OIL CONSERVATION DIVISION

Deviation Tabulation Report

Operator	Well Name	No.	Sec.	Twp.	Rge.
UNION TEXAS PETROLEUM CORP.	Jicarilla H	13	20	26N	4W

DEPTH	DEVIATION	DEPTH	DEVIATION
373	1.50	6306	6.50
883	1.50	6319	8.00
1073	1.75	6399	7.75
1359	1.75	6432	7.75
1642	1.50	6503	7.75
2175	0.75	6566	8.25
2682	0.75	6597	8.50
3303	1.00	6650	9.00
3739	1.00	6681	9.25
3978	1.25	6742	8.50
4231	1.25	6776	8.50
4545	1.50	6807	8.25
5052	1.00	6902	8.50
5545	1.75	6494	7.75
5813	2.50	7245	6.50
6054	3.00		

Directional Survey Attached

Robert C. Frank

Robert C. Frank

STATE OF NEW MEXICO |
ss
COUNTY OF SAN JUAN |

On this 3rd day of October, 1988, before as personally appeared Robert C. Frank, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have set my hand and seal of office on this 3rd day of October, 19 88.

Deborah Carlton

Notary Public in and for
San Juan County, New Mexico

My Commission Expires:

12/1/90

DRIFT SURVEY REPORT: JICARILLA H #13

DEPTH	DRIFT ANGLE (DEG)	DRIFT AZ (DEG MAG)
4850-4860	0.5	220
4860-4870	0.7	220
4870-4880	0.8	235
4880-4890	0.8	240
4890-4900	0.6	255
4900-4910	0.5	260
4910-4920	0.3	200
4920-4930	0.3	195
4930-4940	0.5	210
4940-4950	0.5	215
4950-4960	0.6	200
4960-4970	0.7	215
4970-4980	0.7	225
4980-4990	0.6	240
4990-5000	0.3	220
5000-5010	0.3	180
5010-5020	0.5	185
5020-5030	0.5	180
5030-5040	0.7	190
5040-5050	0.8	210
5050-5060	0.5	200
5060-5070	0.3	160
5070-5080	0.4	175
5080-5090	0.5	170
5090-5100	0.6	170
5100-5110	0.9	180
5110-5120	0.8	200
5120-5130	0.6	220
5130-5140	0.4	215
5140-5150	0.3	180
5150-5160	0.3	180
5160-5170	0.4	190
5170-5180	0.5	185
5180-5190	0.7	205
5190-5200	1.0	210
5200-5210	1.1	220
5210-5220	1.0	235
5220-5230	0.6	220
5230-5240	0.7	200
5240-5250	0.8	210
5250-5260	0.8	210
5260-5270	1.0	215
5270-5280	1.0	220
5280-5290	1.0	240
5290-5300	0.6	240
5300-5310	0.5	215
5310-5320	0.6	220
5320-5330	0.7	215
5330-5340	0.8	215
5340-5350	0.9	220
5350-5360	0.9	235
5360-5370	0.8	240
5370-5380	0.6	255
5380-5390	0.4	255
5390-5400	0.2	200
5400-5410	0.2	190
5410-5420	0.2	190
5420-5430	0.3	190
5430-5440	0.5	215
5440-5450	0.7	215
5450-5460	0.8	215
5460-5470	0.9	235
5470-5480	0.8	255
5480-5490	0.5	240
5490-5500	0.6	230
5500-5510	0.8	230
5510-5520	0.9	225
5520-5530	1.1	235
5530-5540	1.3	235
5540-5550	1.2	250
5550-5560	1.0	255
5560-5570	0.8	240
5570-5580	0.9	225
5580-5590	1.1	220
5590-5600	1.2	235
5600-5610	1.2	235
5610-5620	1.3	225

