

Client: UNION TEXAS PETROLEUM CORP. Description: ACAPILLO NO. 1 F-3 RIO 42

Target coordinates: 0.0 N 0.0 E Target TOL: 0.370

Using: Profile of curvature method.

ok
[Signature]

P-28-26N-4W

TABLE

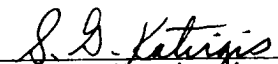
STATION	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	RECTANGULAR COORDINATES (feet)	DOUBLE SPERIT DG/100FT
0	0.0	2.00	- 0 -	0.0	0.0	0.0	0.0 N 0.0 E	0.00
1	100.0	2.20	N 61.00 E	100.0	102.7	-0.2	0.1 N 0.2 E	0.20
2	200.0	0.80	S 81.00 E	100.0	202.7	-1.0	0.2 N 1.0 E	0.65
3	300.0	0.90	S 67.00 E	100.0	302.7	-2.4	0.2 S 2.4 E	0.27
4	400.0	3.90	S 52.00 E	100.0	402.7	-3.6	1.0 S 3.0 E	0.20
5	500.0	0.90	S 62.00 E	100.0	502.2	-5.1	1.0 S 5.1 E	0.15
6	600.0	0.90	S 49.00 E	100.0	599.9	-6.4	2.7 S 6.4 E	0.20
7	700.0	0.50	S 11.00 E	100.0	699.9	-7.0	3.0 S 7.0 E	0.55
8	800.0	3.70	S 35.00 E	100.0	799.9	-7.4	4.7 S 7.4 E	0.32
9	900.0	0.80	S 64.00 E	100.0	899.9	-8.4	5.5 S 8.4 E	0.35
10	1000.0	0.90	S 72.00 E	100.0	999.9	-9.7	6.1 S 9.7 E	0.15
11	1100.0	0.80	S 82.00 E	100.0	1099.9	-11.2	6.4 S 11.2 E	0.16
12	1200.0	1.00	S 76.00 E	100.0	1199.9	-12.7	6.7 S 12.7 E	0.22
13	1300.0	0.90	S 79.00 E	100.0	1299.9	-14.3	7.1 S 14.3 E	0.11
14	1400.0	0.80	N 87.00 E	100.0	1399.9	-15.6	7.2 S 15.8 E	0.23
15	1500.0	0.70	N 88.00 E	100.0	1499.9	-17.1	7.1 S 17.1 E	0.10
16	1600.0	0.20	S 6.00 E	100.0	1599.9	-17.7	7.6 S 17.7 E	0.71
17	1700.0	0.40	N 4.00 E	100.0	1699.9	-16.0	7.6 S 18.0 E	0.60
18	1800.0	0.90	N 21.00 W	100.0	1799.9	-17.9	6.5 S 17.9 E	0.56
19	1900.0	2.70	N 71.00 W	100.0	1899.8	-16.9	5.6 S 16.9 E	0.70
20	2000.0	0.80	S 80.00 W	100.0	1999.8	-15.6	5.4 S 15.6 E	0.39
21	2100.0	0.70	S 60.00 W	100.0	2099.8	-14.4	5.9 S 14.4 E	0.28
22	2200.0	0.60	S 44.00 W	100.0	2199.8	-13.5	6.6 S 13.5 E	0.21
23	2300.0	0.90	S 50.00 W	100.0	2299.9	-12.5	7.5 S 12.5 E	0.31
24	2400.0	0.20	S 46.00 W	100.0	2399.8	-11.4	8.5 S 11.4 E	0.12
25	2500.0	0.50	S 75.00 W	100.0	2499.8	-10.4	9.0 S 10.4 E	0.44
26	2600.0	0.90	S 31.00 W	100.0	2599.8	-9.5	9.7 S 9.5 E	0.65
27	2700.0	1.00	S 32.00 W	100.0	2699.8	-8.6	11.1 S 9.5 E	0.10
28	2800.0	0.90	S 42.00 W	100.0	2799.8	-7.6	12.5 S 7.6 E	0.19
29	2900.0	0.90	S 37.00 W	100.0	2899.7	-6.6	13.7 S 6.6 E	0.08
30	3000.0	1.00	S 46.00 W	100.0	2999.7	-5.5	14.9 S 5.5 E	0.18
31	3100.0	0.80	S 31.00 W	100.0	3099.7	-4.5	16.1 S 4.5 E	0.31
32	3200.0	1.10	S 42.00 W	100.0	3199.7	-3.6	17.5 S 3.6 E	0.35
33	3300.0	1.00	S 44.00 W	100.0	3299.7	-2.3	18.8 S 2.3 E	0.11
34	3400.0	0.90	S 20.00 W	100.0	3399.7	-1.4	20.2 S 1.4 E	0.41

MAXIMUM DEVIATION ~ 9.1°

Survey: "UNION TEXAS PETROLEUM, INC." Description: "JACARILLO CO. E-8-810 AP
 Target Coordinates: 4.0 N 2.0 E Target TUD: 4.000
 Using: The Radius of curvature method.

STATION	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUTH		VERTICAL SECTION (feet)	RECTANGULAR COORDINATES (feet)	BEARING	DOUBLE
					VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)				
70	7000.0	9.10	S 24.00 E	100.0	6999.9	-30.8	89.8 S	30.8 E	2.41	✓
71	7100.0	8.20	S 18.00 E	100.0	7099.7	-36.4	104.1 S	36.4 E	0.91	
72	7200.0	8.33	S 15.00 E	100.0	7194.5	-40.9	118.6 S	40.9 E	0.31	
73	7300.0	8.20	S 10.00 E	100.0	7293.4	-44.2	133.2 S	44.2 E	1.00	✓
74	7400.0	8.10	S 9.00 E	100.0	7392.4	-46.5	147.1 S	46.5 E	0.17	
75	7500.0	7.90	S 6.00 E	100.0	7491.4	-48.3	160.9 S	48.3 E	0.45	
76	7600.0	7.20	S 7.00 E	100.0	7590.5	-49.8	174.0 S	49.8 E	0.71	✓
77	7700.0	6.20	S 5.00 E	100.0	7689.9	-51.0	185.6 S	51.0 E	1.07	✓
78	7800.0	6.20	S 1.00 E	100.0	7789.3	-51.6	196.4 S	51.6 E	0.43	
79	7900.0	5.80	S 4.00 W	100.0	7888.7	-51.3	206.8 S	51.3 E	0.55	
80	8000.0	5.30	S 6.00 W	100.0	7988.3	-50.5	216.5 S	50.5 E	0.54	
81	8075.0	5.40	S 5.00 W	75.0	8062.9	-49.8	223.4 S	49.8 E	0.13	

--- Final Closure Direction: S 12.56 E
 --- Final Closure Distance: 228.881 feet


 S. G. Katirgis

STATE OF NEW MEXICO
 SS
 COUNTY OF SAN JUAN

On this 15th day of November, 1988, before as personally appeared S. G. Katirgis, 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 15th day of November, 1988.


 Notary Public in and for
 San Juan County, New Mexico

My Commission Expires:

