



Texaco Exploration
and Production Inc

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

September 11, 1996

GOV - STATE AND LOCAL GOVERNMENTS
Directional Drilling - Horizontal
Non-Standard Proration Unit
North Vacuum Abo West Unit Well No. 27
Sec. 27, T-17-S, R-34-E
Lea County, New Mexico

TO THE OFFSET OPERATORS

Gentlemen:

As an offset operator to the captioned unit, you are being furnished with a copy of our Application to directionally drill a horizontal well. If you have no objection, please sign the waiver at the bottom of this letter and return in the enclosed envelope.

Any questions concerning this request should be directed to me at (915) 688-4606.

Yours very truly,

C. Wade Howard

C. W. Howard
Engineer's Assistant

CWH:cwh

File

WAIVER APPROVED:

COMPANY: _____

BY: _____

DATE: _____

OFFSET OPERATOR'S LIST
North Vacuum Abo West Unit Well No. 27
LEA COUNTY, NEW MEXICO

Texaco Exploration and Production Inc.
P. O. Box 3109
Midland, Texas 79702

Mobil Exploration and Producing US Inc.
P. O. Box 633
Midland, Texas 79702

Oxy USA Inc.
P. O. Box 50250
Midland, Texas 79710

Conoco Inc.
10 Desta Dr. West
Midland, Texas 79702

Atlantic Richfield Company
P. O. Box 1610
Midland, Texas 79702

Headington Penn Corporation
7557 Rambler, Suite 1150
Dallas, Texas 75231

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mobil Exploration + Producing
P.O. Box 633
Midland, TX 79702

4a. Article Number
P 329 313 816

4b. Service Type

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery SEP 12 1996

5. Signature (Addressee)

6. Signature (Agent)
Jose H. Keys

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

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- Complete items 3, and 4a & b.
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- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Oxy USA Inc.
P.O. Box 50250
Midland, TX 79710

4a. Article Number
P 329 313 817

4b. Service Type

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery SEP 12 1996

5. Signature (Addressee)

6. Signature (Agent)
[Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714

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- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

CONOCO Inc.
10 DESTA DR. WEST
Midland, TX 79705

4a. Article Number
P 329 313 822

4b. Service Type

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery 9-13-96

5. Signature (Addressee)
[Signature]

6. Signature (Agent)
[Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714

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- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

ATLANTIC RICHFIELD Co.
P.O. BOX 1610
MIDLAND, TX 79702

4a. Article Number

P 329 313 819

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

SEP 12 1996

5. Signature (Addressee)

[Signature]

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

PS Form 3811, December 1991

★U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT

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- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

