

DIRECTIONAL LOG
COMPUTED

COUNTY	WHIRLWIND VALLEY	
FIELD or LOCATION	CHEVRON-ATR-GINN #1-13	
WELL	CHEVRON OIL CO.	
COMPANY	CHEVRON OIL COMPANY	
Sec. 13	Twp. 31N	Rge. 47E
Permanent Datum	GL	Elev. 4946.9
Log Measured From	KB	13.5 Ft. Above Perm. Datum
Drilling Measured From	KB	Elev. K.B. 4960.4
		D.F. G.I. 4946.9
Date	5-22-74	
Run No.	ONE	
Depth-Driller	8500	
Depth-Logger	8493	
Bit Log Interval	8492	
Top Log Interval	840	
Depth intervals between shots	100'	
Casing-Driller	13-3/8 2812	
Casing-Logger	@	
Bit Size	12-1/4	
Type Fluid in Hole	F.G.M.	
Dens.	66	90
Visc.		
pH	9.5	ml
Fluid Loss		
Source of Sample	PIT	
Rmf @ Meas. Temp.	1.55 @ 82° F	
Rm @ BHT	.53 @ 262° F	
Time Since Circ.	14 HRS.	
Max. Rec. Temp.	262° F	
Equip. Location	7683 VERNAL	
Recorded By	HAUGAARD-ENYEART	
Witnessed By	LANE-D'OLIER	

TIGHT HOLE

The well name, location and borehole reference data were furnished by the customer.

MAGNETIC DECLINATION= 17 EAST

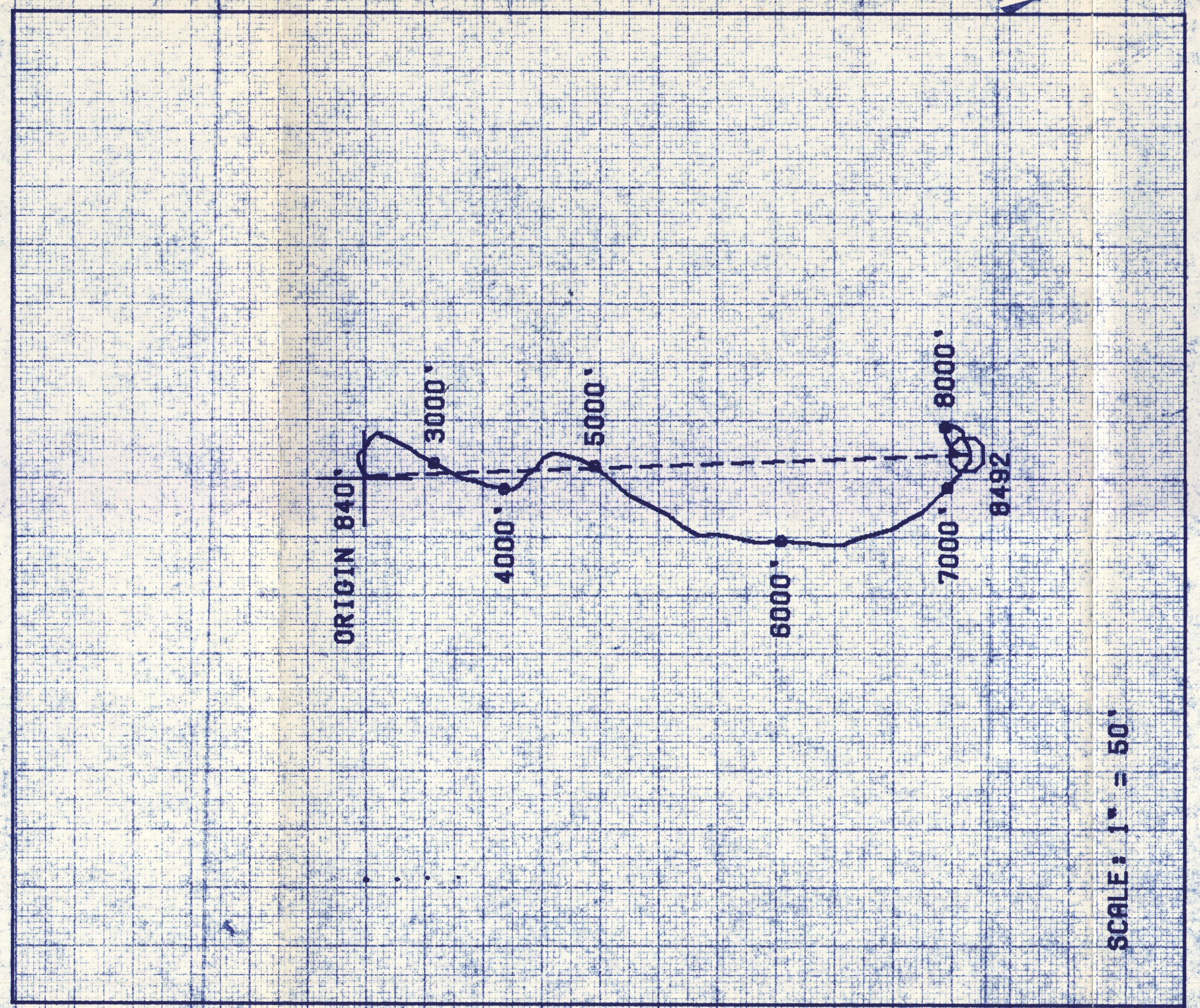
N-S COORDINATES - NORTH IS PLUS AND SOUTH IS MINUS
E-W COORDINATES - EAST IS PLUS AND WEST IS MINUS

