



Texaco Exploration
and Production Inc

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

June 19, 1997

GOV - STATE AND LOCAL GOVERNMENTS

Directional Drilling

State "AN" Well No. 11

Wildcat Atoka: Vacuum, Abo Reef 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 D, is requested to directionally drill the captioned well to an orthodox bottomhole location in the Atoka. The Abo Reef will be an unorthodox location.

This well is being drilled as a vertical development well in the Abo Reef and must be directionally drilled to penetrate a prospective Atoka pay across a fault northeast of the surface location. Attached for your information is a copy of our directional plans, a type log section, 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

*Received
6-30-97*

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
		3 API Number 30-025-34097
4 Property Code 11093	5 Property Name STATE 'AN'	6 Well No. 11

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
B	7	18-S	35-E		900	NORTH	1440	EAST	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
A	7	18-S	35-E		400	NORTH	500	EAST	LEA

9 Proposed Pool 1
WILDCAT, ATOKA10 Proposed Pool 2
VACUUM, ABO REEF

11 Work Type Code N	12 WellType Code O	13 Rotary or C.T. ROTARY	14 Lease Type Code S	15 Ground Level Elevation 3969'
16 Multiple No	17 Proposed Depth 11681'	18 Formation ATOKA / ABO REEF	19 Contractor NABORS	20 Spud Date 9/1/97

21 Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14 3/4	11 3/4	42#	600'	450 SACKS	SURFACE
11	8 5/8	24#	3500'	1000 SACKS	SURFACE
7 7/8	5 1/2	17#	11681'	2100 SACKS	3400'

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the date 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: 250 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)

INTERMEDIATE CASING: 800 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 200 SACKS CLASS H (15.6 PPG, 1.19 CF/S, 5.2 GW/S).

PRODUCTION CASING: 1st STG - 1300 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 @ 6900': 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 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).

APPLICATION FOR DIRECTIONAL DRILLING HAS BEEN FILED. (COPY ATTACHED)

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

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

7/14/97

Telephone

688-4606

OIL CONSERVATION DIVISION

Approved By:

Chris Williams

Title:

DISTRICT ENGINEER CHRIS WILLIAMS

Approval Date:

AUG 14 1997

Expiration Date:

Conditions of Approval:

Verbal approval M. S. 8/4/97

Attached ☐

County Lea Pool Vacuum - Abo Reef

TOWNSHIP 17 South RANGE 35 East NEW MEXICO PRINCIPAL MERIDIAN

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

- Ext. $\frac{1}{2}$ $\frac{1}{2}$ Sec. 33 (R-1942, 5-1-61) - NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33 (R-2034, 8-1-61)
- SW $\frac{1}{4}$ Sec. 34 (R-2062, 10-1-61) - SE $\frac{1}{4}$ Sec. 34 (R-2172, 2-1-62)
- $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34; $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 35; SW $\frac{1}{4}$ $\frac{1}{2}$ NW $\frac{1}{4}$ Sec. 36 (R-7201, 4-1-62)
- SE $\frac{1}{4}$ Sec. 27; NW $\frac{1}{4}$ Sec. 34 (R-7241, 6-1-62) - $\frac{1}{2}$ Sec. 26; NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 33;
NW $\frac{1}{4}$ Sec. 35 (R-2292, 8-1-62) - $\frac{1}{2}$ Sec. 25; $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 26 (R-2313,
10-1-62) - NW $\frac{1}{4}$ Sec. 25; NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 26 (R-2338, 11-1-62).
- NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 26 (R-2393, 1-1-62). Name Change (R-2427, 3-1-63)
- NW $\frac{1}{4}$ Sec. 26 (R-2507, 7-1-63) - $\frac{1}{2}$ SW $\frac{1}{4}$ Sec. 27; $\frac{1}{2}$ NE $\frac{1}{4}$ Sec. 33 (R-2578, 11-1-63)
- SE $\frac{1}{4}$ Sec. 24; NE $\frac{1}{4}$ Sec. 25 (R-2692, 5-1-64) Delete SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 36 (R-8451, 6-3-87)