HEADINGTON PENN CORP.
7557 RAMBLER, SUITE 1150
DALLAS, TX 75231

4a. Article Number

P 329 313 820

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

9-13-96

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

PS Form 3811, December 1991

★U.S. GPO: 1993-352-714

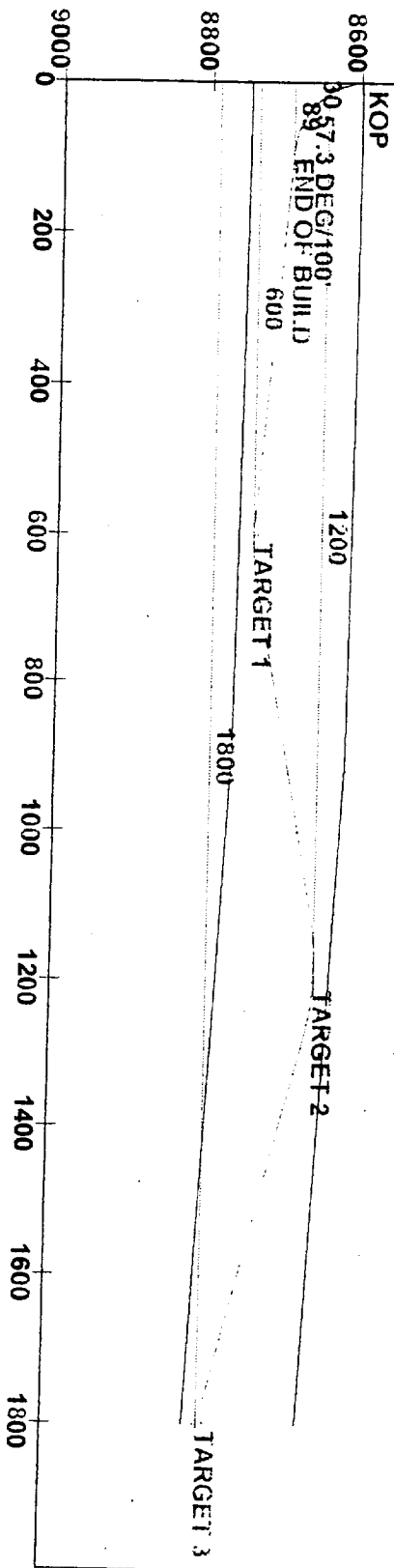
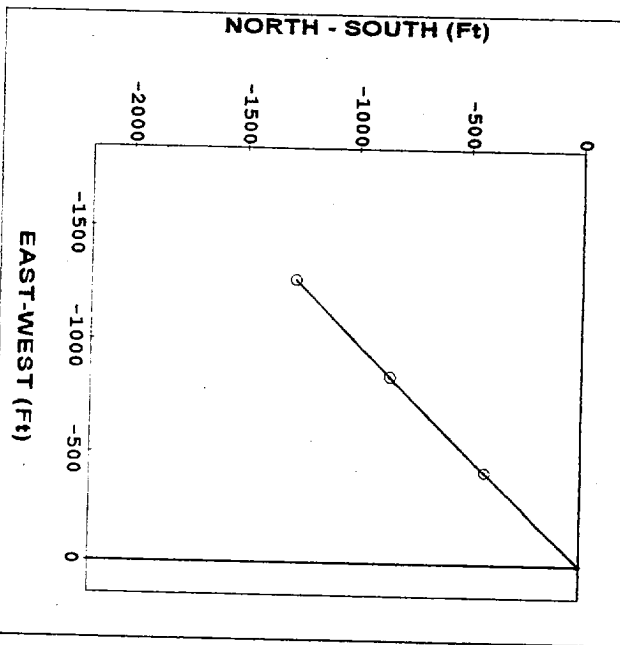
DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

Company: TEXACO E & P INC.
 Lease/Well: NORTH VACUUM ABO WEST UNIT #27H
 Location: LEA COUNTY, NEW MEXICO
 File name: C:\SURVEY\NAVU#27.SVY
 Date/Time: Tuesday, September 10, 1996

TRUE VERTICAL DEPTH (Ft)

CRITICAL POINTS					
KD	INC	AZM	TVD	N-S	E-W
KOP					
8591.00	.00	224.81	8591.00	.00	.00
57.3 DEG/100'					
8671.00	45.84	224.81	8662.73	-21.52	-21.38
END OF BUILD					
8737.00	83.66	224.81	8690.38	-63.10	-62.69
TARGET 1					
9250.18	89.18	224.81	8736.59	-425.68	-422.86
TARGET 2					
9858.22	86.82	224.81	8644.67	-851.34	-845.71
TARGET 3					
10475.99	75.72	224.81	8790.00	-1277.01	-1268.56



VERTICAL SECTION (Ft) @ 224.81°

Job Number:
Company: TEXACO E & P, INC.
Lease/Well: NORTH VACUUM ABO WEST UNIT #27H
Location: LEA COUNTY, NEW MEXICO
Rig Name:

State/Country:
Declination:
Grid:
File name: C:\SURVEY\NAVU#27.SVY
Date/Time: Tuesday, September 10, 1996

