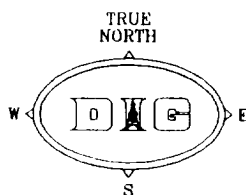
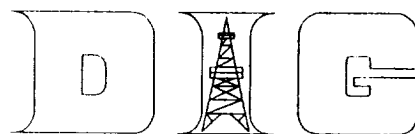
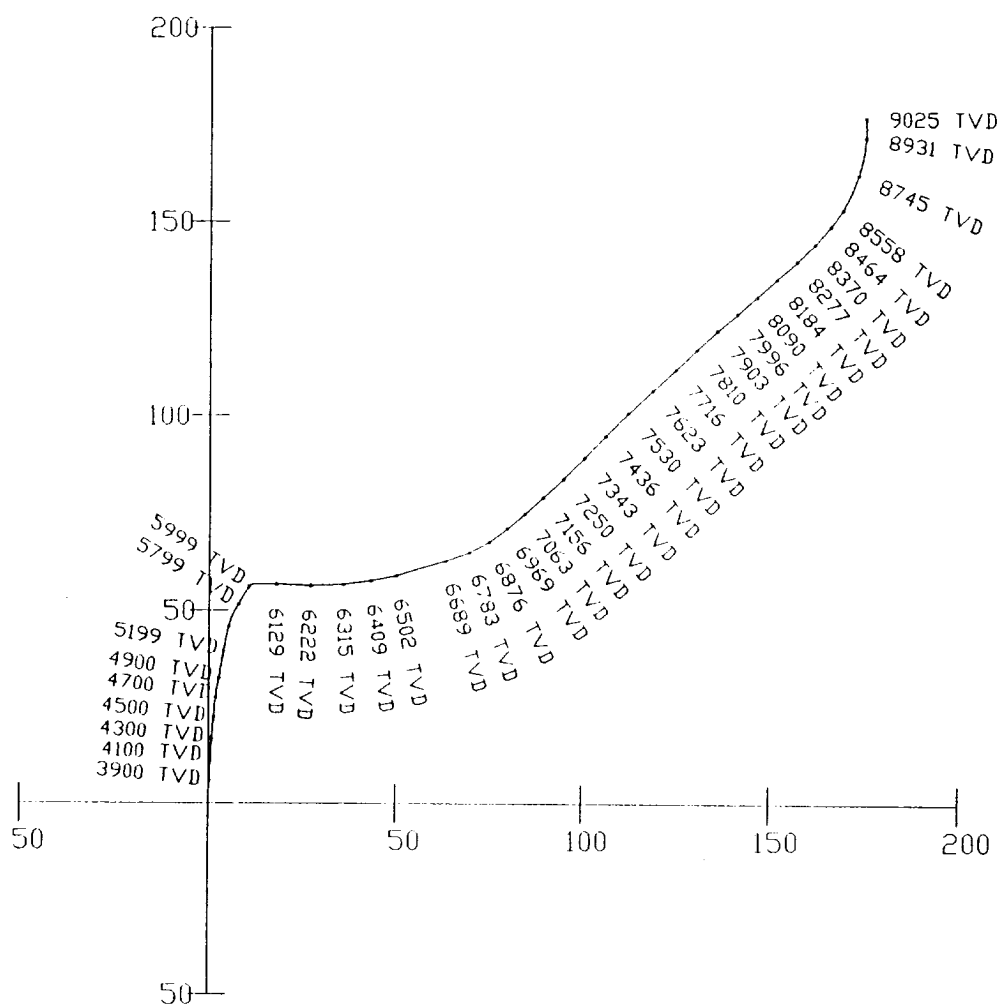


HARVEY E. YATES COMPANY
 YOUNG DEEP UNIT #7
 LEA COUNTY, NEW MEXICO



11-18-94

HORIZONTAL PLAN
 SCALE: 50 FEET/DIVISION



D.I.G., INC.

