September 16, 1997

Texaco Exploration & Production Inc. P. O. Box 3109
Midland, Texas 79702
Attention: C. Wade Howard

Administrative Order DD-199(NSBHL)(SD)

Dear Mr. Howard:

Reference is made to your application dated April 16, 1997 for authorization to directional drill the C. H. Weir "A" Well No. 20 (API No. 30-025-34096), Lea County, New Mexico to a pre-determined subsurface unorthodox oil well location within a standard 40-acre oil spacing and proration unit for any formations and/or pools developed on 40-acre spacing from the top of the Drinkard formation to the base of the Ellenburger formation, which presently includes but is not necessarily limited to the Skaggs-Drinkard and Undesignated Warren-McKee Pools.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of:
 - (a) Rule 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11274 on June 13, 1995; and,
 - (b) Rule 104.F of said Division general rules;
- It is the Division's understanding that Texaco Exploration and Production Inc. ("Texaco") intends to place its C. H. Weir "A" Well No. 20 (API No. 30-025-34096) at a surface location 2510 feet from the North line and 2225 feet from the West line (Unit F) of Section 12, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, drill vertically to an approximate depth of 4,250 feet, kick-off in an east-southeasterly direction, drill directionally in such a manner as to allow the wellbore to penetrate that interval from the top of the Skaggs-Drinkard Pool to the base of the Ellenburger formation at a targeted unorthodox subsurface oil well location that is approximately 2630 feet from the North line and 2575 feet from the West line (Unit F) of said Section 12;
- (3) Within the SE/4 NW/4 (Unit F) of said Section 12, all intervals from the top of the Drinkard formation to the base of the Ellenburger formation, which includes the Skaggs-Drinkard and Undesignated Warren-McKee Pools, are all currently subject to the statewide

rules and regulations, as promulgated by Rule 104.C(1)(a), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of a single 40-acre oil spacing and proration unit:

- (4) According to the application, the C. H. Weir "A" fee lease comprises an area that includes the S/2 N/2 and N/2 S/2 of said Section 12 and is operated by Texaco; therefore, there are no affected offsets to the subject 40-acre tract other than Texaco;
- (5) Within the 160 acres that comprises the SW/4 NE/4, SE/4 NW/4, NE/4 SW/4, and NW/4 SE/4 of said Section 12, Texaco is currently developing the Skaggs-Drinkard Pool in the following manner:
 - (a) the SW/4 NE/4 (Unit G) of said Section 12, being a standard 40-acre oil spacing and proration unit, is dedicated to Texaco's C. H. Weir "A" Well No. 12 (API No. 30-025-27398), located at a standard oil well location 2307 feet from the North and East lines of said Section 12;
 - (b) the SE/4 NW/4 (Unit F) of said Section 12, being a standard 40-acre oil spacing and proration unit, is dedicated to Texaco's C. H. Weir "A" Well No. 19 (API No. 30-025-29686), located at a standard oil well location 1980 feet from the North line and 1651 feet from the West line of said Section 12;
 - (c) the NW/4 SE/4 (Unit J) of said Section 12, being a standard 40-acre oil spacing and proration unit, is simultaneously dedicated to Texaco's:
 - (i) C. H. Weir "A" Well No. 10 (API No. 30-025-20964), located at a standard oil well location 1980 feet from the South line and 2306 feet from the East line of said Section 12; and,
 - (ii) C. H. Weir "A" Well No. 16 (API No. 30-025-29207), located at a standard oil well location 2310 feet from the South line and 1650 feet from the East line of said Section 12; and,
 - (d) the NE/4 SW/4 (Unit K) of said Section 12, being

a standard 40-acre oil spacing and proration unit, is dedicated to Texaco's C. H. Weir "A" Well No. 17 (API No. 30-025-29320), located at a standard oil well location 1720 feet from the South line and 2103 feet from the West line of said Section 12;

- (6) The proposed subsurface "infill" Skaggs-Drinkard oil well location in Unit "F" of said Section 12 (2603 feet from the North line and 2225 feet from the West line), being somewhat of equidistance to all five of the above-described producing Drinkard oil wells, will enable Texaco to further develop and deplete the reserves within the aforementioned 160-acre area within its C. H. Weir "A" fee lease;
- (7) According to Texaco's geological data submitted with this application:
 - (i) a small localized anticlinal structure exists within the McKee formation in portions of the SW/4 NE/4, the SE/4 NW/4, and the NE/4 SW/4 of said Section 12; and.
 - (ii) a well drilled at the proposed subsurface unorthodox oil well location [2630 feet from the North line and 2575 feet from the West line (Unit F) of said Section 12] should intersect this structure at a point of maximum thickness within the potentially productive area, thereby increasing the likelihood of obtaining commercial oil production;
- (8) Texaco intends to test the other intervals for possible oil production with the same wellbore thereby enabling maximum utilization of the subject wellbore;
- (9) The "project area" for any and all formations and/or pools developed on 40-acre spacing from the top of the Drinkard formation to the base of the Ellenburger formation, which includes the Skaggs-Drinkard and Undesignated Warren-McKee Pools, is to consist of a single standard 40-acre oil spacing and proration unit comprising the SE/4 NW/4 (Unit F) of said Section 12 and the applicable drilling window or "producing area" for said wellbore should include that area within the SE/4 NW/4 (Unit F) of said Section 12 that:

 (i) is no closer than 330 feet to the north and west lines of said quarter-quarter section lines; (ii) nor closer than 65 to the east line; (iii) nor closer than 10 feet to the south line; and,
- (10) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E and 104.F(2), the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

Administrative Order DD-199(NSBHL)(SD) Texaco Exploration & Production Inc. September 16, 1997 Page 4

IT IS THEREFORE ORDERED THAT:

(1) Texaco Exploration and Production, Inc. ("Texaco") is hereby authorized to drill its proposed C. H. Weir "A" Well No. 20 (API No. 30-025-34096) at a surface location 2510 feet from the North line and 2225 feet from the West line (Unit F) of Section 12, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, drill vertically to an approximate depth of 4,250 feet, kick-off in an east-southeasterly direction, drill directionally in such a manner as to allow the wellbore to penetrate that interval from the top of the Skaggs-Drinkard Pool to the base of the Ellenburger formation at a targeted unorthodox subsurface oil well location that is approximately 2630 feet from the North line and 2575 feet from the West line (Unit F) of said Section 12.

