

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-101

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. P.O. Box 3109, Midland Texas 79702		² OGRID Number 022351
⁴ Property Code 11130- 11131		⁵ Property Name C. H. WEIR 'A'
		³ API Number 30-025-34086
		⁶ Well No. 20

⁷ Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
F	12	20-S	37-E		2510	NORTH	2225	WEST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
F	12	20-S	37-E		2630	NORTH	2575	WEST	LEA

⁹ Proposed Pool 1

WILDCAT: ELLENBURGER, SILURIAN, PENN

¹⁰ Proposed Pool 2

WARREN McKEE / SKAGGS DRINKARD

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3559'
¹⁶ Multiple No	¹⁷ Proposed Depth 10000	¹⁸ Formation ELLEN/PENN/SIL	¹⁹ Contractor NABORS	²⁰ Spud Date 6/15/97

²¹ Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	9 5/8	36#	1400'	600 SACKS	SURFACE
8 3/4	7	23#	7500'	1300 SACKS	1000'
6 1/8	5 1/2 LINER	17#	10000'	200 SACKS	TOL @ 7200'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

CEMENTING PROGRAM:

SURFACE CASING: 400 SACKS CLASS C w/ 4% GEL, 2% CC (13.5 PPG, 1.74 CF/S, 9.1 GW/S). F/B 200 SACKS CLASS C w/ 2% CC (14.8 PPG, 1.34 CF/S, 6.3 GW/S).

PRODUCTION CASING: 1st STG - 600 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FC (14.2 PPG, 1.35 CF/S, 6.3 GW/S).

DV TOOL @ 5200': 2nd STG - 600 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FC (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

LINER: 200 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FC (14.2 PPG, 1.35 CF/S, 6.3 GW/S).

APPROVAL TO DIRECTIONALLY DRILL AT UNORTHODOX LOCATION HAS BEEN APPLIED FOR. (COPY ATTACHED)

²³ I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature

C. Wade Howard

Printed Name

C. Wade Howard

Title

Eng. Assistant

Date

5/21/97

Telephone

688-4606

OIL CONSERVATION DIVISION

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

Approved By:

Title:

Approval Date: AUG 14 1997

Expiration Date:

Conditions of Approval:

Attached ☐

Verbal approval m.s. 8-14-97

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease-4 copies
Fee Lease-3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

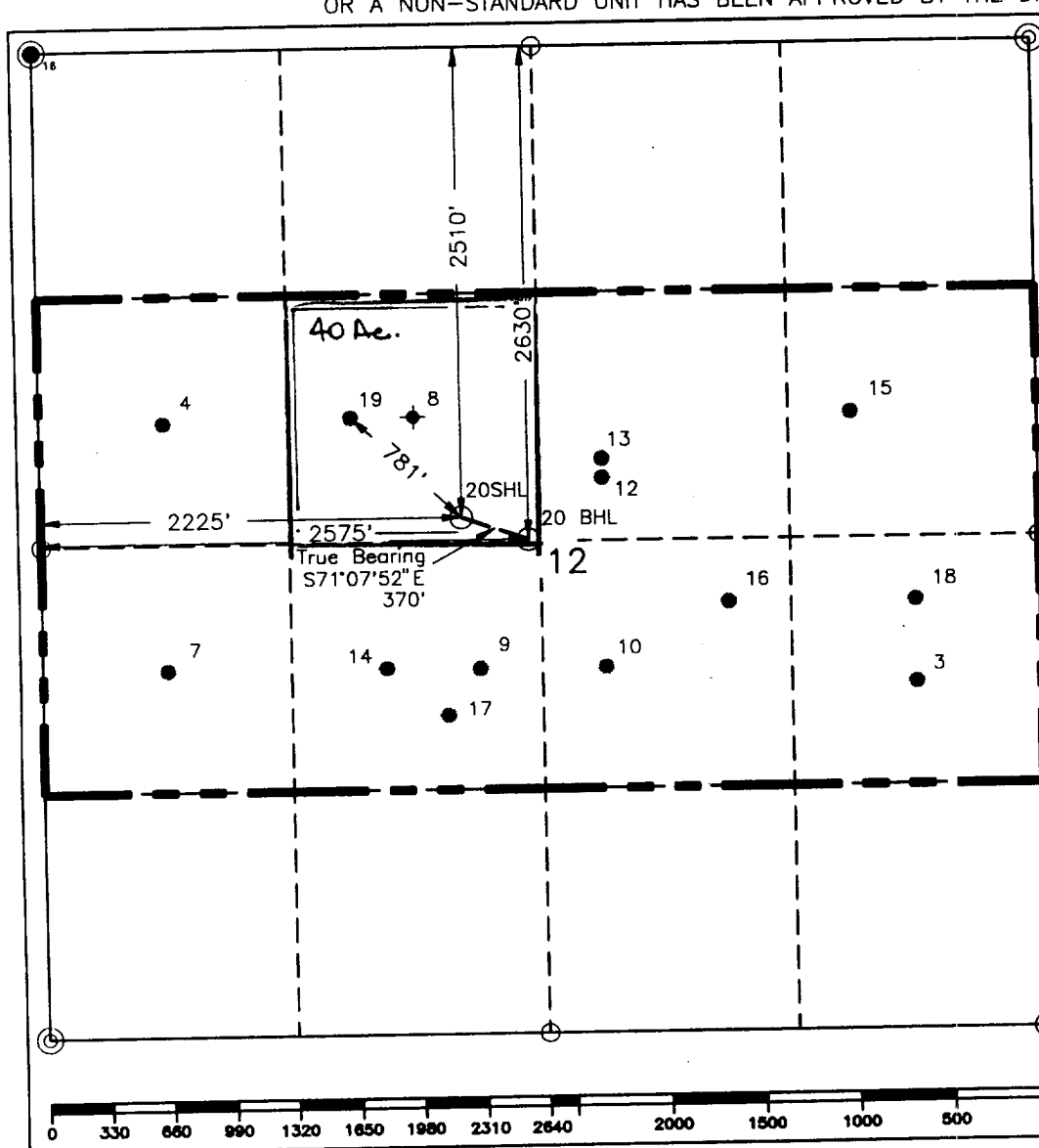
¹ API Number 30-025-34096		² Pool Code		³ Pool Name Wildcat Ellenburger; Warren McKee; Wildcat Silurian; Wildcat Penn; Skaggs Drinkard	
⁴ Property Code 11130		⁵ Property Name C. H. Weir "A"			⁶ Well Number 20
⁷ OGRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			⁹ Elevation 3559'