HARVEY E. YATES COMPANY
YOUNG DEEP UNIT #7
LEA COUNTY, NEW MEXICO

Calculated by Minimum Curvature Method

- RECORD OF SURVEY -

MEASURED	INCL	D R I F T	COURSE	TRUE	T O T A L		C L O S U R E		DOGLEG
DEPTH	ANGLE	DIRECTION	LENGTH	VERTICAL	RECTANGULAR COORDINATES		DISTANCE	DIRECTION	SEVERITY
(FT)	(DEG)	(DEG)	(FT)	DEPTH	(FT)		(FT)	(DEG)	(DG/100')
SDI GYRO 3610' - 6000'									
3610.00	0.00	0.00	0.00	3610.00	0.00 N	0.00 E	0.00	0.00	0.00
3700.00	1.33	359.18	90.00	3699.99	1.04 N	0.01 W	1.04	359.18	1.48
3800.00	1.38	5.25	100.00	3799.96	3.40 N	0.08 E	3.40	1.32	0.15
3900.00	1.49	5.08	100.00	3899.93	5.90 N	0.30 E	5.91	2.95	0.11
4000.00	1.52	359.44	100.00	3999.90	8.52 N	0.41 E	8.53	2.73	0.15
4100.00	1.56	1.93	100.00	4099.86	11.21 N	0.44 E	11.21	2.24	0.08
4200.00	1.56	4.76	100.00	4199.82	13.92 N	0.60 E	13.94	2.46	0.08
4300.00	1.57	3.25	100.00	4299.79	16.65 N	0.79 E	16.67	2.71	0.04
4400.00	1.53	6.08	100.00	4399.75	19.34 N	1.01 E	19.37	2.98	0.09
4500.00	1.58	4.95	100.00	4499.71	22.04 N	1.27 E	22.08	3.29	0.06
4600.00	1.57	6.22	100.00	4599.68	24.78 N	1.54 E	24.83	3.55	0.04
4700.00	1.49	8.54	100.00	4699.64	27.43 N	1.88 E	27.49	3.91	0.10
4800.00	1.45	7.17	100.00	4799.61	29.97 N	2.23 E	30.05	4.25	0.05
4900.00	1.46	10.00	100.00	4899.58	32.48 N	2.61 E	32.58	4.59	0.07
5000.00	1.42	11.24	100.00	4999.54	34.95 N	3.07 E	35.08	5.02	0.05
5100.00	1.36	7.63	100.00	5099.51	37.34 N	3.47 E	37.50	5.31	0.11
5200.00	1.27	11.32	100.00	5199.49	39.60 N	3.84 E	39.79	5.54	0.12
5300.00	1.30	10.79	100.00	5299.46	41.80 N	4.27 E	42.02	5.84	0.03
5400.00	1.16	13.70	100.00	5399.44	43.90 N	4.73 E	44.15	6.14	0.15
5500.00	1.20	12.66	100.00	5499.42	45.91 N	5.19 E	46.20	6.46	0.05
5600.00	1.13	23.28	100.00	5599.40	47.83 N	5.81 E	48.18	6.93	0.23
5700.00	1.22	27.46	100.00	5699.38	49.68 N	6.69 E	50.13	7.67	0.12
5800.00	1.37	32.00	100.00	5799.35	51.64 N	7.82 E	52.23	8.61	0.18
5900.00	1.47	31.02	100.00	5899.32	53.75 N	9.11 E	54.52	9.62	0.10
BAKER HUGHES MULTISHOT 6000' - 9034'									
6000.00	1.67	33.80	100.00	5999.28	56.06 N	10.59 E	57.06	10.69	0.21
6005.00	1.58	42.89	5.00	6004.28	56.18 N	10.67 E	57.18	10.76	5.45
6036.00	2.17	78.76	31.00	6035.27	56.60 N	11.54 E	57.77	11.52	4.14
6130.00	5.64	93.78	94.00	6129.03	56.65 N	17.90 E	59.41	17.53	3.82
6223.00	5.74	90.59	93.00	6221.58	56.30 N	27.11 E	62.48	25.71	0.36
6317.00	4.95	84.41	94.00	6315.17	56.64 N	35.84 E	67.03	32.33	1.04

Survey Ref: Well Head Closure Ref: Well Head
Mon Nov 14 1994 23:45:33

File: HEYCOYD7.DAT

Page

RECEIVED

DEC 12 1994

CLUB HOBBS
OFFICE

D.I.G., INC.