<u>PROVIDED HOWEVER THAT</u> prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

<u>PROVIDED FURTHER THAT</u> during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

- (2) The applicant shall notify the supervisor of the Hobbs District office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.
- (3) For the Skaggs-Drinkard Pool the existing standard 40-acre oil spacing and proration unit comprising the SE/4 NW/4 (Unit F) of said Section 12, which is presently dedicated to Texaco's C. H. Weir "A" Well No. 19 (API No. 30-025-29686), located at a standard oil well location 1980 feet from the North line and 1651 feet from the West line of said Section 12, and said C. H. Weir "A" Well No. 20 are both to be dedicated to said well.
- (4) Further, Texaco is hereby: (i) authorized to simultaneously dedicate Skaggs-Drinkard oil production from the existing C. H. Weir "A" Well No. 19 with the proposed C. H. Weir "A" Well No. 20; and, (ii) permitted to produce the allowable assigned the subject standard 40-acre oil spacing and proration unit from both wells in any proportion.
- (5) For all other formations and/or pools developed on 40-acre spacing from the top of the Drinkard formation to the base of the Ellenburger formation, which includes the Undesignated Warren-McKee Pool, the "project area" is to consist of a single standard 40-acre oil spacing and proration unit comprising the SE/4 NW/4 (Unit F) of said Section 12 and the applicable drilling window or "producing area" for said wellbore should include that area within the SE/4 NW/4 (Unit F) of said Section 12.
- (6) The applicable drilling window or "producing area" for said wellbore should include that area within the SE/4 NW/4 (Unit F) of said Section 12 that: (i) is no closer than 330 feet to the north and west lines of said quarter-quarter section lines; (ii) nor closer than 65 to the east line; (iii) nor closer than

10 feet to the south line.

- (7) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F.
- (8) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth (TVD) in addition to measured vertical depth (MVD).
- (9) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WIŁŁIAM J. LEMAY

Director

SEAL

cc: Oil Conservation Division - Hobbs
Texaco Exploration & Production Inc. - Denver, Colorado

NSBHL. TEX

Rec: 4/25/97 Sup: 5/15/97 Released: 9-16-97



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

Attention: C. Wade Howard

| | | | Administrative Order DD-***(NSBHL)(SD)

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The Division Director Finds That:

- (1) The application has been duly filed under the provisions of:
 - (a) Rule 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995; and,
 - (b) Rule 104.F of said Division general rules;
- (2) It is the Division's understanding that Texaco Exploration and Production Inc. ("Texaco") intents to place its C. H. Weir "A" Well No. 20 (API No. 30-025-34096) at a surface location 2510 feet from the North line and 2225 feet from the West line (Unit F) of Section 12, Township 20 South, Range 37 East, NMPM,

Lea County, New Mexico, drill vertically to an approximate depth of 4,250 feet, kick-off in an east-southeasterly direction, drill directionally in such a manner as to allow the wellbore to penetrate that interval from the top of the Skaggs-Drinkard Pool to the base of the Ellenburger formation at a targeted unorthodox subsurface oil well location that is approximately 2630 feet from the North line and 2575 feet from the West line (Unit F) of said Section 12;

- (3) Within the SE/4 NW/4 (Unit F) of said Section 12, all intervals from the top of the Drinkard formation to the base of the Ellenburger formation, which includes the Skaggs-Drinkard and Undesignated Warren-McKee Pools, are all currently subject to the statewide rules and regulations, as promulgated by Rule 104.C(1)(a), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of a single 40-acre oil spacing and proration unit;
- (4) According to the application, the C. H. Weir "A" fee lease comprises an area that includes the S/2 N/2 and N/2 S/2 of said Section 12 and is operated by Texaco; therefore, there are no effected offsets to the subject 40-acre tract other than Texaco;
- Within the 160 acres that comprises the SW/4 NE/4 SE/4 NW/4, NE/4 SW/4, and NW/4 SE/4 of said Section 12, Texaco is currently developing the Skaggs-Drinkard Pool in the following manner:
 - (a) the SW/4 NE/4 (Unit G) of said Section 12, being a standard 40-acre oil spacing and proration unit, is dedicated to Texaco's C. H. Weir "A" Well No. 12 (API No. 30-025-27398), located at a standard oil well location 2307 feet from the North and East lines of said Section 12;
 - (b) the SE/4 NW/4 (Unit F) of said Section 12, being a standard 40-acre oil spacing and proration unit, is dedicated to Texaco's C. H. Weir "A" Well No. 19 (API No. 30-025-29686), located at a standard oil well location 1980 feet from the North line and 1651 feet from the West line of said Section 12;
 - (c) the NW/4 SE/4 (Unit J) of said Section 12, being a standard 40-acre oil spacing and proration unit, is simultaneously dedicated to Texaco's:
 - (i) C. H. Weir "A" Well No. 10 (API No. 30-025-20964), located at a standard oil well location 1980 feet

from the South line and 2306 feet from the East line of said Section 12; and,

- (ii) C. H. Weir "A" Well No. 16 (API No. 30-025-29207), located at a standard oil well location 2310 feet from the South line and 1650 feet from the East line of said Section 12; and.
- (d) the NE/4 SW/4 (Unit K) of said Section 12, being a standard 40-acre oil spacing and proration unit, is dedicated to Texaco's C. H. Weir "A" Well No. 17 (API No. 30-025-29320), located at a standard oil well location 1720 feet from the South line and 2103 feet from the West line of said Section 12:
- (6) The proposed subsurface "infill" Skaggs-Drinkard oil well location in Unit "F" of said Section 12 (2603 feet from the North line and 2225 feet from the West line), being somewhat of equidistance to all five of the above-described producing Drinkard oil wells, will enable Texaco to further develop and deplete the reserves within the aforementioned 160-acre area within its C. H. Weir "A" fee lease;
- (7) According to Texaco's geological data submitted with this application:
 - (i) a small localized anticlinal structure exists within the McKee formation in portions of the SW/4 NE/4, the SE/4 NW/4, and the NE/4 SW/4 of said Section 12; and,
 - (ii) a well drilled at the proposed subsurface unorthodox oil well location [2630 feet from the North line and 2575 feet from the West line (Unit F) of said Section 12] should intersect this structure at a point of maximum thickness within the potentially productive area, thereby increasing the likelihood of obtaining commercial oil production;
- (8) Texaco interest to test the other intervals for possible oil production with the same wellbore thereby enabling maximum utilization of the subject wellbore;
- (9) The "project area" for any and all formations and/or pools developed on 40-acre spacing from the top of the Drinkard formation to the base of the Ellenburger formation, which includes the Skaggs-Drinkard and Undesignated Warren-McKee

Pools, is to consist of a single standard 40-acre oil spacing and proration unit comprising the SE/4 NW/4 (Unit F) of said Section 12 and the applicable drilling window or "producing area" for said wellbore should include that area within the SE/4 NW/4 (Unit F) of said Section 12 that: (i) is no closer than 330 feet to the north and west lines of said quarter-quarter section lines; (ii) nor closer than 65 to the east line; (iii) nor closer than 10 feet to the south line; and,

(10) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E and 104.F(2), the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

(1) Texaco Exploration and Production, Inc. ("Texaco") is hereby authorized to drill its proposed C. H. Weir "A" Well No. 20 (API No. 30-025-34096) at a surface location 2510 feet from the North line and 2225 feet from the West line (Unit F) of Section 12, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, drill vertically to an approximate depth of 4,250 feet, kick-off in an east-southeasterly direction, drill directionally in such a manner as to allow the wellbore to penetrate that interval from the top of the Skaggs-Drinkard Pool to the base of the Ellenburger formation at a targeted unorthodox subsurface oil well location that is approximately 2630 feet from the North line and 2575 feet from the West line (Unit F) of said Section 12.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

