

D.I.G., INC.

RACHAEL EXPLORATION
RACHAEL FEDERAL #1
CHAVES COUNTY, N.M.

Calculated by Minimum Curvature Method
Vert Sect Plane: N 48.47 W

RECEIVED
MAY 20 8 54 AM '94
BUREAU OF LAND MGT
ROSWELL RESOURCE
AREA

- 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)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DG/100')
7500.00	0.51	N 71.72 W	0.00	7499.58	46.63 N	3.29 W	33.38	46.75 N	4.04 W	0.00
7655.00	4.00	N 41.00 W	155.00	7654.44	90.93 N	7.49 W	39.38	51.48 N	8.37 W	2.30
7749.00	5.00	N 41.00 W	94.00	7748.15	56.49 N	12.33 W	46.69	57.82 N	12.31 W	1.06
7843.00	6.00	N 50.00 W	94.00	7841.72	62.74 N	18.78 W	55.66	65.49 N	16.67 W	1.40
7938.00	6.75	N 54.00 W	95.00	7936.13	69.22 N	27.10 W	66.18	74.33 N	21.38 W	0.92
8032.00	7.75	N 56.00 W	94.00	8029.37	76.01 N	36.83 W	77.96	84.46 N	25.85 W	1.10
8123.00	8.00	N 56.00 W	91.00	8119.52	82.98 N	47.16 W	90.32	95.45 N	29.61 W	0.27
8218.00	8.25	N 55.00 W	95.00	8213.56	90.59 N	58.23 W	103.65	107.69 N	32.73 W	0.30
8311.00	8.50	N 55.00 W	93.00	8305.57	98.36 N	69.32 W	117.11	120.33 N	35.18 W	0.27
8400.00	11.50	N 52.00 W	89.00	8393.21	107.59 N	81.71 W	132.50	135.10 N	37.21 W	3.42
8485.00	14.60	N 50.00 W	85.00	8476.00	119.70 N	96.59 W	151.67	153.81 N	38.90 W	3.69
8543.00	16.00	N 50.00 W	58.00	8531.95	129.54 N	108.32 W	166.97	168.85 N	39.90 W	2.41
8642.00	16.50	N 48.00 W	99.00	8626.99	147.71 N	129.22 W	194.67	196.26 N	41.18 W	0.76
8735.00	16.50	N 49.00 W	93.00	8716.16	165.21 N	149.00 W	221.08	222.48 N	42.05 W	0.31
8800.00	16.00	N 50.00 W	65.00	8778.57	177.03 N	162.83 W	239.27	240.52 N	42.61 W	0.88
8862.00	16.00	N 50.00 W	62.00	8838.16	188.01 N	175.92 W	256.35	257.48 N	43.10 W	0.00
8953.00	17.50	N 51.00 W	91.00	8925.30	204.69 N	196.16 W	282.56	283.51 N	43.78 W	1.68
9055.00	20.50	N 53.00 W	102.00	9021.73	225.09 N	222.35 W	315.69	316.39 N	44.65 W	3.01
9108.00	20.80	N 52.00 W	53.00	9071.33	236.47 N	237.18 W	334.33	334.92 N	45.09 W	0.87
9196.00	21.50	N 54.00 W	88.00	9153.40	255.57 N	262.53 W	365.98	366.39 N	45.77 W	1.14
9291.00	21.00	N 53.00 W	95.00	9241.94	276.05 N	290.21 W	400.28	400.53 N	46.43 W	0.65
9383.00	19.00	N 50.00 W	92.00	9328.39	295.60 N	314.86 W	431.69	431.87 N	46.81 W	2.44
9541.00	16.00	N 45.00 W	158.00	9479.07	327.54 N	349.97 W	479.15	479.33 N	46.90 W	2.12

Survey Ref: Well Head Closure Ref: Well Head Vert Sect Ref: Well Head

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