DRIFT SURVEY REPORT: JICARILLA H #13

DEPTH	DRIFT ANGLE (DEG)	DRIFT AZ (DEG MAG)
5620-5630	1.6	230
5630-5640	1.6	245
5640-5650	1.3	240
5650-5660	1.3	230
5660-5670	1.6	230
5670-5680	1.6	230
5680-5690	1.7	235
5690-5700	1.9	220
5700-5710	2.2	220
5710-5720	2.2	230
5720-5730	1.9	235
5730-5740	1.6	220
5740-5750	1.8	215
5750-5760	2.0	220
5760-5770	1.9	225
5770-5780	1.8	215
5780-5790	2.0	210
5790-5800	2.2	215
5800-5810	2.5	220
5810-5820	2.3	230
5820-5830	1.9	225
5830-5840	1.6	215
5840-5850	1.9	210
5850-5860	2.1	215
5860-5870	2.0	220
5870-5880	1.9	215
5880-5890	1.9	210
5890-5900	2.1	205
5900-5910	2.5	215
5910-5920	2.2	225
5920-5930	1.8	220
5930-5940	1.8	210
5940-5950	2.0	200
5950-5960	2.1	210
5960-5970	2.0	215
5970-5980	2.0	205
5980-5990	2.4	190
5990-6000	2.7	205
6000-6010	2.5	215
6010-6020	2.2	215
6020-6030	2.1	205
6030-6040	2.5	205
6040-6050	2.5	210
6050-6060	2.5	210
6060-6070	2.9	205
6070-6080	3.3	215
6080-6090	3.1	225
6090-6100	2.6	220
6100-6110	2.9	215
6110-6120	3.2	220
6120-6130	3.0	220
6130-6140	3.3	215
6140-6150	3.8	225
6150-6160	3.4	230
6160-6170	3.5	220
6170-6180	3.7	225
6180-6190	3.5	225
6190-6200	4.2	230
6200-6210	4.6	230
6210-6220	4.0	230
6220-6230	4.3	220
6230-6240	4.5	230
6240-6250	4.7	225
6250-6260	5.4	230
6260-6270	4.9	240
6270-6280	4.8	230
6280-6290	5.3	235
6290-6300	5.0	240
6300-6310	6.0	235
6310-6320	6.5	245
6320-6330	6.0	240
6330-6340	6.4	240
6340-6350	6.7	250
6350-6360	6.2	245
6360-6370	6.5	240
6370-6380	7.1	255
6380-6390	6.5	250

DRIFT SURVEY REPORT: JICARILLA H #13

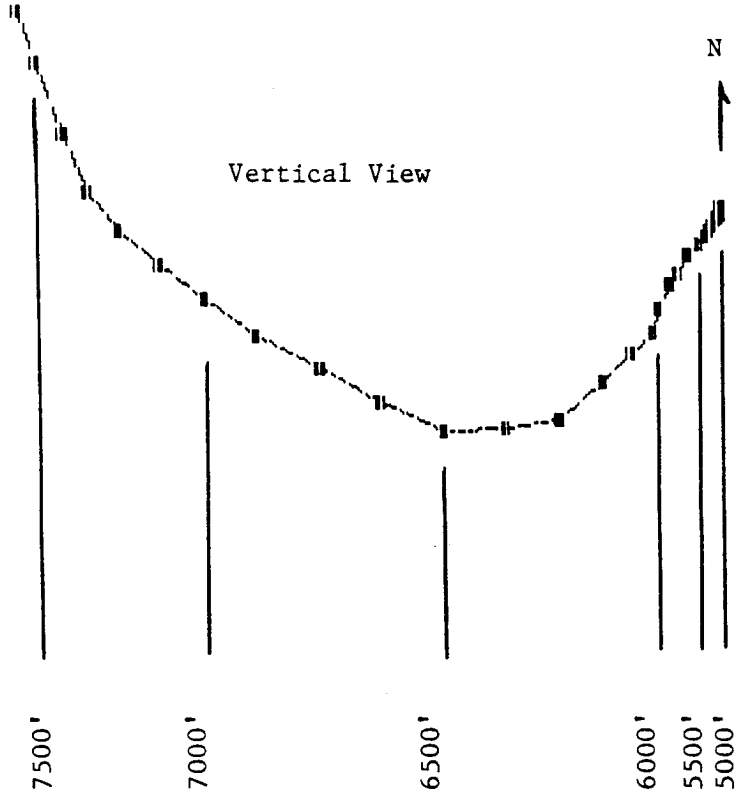
DEPTH	DRIFT ANGLE (DEG)	DRIFT AZ (DEG MAG)
6390-6400	6.5	245
6400-6410	7.0	255
6410-6420	6.1	255
6420-6430	6.1	245
6430-6440	6.3	245
6440-6450	7.0	250
6450-6460	6.9	260
6460-6470	6.0	260
6470-6480	5.7	255
6480-6490	6.5	255
6490-6500	7.0	265
6500-6510	6.6	265
6510-6520	6.2	265
6520-6530	6.6	260
6530-6540	7.5	270
6540-6550	8.2	280
6550-6560	7.5	280
6560-6570	6.8	275
6570-6580	6.8	270
6580-6590	7.1	270
6590-6600	8.0	280
6600-6610	8.0	285
6610-6620	7.2	280
6620-6630	8.0	280
6630-6640	8.7	290
6640-6650	8.4	290
6650-6660	7.3	285
6660-6670	7.3	280
6670-6680	8.1	285
6680-6690	8.1	290
6690-6700	7.5	290
6700-6710	6.8	290
6710-6720	7.1	285
6720-6730	8.0	285
6730-6740	8.0	290
6740-6750	7.0	295
6750-6760	6.2	290
6760-6770	6.5	290
6770-6780	7.0	295
6780-6790	7.3	300
6790-6800	7.1	300
6800-6810	6.4	295
6810-6820	6.9	290
6820-6830	8.0	295
6830-6840	8.2	300
6840-6850	7.3	300
6850-6860	6.6	295
6860-6870	7.3	300
6870-6880	7.6	300
6880-6890	7.3	305
6890-6900	6.4	300
6900-6910	6.8	295
6910-6920	7.3	300
6920-6930	7.7	305
6930-6940	7.4	305
6940-6950	6.5	305
6950-6960	5.8	300
6960-6970	6.0	295
6970-6980	6.5	300
6980-6990	6.5	300
6990-7000	6.0	300
7000-7010	5.5	295
7010-7020	5.9	295
7020-7030	6.7	300
7030-7040	6.6	305
7040-7050	6.0	310
7050-7060	5.4	305
7060-7070	5.0	300
7070-7080	5.0	300
7080-7090	5.2	300
7090-7100	5.5	300
7100-7110	5.6	305
7110-7120	5.5	305
7120-7130	5.5	305
7130-7140	5.5	310
7140-7150	5.6	310
7150-7160	5.6	310