<u>PROVIDED FURTHER THAT</u> during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

- (2) The applicant shall notify the supervisor of the Hobbs District office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.
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- (7) The operator shall comply with all requirements and conditions set forth in **Division General Rule 111.E(2)** and any applicable requirements in **111.D** and **F**.
- (8) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth (TVD) in addition to measured/depth (MVD).
- (9) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY Director

SEAL

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cc: Oil Conservation Division - Hobbs
Texaco Exploration & Production Inc. - Denver, Colorado \$020 / f. 0. Box 2100

god be could

= 4/25/97 | 5/15/97 | MS | KV | DD

ABOVE THIS LINE FOR DIVISION USE ONLY

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

Applica	[P	(NSP-Non-Standar (DD-Direction) Downhole Commingling) C-Pool Commingling) [(WFX-Waterflood Ex (SWD-Salt Water Qualified Enhanced Oil F	nal Drilling) [i [CTB-Lease (OLS - Off-Lease pansion] [PM er Disposal] [l	SD-Simulta Comminglin Storage] X-Pressure PI-Injectior	neous Dedica g] [PLC-Po [OLM-Off-La Maintenanca n Pressure In	ation) pol/Lease Commingling) pase Measurement] p Expansion] crease]
[1]	TYPE OF AI	PPLICATION - Chec Location - Spacing U NSL NSP	Jnit - Directio			APR 25 1997
	Check [B]	One Only for [B] or Commingling - Store DHC CTB		ement PC	OLS	O"CERVATION DIVISION
	[C]	Injection - Disposal WFX PMX	_		hanced Oil DEOR	Recovery PPR
[2]	NOTIFICAT [A]	TION REQUIRED TO Working, Royalty				1.50
	[B]	Offset Operators,	Leaseholders	or Surfac	e Owner	tot of the
	[C]	☐ Application is On	e Which Requ	uires Publi	ished Legal	Notice of Mentings

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

☐ Waivers are Attached

☐ Notification and/or Concurrent Approval by BLM or SLO

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

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

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

[D]

[E]

[F]

C Wad Hower

ENGINEER ASSISTANT

4/23/97 Date



Texaco Exploration and Production Inc

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,

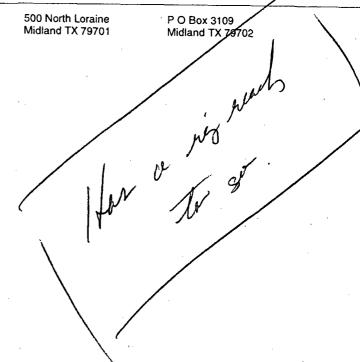
howood show. 5

C. W. Howard Engineer's Assistant

CWH:

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

Attachments



DISTRICT 1 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

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

DISTRICT IV

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

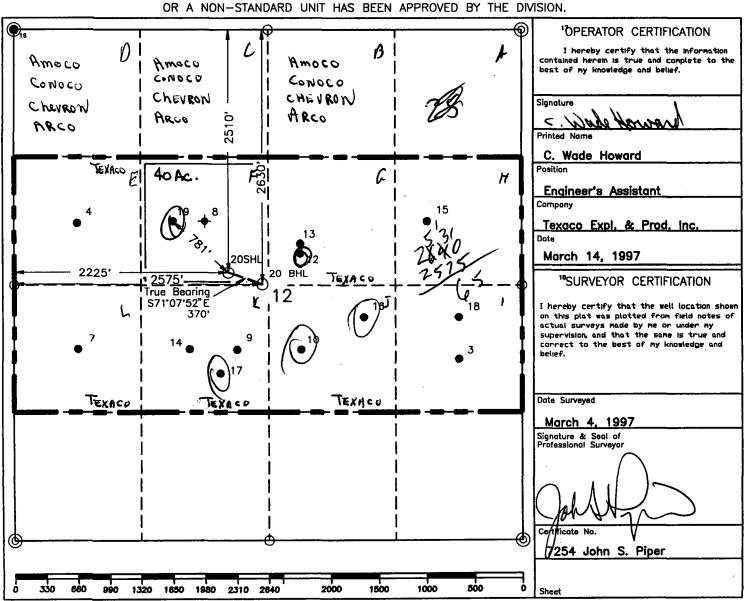
WELL

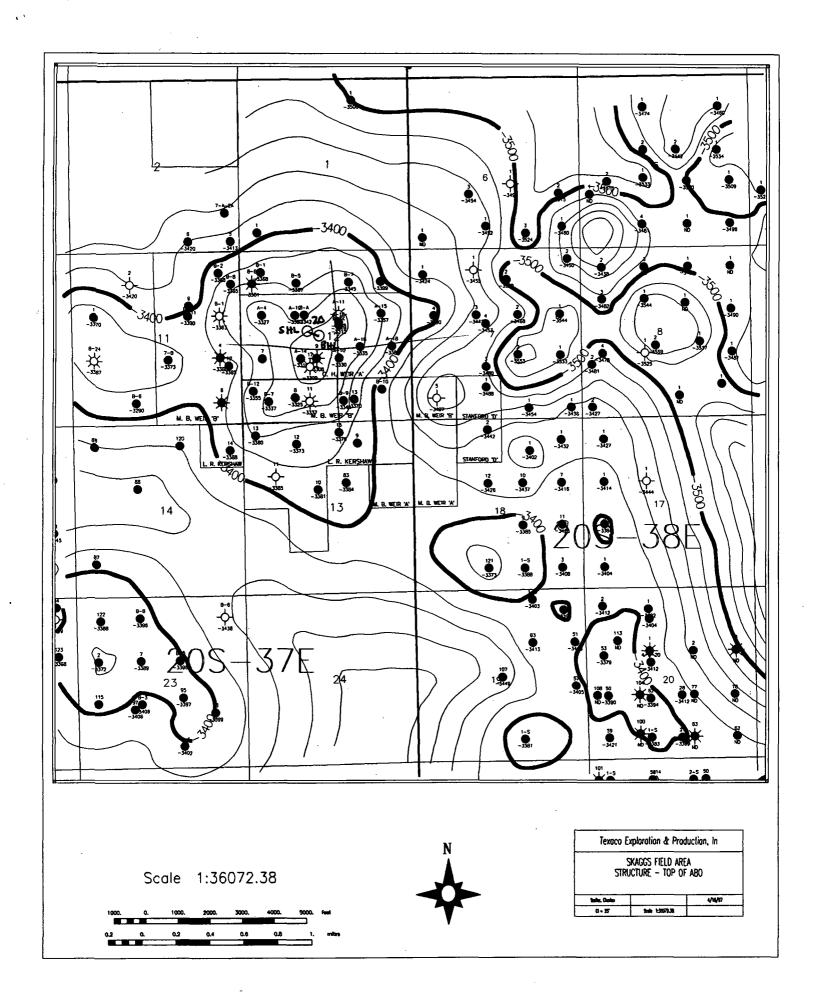
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LOCATION AND ACREAGE DEDICATION PLAT	

