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JAN 11 1986

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MCBPS OFFICE

SCIENTIFIC DRILLING INTERNATIONAL
MIDLAND, TEXAS

WELL NUMBER: 132G1188094

DATE: 11/10/88

INRUN SURVEY

BY

THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE DEPARTURE	D-LEG PER 100
100.00	100.00	.02	.02	0- 2 N	0- 1 E	.02 N .00 E	.03
200.00	200.00	.16	.16	0- 9 S	82-10 W	.12 N .11 W	.16
300.00	300.00	.33	.25	0-10 N	69- 3 W	.14 N .35 W	.08
400.00	400.00	.76	.48	0-23 N	63-42 W	.34 N .79 W	.22
500.00	499.99	1.59	1.03	0-48 N	87-51 W	.59 N 1.79 W	.48
600.00	599.98	2.37	1.31	0-42 S	82-35 W	.53 N .3.09 W	.16
700.00	699.98	3.07	1.23	0-43 S	89-23 W	.44 N 4.32 W	.09
800.00	799.97	3.81	1.21	0-41 S	87-15 W	.41 N 5.53 W	.04
900.00	899.96	4.49	1.21	0-43 S	83-17 W	.31 N 6.73 W	.06
1000.00	999.95	5.14	1.23	0-42 S	81-13 W	.14 N 7.95 W	.03
1100.00	1099.94	5.77	1.34	0-50 S	77-14 W	.11 S 9.26 W	.14
1200.00	1199.94	6.48	1.34	0-42 S	87-47 W	.28 S 10.59 W	.19
1300.00	1299.93	6.89	.92	0-21 S	67-31 W	.48 S 11.48 W	.39
1400.00	1399.93	7.14	.55	0-17 S	89- 0 W	.59 S 12.02 W	.13
1500.00	1499.93	7.39	.61	0-25 S	61-11 W	.74 S 12.60 W	.21

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1600.00	1599.93	7.53	.63	0-18	S 66-33 W	1.02 S 13.16 W	.12
1700.00	1699.93	7.48	.41	0-10	S 19-29 W	1.31 S 13.43 W	.22
1800.00	1799.92	7.51	.33	0-12	N 83-49 W	1.47 S 13.69 W	.23
1900.00	1899.92	7.69	.29	0-8	S 81-48 W	1.48 S 13.98 W	.08
2000.00	1999.92	7.67	.13	0-1	S 5-0 W	1.57 S 14.06 W	.13
2100.00	2099.92	7.61	.12	0-7	N 21-21 E	1.59 S 13.98 W	.13
2200.00	2199.92	7.78	.25	0-10	N 5-47 W	1.35 S 13.95 W	.08
2300.00	2299.92	7.98	.37	0-15	N 38-24 E	1.00 S 13.85 W	.17
2400.00	2399.92	8.09	.55	0-23	N 40-41 E	.57 S 13.50 W	.13
2500.00	2499.92	8.24	.80	0-32	N 38-44 E	.04 N 12.99 W	.15
2600.00	2599.91	8.54	1.17	0-48	N 33-26 E	.93 N 12.30 W	.27
2700.00	2699.90	8.96	1.40	0-48	N 33-4 E	2.15 N 11.54 W	.01
2800.00	2799.89	9.36	1.35	0-45	N 33-47 E	3.28 N 10.79 W	.05
2900.00	2899.88	9.91	1.33	0-47	N 18-53 E	4.47 N 10.20 W	.20
3000.00	2999.88	10.54	1.37	0-47	N 27-59 E	5.72 N 9.66 W	.12

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3100.00	3099.87	11.10	1.30	0-42	N 22-29 E	6.89 N 9.11 W	.11
3200.00	3199.86	11.65	1.08	0-32	N 17-15 E	7.90 N 8.74 W	.18
3300.00	3299.86	12.07	.80	0-23	N 22-13 E	8.65 N 8.47 W	.16
3400.00	3399.86	12.32	.60	0-18	N 28-18 E	9.20 N 8.22 W	.09
3500.00	3499.85	12.51	.49	0-16	N 28-25 E	9.63 N 7.98 W	.03
3600.00	3599.85	12.64	.39	0-11	N 35-45 E	9.96 N 7.78 W	.09
3700.00	3699.85	12.63	.33	0-12	N 69-56 E	10.16 N 7.52 W	.11
3800.00	3799.85	12.56	.29	0-8	N 58-43 E	10.28 N 7.26 W	.07
3900.00	3899.85	12.42	.32	0-14	S 87-17 E	10.36 N 6.95 W	.14
4000.00	3999.85	12.11	.36	0-10	S 46-36 E	10.22 N 6.63 W	.15
4100.00	4099.85	11.62	.53	0-26	S 68-5 E	9.94 N 6.19 W	.28
4200.00	4199.85	10.96	.74	0-25	S 64-16 E	9.64 N 5.52 W	.03
4300.00	4299.84	10.30	.80	0-30	S 79-52 E	9.40 N 4.76 W	.15
4400.00	4399.84	9.69	.73	0-20	S 65-16 E	9.18 N 4.07 W	.20
4500.00	4499.84	9.07	.77	0-33	S 84-14 E	8.98 N 3.33 W	.26