¹⁰ Surface Location									
UL or lot no. F	Section 12	Township 20-S	Range 37-E	Lot Idn	Feet from the 2510'	North/South line North	Feet from the 2225'	East/West line West	⁷ County Lea

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. F	Section 12	Township 20-S	Range 37-E	Lot Idn	Feet from the 2630'	North/South line North	Feet from the 2575'	East/West line West	⁷ County Lea

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



¹⁶ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

C. Wade Howard

Printed Name

C. Wade Howard

Position

Engineer's Assistant

Company

Texaco Expl. & Prod. Inc.

Date

March 14, 1997

¹⁷ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

March 4, 1997

Signature & Seal of Professional Surveyor

John S. Piper

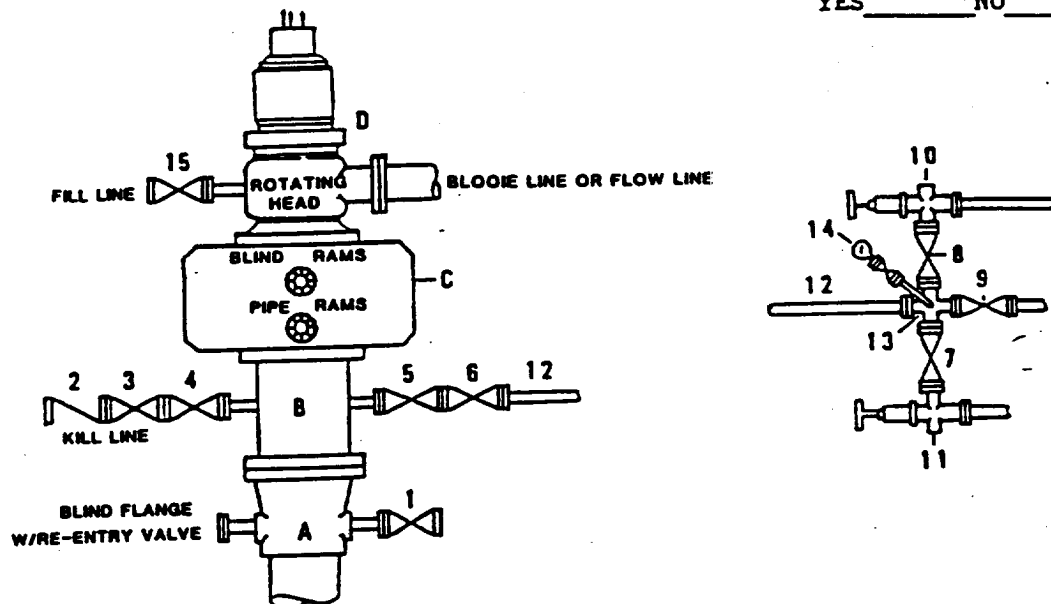
Certificate No.