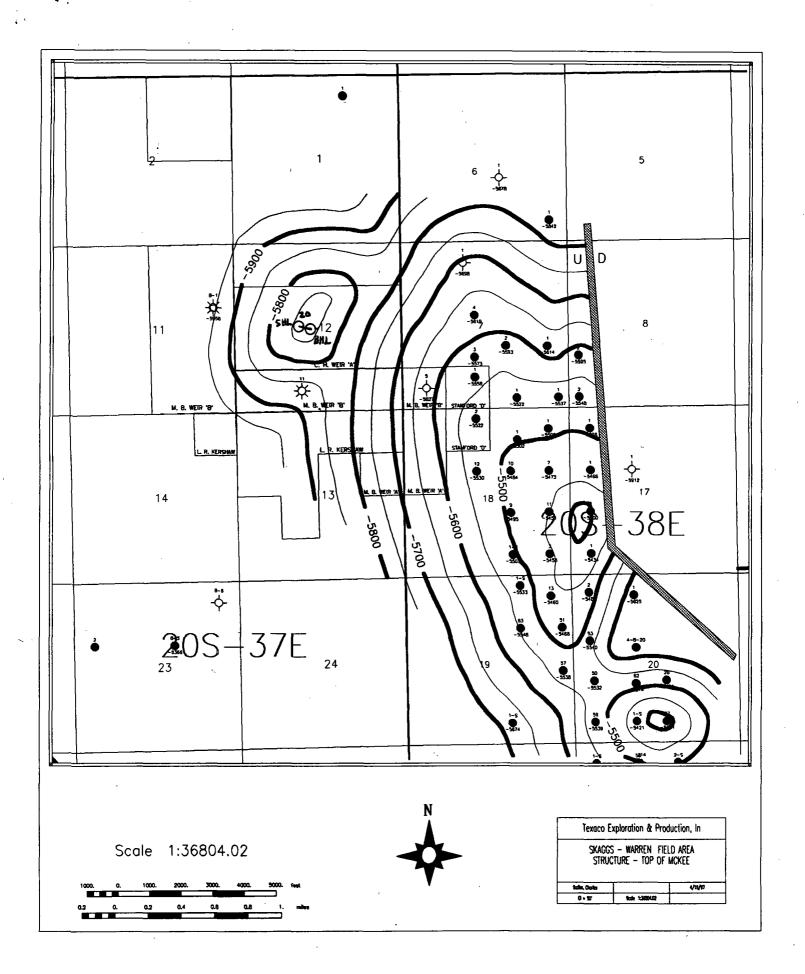
1 API Nur	nber	² Pool Code	- · · · · · · · · · · · · · · · · · · ·								
			Wildcat Ellenburger; \	Narren McKee;	Wildcat	Silurian;	Wildcat	Penn; Skaggs	Drinkard		
Property Code		⁵ Property Name									
11130		C. H. Weir "A"									
OGRID No.		⁸ Operator Name							g Elevation		
22351	TEXACO EXPLORATION & PRODUCTION, INC. 3559								9' `		
		10 Su	urface Location								

North/South line Feet from the East/West line County 20-S 37-E 2510' North 2225' West Lea 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 7County F 20-S 37-E 2630' North 2575' West Lea 12Dedicated Acres ¹³Joint or Infill ¹Consolidation Code ¹⁵Order No. 40

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED









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,

bround else W. .

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

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 the card to you. Attach this form to the front of the mailplece, or on the back if permit. Write "Return Receipt Requested" on the mailplece below the card to the receipt will show to whom the article was delivered.	at we can return this space does not article number. Id and the date	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:	4a. Article Nur	
Chevron USA Inc	P 497 3	02 0/9
P. O. Box 1150	4b. Service Ty	-
Midland, TX 79702	Registered	
	Express M	
	7. Date of Deli	PLIOI MEIGIBIDISE TO COD
<u></u>	/. Date of Den	YOUY APR 1 Y 1987
5. Received By: (Print Name)	8. Addressee's and fee is p	Address (Only if requested
6. Signature: (Addressee of Agent)	ارد دغياند (دغيا	er en
X DOL (PSU)		
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	a that we can return this	I also wish to receive the following services (for an extra fee):
card to you. Wattach this form to the front of the mailpiece, or on the back		1
		1 1 Addressess's Address
permit.	•	1. Addressee's Address
permit. white "Return Receipt Requested" on the mailplece below the strice was delined. The Return Receipt will show to whom the article was delined.	he article number.	2. Restricted Delivery
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3. Article Addressed to: Amoco Production Co. P. O. Box 3092 Houston, TX 77253	4a. Article I P 497 4b. Service	2. Restricted Delivery Consult postmaster for fee. Number 362 875 Type red Certified
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3. Article Addressed to: Amoco Production Co. P. O. Box 3092 Houston, TX 77253	4a. Article I P 497 4b. Service Registe Express	2. Restricted Delivery Consult postmaster for fee. Number 362 875 Type red Certified Mail Insured eccipt for Merchandise COD
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PS Form 3811, December 1994