COUNTY *Lea*POOL *Vacuum - Abo Reef*TOWNSHIP *17 South*RANGE *36 East*

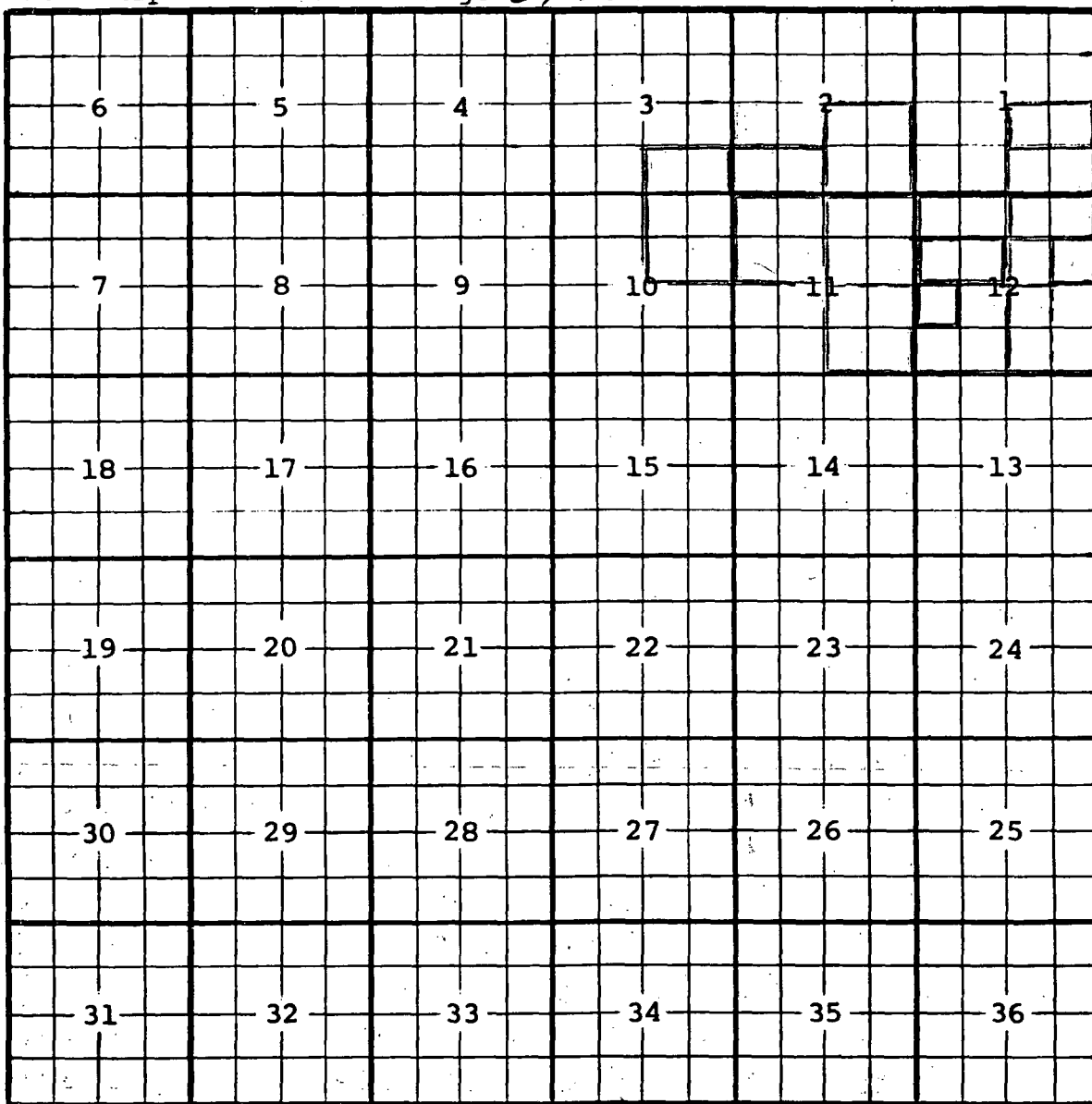
NMPM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Ext: $\frac{SW}{4}$ $\frac{NW}{4}$ & $\frac{W}{4}$ $\frac{SW}{4}$ Sec. 19 (R-2746, 7-1-64) $\frac{N}{2}$ $\frac{NW}{4}$ $\frac{P}{4}$ Sec. 19 (R-4146, 6-1-71)
 $\frac{S}{2}$ Sec. 18 (R-4219, 12-1-71)