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MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE DEPARTURE	D-LEG PER 100
4570.00	4569.84	8.67	.45	0-11	S 45-26 E	8.79 N 2.94 W	.60
4904.00	4903.83	8.49	1.27	0-15	N 57- 0 W	8.12 N 3.47 W	.13
5017.00	5016.76	12.14	3.70	3-30	N 35- 0 W	10.68 N 6.12 W	2.89
5114.00	5113.52	18.89	6.77	4-30	N 35- 0 W	16.22 N 10.00 W	1.03
5142.00	5141.43	21.08	2.20	4-30	N 36- 0 W	18.01 N 11.27 W	.28
5206.00	5205.23	26.24	5.16	4-45	N 44- 0 W	21.96 N 14.59 W	1.08
5269.00	5268.01	31.45	5.22	4-45	N 40- 0 W	25.83 N 18.08 W	.53
5364.00	5362.67	39.52	8.07	5- 0	N 42- 0 W	31.93 N 23.37 W	.32
5459.00	5457.27	48.20	8.69	5-30	N 43- 0 W	33.33 N 29.25 W	.54
5554.00	5551.83	57.28	9.11	5-30	N 43- 0 W	44.99 N 35.46 W	.00
5648.00	5645.38	66.42	9.21	5-45	N 50- 0 W	51.33 N 42.14 W	.78
5743.00	5739.90	75.63	9.52	5-45	N 57- 0 W	56.99 N 49.78 W	.74
5837.00	5833.43	84.69	9.42	5-45	N 53- 0 W	62.39 N 57.49 W	.43
5932.00	5927.93	94.05	9.73	6- 0	N 57- 0 W	67.97 N 65.46 W	.50
6027.00	6022.41	103.56	9.93	6- 0	N 55- 0 W	73.52 N 73.69 W	.22

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MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC		BEARING		COORDINATES		D-LEG PER 100	
				D	M	D	M	LATITUDE DEPARTURE			
6184.00	6178.47	120.12	17.09	6-30	N	52-	0	W	83.69 N	87.43 W	.38
6309.00	6302.64	134.09	14.42	6-45	N	55-	0	W	92.26 N	99.02 W	.34

THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF

6309.00 FEET EQUALS 135.34 FEET AT N 47- 1 W.



SCIENTIFIC DRILLING INTERNATIONAL

2024 Trade Dr., Midland, TX 79703
P.O. Box 9699 915/563-1339

SURVEY CERTIFICATION

COMPANY Exxon Company, U.S.A. WELL NAME & NO. New Mexico "K" State #34
DATE of CERTIFICATION 11-17-88 LOCATION Lea County, New Mexico
TYPE of SURVEY Single Shot Surveys FROM 4570 ft. TO 6309 ft.
JOB NUMBER 132D1188097 WORK ORDER NUMBER 21599

THE ABOVE SURVEY WAS PERFORMED BY ME ON 11/11-16/88 19
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED
STANDARDS AND ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

B.W. Hunter
SURVEYOR

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS
ACCEPTABLE ACCORDING TO CURRENT SCIENTIFIC DRILLING INTERNATIONAL
STANDARDS.

SURVEY CONFIRMATION BY: David Moody

SCIENTIFIC DRILLING INTERNATIONAL
REPRESENTATIVE



SCIENTIFIC DRILLING INTERNATIONAL

2024 Trade Dr., Midland, TX 79703
P.O. Box 9699 915/563-1339

SURVEY CERTIFICATION

COMPANY Exxon Company, U.S.A.

WELL NAME & NO. New Mexico "K" State #34

DATE of CERTIFICATION 11-17-88

LOCATION Lea County, New Mexico

TYPE of SURVEY Surface Readout
Gyro

FROM 00 ft. TO 4570 ft.

JOB NUMBER 132G1188094

WORK ORDER NUMBER 21597

THE ABOVE SURVEY WAS PERFORMED BY ME ON November 9, 1988
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED
STANDARDS AND ARE TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

Douglas Jeff
SURVEYOR

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS
ACCEPTABLE ACCORDING TO CURRENT SCIENTIFIC DRILLING INTERNATIONAL
STANDARDS.

SURVEY CONFIRMATION BY: Bert Meach

SCIENTIFIC DRILLING INTERNATIONAL
REPRESENTATIVE