7254 John S. Piper

Sheet

**DRILLING CONTROL
CONDITION II-B 3000 WP
FOR AIR DRILLING OR
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED**

H₂S TRIM REQUIRED
YES _____ NO _____



**DRILLING CONTROL
MATERIAL LIST - CONDITION II - B**

- | | |
|----------------|---|
| A | Texaco Wellhead |
| B | 3000# W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line. |
| C | 3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where sub-structure height is adequate, 2 - 3000# W.P. single ram type preventers may be utilized). |
| D | Rotating Head with fill up outlet and extended Bloop Line. |
| 1,3,4,
7,8, | 2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 2 | 2" minimum 3000# W.P. back pressure valve. |
| 5,6,9 | 3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 12 | 3" minimum schedule 80, Grade "B", seamless line pipe. |
| 13 | 2" minimum x 3" minimum 3000# W.P. flanged cross. |
| 10,11 | 2" minimum 3000# W.P. adjustable choke bodies. |
| 14 | Cameron Mud Gauge or equivalent (location optional in choke line). |
| 15 | 2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve. |



TEXACO, INC.
MIDLAND DIVISION
MIDLAND, TEXAS



SCALE	DATE	EST NO	ORG NO
DRAWN BY			
CHECKED BY			
APPROVED BY			

EXHIBIT C

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☒ NSL ☐ NSP ☒ DD ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

C. WADE HOWARD
 Print or Type Name

C. Wade Howard
 Signature

ENGINEER ASSISTANT
 Title

4/23/97
 Date



Texaco Exploration
and Production Inc

500 North Lora ne
Midland TX 79701

P O Box 3109
Midland TX 79702

April 16, 1997

GOV - STATE AND LOCAL GOVERNMENTS

Directional Drilling
Unorthodox Location
C. H. Weir "A" Well No. 20
Wildcat Ellenburger, Silurian, Penn,
Warren McKee, Skaggs Drinkard Fields
Lea County, New Mexico

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Attention: Mr. Michael E. Stogner

Gentlemen:

Administrative approval, Rule 111 c.2 and Rule 104 F. (2), is requested to directionally drill the captioned well to an unorthodox bottomhole location.

This well must be directionally drilled because surface obstructions prevented staking it at the proposed bottomhole location. There were two Powerlines and one Pipeline which prevented staking at the proposed bottomhole location.

The bottomhole must be drilled in this location due to geological conditions.

As seen on the attached maps, this location is on the crest of the McKee structure and approximately equidistant to the offsetting 40 Acre Drinkard producers. The proposed location will minimize the risk of encountering the McKee structurally low and nonproductive. In addition, the proposed location will encounter laterally discontinuous reservoirs in the Drinkard that can not be depleted from existing wellbores. Attached for your information is a copy of our directional plans, a type log section, maps, and Form C-102.

The "affected" offset operators to this well have been notified of this request (see attached offset operator's list and certified mail receipts).

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:

CC: NMOCD, P. O. Box 1980, Hobbs, NM 88240

Attachments

DISTRICT I
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DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

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Energy, Minerals and Natural Resources Department