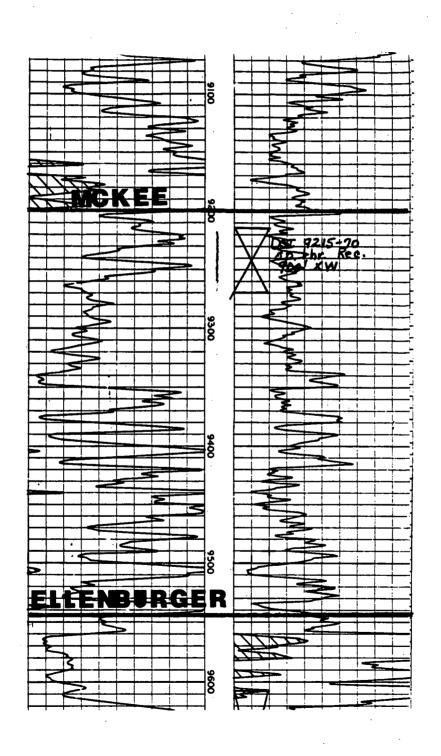
Domestic Return Receipt

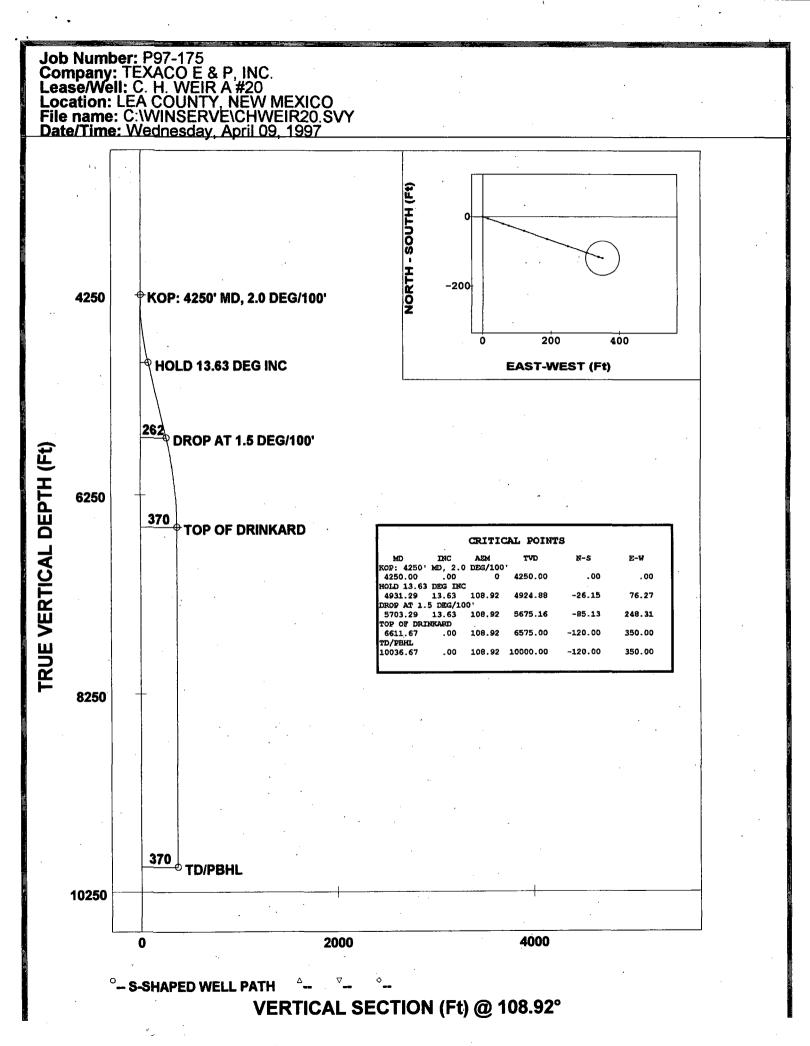
SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so card to you. Attach this form to the front of the malipiece, or on the back permit. Write "Return Receipt Requested" on the malipiece below to the Return Receipt Requested on the article was delived.	t if space does not	I also wish to receive the following services (for an extra fee): 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee.
Atlantic Richfield Co.	4b. Service	362 880 E
Fp. 0. Box 1610	☐ Register	ed Di Celinier 2
Midland, TX 79702	☐ Express	
		ceipt for Merchandise COD
	7. Date of D	APR 17 1997
5 Received By: (Print Name)	8. Addresse and fee is	e's Address (Only if requested s paid)
5. Received By: (Print Name) 6. Signature: (Addressee or Agent)		
PS Form 3811 , December 1994		Domestic Return Receipt
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Attach this form to the front of the mailpiece, or on the be	ick if space does not	1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee. Number 362 878 Type
Write "Return Receipt Requested" on the mailpiece below The Return Receipt will show to whom the article was de		2. Restricted Delivery
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3. Article Addressed to:	4a. Article	Number
Conoco Inc.	P 497	362 878
10 Desta Drive, Suite 100W	4b. Service	Туре
Midland, TX 79705	☐ Registe	
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g	XX Return R	
Print your name and address on the reverse of this form card to you. Patach this form to the front of the mailpiece, or on the be permit. Write "Return Receipt Requested" on the mailpiece below the Return Receipt will show to whom the article was dedelivered. 3. Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705 5. Beceived By: (Print Name)	7. Date of I	Delivery 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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PS Form 3811. December 1994		Domestic Return Receipt

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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

Grid:

Location: LEA COUNTY, NEW MEXICO File name: C:\WINSERVE\CHWEIR20.SVY

State/Country:

Declination:

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

Rig Name: RKB:

Curve Name: S-SHAPED WELL PATH

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

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method Vertical Section Plane 108.92

Measured Depth FT	Inci Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	C L O S Distance FT	URE Direction Deg	Dogleg Severity Deg/100
KOD: 4	250' MD	, 2.0 DEG	/400'	·						
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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	40.00	400.00	4747 47	4470 47	44.40	44 47	40.50	40.50	400.00	2.00
4750.00 4850.00	10.00 12.00		4747.47 4845.62	1172.47 1270.62	-14.12 -20.30	41.17 59.22	43.52 62.60	43.52 62.60	108.92 108.92	2.00 2.00
			4040.02	12/0.02	-20.30	39.22	02.00	02.00	100.92	2.00
HOLD	13.63 DE	EG 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	1 544 .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
E424 00	42.62	108.92	5410.81	1835.81	-64.35	187.69	198.42	198.42	108.92	.00
5431.29 5531.29	13.63 13.63	108.92	5508.00	1933.00	-04.35 -71.99	209.98	221.98	221.98	108.92	.00
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			3003.10	2030.10	-13.00	202.20	240.00	240.00	100.02	
11		EG/100'								- 1
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 <i>,</i> 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	Inci Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	C L O S Distance FT	URE 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	DRINK	ARD								<u>_</u>
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
<i>7</i> 611.67	.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/PBH	L .									
10036.67	.00	108.92	10000.00	6425.00	-120.00	350.00	370.00	370.00	108.92	.00

CMD: OG5SECT

ONGARD INQUIRE LAND BY SECTION 09/15/97 07:37:21 OGOMES -EMGG

PAGE NO: 1

Sec : 12 Twp : 20S Rng : 37E Section Type : NORMAL

D 40.00	C 40.00	B 40.00	A 40.00		
Federal owned	Federal owned	Fee owned	Fee owned		
U A A A	A A	A A	A		
E 40.00	F 40.00	G 40.00	H 40.00		
Fee owned	Fee owned	Fee owned	Fee owned		
A	A A	A A A	A		
F01 HELP PF02	PF03 EXIT	PF04 GoTo PF05	' PF06		
FO7 BKWD PFO8	FWD PF09 PRINT	PF10 SDTV PF11	DF12		

CMD : OG5SECT

ONGARD
INQUIRE LAND BY SECTION

09/15/97 07:37:35 OGOMES -EMGG

PAGE NO: 2

Sec : 12 Twp : 20S Rng : 37E Section Type : NORMAL

L 40.00	K 40.00	J 40.00	1 40.00		
Fee owned	Fee owned	Fee owned	Fee owned		
A	A P A	A A A	A A		
M 40.00	N 40.00	O 40.00	P 40.00		
Fee owned	Fee owned	Fee owned	Fee owned		
$\mathbf{A} = \mathbf{A} \cup \mathbf{A}$	AAAA	A P	A A		
PF01 HELP PF0	PF03 EXIT	PF04 GoTo PF05	PF06		

