

SCIENTIFIC DRILLING INTERNATIONAL

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

Page 2 of 3
Date 10/11/93
Filename : JAMSEF15

SHL :
BHL :
ACTUAL BHL :
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
3865.0	1.17	S60.71°E	3864.17	-31.73	-3.90	3.90	0.5
3927.0	0.82	S56.20°E	3926.16	-32.28	-2.98	2.98	0.6
3988.0	1.10	S62.87°E	3987.15	-32.79	-2.10	2.10	0.5
4050.0	0.82	S54.71°E	4049.15	-33.32	-1.20	1.20	0.5
4111.0	0.95	S60.12°E	4110.14	-33.82	-0.41	0.41	0.3
4173.0	0.91	S40.19°E	4172.13	-34.46	0.35	-0.35	0.5
4235.0	0.73	S59.33°E	4234.12	-35.03	1.01	-1.01	0.5
4296.0	0.88	S45.02°E	4295.12	-35.56	1.68	-1.68	0.4
4358.0	0.67	S42.47°E	4357.11	-36.17	2.26	-2.26	0.3
4420.0	0.64	S51.42°E	4419.11	-36.65	2.77	-2.77	0.2
4481.0	0.68	S30.09°E	4480.10	-37.18	3.22	-3.22	0.4
4543.0	0.71	S38.81°E	4542.10	-37.79	3.65	-3.65	0.2
4605.0	0.80	S18.51°E	4604.09	-38.50	4.02	-4.02	0.5
4666.0	0.76	S37.31°E	4665.09	-39.23	4.41	-4.41	0.4
4728.0	0.75	S19.54°E	4727.08	-39.94	4.79	-4.79	0.4
4790.0	0.76	S26.07°E	4789.08	-40.69	5.11	-5.11	0.1
4851.0	0.99	S16.99°E	4850.07	-41.56	5.44	-5.44	0.4
4913.0	0.69	S23.06°E	4912.06	-42.41	5.74	-5.74	0.5
4975.0	0.56	S48.22°W	4974.06	-42.96	5.66	-5.66	1.2
5036.0	1.61	N64.33°W	5035.05	-42.79	4.67	-4.67	2.4
5098.0	2.98	N63.13°W	5097.00	-41.68	2.44	-2.44	2.2
5160.0	3.94	N66.59°W	5158.89	-40.11	-0.95	0.95	1.6
5221.0	5.37	N65.26°W	5219.68	-38.08	-5.46	5.46	2.4
5283.0	6.54	N63.58°W	5281.35	-35.29	-11.26	11.26	1.9
5344.0	7.21	N66.15°W	5341.91	-32.20	-17.87	17.87	1.2
5406.0	7.94	N68.45°W	5403.37	-29.05	-25.42	25.42	1.3
5468.0	8.75	N71.62°W	5464.71	-25.99	-33.87	33.87	1.5
5529.0	9.41	N74.82°W	5524.95	-23.23	-43.09	43.09	1.4
5591.0	10.00	N77.46°W	5586.06	-20.73	-53.24	53.24	1.2
5653.0	10.41	N79.43°W	5647.08	-18.53	-64.00	64.00	0.9
5714.0	11.06	N81.91°W	5707.01	-16.70	-75.21	75.21	1.3
5776.0	11.60	N84.35°W	5767.80	-15.25	-87.30	87.30	1.2
5838.0	11.96	N85.22°W	5828.50	-14.10	-99.90	99.90	0.6
5899.0	12.17	N86.08°W	5888.15	-13.13	-112.62	112.62	0.5
5961.0	12.30	N87.15°W	5948.74	-12.36	-125.73	125.73	0.4
6023.0	12.53	N87.53°W	6009.29	-11.74	-139.05	139.05	0.4
6084.0	12.49	N87.96°W	6068.84	-11.22	-152.25	152.25	0.2
6146.0	12.24	N88.43°W	6129.41	-10.80	-165.52	165.52	0.4
6208.0	12.07	N89.09°W	6190.02	-10.52	-178.57	178.57	0.4
6269.0	12.08	N88.41°W	6249.67	-10.24	-191.33	191.33	0.2