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WELL LOCATION AND ACREAGE DEDICATION PLAT

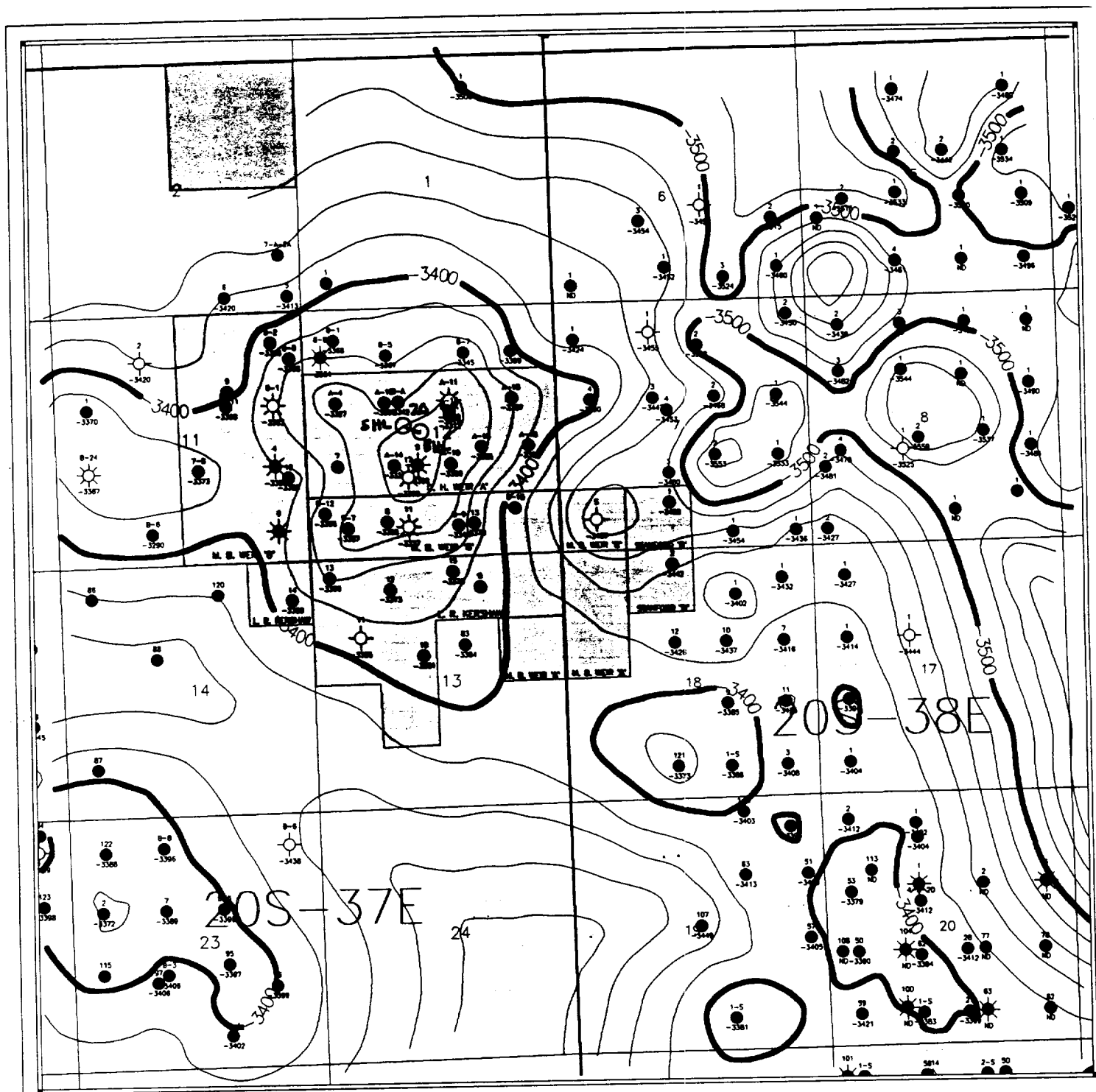
1 API Number		2 Pool Code		3 Pool Name	
				Wildcat Ellenburger; Warren McKee; Wildcat Sikurian; Wildcat Penn; Skaggs Drinkard	
4 Property Code		5 Property Name			6 Well Number
11130		C. H. Weir "A"			20
7 OGRID No.		8 Operator Name			9 Elevation
22351		TEXACO EXPLORATION & PRODUCTION, INC.			3559'

10 Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	7 County
F	12	20-S	37-E		2510'	North	2225'	West	Lea

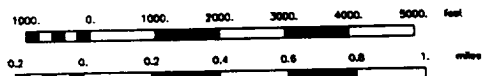
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	7 County
F	12	20-S	37-E		2630'	North	2575'	West	Lea
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			
40									

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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.