CMD : OG6C101

ÖNGARD

09/15/97 07:38:48 OGOMES -EMGG

C101-APPLICATION FOR PERMIT TO DRILL

OGRID Idn : 22351 API Well No: 30 25 34096 APD Status(A/C/P): A

Opr Name, Addr: TEXACO EXPLORATION & PRODUCTION Aprvl/Cncl Date : 08-14-1997

205 EAST BENDER HOBBS,NM 88240

Prop Idn: 11131 C H WEIR A

Well No: 20

U/L Sec Township Range Lot Idn North/South East/West

Surface Locn: F 12 20S 37E FTG 2510 F N FTG 2225 F W

OCD U/L : F API County : 25

Work typ (N/E/D/P/A) : N Well typ (O/G/M/I/S/W/C) : O Cable/Rotary (C/R) : R

Lease typ(F/S/P/N/J/U/I): P Ground Level Elevation: 3559

State Lease No: Multiple Comp (Y/N) : S

Prpsd Depth : 10000 Prpsd Frmtn : ELLENBURGER

E0009: Enter data to modify record

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 PF08 PF09 PRINT PF10 C102 PF11 HISTORY PF12

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4/25/97 |

ABOVE THIS LINE FOR DIVISION USE ONLY

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

Applic	ation Acr	[DHC-I P	Downhole Com C-Pool Commi WFX-Wat SWD)	D-Directions imingling) ngling) (Ol ærflood Exps I-Salt Water I	LS - Off-Lease Insion] [PM Disposal] [I	SD-Simulta Comminglin Storage) X-Pressure PI-Injection	neous Dedic g] [PLC-Pc [OLM-Off-L Maintenanc Pressure In	ation) pol/Lease Comm pase Measurem p Expansion)	en <u>t)</u>
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. •		[C]	•	-	Pressure Inc	rease - En	hanced Oil	Recovery PPR	
2]	NOTI	FICAT [A]			- Check Ther Overridin			Does Not A	Apply
		[B]	Offset O	perators, L	easeholders	or Surfac	e Owner		
		[C]	☐ Applicat	ion is One	Which Requ	iires Publi	shed Legal	Notice	y 3
		[D]			Concurrent				. ,
		[E]	☐ For all o	f the above	, Proof of N	otification	or Publica	tion is Attache	ed, and/or
		[F]	☐ Waivers	are Attache	ed ·				

[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.

Print or Type Name

C Wade Howard
Signature

ENGINEER ASSISTANT

4/23/97 Date



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
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,

Swaret elou. >

C. W. Howard Engineer's Assistant

CWH:

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

Attachments

DISTRICT 1 P. O. Box 1980, Hobbs, NM 88240

DISTRICT || P. O. Drower DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brozos Rd., Aztec, NN 87410

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

2225'

TEXACO

660

2575' True Bearing S71'07'52"E

370

TEXACO

1320 1650 1960 2310 2640

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

· API	Number		T	² Pool Code			3 Pool No		
						t Ellenburger; Warren	McKee; Wildcat S	illurian; Wildcat Penn	
Property Code					⁵ Property ! C. H. We				Well Number
11130 'OGRID No.					8Operator				9 Elevation
22351	1		TEXACO EXPLORATION & PRODUCTION, INC.						3559'
					10 Surface				
L 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
			11 B	ottom Ho	e Location If	Different From	Surface		
IL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	7County
P	12	20-S	37-E		2630'	North	2575'	West	Lea
Dedicated Acres 40	13301	nt or Infill	*Consolid	ation Code	¹⁸ Order No.				
NO ALLOV	WABLE					UNTIL ALL INTE			ED
16							a	'OPERATOR CER	TIFICATION
Amoco		Hma		[*	Amoco Conoco			I hereby certify the caned herein is true a t of my knowledge and	it the information
C	Chevery Chev			-50000			Signe	ture Wade How	ارمو
		1 ARCO	2510			i		ed Name	

20 BHL

10

TEXACO

TEXACU

16

*SURVEYOR CERTIFICATION

Texaco Expl. & Prod. Inc.

March 14, 1997

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

Date Surveyed

Date

18

March 4, 1997

Signature & Seal of Professional Surveyor

tificate No.

7254 John S. Piper

y 23 · 33 · 1, p3 · 1

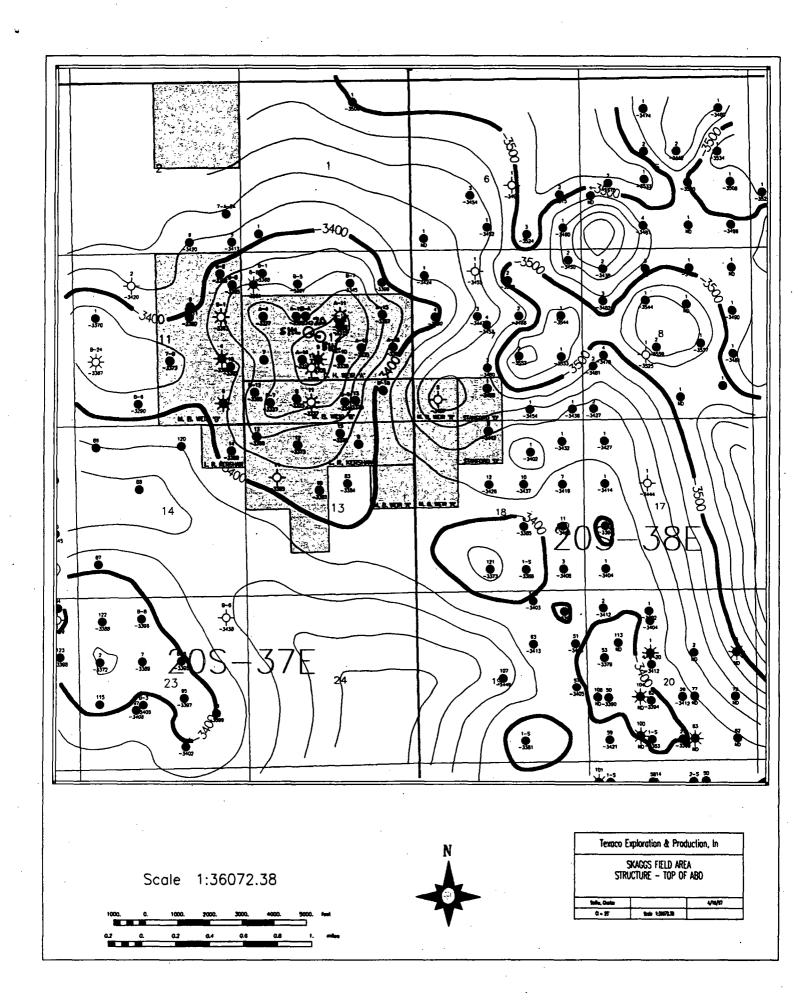
 \bigcirc = Staked Location \bullet = Producina Well \bullet' = Injection Well \diamond = Water Supply Well $- \bullet$ = Plugged & Abandon Well

