	-31.25	-4.94	4.94	0.3