HARVEY E. YATES COMPANY
YOUNG DEEP UNIT #7
LEA COUNTY, NEW MEXICO

Calculated by Minimum Curvature Method

- RECORD OF SURVEY -

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TRUE VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		C L O S U R E DISTANCE (FT)		DOGLEG DIRECTION (DEG)	SEVERITY (DG/100')
6411.00	4.27	80.23	94.00	6408.86	57.63 N	43.33 E	72.10	36.94	0.81	
6504.00	4.16	76.92	93.00	6501.61	58.98 N	50.03 E	77.34	40.30	0.29	
6692.00	4.29	71.27	188.00	6689.10	62.78 N	63.33 E	89.17	45.25	0.23	
6786.00	4.01	69.68	94.00	6782.86	65.05 N	69.74 E	95.37	46.99	0.32	
6879.00	3.50	53.87	93.00	6875.66	67.86 N	75.08 E	101.20	47.89	1.24	
6973.00	3.66	52.95	94.00	6969.47	71.36 N	79.79 E	107.05	48.19	0.18	
7067.00	3.84	49.27	94.00	7063.27	75.22 N	84.57 E	113.18	48.35	0.32	
7160.00	4.11	48.62	93.00	7156.05	79.45 N	89.43 E	119.63	48.38	0.29	
7254.00	4.73	47.68	94.00	7249.77	84.29 N	94.83 E	126.87	48.37	0.66	
7348.00	4.70	45.77	94.00	7343.45	89.59 N	100.45 E	134.60	48.27	0.17	
7441.00	5.06	45.45	93.00	7436.11	95.12 N	106.10 E	142.50	48.12	0.39	
7535.00	5.34	47.41	94.00	7529.73	100.99 N	112.28 E	151.01	48.03	0.35	
7629.00	5.39	48.46	94.00	7623.32	106.88 N	118.80 E	159.80	48.03	0.12	
7722.00	4.65	47.25	93.00	7715.96	112.33 N	124.84 E	167.94	48.02	0.80	
7816.00	4.69	47.78	94.00	7809.65	117.50 N	130.49 E	175.59	48.00	0.06	
7910.00	4.29	48.58	94.00	7903.36	122.41 N	135.97 E	182.95	48.00	0.43	
8003.00	4.09	49.69	93.00	7996.11	126.86 N	141.11 E	189.75	48.04	0.23	
8097.00	4.28	50.43	94.00	8089.86	131.26 N	146.37 E	196.60	48.11	0.21	
8191.00	4.32	48.40	94.00	8183.59	135.84 N	151.72 E	203.65	48.16	0.17	
8285.00	4.14	49.68	94.00	8277.34	140.39 N	156.95 E	210.58	48.19	0.22	
8378.00	3.78	44.88	93.00	8370.12	144.73 N	161.67 E	216.99	48.16	0.53	
8472.00	3.55	41.71	94.00	8463.92	149.10 N	165.80 E	222.98	48.03	0.33	
8566.00	3.13	30.93	94.00	8557.76	153.48 N	169.05 E	228.33	47.76	0.80	
8659.00	2.98	24.49	93.00	8650.63	157.85 N	171.36 E	232.99	47.35	0.40	
8753.00	3.02	19.63	94.00	8744.50	162.41 N	173.20 E	237.44	46.84	0.27	
8847.00	3.03	10.07	94.00	8838.37	167.19 N	174.47 E	241.64	46.22	0.54	
8940.00	3.01	4.34	93.00	8931.24	172.04 N	175.09 E	245.47	45.50	0.33	
9034.00	3.25	355.97	94.00	9025.10	177.16 N	175.08 E	249.08	44.66	0.55	