DRIFT SURVEY REPORT: JICARILLA H #13

DEPTH	DRIFT ANGLE (DEG)	DRIFT AZ (DEG MAG)
7160-7170	5.7	310
7170-7180	5.7	315
7180-7190	5.5	315
7190-7200	5.3	315
7200-7210	5.0	315
7210-7220	5.0	315
7220-7230	5.0	315
7230-7240	5.2	320
7240-7250	5.3	320
7250-7260	5.2	320
7260-7270	5.2	320
7270-7280	5.3	320
7280-7290	5.4	320
7290-7300	5.4	320
7300-7310	5.3	320
7310-7320	5.5	320
7320-7330	5.8	320
7330-7340	6.1	320
7340-7350	6.0	325
7350-7360	6.2	330
7360-7370	7.2	335
7370-7380	7.2	330
7380-7390	6.6	335
7390-7400	7.5	340
7400-7410	7.5	335
7410-7420	6.9	335
7420-7430	6.9	340
7430-7440	7.6	340
7440-7450	7.0	335
7450-7460	7.1	340
7460-7470	7.5	345
7470-7480	7.7	340
7480-7490	7.5	340
7490-7500	7.5	340
7500-7510	7.5	340
7510-7520	7.5	340
7520-7530	7.0	340
7530-7540	7.3	340
7540-7550	7.2	340
7550-7560	6.8	340
7560-7570	6.7	340
7570-7580	6.5	340

DRIFT SURVEY REPORT: JUCARILLA H #13

DEPTH	DRIFT ANGLE (DEG)	DR	Z (DEG MAG)	DEVIATION (FT)	TVD ('	R COS	R SIN
4900-5000	.5	220		.9	0.0	-0.56	-0.67
5000-5100	.5	180		.9	0.0	-0.34	-0.87
5100-5200	.5	180		.9	0.0	-0.15	-0.96
5200-5300	.8	220		1.4	0.0	-0.90	-1.07
5300-5400	.7	220		1.2	0.0	-0.77	-0.92
5400-5500	.5	220		.9	0.0	-0.59	-0.69
5500-5600	1.0	230		1.7	0.0	-1.09	-1.30
5600-5700	1.5	230		2.6	0.0	-2.00	-1.67
5700-5800	2.0	220		3.5	-0.1	-2.30	-2.68
5800-5900	2.0	215		3.5	-0.1	-2.00	-2.87
5900-6000	2.2	210		3.9	-0.1	-1.90	-3.29
6000-6100	2.7	210		4.7	-0.1	-2.30	-4.07
6100-6200	3.5	220		6.1	-0.2	-3.90	-4.67
6200-6300	4.5	230		7.8	-0.3	-6.00	-5.02
6300-6400	6.0	240		10.5	-0.5	-9.10	-5.25
6400-6500	6.5	260		11.3	-0.6	-11.10	-1.96
6500-6600	7.0	270		12.2	-0.7	12.20	-0.01
6600-6700	8.0	290		13.9	-1.0	-13.06	4.75
6700-6800	7.5	285		13.1	-0.9	-11.87	5.54
6800-6900	7.5	300		13.1	-0.9	-11.34	6.55
6900-7000	7.0	300		12.2	-0.7	-10.57	6.10
7000-7100	6.0	300		10.5	-0.6	-9.09	5.25
7100-7200	5.5	310		9.6	-0.5	-7.35	6.17
7200-7300	5.5	320		9.6	-0.5	-6.17	7.35
7300-7400	6.5	330		11.3	-0.6	-5.64	9.79
7400-7500	7.5	340		13.1	-0.9	-4.48	12.31
7500-7580	7.0	340		9.7	-0.6	-3.32	9.11
				Total:	-9.9	-115.90	35.26



Bottom of hole is 144' WNW (285° magnetic) from casing point at 4900'.

830' FNL - 37' = 793' FNL

1620' FWL - 139' = 1481' FWL