DEPTH	HOLE DEV.	AZM	HORIZ. DRIFT	VERT. DEPTH	N-S DEV	E-W DEV	SUM N-S	SUM E-W
840				840				
900	1.8	92	1.9	900	-1.1	1.9	-1.1	1.9
1000	1.8	65	3.1	999.9	1.3	2.8	1.3	4.7
1100	1.6	67	2.8	1099.9	1.1	2.6	2.4	7.3
1200	1.2	82	2.1	1199.9	.3	2.1	2.6	9.4
1300	.8	127	1.4	1299.9	-.8	1.1	1.8	10.5
1400	.8	130	1.4	1399.8	-.9	1.1	.9	11.6
1500	.9	132	1.6	1499.8	-1.1	1.2	-1.1	12.7
1600	1	122	1.7	1599.8	-.9	1.5	-1.1	14.2
1700	1	127	1.7	1699.8	-1.1	1.4	-2.1	15.6
1800	.9	112	1.6	1799.8	-.6	1.5	-2.7	17.1
1900	1.1	137	1.7	1899.8	-1.3	1.2	-4	18.2
2000	1.1	139	1.9	1999.8	-1.4	1.3	-5.4	19.5
2100	.9	187	1.6	2099.7	-1.6	1.2	-7	19.3
2200	.7	242	1.2	2199.7	-.6	1.1	-7.6	18.2
2300	.8	192	1.4	2299.7	-1.4	1.1	-8.9	17.9
2400	1	198	1.7	2399.7	-1.7	1.1	-10.6	17.4
2500	1.1	201	1.9	2499.7	-1.8	1.1	-12.4	16.7
2600	2	210	3.5	2599.6	-3	1.7	-15.4	15
2700	2.8	204	4.9	2699.5	-4.5	2	-19.9	13
2800	2.7	219	4.7	2799.4	-3.7	3	-23.5	10
2900	2.1	208	3.7	2899.3	-3.2	1.7	-26.8	8.3
3000	2.1	207	3.7	2999.3	-3.3	1.7	-30	6.6
3100	2.1	207	3.7	3099.2	-3.3	1.7	-33.3	5
3200	2.1	209	3.7	3199.1	-3.2	1.8	-36.5	3.2
3300	2	212	3.5	3299.1	-3	1.8	-39.5	1.3
3400	1.7	212	3	3399	-2.5	1.6	-42	-.2
3500	1.7	182	3	3499	-3	1.1	-44.9	-.3
3600	1.6	197	2.8	3598.9	-2.7	1.1	-47.6	-1.1
3700	1.6	197	2.8	3698.9	-2.7	1.1	-50.3	-2
3800	1.7	202	3	3798.9	-2.8	1.1	-53	-3.1
3900	1.9	187	3.3	3898.8	-3.3	1.1	-56.3	-4.2
4000	2	192	3.5	3998.7	-3.4	1.1	-59.7	-5.3
4100	2.1	188	3.7	4098.7	-3.6	1.1	-63.4	-6.4
4200	2.2	147	3.8	4198.6	-3.2	1.1	-66.6	-7.5
4300	2.8	127	4.9	4298.5	-2.9	1.1	-69.5	-8.6
4400	3.1	137	5.4	4398.3	-4	1.1	-73.5	-9.7
4500	3	127	5.2	4498.2	-3.1	1.1	-76.6	-10.8
4600	2.2	147	3.8	4598.1	-3.2	1.1	-79.8	-11.9
4700	1.7	187	3	4698.1	-2.9	1.1	-82.8	-13.0
4800	2.3	192	4	4798	-3.9	1.1	-86.7	-14.1
4900	3.2	197	5.6	4897.8	-5.3	1.1	-92.1	-15.2
5000	3.8	205	6.6	4997.6	-6	1.1	-98.1	-16.3
5100	4.4	217	7.7	5097.3	-6.1	1.1	-104.2	-17.4