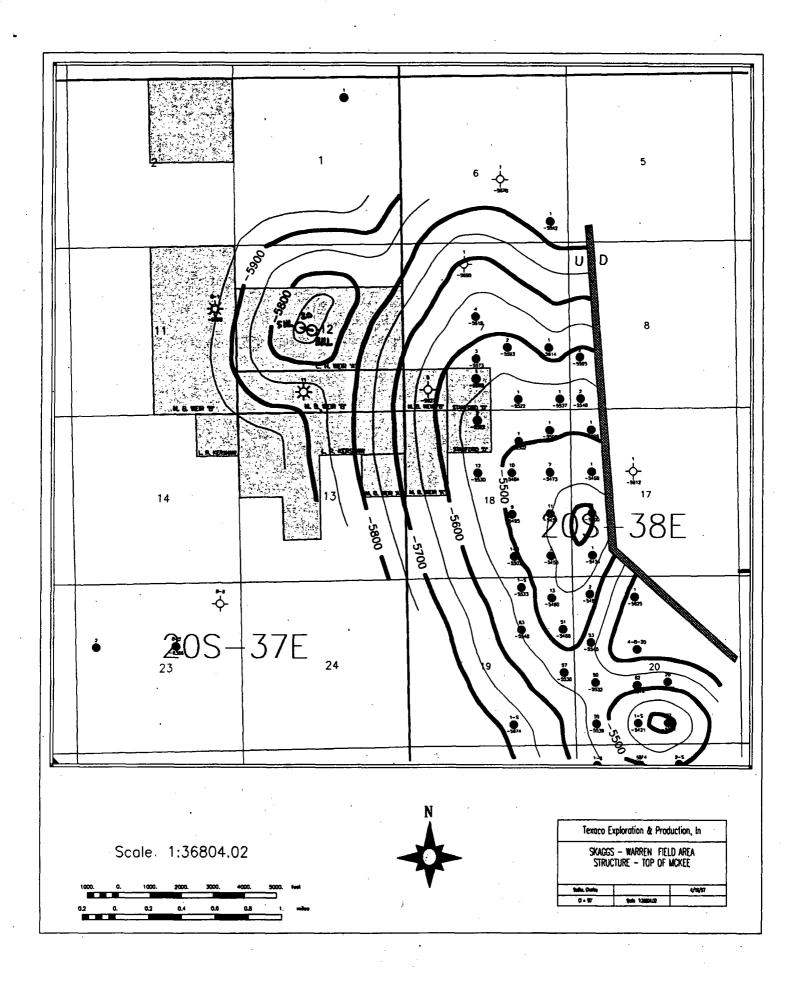
1500

2000

1000

500







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,

Growett show.

C. W. Howard Engineer Assistant

CWH: cwh

File

WAIVER APPROVED:

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

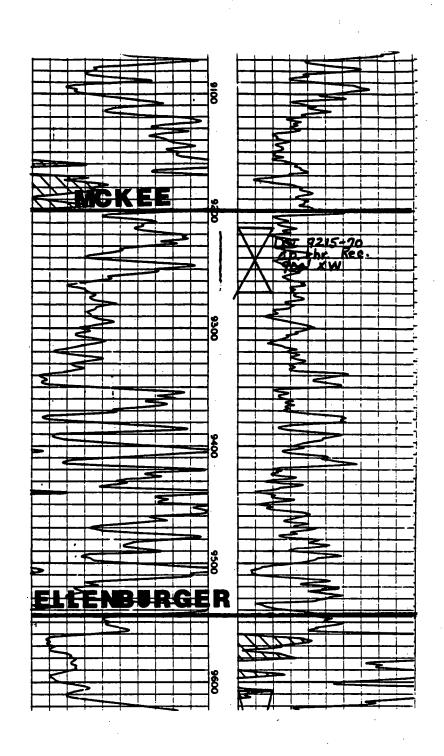
Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form a card to you. Attach this form to the front of the malipiece, or on the barpermit. Write "Ratum Receipt Requested" on the malipiece below The Return Receipt will show to whom the article was defidelivered.	ck if space does not the article number, ivered and the date	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:	4a. Article Nu	
Chevron USA Inc	P 497 3	
P. O. Box 1150	4b. Service T	
Midland, TX 79702	Registered	
·	Express M	
	7. Date of Del	eipt for Merchandise COD
		APR 1 7 1987
5. Received By: (Print Name)	8. Addressee' and fee is p	s Address (Only if requested paid)
6. Signature: (Autire) see by Agent	er Batalis at tigen in the	
00 11 12 1111	14. A 4. A	
X 9) (1) (1) PS Form 3811, December 1994		Domestic Return Receipt
X Sender 1994 SENDER: "Complete items 1 end/or 2 for additional services." "Complete items 3, 4a, and 4b.		I also wish to receive the following services (for an
X Sender 1994 SENDER: "Complete items 1 end/or 2 for additional services." "Complete items 3, 4a, and 4b.	rm so that we can return thi	I also wish to receive the following services (for an extra fee):
SENDER: "Complete items 1 end/or 2 for additional services. "Complete items 3, 4a, and 4b. "Print your name and address on the reverse of this for add to you. "Attach this form to the front of the malipiece, or on the permit. "Write "Return Receipt Requested" on the malipiece be	rm so that we can return thi back if space does not low the article number.	I also wish to receive the following services (for an extra fee): 1. Addressee's Addres
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SENDER: "Complete items 1 end/or 2 for additional services. "Complete items 3, 4a, and 4b. "Print your name and address on the reverse of this for card to you. "Attach this form to the front of the malipiece, or on the permit. "Write 'Return Receipt Requested' on the malipiece be "The Return Receipt will show to whom the article was the card to you."	rm so that we can return this back if space does not slow the article number, delivered and the data 4a. Article P 497	I also wish to receive the following services (for an extra fee): 1. Addressee's Addres 2. Restricted Delivery Consult postmaster for fee. Number 362 875
SENDER: "Complete items 1 end/or 2 for additional services. "Complete items 3, 4a, and 4b. "Print your name and address on the reverse of this for card to you. "Attach this form to the front of the malipiece, or on the permit. "Write 'Return Receipt Requested' on the malipiece be "The Return Receipt will show to whom the article was the card to you."	rm so that we can return the back if space does not low the article number. delivered and the date 4a. Article P 497 4b. Service	I also wish to receive the following services (for an extra fee): 1. Addressee's Addres 2. Restricted Delivery Consult postmaster for fee. Number 362 875
SENDER: "Complete items 1 and/or 2 for additional services. "Complete items 3, 4s, and 4b. "Print your name and address on the reverse of this for card to you. "Attach this form to the front of the malipiece, or on the permit. "Write "Return Receipt Requested" on the malipiece be "The Return Receipt will show to whom the article was delivered. 3. Article Addressed to: Amoco Production Co. P. O. Box 3092 Houston, TX 77253	rm so that we can return this back if space does not slow the article number, delivered and the data 4a. Article P 497	I also wish to receive the following services (for an extra fee): 1. Addressee's Addres 2. Restricted Delivery Consult postmaster for fee. Number 362 875 Type ored Certific
SENDER: "Complete items 1 and/or 2 for additional services. "Complete items 3, 4s, and 4b. "Print your name and address on the reverse of this for card to you. "Attach this form to the front of the malipiece, or on the permit. "Write "Return Receipt Requested" on the malipiece be "The Return Receipt will show to whom the article was delivered. 3. Article Addressed to: Amoco Production Co. P. O. Box 3092 Houston, TX 77253	m so that we can return this back if space does not delivered and the date 4a. Article P 497 4b. Service Registe	I also wish to receive the following services (for an extra fee): 1. Addressee's Address
SENDER: "Complete items 1 end/or 2 for additional services. "Complete items 3, 4a, and 4b. "Print your name and address on the reverse of this for card to you. "Attach this form to the front of the malipiece, or on the permit. "Write 'Return Receipt Requested' on the malipiece be "The Return Receipt will show to whom the article was the card to you."	m so that we can return this back if space does not delivered and the date 4a. Article P 497 4b. Service Registe	I also wish to receive the following services (for an extra fee): 1. Addressee's Addres 2. Restricted Delivery Consult postmaster for fee. Number 362 875 Type ored