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 224.81

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD Ft	N-S Ft	E-W Ft	Vertical Section Ft	CLOSURE Distance Ft	Direction Deg	Dogleg Severity Deg/100
KOP										
8591.00	.00	224.81	8591.00	4533.00	.00	.00	.00	.00	.00	.00
8601.00	5.73	224.81	8600.98	4542.98	-.35	-.35	.50	.50	224.81	57.30
8611.00	11.46	224.81	8610.87	4552.87	-1.41	-1.40	1.99	1.99	224.81	57.30
8621.00	17.19	224.81	8620.55	4562.55	-3.17	-3.15	4.47	4.47	224.81	57.30
8631.00	22.92	224.81	8629.94	4571.94	-5.60	-5.56	7.89	7.89	224.81	57.30
8641.00	28.65	224.81	8638.94	4580.94	-8.69	-8.63	12.24	12.24	224.81	57.30
8651.00	34.38	224.81	8647.46	4589.46	-12.39	-12.31	17.47	17.47	224.81	57.30
8661.00	40.11	224.81	8655.42	4597.42	-16.68	-16.57	23.52	23.52	224.81	57.30
57.3 DEG/100'										
8671.00	45.84	224.81	8662.73	4604.73	-21.52	-21.38	30.33	30.33	224.81	57.30
8681.00	51.57	224.81	8669.33	4611.33	-26.85	-26.67	37.84	37.84	224.81	57.30
8691.00	57.30	224.81	8675.14	4617.14	-32.62	-32.40	45.97	45.97	224.81	57.30
8701.00	63.03	224.81	8680.12	4622.12	-38.77	-38.51	54.64	54.64	224.81	57.30
8711.00	68.76	224.81	8684.20	4626.20	-45.24	-44.94	63.77	63.77	224.81	57.30

