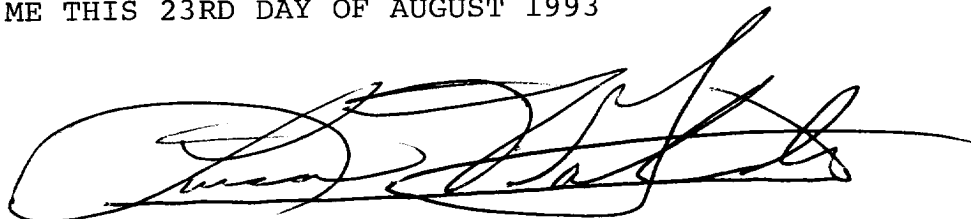


A.C.D.



DIG INC.
MIDLAND, TEXAS

JOB NUMBER: G-2692

WELL NAME: INDIAN HILL STATE COM #8

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	INCL	BEARING	COORDINATES		D-LEG /100	D-LEG /CL	STATION DISPLACEMENT	
					LATITUDE	DEPARTURE			DISP.	DIRECTION
100.0	99.99	-0.85	01.00	N03.00W	0.87 N	0.05 W	1.00	1.00	0.87	AT N03.00W
200.0	199.98	-2.48	01.00	N13.00E	2.59 N	0.10 E	0.28	0.28	2.60	AT N02.32E
300.0	299.96	-4.09	01.25	N25.00E	4.43 N	0.76 E	0.34	0.34	4.50	AT N09.76E
400.0	399.94	-5.66	01.25	N33.00E	6.34 N	1.82 E	0.17	0.17	6.59	AT N16.01E
500.0	499.91	-6.86	01.25	N50.00E	7.95 N	3.25 E	0.37	0.37	8.59	AT N22.21E
600.0	599.89	-7.96	01.00	N29.00E	9.42 N	4.51 E	0.48	0.48	10.44	AT N25.57E
700.0	699.88	-9.25	01.00	N26.00E	10.96 N	5.31 E	0.05	0.05	12.18	AT N25.85E
800.0	799.86	-10.64	01.00	N19.00E	12.57 N	5.98 E	0.12	0.12	13.92	AT N25.43E
900.0	899.85	-12.09	01.00	N19.00E	14.22 N	6.55 E	0.00	0.00	15.66	AT N24.71E
1000.0	999.83	-13.54	01.00	N19.00E	15.87 N	7.11 E	0.00	0.00	17.39	AT N24.14E
1100.0	1099.82	-14.94	01.00	N25.00E	17.49 N	7.77 E	0.10	0.10	19.14	AT N23.95E
1200.0	1199.80	-16.33	01.00	N19.00E	19.10 N	8.42 E	0.10	0.10	20.88	AT N23.78E
1300.0	1299.79	-17.84	01.00	N12.00E	20.78 N	8.89 E	0.12	0.12	22.60	AT N23.15E
1400.0	1399.77	-19.38	01.00	N15.00E	22.48 N	9.29 E	0.05	0.05	24.32	AT N22.46E
1500.0	1499.76	-20.87	01.00	N18.00E	24.15 N	9.79 E	0.05	0.05	26.06	AT N22.06E
1600.0	1599.74	-22.52	01.25	N18.00E	26.02 N	10.39 E	0.25	0.25	28.02	AT N21.78E
1700.0	1699.72	-24.17	01.00	N18.00E	27.89 N	11.00 E	0.25	0.25	29.98	AT N21.53E
1800.0	1799.70	-25.60	01.00	N22.00E	29.53 N	11.60 E	0.07	0.07	31.72	AT N21.45E
1900.0	1899.69	-27.01	01.00	N21.00E	31.15 N	12.24 E	0.02	0.02	33.47	AT N21.45E
2000.0	1999.67	-28.42	01.00	N22.00E	32.77 N	12.88 E	0.02	0.02	35.21	AT N21.45E
2100.0	2099.66	-29.82	01.00	N22.00E	34.39 N	13.53 E	0.00	0.00	36.96	AT N21.48E
2200.0	2199.64	-31.18	01.00	N26.00E	35.99 N	14.24 E	0.07	0.07	38.70	AT N21.59E
2300.0	2299.63	-32.46	01.00	N30.00E	37.53 N	15.06 E	0.07	0.07	40.43	AT N21.87E
2400.0	2399.61	-33.70	01.00	N30.00E	39.04 N	15.93 E	0.00	0.00	42.16	AT N22.20E
2500.0	2499.60	-34.78	00.75	N30.00E	40.36 N	16.70 E	0.25	0.25	43.68	AT N22.47E
2600.0	2599.59	-35.71	00.75	N30.00E	41.49 N	17.35 E	0.00	0.00	44.97	AT N22.69E
2700.0	2699.58	-36.73	00.75	N17.00E	42.69 N	17.87 E	0.17	0.17	46.27	AT N22.71E
2800.0	2799.58	-37.93	00.75	N01.00W	43.97 N	18.05 E	0.23	0.23	47.53	AT N22.32E
2900.0	2899.57	-38.94	00.50	N16.00E	45.04 N	18.16 E	0.31	0.31	48.56	AT N21.96E
3000.0	2999.57	-39.66	00.50	N22.00E	45.86 N	18.44 E	0.05	0.05	49.43	AT N21.90E
3100.0	3099.56	-40.32	00.50	N30.00E	46.65 N	18.82 E	0.07	0.07	50.30	AT N21.98E
3200.0	3199.56	-40.84	00.50	N47.00E	47.32 N	19.36 E	0.15	0.15	51.13	AT N22.25E
3300.0	3299.55	-41.44	00.50	N11.00E	48.05 N	19.76 E	0.31	0.31	51.95	AT N22.36E
3400.0	3399.55	-42.02	00.25	N17.00E	48.68 N	19.91 E	0.25	0.25	52.60	AT N22.24E
3500.0	3499.55	-42.51	00.50	N30.00E	49.27 N	20.19 E	0.26	0.26	53.25	AT N22.28E
3600.0	3599.55	-43.19	00.50	N18.00E	50.06 N	20.54 E	0.10	0.10	54.11	AT N22.31E