County LeaPool Vacuum - Abo ReefTownship 18 SouthRange 34 East

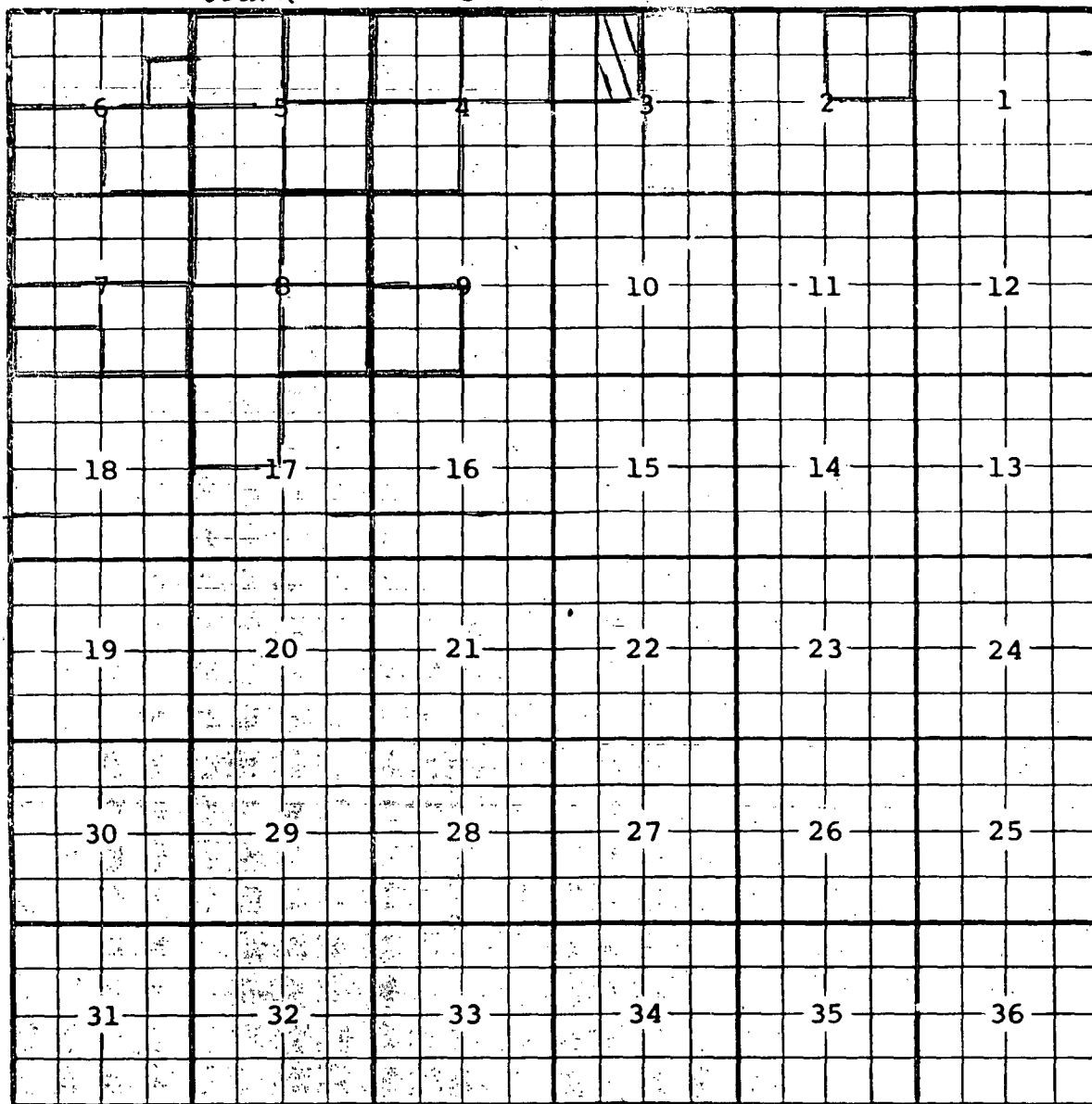
NMPM



Description: $\frac{SE}{4} \frac{NE}{4}$ Sec. 12 (R-2292, 8-1-62) - $\frac{SE}{4}$ Sec. 12, (R-2313, 10-1-62) - $\frac{SW}{4} \frac{NE}{4}$ Sec. 12 (R-2393, 1-1-63) - Name Change (R-2427, 2-1-63)
Ext: $\frac{S}{2} \frac{NW}{4}$ Sec. 12 (R-2449, 4-1-63) - $\frac{N}{4} \frac{NE}{4} \frac{S}{4} \frac{NW}{4}$ Sec. 12 (R-2507, 7-1-63)
 $\frac{N}{2} \frac{NW}{4}$ Sec. 12 (R-2552, 9-1-63) - $\frac{E}{2}$ Sec. 11 (R-2578, 11-1-63) - $\frac{NW}{4}$ Sec. 11;
 $\frac{NE}{4} \frac{SW}{4} \frac{S}{2} \frac{SW}{4}$ Sec. 12 (R-2639, 2-1-64) - $\frac{SE}{4}$ Sec. 2; $\frac{S}{2} \frac{SE}{4}$ Sec. 3; $\frac{NE}{4}$ Sec. 10 (R-2692, 5-1-64)
 $\frac{S}{2} \frac{SW}{4}$ Sec. 2 (R-2726, 7-1-64) - $\frac{S}{2} \frac{SE}{4}$ Sec. 1 (R-2781, 11-1-64) - $\frac{N}{2} \frac{SE}{4}$ Sec. 1 (R-2833, 1-1-65)

COUNTY LeaPOOL Vacuum - Abo ReefTOWNSHIP 18 SouthRANGE 35 East

NMPM

Description: $\frac{NW}{4}$ Sec. 4 (R-1840, 1-1-61)Ext: $\frac{NE}{4}$ Sec. 4; $\frac{NE}{4}$ Sec. 5 (R-1942, 5-1-61) - $\frac{NW}{4}$ Sec. 3; $\frac{SE}{4}$ Sec. 5 (R-2034, 8-1-61)- $\frac{SW}{4}$ Sec. 4; $\frac{SW}{4}$ Sec. 5 (R-2062, 10-1-51) - $\frac{NW}{4}$ Sec. 