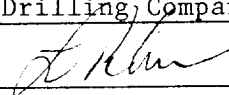
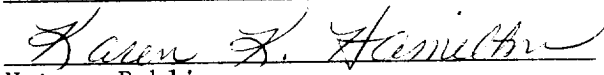


WELL NAME & NUMBER ✓O.C. Federal #1LOCATION Sec 4, T-21-S, R-36-E Lea County, New Mexico 640/N + 1830/W
(Give Unit, Section, Township and Range)OPERATOR Arco Oil & Gas Company P.O. Box 1610 Midland, TX 79702DRILLING CONTRACTOR Grace Drilling Company

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

DEGREES @ DEPTH		DEGREES @ DEPTH		DEGREES @ DEPTH		DEGREES @ DEPTH	
1.00	214	.25	3471	2.75	8610	2.75	11340
.75	385	.50	3720	2.00	8738	3.25	11490
.50	680	.50	4000	2.00	8927	3.25	11819
.25	992	.50	4287	2.75	9262	4.75	11978
.50	1243	2.50	4759	3.00	9369	5.50	12011
.75	1560	1.75	5000	2.50	9495	5.25	12073
.75	1875	1.00	5322	3.50	10216	4.50	12160
2.25	2221	.75	5820	3.00	10234	4.00	12357
2.25	2315	1.50	6328	3.50	10390		
2.00	2438	2.00	6549	3.50	10523		
2.00	2563	1.50	6736	2.50	10651		
1.50	2688	1.00	7019	2.50	10806		
1.00	2812	.25	7460	2.75	10,973		
1.00	2968	.50	7626	3.00	11122		
1.00	3218	1.00	8110	2.75	11191		

Drilling Contractor Grace Drilling CompanyBy Subscribed and sworn to before me this 25 day of January, 19 91
Notary PublicMy Commission Expires 11/19/94EctorCounty Texas

RECEIVED

JUL 10 1991

HOBBY