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth FT	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
8721.00	74.49	224.81	8687.35	4629.35	-51.97	-51.63	73.25	73.25	224.81	57.30
8731.00	80.22	224.81	8689.54	4631.54	-58.89	-58.50	83.01	83.01	224.81	57.30
END OF BUILD										
8737.00	83.66	224.81	8690.38	4632.38	-63.10	-62.69	88.95	88.95	224.81	57.30
8744.33	84.76	224.81	8691.12	4633.12	-68.28	-67.83	96.24	96.24	224.81	15.00
8744.63	84.71	224.81	8691.15	4633.15	-68.49	-68.03	96.54	96.54	224.81	15.00
8844.63	84.71	224.81	8700.36	4642.36	-139.13	-138.21	196.11	196.11	224.81	.00
8944.63	84.71	224.81	8709.58	4651.58	-209.77	-208.39	295.69	295.69	224.81	.00
9044.63	84.71	224.81	8718.79	4660.79	-280.42	-278.56	395.26	395.26	224.81	.00
9144.63	84.71	224.81	8728.01	4670.01	-351.06	-348.74	494.83	494.83	224.81	.00
9220.30	84.70	224.81	8734.99	4676.99	-404.52	-401.84	570.19	570.19	224.81	.02
9230.18	86.18	224.81	8735.78	4677.78	-411.50	-408.78	580.03	580.03	224.81	15.00
9240.18	87.68	224.81	8736.31	4678.31	-418.58	-415.82	590.01	590.01	224.81	15.00
TARGET 1										
9250.18	89.18	224.81	8736.59	4678.59	-425.68	-422.86	600.01	600.01	224.81	15.00
9260.18	90.68	224.81	8736.60	4678.60	-432.77	-429.91	610.01	610.01	224.81	15.00
9270.18	92.18	224.81	8736.35	4678.35	-439.86	-436.95	620.01	620.01	224.81	15.00
9280.18	93.68	224.81	8735.84	4677.84	-446.95	-443.99	629.99	629.99	224.81	15.00
9290.18	95.18	224.81	8735.07	4677.07	-454.02	-451.02	639.96	639.96	224.81	15.00
9300.18	96.68	224.81	8734.03	4676.03	-461.08	-458.03	649.91	649.91	224.81	15.00
9310.18	98.18	224.81	8732.74	4674.74	-468.11	-465.02	659.83	659.83	224.81	15.00
9320.18	99.68	224.81	8731.19	4673.19	-475.12	-471.98	669.70	669.70	224.81	15.00
9324.93	100.39	224.81	8730.36	4672.36	-478.44	-475.28	674.38	674.38	224.81	15.00
9325.05	100.41	224.81	8730.34	4672.34	-478.52	-475.36	674.50	674.50	224.81	15.00
9425.05	100.41	224.81	8712.27	4654.27	-548.30	-544.68	772.86	772.86	224.81	.00
9525.05	100.41	224.81	8694.20	4636.20	-618.08	-613.99	871.21	871.21	224.81	.00
9625.05	100.41	224.81	8676.13	4618.13	-687.86	-683.31	969.56	969.56	224.81	.00
9725.05	100.41	224.81	8658.06	4600.06	-757.63	-752.62	1067.92	1067.92	224.81	.00
9767.63	100.41	224.81	8650.37	4592.37	-787.34	-782.14	1109.80	1109.80	224.81	.00
9768.22	100.32	224.81	8650.26	4592.26	-787.76	-782.55	1110.38	1110.38	224.81	15.00
9778.22	98.82	224.81	8648.60	4590.60	-794.75	-789.50	1120.24	1120.24	224.81	15.00
9788.22	97.32	224.81	8647.20	4589.20	-801.78	-796.48	1130.14	1130.14	224.81	15.00
9798.22	95.82	224.81	8646.05	4588.05	-808.83	-803.48	1140.08	1140.08	224.81	15.00
9808.22	94.32	224.81	8645.17	4587.17	-815.89	-810.50	1150.04	1150.04	224.81	15.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
TARGET 2										
9858.22	86.82	224.81	8644.67	4586.67	-851.34	-845.71	1200.00	1200.00	224.81	15.00
9868.22	85.32	224.81	8645.36	4587.36	-858.41	-852.74	1209.98	1209.98	224.81	15.00
9878.22	83.82	224.81	8646.30	4588.30	-865.48	-859.76	1219.93	1219.93	224.81	15.00
9888.22	82.32	224.81	8647.51	4589.51	-872.52	-866.75	1229.86	1229.86	224.81	15.00
9898.22	80.82	224.81	8648.97	4590.97	-879.54	-873.72	1239.75	1239.75	224.81	15.00
9908.22	79.32	224.81	8650.70	4592.70	-886.53	-880.67	1249.60	1249.60	224.81	15.00
9918.22	77.82	224.81	8652.68	4594.68	-893.48	-887.57	1259.40	1259.40	224.81	15.00
9928.22	76.32	224.81	8654.92	4596.92	-900.39	-894.44	1269.15	1269.15	224.81	15.00
9932.22	75.72	224.81	8655.88	4597.88	-903.14	-897.17	1273.02	1273.02	224.81	15.00
10032.22	75.72	224.81	8680.55	4622.55	-971.90	-965.47	1369.93	1369.93	224.81	15.00
10132.22	75.72	224.81	8705.21	4647.21	-1040.65	-1033.77	1466.85	1466.85	224.81	00
10232.22	75.72	224.81	8729.88	4671.88	-1109.40	-1102.07	1563.76	1563.76	224.81	00
10332.22	75.72	224.81	8754.54	4696.54	-1178.16	-1170.37	1660.67	1660.67	224.81	00
10432.22	75.72	224.81	8779.20	4721.20	-1246.91	-1238.67	1757.58	1757.58	224.81	00
TARGET 3										
10475.99	75.72	224.81	8790.00	4732.00	-1277.01	-1268.56	1800.00	1800.00	224.81	00