5; $\frac{SE}{4}$ Sec. 6 (R-2119, 12-1-61)- $\frac{NW}{4}$ Sec. 8 (R-2172, 2-1-62) - $\frac{N}{2}$ Sec. 7 (R-2201, 4-1-62) - $\frac{SW}{4}$ Sec. 6 (R-2241, 6-1-62)- $\frac{NE}{4}$ Sec. 2; $\frac{NE}{4}$ Sec. 8 (R-2266, 7-1-62) - $\frac{N}{2}$ $\frac{SW}{4}$ Sec. 7 (R-2313, 10-1-62)- $\frac{SE}{4}$ Sec. 7 (R-2338, 11-1-62) - $\frac{S}{2}$ $\frac{SW}{4}$ Sec. 7 (R-2393, 1-1-63) - Name Change (R-2427, 3-1-63)- $\frac{SE}{4}$ $\frac{NE}{4}$ Sec. 6 (R-2507, 7-1-63) - $\frac{SW}{4}$ Sec. 8; $\frac{NW}{4}$ Sec. 17 (R-2552, 9-1-63)- $\frac{SE}{4}$ Sec. 8 (R-2726, 7-1-64) Ext: $\frac{SW}{4}$ Sec. 9 (R-6536, 12-1-80)Deletion: Sec. 3 $\frac{1}{2}$ $\frac{NW}{4}$ (R-7076-9-27-82)

CMD
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

08/27/97 17:49:53
OGOMES -EME3
PAGE NO: 1

Sec : 07 Twp : 18S Rng : 35E Section Type : NORMAL

1 37.72 CS B01306 2 11/42 TEXACO EXPLORATIO U R P A A	C 40.00 CS B01306 2 11/42 TEXACO EXPLORATIO U R A A	B 40.00 CS E07653 3 12/63 TEXACO EXPLORATIO U R A A A	A 40.00 CS E07653 3 12/63 TEXACO EXPLORATIO R A
2 37.80 CS E06002 3 02/62 TOREADOR ROYALTY U R A P	F 40.00 CS E06002 3 02/62 TOREADOR ROYALTY U R A A	G 40.00 CS E07653 3 12/63 TEXACO EXPLORATIO R A	H 40.00 CS E07653 3 12/63 TEXACO EXPLORATIO R A