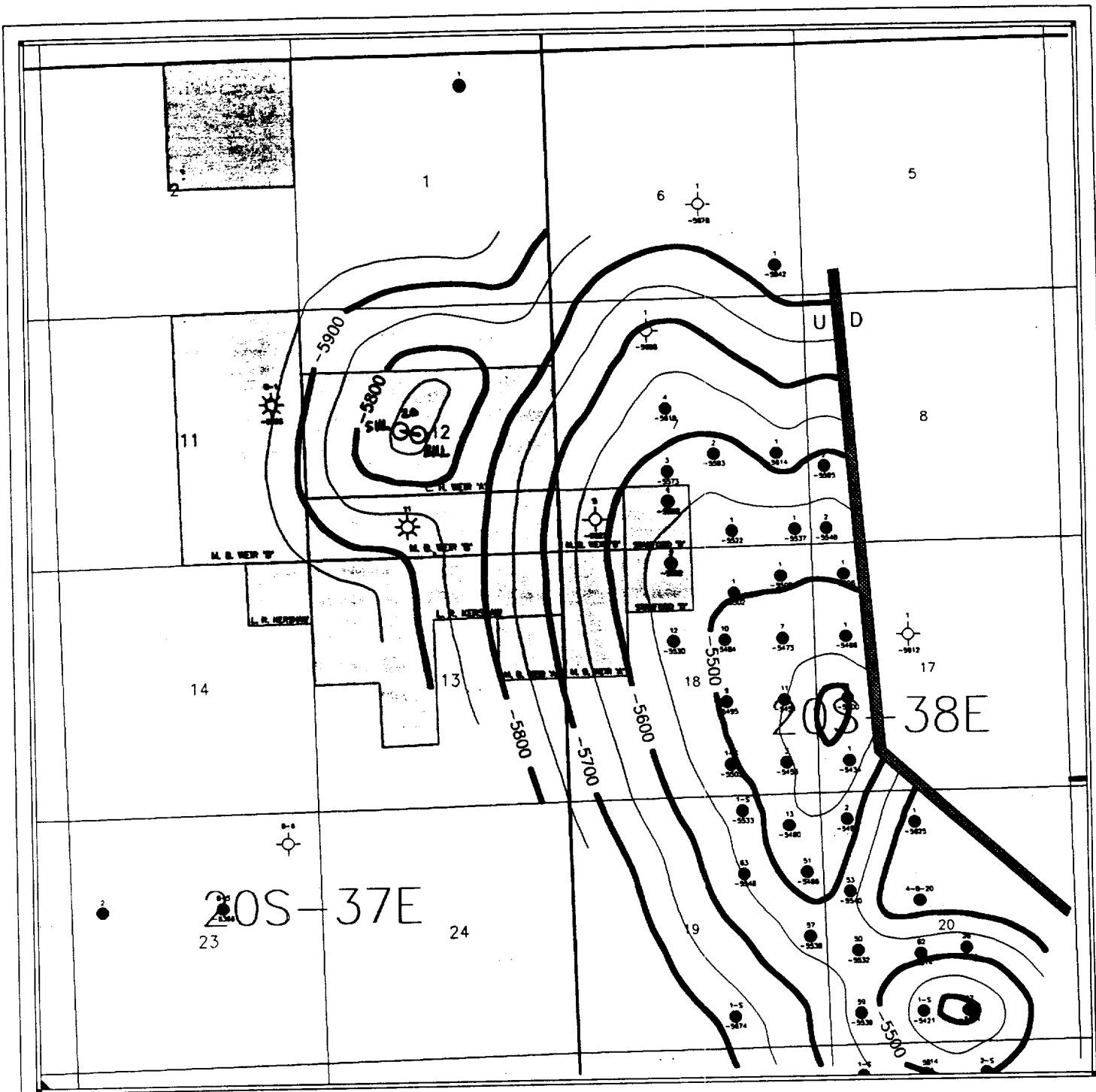
	16 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
	Signature <i>C. Wade Howard</i>	
	Printed Name C. Wade Howard	
	Position Engineer's Assistant	
	Company Texaco Expl. & Prod. Inc.	
Date March 14, 1997		
17 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.		
Date Surveyed March 4, 1997		
Signature & Seal of Professional Surveyor <i>John S. Piper</i>		
Certificate No. 7254 John S. Piper		
Sheet		



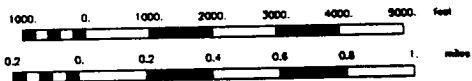
Scale 1:36072.38



Texaco Exploration & Production, Inc.		
SKAGGS FIELD AREA		
STRUCTURE - TOP OF ABO		
Scale: Contour	Scale: 1:36072.38	4/14/77
0 - 25'		



Scale 1:36804.02



Texaco Exploration & Production, Inc.		
SKAGGS - WARREN FIELD AREA STRUCTURE - TOP OF MCKEE		
Scale: Feet		4/10/77
0 = 1"	Scale: 1:36804.02	



Texaco Exploration
and Production Inc

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

April 16, 1997

GOV - STATE AND LOCAL GOVERNMENTS
Directional Drilling
Unorthodox Location
C. H. Weir "A" Well No. 20
Sec. 12, T-20-S, R-37-E
Lea County, New Mexico

TO THE OFFSET OPERATORS:

Gentlemen:

As an offset operator to the captioned Lease, you are being furnished with a copy of our Application to directionally drill this well to an unorthodox bottom hole location. 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. W. Howard
Engineer Assistant

CWH:cwh

File

WAIVER APPROVED:

COMPANY: _____

BY: _____

DATE: _____

**OFFSET OPERATOR'S LIST
C. H. Weir "A" Well No. 20
LEA COUNTY, NEW MEXICO**

**Chevron USA Inc.
P. O. Box 1150
Midland, Texas 79702**

**Amoco Production Company
P. O. Box 3092
Houston, Texas 77253**

**Conoco Inc.
10 Desta Dr., Suite 100W
Midland, Texas 79705**

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

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete Items 1 and/or 2 for additional services.
- Complete Items 3, 4a, and 4b.
- 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):

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

Consult postmaster for fee.