DIG INC.
MIDLAND, TEXAS

JOB NUMBER: G-2692

WELL NAME: INDIAN HILL STATE COM #8

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	INCL	BEARING	COORDINATES		D-LEG /100	D-LEG /CL	STATION DISPLACEMENT	
					LATITUDE	DEPARTURE			DISP.	DIRECTION
3700.0	3699.54	-43.97	00.50	N03.00E	50.91 N	20.70 E	0.13	0.13	54.96	AT N22.13E
3800.0	3799.54	-44.75	00.50	N20.00E	51.76 N	20.87 E	0.15	0.15	55.81	AT N21.96E
3900.0	3899.53	-45.81	01.00	N21.00E	52.98 N	21.34 E	0.50	0.50	57.12	AT N21.93E
4000.0	3999.52	-47.29	01.00	N13.00E	54.65 N	21.85 E	0.14	0.14	58.85	AT N21.79E
4100.0	4099.50	-48.88	01.00	N06.00E	56.37 N	22.13 E	0.12	0.12	60.56	AT N21.44E
4200.0	4199.49	-50.55	01.00	N02.00W	58.11 N	22.19 E	0.14	0.14	62.20	AT N20.90E
4300.0	4299.47	-52.47	01.25	N26.00W	59.96 N	21.68 E	0.53	0.53	63.76	AT N19.88E
4400.0	4399.44	-54.70	01.50	N42.00W	61.91 N	20.33 E	0.46	0.46	65.17	AT N18.18E
4500.0	4499.40	-57.08	01.75	N52.00W	63.83 N	18.25 E	0.38	0.38	66.38	AT N15.96E
4600.0	4599.34	-59.50	02.00	N61.00W	65.61 N	15.52 E	0.39	0.39	67.42	AT N13.31E
4700.0	4699.28	-61.83	02.00	N65.00W	67.20 N	12.41 E	0.14	0.14	68.33	AT N10.47E
4800.0	4799.20	-64.77	02.75	N55.00W	69.31 N	8.87 E	0.85	0.85	69.87	AT N07.29E
4900.0	4899.07	-68.57	03.00	N56.00W	72.15 N	4.73 E	0.25	0.25	72.30	AT N03.75E
5000.0	4998.92	-72.85	03.25	N50.00W	75.43 N	0.39 E	0.41	0.41	75.43	AT N00.30E
5100.0	5098.78	-76.91	03.00	N63.00W	78.44 N	4.11 W	0.75	0.75	78.55	AT N03.00W
5200.0	5198.64	-80.49	03.00	N60.00W	80.94 N	8.71 W	0.16	0.16	81.41	AT N06.14W
5300.0	5298.51	-84.14	02.75	N56.00W	83.59 N	12.96 W	0.32	0.32	84.59	AT N08.82W
5400.0	5398.40	-87.85	02.75	N52.00W	86.41 N	16.84 W	0.19	0.19	88.03	AT N11.03W
5500.0	5498.28	-91.89	02.75	N42.00W	89.67 N	20.34 W	0.48	0.48	91.95	AT N12.78W
5600.0	5598.19	-95.74	02.25	N44.00W	92.86 N	23.31 W	0.51	0.51	95.74	AT N14.09W
5700.0	5698.12	-99.00	02.00	N42.00W	95.57 N	25.84 W	0.26	0.26	99.00	AT N15.13W
5745.0	5743.10	-100.15	01.50	N54.00W	96.50 N	26.84 W	1.37	0.62	100.16	AT N15.54W

 * THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
 * 5745.0 FEET EQUALS 100.16 FEET AT N15.54W *
 * *****

ME THIS 23RD DAY OF AUGUST 1993



DIG INC.
MIDLAND, TEXAS

JOB NUMBER: M-2703

WELL NAME: INDIAN HILLS #8

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	INCL	BEARING	COORDINATES		D-LEG /100	D-LEG /CL	STATION DISPLACEMENT	
					LATITUDE	DEPARTURE			DISP.	DIRECTION
5745.0	5743.10	-100.15	01.50	N54.00W	96.50 N	26.84 W	0.00		100.16	AT N15.54W
5821.0	5819.07	-101.87	01.75	N50.00W	97.83 N	28.53 W	0.36	0.27	101.91	AT N16.26W
5915.0	5912.98	-102.34	03.75	S62.00W	97.31 N	32.35 W	3.72	3.49	102.55	AT N18.39W
6009.0	6006.73	-101.42	04.50	S72.00W	94.73 N	38.57 W	1.10	1.04	102.28	AT N22.15W
6103.0	6100.34	-99.19	06.00	S51.00W	90.50 N	45.90 W	2.57	2.41	101.47	AT N26.89W
6197.0	6193.74	-93.71	07.00	S38.00W	82.89 N	53.24 W	1.89	1.77	98.52	AT N32.71W
6291.0	6286.75	-83.47	09.75	S17.00W	70.76 N	59.10 W	4.33	4.07	92.19	AT N39.87W
6385.0	6379.16	-66.86	12.25	S25.00E	54.08 N	57.21 W	8.71	8.18	78.72	AT N46.61W
6479.0	6470.67	-47.19	14.50	S48.00E	37.15 N	44.24 W	6.09	5.73	57.77	AT N49.97W
6573.0	6561.63	-27.58	14.75	S50.00E	21.59 N	26.32 W	0.60	0.56	34.04	AT N50.64W
6667.0	6652.88	-9.28	13.00	S51.00E	7.24 N	8.94 W	1.88	1.77	11.50	AT N50.99W
6761.0	6744.78	6.83	11.25	S49.00E	5.43 S	6.20 E	1.91	1.80	8.24	AT S48.79E
6855.0	6837.01	23.30	11.25	S29.00E	19.47 S	17.57 E	4.13	3.88	26.22	AT S42.06E
6949.0	6928.95	42.71	13.00	S09.00E	37.94 S	23.67 E	4.81	4.52	44.72	AT S31.96E
7043.0	7020.35	64.50	14.00	S07.00E	59.67 S	26.71 E	1.17	1.10	65.37	AT S24.12E
7137.0	7111.94	85.49	12.00	S09.00E	80.61 S	29.63 E	2.18	2.05	85.88	AT S20.18E
7231.0	7204.13	103.72	10.50	S08.00E	98.74 S	32.35 E	1.61	1.51	103.91	AT S18.14E
7325.0	7296.73	119.68	09.25	S05.00E	114.75 S	34.20 E	1.44	1.35	119.74	AT S16.59E
7419.0	7389.64	133.75	08.25	S04.00E	129.01 S	35.33 E	1.08	1.01	133.75	AT S15.31E
7513.0	7482.86	145.44	06.50	S03.00W	141.05 S	35.52 E	2.09	1.96	145.45	AT S14.13E
7607.0	7576.30	155.11	06.00	S06.00W	151.25 S	34.73 E	0.64	0.60	155.18	AT S12.93E
7701.0	7669.83	163.91	05.50	S06.00W	160.61 S	33.74 E	0.53	0.50	164.12	AT S11.86E
7795.0	7763.39	172.25	05.50	S09.00W	169.54 S	32.57 E	0.31	0.29	172.64	AT S10.87E
7889.0	7856.96	180.40	05.50	S12.00W	178.40 S	30.92 E	0.31	0.29	181.06	AT S09.83E
7983.0	7950.59	187.86	04.75	S13.00W	186.60 S	29.11 E	0.80	0.76	188.85	AT S08.87E

 * THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
 * 7983.0 FEET EQUALS 188.85 FEET AT S08.87E *
 * *****