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

08/27/97 18:11:44
OGOMES -EME3
PAGE NO: 2

Sec : 07 Twp : 18S Rng : 35E Section Type : NORMAL

3 37.88 CS E06002 2 02/62 ORYX ENERGY CO R A	K 40.00 CS V04220 10/98 YATES PETROLEUM C R P	J 40.00 CS E07653 3 12/63 TEXACO EXPLORATIO R A A	I 40.00 CS E07653 3 12/63 TEXACO EXPLORATIO R A A
4 37.96 CS E06002 2 02/62 ORYX ENERGY CO R A	N 40.00 CS V04220 10/98 YATES PETROLEUM C R	O 40.00 CS E07653 3 12/63 TEXACO EXPLORATIO R A	P 40.00 CS E07653 3 12/63 TEXACO EXPLORATIO R A

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12

CMD :
OG6C101

ONGARD
C101-APPLICATION FOR PERMIT TO DRILL

08/27/97 17:51:25
OGOMES -EME3

OGRID Idn : 22351 API Well No: 30 25 34097 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: 11093 **STATE AN**

Well No: 11

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
	---	---	-----	-----	-----	-----	-----	-----
Surface Locn : B	7	18S		35E			FTG 900 F N	FTG 1440 F E
OCD U/L : B		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): S Ground Level Elevation : 3969

State Lease No: Multiple Comp (Y/N) : S
Prpsd Depth : 11681 Prpsd Frmtn : ATOKA

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

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

09/12/97 16:11:08
OGOMES -EMF3

API Well No : 30 25 3102 Eff Date : 01-01-1900 WC Status : A
Pool Idn : 61780 VACUUM;ABO REEF
OGRID Idn : 22351 TEXACO EXPLORATION & PRODUCTION INC
Prop Idn : 11093 STATE AN

Well No : 002
GL Elevation: 3973

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn	: B	7	18S	35E	FTG 330 F N	FTG 2100 F E	A
Lot Identifier:							
Dedicated Acre:							40.00
Lease Type							: S
Type of consolidation							(Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

from the East line (Unit B) of said Section 7 by drilling vertically to an approximate depth of 8,000 feet (the top of the Abo Reef within said well is expected to be at approximately 8326 feet), kick-off in a east-northeasterly direction building angle at a rate of 2 degrees per 100 feet until an inclination of 20 degrees is obtained, and drill directionally at a 20 degree angle to a targeted standard bottomhole oil well location within the Atoka formation that is approximately 400 feet from the North line and 500 feet from the East line (Unit A) of said Section 7;

- (8) The "project area" within the Undesignated Vacuum-Atoka Pool proposed by Texaco would consist of a single standard 40-acre oil spacing and proration unit comprising the NW/4 NE/4 of said Section 7 and the applicable drilling window or "producing area" for said wellbore should include that area within the NW/4 NE/4 (Unit A) of said Section 7 that is no closer than 330 feet to the outer boundary of said dedicated 40-acre tract; and,
- (9) 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 State "AN" Well No. 11 (API No. 30-025-34097) at an unorthodox surface oil well location 900 feet from the North line and 1440 feet from the East line (Unit B) of Section 7, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico, drill vertically to an approximate depth of 8,000 feet, kick-off in a east-northeasterly direction building angle at a rate of 2 degrees per 100 feet until an inclination of 20 degrees is obtained, penetrating the Abo Reef interval at an approximate 8326 feet, and continue to drill directionally to a targeted standard bottomhole oil well location within the Atoka formation that is approximately 400 feet from the North line and 500 feet from the East line (Unit A) of said Section 7.

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.

PROVIDED FURTHER THAT 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

Sheet



Texaco Exploration
and Production Inc

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

June 19, 1997

GOV - STATE AND LOCAL GOVERNMENTS

Directional Drilling
State "AN" Well No. 11
Sec. 7, T-18-S, R-35-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 the captioned 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 Assistant

CWH:cwh

File

WAIVER APPROVED:

COMPANY: _____

BY: _____

DATE: _____

OFFSET OPERATOR'S LIST
State "AN" Well No. 11
LEA COUNTY, NEW MEXICO

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

Marathon Oil Company
P. O. Box 552
Midland, TX 79702

Shell Western E & P Inc.
P. O. Box 576
Houston, TX 77001

Lynx Petroleum Consultants, Inc.
P. O. Box 1666
Hobbs, NM 88241

Sun Operating Ltd. Partnership
P. O. Box 2880
Dallas, TX 75221

Yates Petroleum Corporation
Yates Drilling Company
Abo Petroleum Corporation
Myco Industries, Inc.
105 South 4TH St.
Artesia, NM 88210

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):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Marathon Oil Company
P. O. Box 552
Midland, Texas 79702

4a. Article Number

P 497 394 207

4b. Service Type

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

7. Date of Delivery

JUN 20 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:

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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:

Shell Western E & P Inc.
P. O. Box 576
Houston, Texas 77001-0576

4a. Article Number

P 497 394 206

4b. Service Type

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

7. Date of Delivery

JUN 23 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

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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:

LYNX PETROLEUM CONSULTANTS, INC.
P.O. Box 1979
Hobbs, NM 88241

4a. Article Number

P 497 394 208

4b. Service Type

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

7. Date of Delivery

6-25-97

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

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Is your RETURN ADDRESS completed on the reverse side?