3. Article Addressed to:

Chevron USA Inc..
P. O. Box 1150
Midland, TX 79702

4a. Article Number

P 497 362 879

4b. Service Type

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

7. Date of Delivery

APR 17 1997

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

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

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete Items 1 and/or 2 for additional services.
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I also wish to receive the following services (for an extra fee):

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

Consult postmaster for fee.

3. Article Addressed to:

Amoco Production Co.
P. O. Box 3092
Houston, TX 77253

4a. Article Number

P 497 362 875

4b. Service Type

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

7. Date of Delivery

APR 21 1997

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)


Chuck Martin

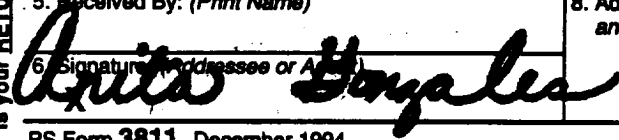
8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

Domestic Return Receipt

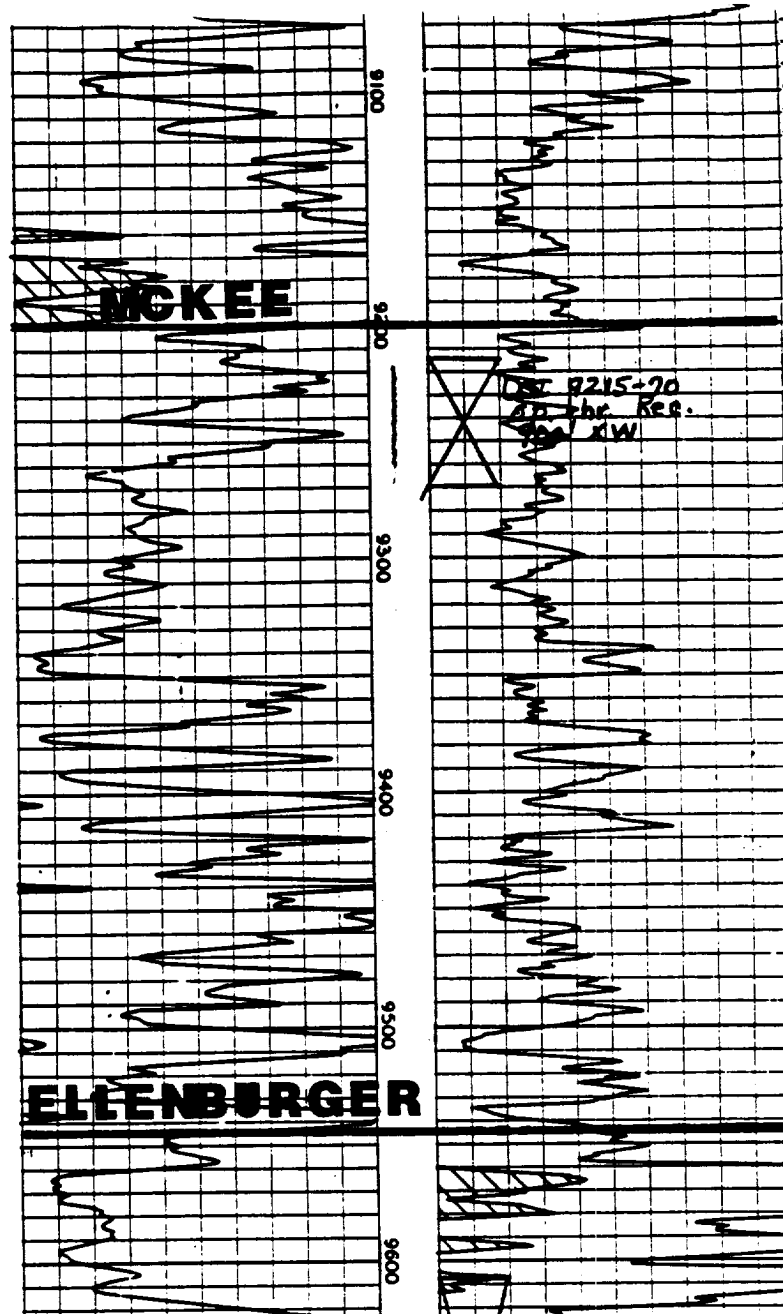
Thank you for using Return Receipt Service.

