

AMERICAN PETROFINA COMPANY OF TEXAS

FEDERAL 1-5

Sec. 5, T30N, R15W
San Juan Co., New Mexico

SLOPE TESTS

70	1/4	891	4-1/2	2464	5-3/4	3428	10-1/2
123	1	953	4-3/4	2495	5-3/4	3459	10-3/4
159	3/4	1015	5	2521	6	3490	11-1/4
189	2-1/2	1079	5-1/2	2556	6-1/4	3520	11
229	4	1140	5-1/4	2587	6-1/4	3553	10-3/4
251	5-1/2	1176	5-3/4	2618	6-1/4	3585	11-1/2
		1206	5-3/4	2650	7	3616	11
102	1/4	1238	5-1/4	2681	7-1/2	3780	12-1/2
134	1/2	1270	5	2712	7-1/2		
165	1	1302	5-1/2	2744	8		
196	2	1333	5-1/2	2807	8		
214	1-3/4	1396	5-1/2	2839	8		
227	3-1/2	1460	5	2869	8		
		1522	5	2900	8-3/4		
180	2	1584	5	2931	9		
211	3	1645	4-3/4	2962	8-1/2		
242	4	1708	5	2994	9		
273	4	1771	5	3025	8-3/4		
304	4-1/4	1834	4-1/2	3056	8-1/2		
335	4	1924	5-1/4	3086	8-1/2		
366	4	1987	5	3117	8-3/4		
397	4-3/4	2049	5	3178	8-3/4		
453	4-1/2	2112	5	3209	10		
521	4-3/4	2175	5	3239	10		
583	4-3/4	2240	5	3271	10		
645	4-1/2	2304	5-1/2	3302	10		
703	5	2366	6	3334	10-1/4		
766	4-3/4	2401	6	3365	10-1/4		
829	4-3/4	2431	6-1/4	3397	10-3/4		

RECEIVED
NOV 13 1984
OIL CON. DIV.
DIST. 3

State of New Mexico)
County of San Juan) ss

I, A. D. Miller, being first duly sworn, depose and state that the above and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.

Subscribed and sworn before me this 7th day of November, 1984

A. D. Miller
Agent
Theresa L. Pacheco
Notary Public

NOV 13 1984

OIL CON. DIV.
DIST. 3



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

AMERICAN PETROFINA COMPANY OF TEXAS
COMPANY

FEDERAL 1-5
WELL NAME

SAN JUAN COUNTY, NEW MEXICO
LOCATION

JOB NUMBER
RM1184 S1141

TYPE OF SURVEY
MULTI-SHOT

DATE
NOV-1-84

SURVEY BY : DON MICHAEL

OFFICE: FARMINGTON

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

MEASURED DEPTH FEET	DRIFT ANGLE D° M'	DRIFT DIRECTION D° M'	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	
0.00	0° 0	0° 0	0.00	0.00	0.00	0.00
204.00	2° 30	N 22° 0' W	204.00	203.94	4.13' N	1.67' W
300.00	5° 0	N 24° 0' W	96.00	299.72	9.90' N	4.12' W
400.00	4° 15	N 25° 0' W	100.00	399.40	17.24' N	7.46' W
500.00	4° 0	N 26° 0' W	100.00	499.14	23.73' N	10.56' W
600.00	4° 45	N 27° 0' W	100.00	598.84	30.56' N	13.96' W
700.00	3° 45	N 25° 0' W	100.00	698.57	37.22' N	17.21' W
800.00	4° 45	N 24° 0' W	100.00	798.29	43.96' N	20.29' W
900.00	6° 0	N 27° 0' W	100.00	897.85	52.42' N	24.32' W
1000.00	5° 0	N 23° 0' W	100.00	997.39	61.10' N	28.37' W
1100.00	5° 0	N 24° 0' W	100.00	1097.01	69.09' N	31.84' W
1200.00	5° 0	N 28° 0' W	100.00	1196.63	76.93' N	35.66' W
1300.00	4° 45	N 30° 0' W	100.00	1296.27	84.36' N	39.78' W
1400.00	4° 0	N 31° 0' W	100.00	1395.97	90.93' N	43.65' W
1500.00	5° 0	N 31° 0' W	100.00	1495.66	97.66' N	47.89' W
1600.00	3° 45	N 31° 0' W	100.00	1595.37	104.19' N	51.62' W
1700.00	4° 0	N 33° 0' W	100.00	1695.14	109.92' N	55.20' W
1800.00	6° 45	N 30° 0' W	100.00	1794.69	117.91' N	60.10' W
1900.00	5° 0	N 41° 0' W	100.00	1894.16	126.23' N	66.03' W
2000.00	4° 0	N 42° 0' W	100.00	1993.85	132.11' N	71.23' W
2100.00	5° 45	N 45° 0' W	100.00	2093.49	138.27' N	77.08' W
2200.00	5° 0	N 43° 0' W	100.00	2193.05	145.01' N	83.59' W
2300.00	5° 0	N 46° 0' W	100.00	2292.67	151.22' N	89.69' W
2400.00	5° 15	N 48° 0' W	100.00	2392.27	157.32' N	96.23' W
2500.00	5° 0	N 43° 0' W	100.00	2491.87	163.58' N	102.60' W
2600.00	5° 45	N 42° 0' W	100.00	2591.43	170.48' N	108.93' W
2700.00	8° 0	N 42° 0' W	100.00	2690.70	179.38' N	116.94' W
2800.00	8° 0	N 42° 0' W	100.00	2789.73	189.72' N	126.25' W
2900.00	9° 0	N 40° 0' W	100.00	2889.63	200.87' N	135.94' W
3000.00	8° 0	N 38° 0' W	100.00	2987.53	212.36' N	145.25' W
MEASURED DEPTH FEET	DRIFT ANGLE D° M'	DRIFT DIRECTION D° M'	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	
3100.00	7° 0	N 39° 0' W	100.00	3086.67	222.59' N	153.37' W
3200.00	8° 45	N 40° 0' W	100.00	3185.73	233.15' N	162.09' W
3300.00	11° 0	N 41° 0' W	100.00	3284.24	246.19' N	173.22' W
3400.00	10° 0	N 38° 0' W	100.00	3382.56	260.25' N	184.81' W

MEASURED DEPTH FEET	DRIFT ANGLE D ° M	DRIFT DIRECTION D ° M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET
3100.00	7' 0	N 39' 0" W	100.00	3088.67	232.59' N 153.37' W
3200.00	8' 45	N 40' 0" W	100.00	3195.73	233.15' N 162.09' W
3300.00	11' 0	N 41' 0" W	100.00	3284.24	246.19' N 173.22' W
3400.00	10' 0	N 38' 0" W	100.00	3392.56	260.25' N 184.81' W
3500.00	11' 0	N 38' 0" W	100.00	3480.89	274.61' N 196.03' W
3600.00	10' 0	N 36' 0" W	100.00	3579.21	289.18' N 207.00' W
3653.00	12' 15	N 34' 0" W	53.00	3631.21	297.54' N 212.86' W

FINAL CLOSURE - DIRECTION: N 35 34' 51" W
DISTANCE: 385.84' FEET

09:24:43
01-NOV-84
FILE NUMBER: 1