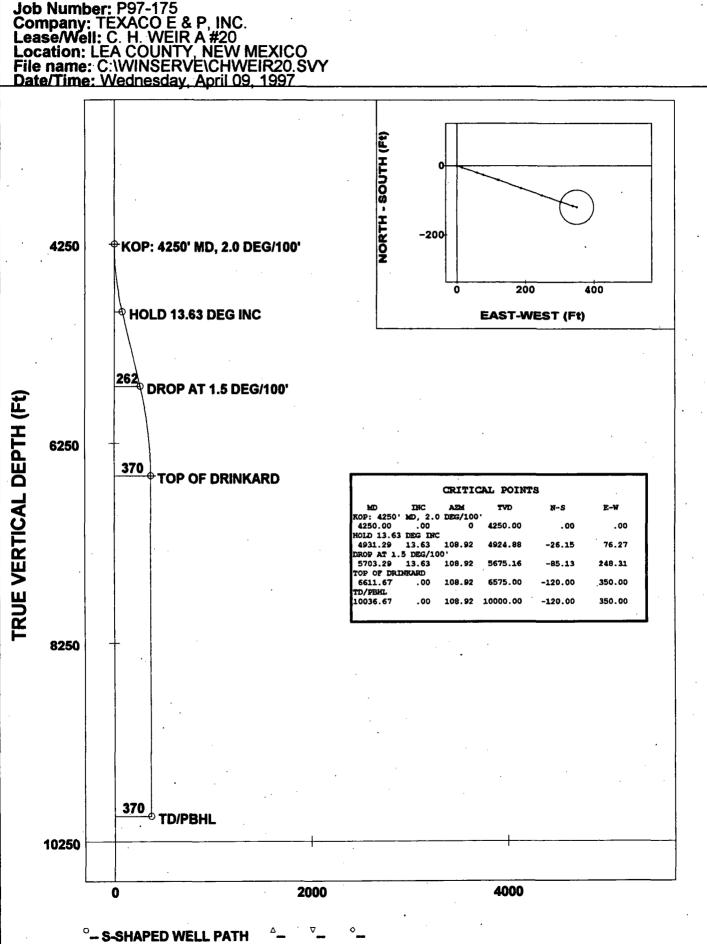
Domestic Return Receipt

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 a card to you. Attach this form to the front of the malipiece, or on the bac permit. White "Ratum Receipt Requested" on the malipiece below a The Ratum Receipt will show to whom the article was delidelivered. Atlantic Richfield Co. P. O. Box 1610	ik if space does not the article number.	I also wish to receive the following services (for an extra fee): 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee. umber 362 880 Type
3. Article Addressed to:	4a. Article N	umber
Atlantic Richfield Co.		362 880
F P. O. Box 1610	4b. Service	Гуре
~ M: J1 J mby 70700	Register	ed Certified
M	☐ Express	Mall Insured
Ba		celpt for Merchandise COD
N N N N N N N N N N N N N N N N N N N	7. Date of D	APR 1 7 1997
5. Received By: (Print Name) 6. Signature: (Addressee or Agent)	8. Addresse and fee is	Mail Insured Delivery APR 17 1997 a's Address (Only if requested paid)
PS Form 3811, December 1994		Domestic Return Receipt
SENDER: "Complete items 1 and/or 2 for additional services. "Complete items 3, 4a, and 4b. "Complete items 3, 4a, and 4b. "Complete items 3, 4a, and 4b. "First your name and address on the reverse of this form a card to you. "Attach this form to the front of the malipiece, or on the bac permit. "Write "Return Receipt Requested" on the malipiece below the complete items of the malipiece below the complete items 1 and/or 2 for additional services.	o that we can return this	I also wish to receive the following services (for an extra fee):
Attach this form to the front of the malipiece, or on the bac	k if space does not	
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C delivered.		
0 Add-1- A 10	.	Consult postmaster for fee
3. Article Addressed to:	4a. Article N	Consult postmaster for fee.
3. Article Addressed to: Conoco Inc.	4a. Article No. P 497 3	Consult postmaster for fee.
3. Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W	4a. Article No P 497 3 4b. Service T	Consult postmaster for fee. unber 62 878 ype
3. Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W	4a. Article No. P 497 3 4b. Service T	Consult postmaster for fee. Imber 62 878 ype
3. Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W	4e. Article No. P 497 3 4b. Service T Registere Express A	Consult postmaster for fee. Imber 62 878 ype d
3. Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W	49. Article No. P 497 3 4b. Service T Registere Express A	Consult postmaster for fee. Imber 62 878 ype d
3. Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705	4a. Article No. P 497 3 4b. Service T Registere Express A XX Return Rec 7. Date of De	trepy 1999
3. Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705	4a. Article No. P 497 3 4b. Service T Registere Express A XX Return Reco	trepy 1999
3 Article Addressed to: Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705	4a. Article No. P 497 3 4b. Service T Registere Express A XX Return Rec 7. Date of De	Nery 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

TYPE LOG

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





"- 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 File name: C:\WINSERVE\CHWEIR20.SVY

Rig Name:

RKB:

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

State/Country:

Declination:

Grid:

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	Incl	Drift	True	Subsea			Vertical	CLOS	SURE	Dogleg
Depth	Angle	Direction	-	TVD	N-S	E-W	Section		Direction	Severity
FT	Deg		Depth	FT	FT	FT	FT	FT	Deg	Deg/100
KOP: 42	250' MD	, 2.0 DEG	3/100'		·		7.77/200		<u> </u>	
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 1	3.63 DE	G INC	45	· · · · · · · · · · · · · · · · · · ·	1,					
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	<i>-</i> 79.63	232.26	245.53	245.53	108.92	.00
DROP A	T 1.5 D	EG/100'			<u> </u>					
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
J200.20	J. 13	100.02	J 1011-10			J	2	J . J J		

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	C L O S Distance FT	URE 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	DRINK	ARD								
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/PBH	L									
10036.67	.00	108.92	10000.00	6425.00	-120.00	350.00	370.00	370.00	108.92	.00