SENDER: ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ 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): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Atlantic Richfield Co. P. O. Box 1610 Midland, TX 79702		4a. Article Number P 497 362 880	
		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
		7. Date of Delivery APR 17 1997	
5. Received By: (Print Name) 		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X			
PS Form 3811, December 1994		Domestic Return Receipt	

SENDER: ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ 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): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705		4a. Article Number P 497 362 878	
		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
		7. Date of Delivery 4-17-97	
5. Received By: (Print Name) 		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent)			
PS Form 3811, December 1994		Domestic Return Receipt	

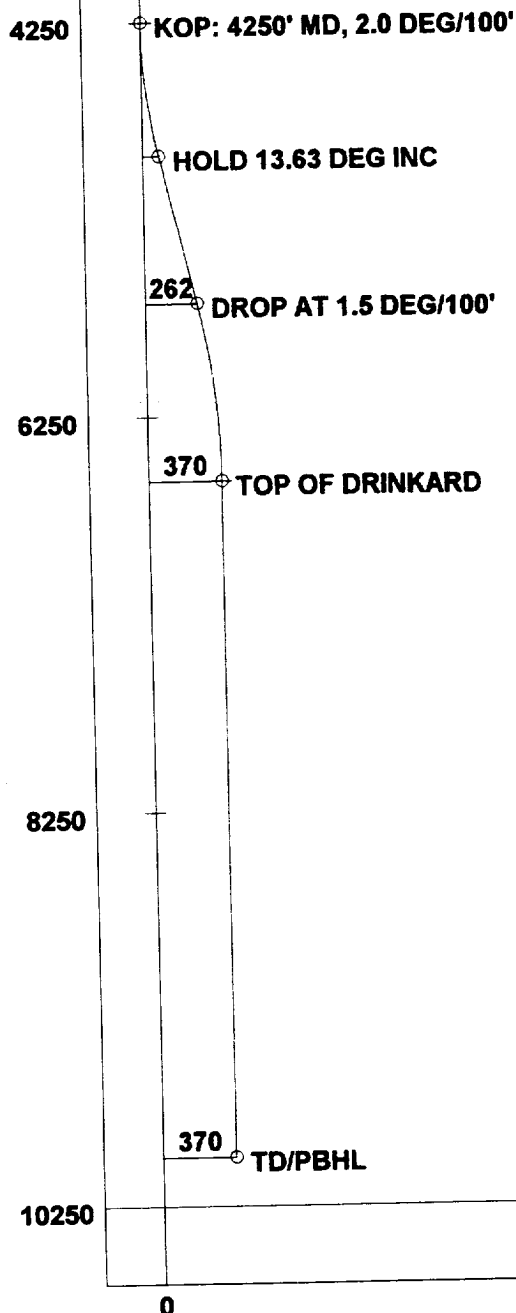
TYPE LOG

CONOCO
SEMU BURGER NO. 5A
SEC. 19, T20S, R38E

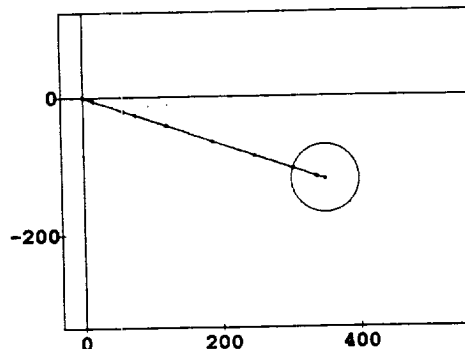


Job Number: P97-175
 Company: TEXACO E & P, INC.
 Lease/Well: C. H. WEIR A #20
 Location: LEA COUNTY, NEW MEXICO
 File name: C:\WINSERVE\CHWEIR20.SVY
 Date/Time: Wednesday, April 09, 1997

TRUE VERTICAL DEPTH (Ft)



NORTH - SOUTH (Ft)



EAST-WEST (Ft)

CRITICAL POINTS

MD	INC	AEI	TVD	N-S	E-W
KOP: 4250' MD, 2.0 DEG/100'					
4250.00	.00	0	4250.00	.00	.00
HOLD 13.63 DEG INC					
4931.29	13.63	108.92	4924.88	-26.15	76.27
DROP AT 1.5 DEG/100'					
5703.29	13.63	108.92	5675.16	-85.13	248.31
TOP OF DRINKARD					
6611.67	.00	108.92	6575.00	-120.00	350.00
TD/PBHL					
10036.67	.00	108.92	10000.00	-120.00	350.00

○ - S-SHAPED WELL PATH

VERTICAL SECTION (Ft) @ 108.92°



Job Number: P97-175

Company: TEXACO E & P, INC.