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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:

Yates Petroleum Corp.
Yates Drlg. Company
Abo Petroleum Corp.
Myco Industries, Inc.
105 South 4th Street
Artesia, New Mexico 88210

4a. Article Number

P 497 394 203

4b. Service Type

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

7. Date of Delivery

6-20-97

5. Received By: (Print Name)

JOANN GRIGGS

6. Signature: (Addressee or Agent)

Joann Griggs

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.

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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:

Sun Operating Ltd., Partnership
P. O. Box 2880
Dallas, Texas 75221

4a. Article Number

P 497 394 204

4b. Service Type

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

7. Date of Delivery

JUN 23 1997

5. Received By: (Print Name)

D. C. ...

6. Signature: (Addressee or Agent)

X *D. C. ...*

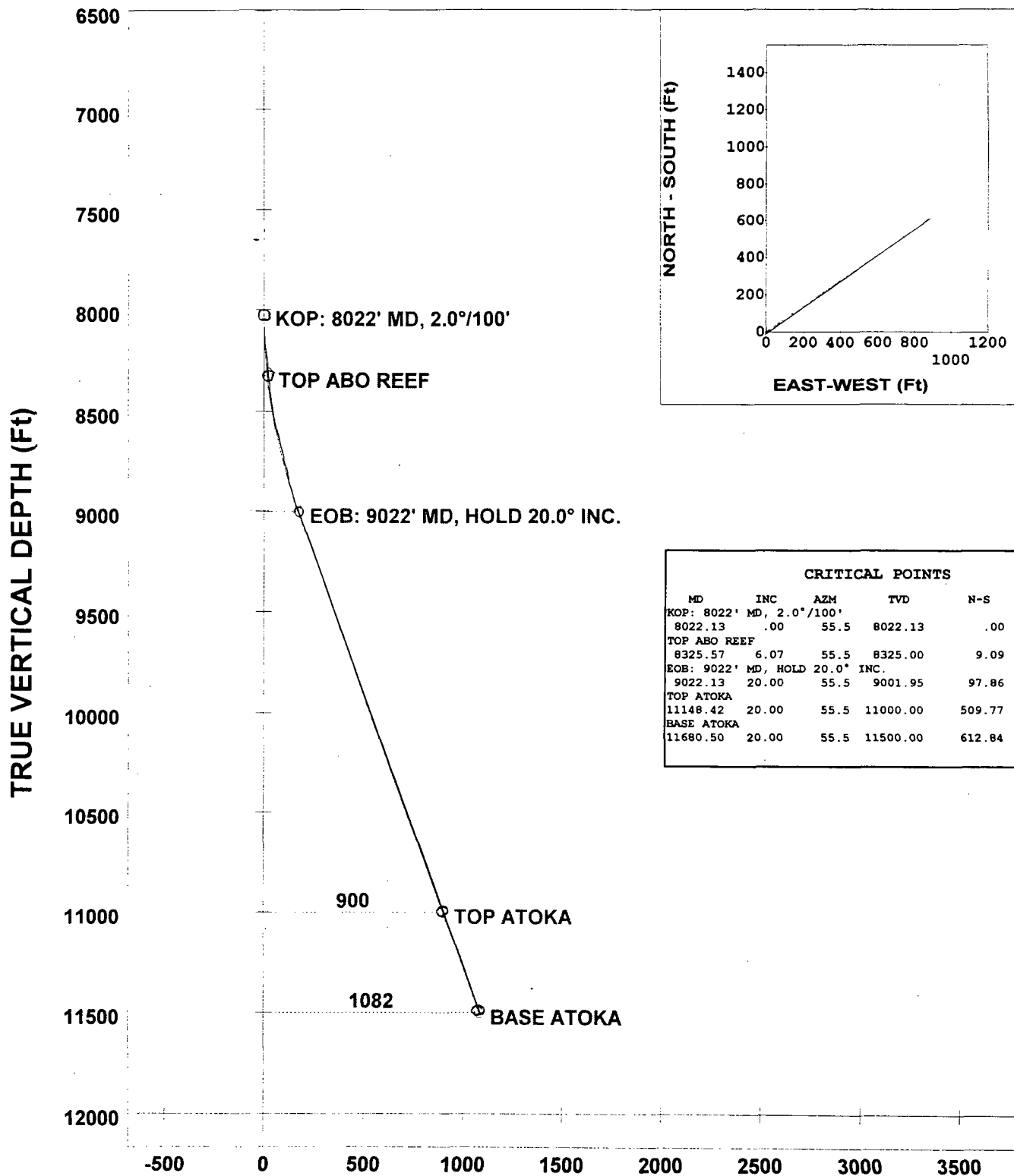
8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