5200	6.8	222	11.8	5196.6	-8.8	1.1	-113	-18.5
5300	6	205	10.5	5296.1	-9.5	1.1	-122.5	-19.6
5400	5	209	8.7	5395.7	-7.6	1.1	-130.1	-20.7
5500	4	222	7	5495.5	-5.2	1.1	-135.3	-21.8
5600	4.7	207	6.2	5595.1	-7.3	1.1	-142.6	-22.9
5700	4.4	177	7.7	5694.8	-7.7	1.1	-150.2	-24
5800	4.5	191	7.8	5794.5	-7.7	1.1	-157.9	-25.1
5900	5.2	192	9.1	5894.1	-8.9	1.1	-166.8	-26.2
6000	6	177	10.5	5993.6	-10.4	1.1	-177.2	-27.3
6100	5.8	184	10.1	6093	-10.1	1.1	-187.3	-28.4
6200	5.1	187	8.9	6192.6	-8.8	1.1	-196.1	-29.5
6300	4.3	177	7.5	6292.4	-7.5	1.1	-203.6	-30.6
6400	4.3	157	7.5	6392.1	-6.9	1.1	-210.5	-31.7
6500	4.3	167	7.5	6491.8	-7.3	1.1	-217.8	-32.8
6600	4.3	162	7.5	6591.5	-7.1	1.1	-225	-33.9
6700	4.3	147	7.5	6691.2	-6.3	1.1	-231.3	-35
6800	4.3	152	7.5	6791	-6.6	1.1	-237.9	-36.1
6900	4.3	137	7.5	6890.7	-5.5	1.1	-243.4	-37.2
7000	4	137	7	6990.4	-5.1	1.1	-248.5	-38.3
7100	3.3	127	5.8	7090.3	-3.5	1.1	-253.4	-39.4
7200	2.9	135	5.1	7190.1	-3.6	1.1	-258.5	-40.5
7300	2.6	127	4.5	7290	-2.7	1.1	-263.6	-41.6
7400	2	87	3.5	7390	-.2	1.1	-268.7	-42.7
7500	1.8	67	3.1	7489.9	1.2	1.1	-273.8	-43.8
7600	2	62	3.5	7589.9	1.6	1.1	-278.9	-44.9
7700	1.6	82	2.8	7689.8	1.4	1.1	-284	-46
7800	1.7	42	3	7789.8	2.2	1.1	-289.1	-47.1
7900	1.9	17	3.3	7889.7	3.2	1.1	-294.2	-48.2
8000	1.4	337	2.4	7989.7	2.2	1.1	-299.3	-49.3
8100	2.1	267	3.7	8089.6	1.2	1.1	-304.4	-50.4
8200	2.5	242	4.4	8189.5	-2	1.1	-309.5	-51.5
8300	2.2	237	3.8	8289.5	-2.1	1.1	-314.6	-52.6
8400	1.5	197	2.6	8389.4	-2.5	1.1	-319.7	-53.7
8492	1.5	187	2.4	8481.4	-2.4	1.1	-324.8	-54.8

BOTTOM OF HOLE LOCATED 256.6 FEET AT 177.6 DEG AZM FROM ORIG
OR 256.4 FEET S AND 10.9 FEET E OF ORIGIN
ORIGIN IS 840 FT.

NO. COMPUTED LEVELS = 77

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COMPANY CHEVRON OIL COMPANY
WELL CHEVRON-ATR-GINN NO 1-13
FIELD WHIRLWIND VALLEY AREA
COUNTY LANDER STATE NEVADA
ELEV. KB 4960.4
DF
GL 4946.9