Lease/Well: C. H. WEIR A #20

Location: LEA COUNTY, NEW MEXICO

Rig Name:

RKB:

G.L. or M.S.L.:

State/Country:

Declination:

Grid:

File name: C:\WINSERVE\CHWEIR20.SVY

Date/Time: 09-Apr-97 / 19:57

Curve Name: S-SHAPED WELL PATH

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 108.92

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: 4250' MD, 2.0 DEG/100'										
4250.00	.00	.00	4250.00	675.00	.00	.00	.00	.00	.00	.00
4350.00	2.00	108.92	4349.98	774.98	-.57	1.65	1.75	1.75	108.92	2.00
4450.00	4.00	108.92	4449.84	874.84	-2.26	6.60	6.98	6.98	108.92	2.00
4550.00	6.00	108.92	4549.45	974.45	-5.09	14.85	15.69	15.69	108.92	2.00
4650.00	8.00	108.92	4648.70	1073.70	-9.04	26.37	27.88	27.88	108.92	2.00
4750.00	10.00	108.92	4747.47	1172.47	-14.12	41.17	43.52	43.52	108.92	2.00
4850.00	12.00	108.92	4845.62	1270.62	-20.30	59.22	62.60	62.60	108.92	2.00
HOLD 13.63 DEG INC										
4931.29	13.63	108.92	4924.88	1349.88	-26.15	76.27	80.63	80.63	108.92	2.00
5031.29	13.63	108.92	5022.07	1447.07	-33.79	98.55	104.19	104.19	108.92	.00
5131.29	13.63	108.92	5119.25	1544.25	-41.43	120.84	127.74	127.74	108.92	.00
5231.29	13.63	108.92	5216.44	1641.44	-49.07	143.12	151.30	151.30	108.92	.00
5331.29	13.63	108.92	5313.62	1738.62	-56.71	165.41	174.86	174.86	108.92	.00
5431.29	13.63	108.92	5410.81	1835.81	-64.35	187.69	198.42	198.42	108.92	.00
5531.29	13.63	108.92	5508.00	1933.00	-71.99	209.98	221.98	221.98	108.92	.00
5631.29	13.63	108.92	5605.18	2030.18	-79.63	232.26	245.53	245.53	108.92	.00
DROP AT 1.5 DEG/100'										
5703.29	13.63	108.92	5675.16	2100.16	-85.13	248.31	262.50	262.50	108.92	.00
5803.29	12.13	108.92	5772.64	2197.64	-92.36	269.39	284.78	284.78	108.92	1.50
5903.29	10.63	108.92	5870.67	2295.67	-98.76	288.04	304.50	304.50	108.92	1.50
6003.29	9.13	108.92	5969.19	2394.19	-104.32	304.27	321.65	321.65	108.92	1.50
6103.29	7.63	108.92	6068.12	2493.12	-109.04	318.04	336.22	336.22	108.92	1.50
6203.29	6.13	108.92	6167.40	2592.40	-112.93	329.37	348.19	348.19	108.92	1.50

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
6303.29	4.63	108.92	6266.95	2691.95	-115.96	338.23	357.56	357.56	108.92	1.50
6403.29	3.13	108.92	6366.72	2791.72	-118.16	344.62	364.32	364.32	108.92	1.50
6503.29	1.63	108.92	6466.63	2891.63	-119.50	348.55	368.46	368.46	108.92	1.50
6603.29	.13	108.92	6566.62	2991.62	-120.00	349.99	369.99	369.99	108.92	1.50
TOP OF DRINKARD										
6611.67	.00	108.92	6575.00	3000.00	-120.00	350.00	370.00	370.00	108.92	1.50
7111.67	.00	108.92	7075.00	3500.00	-120.00	350.00	370.00	370.00	108.92	.00
7611.67	.00	108.92	7575.00	4000.00	-120.00	350.00	370.00	370.00	108.92	.00
8111.67	.00	108.92	8075.00	4500.00	-120.00	350.00	370.00	370.00	108.92	.00
8611.67	.00	108.92	8575.00	5000.00	-120.00	350.00	370.00	370.00	108.92	.00
9111.67	.00	108.92	9075.00	5500.00	-120.00	350.00	370.00	370.00	108.92	.00
9611.67	.00	108.92	9575.00	6000.00	-120.00	350.00	370.00	370.00	108.92	.00
TD/PBHL										
10036.67	.00	108.92	10000.00	6425.00	-120.00	350.00	370.00	370.00	108.92	.00

11/7/17
12/20/17