Company: TEXACO E & P, INC.
 Lease/Well: NM STATE AN #11
 Location: LEA CO., NM
 Declination:
 File name: C:\WINSERVE\NMAN11.SVY
 Date/Time: Thursday, May 15, 1997



CRITICAL POINTS					
MD	INC	AZM	TVD	N-S	E-W
KOP: 8022' MD, 2.0°/100'					
8022.13	.00	55.5	8022.13	.00	.00
TOP ABO REEF					
8325.57	6.07	55.5	8325.00	9.09	13.23
EOB: 9022' MD, HOLD 20.0° INC.					
9022.13	20.00	55.5	9001.95	97.86	142.38
TOP ATOKA					
11148.42	20.00	55.5	11000.00	509.77	741.71
BASE ATOKA					
11680.50	20.00	55.5	11500.00	612.84	891.69

-- WELL PLAN 5/15/97

VERTICAL SECTION (Ft) @ 55.50°



Job Number: P97-224
Company: TEXACO E & P, INC.
Lease/Well: NM STATE AN #11
Location: LEA CO., NM
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country:
Declination:
Grid:
File name: C:\WINSERVE\NMAN11.SVY
Date/Time: 15-May-97 / 18:09
Curve Name: WELL PLAN 5/15/97

PHOENIX DRILLING SERVICES, INC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method
Vertical Section Plane 55.50

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
KOP: 8022' MD, 2.0°/100'										
8022.13	.00	55.50	8022.13	4032.13	.00	.00	.00	.00	.00	.00
8072.13	1.00	55.50	8072.13	4082.13	.25	.36	.44	.44	55.50	2.00
8122.13	2.00	55.50	8122.11	4132.11	.99	1.44	1.75	1.75	55.50	2.00
8172.13	3.00	55.50	8172.06	4182.06	2.22	3.24	3.93	3.93	55.50	2.00
8222.13	4.00	55.50	8221.97	4231.97	3.95	5.75	6.98	6.98	55.50	2.00
8272.13	5.00	55.50	8271.81	4281.81	6.17	8.98	10.90	10.90	55.50	2.00
8322.13	6.00	55.50	8321.58	4331.58	8.89	12.93	15.69	15.69	55.50	2.00
TOP ABO REEF										
8325.57	6.07	55.50	8325.00	4335.00	9.09	13.23	16.05	16.05	55.50	2.00
8372.13	7.00	55.50	8371.26	4381.26	12.09	17.60	21.35	21.35	55.50	2.00
8422.13	8.00	55.50	8420.83	4430.83	15.79	22.98	27.88	27.88	55.50	2.00
8472.13	9.00	55.50	8470.28	4480.28	19.98	29.07	35.27	35.27	55.50	2.00
8522.13	10.00	55.50	8519.60	4529.60	24.65	35.87	43.52	43.52	55.50	2.00
8572.13	11.00	55.50	8568.76	4578.76	29.81	43.38	52.63	52.63	55.50	2.00
8622.13	12.00	55.50	8617.75	4627.75	35.46	51.59	62.60	62.60	55.50	2.00
8672.13	13.00	55.50	8666.57	4676.57	41.59	60.51	73.42	73.42	55.50	2.00
8722.13	14.00	55.50	8715.19	4725.19	48.20	70.13	85.10	85.10	55.50	2.00
8772.13	15.00	55.50	8763.59	4773.59	55.29	80.45	97.62	97.62	55.50	2.00
8822.13	16.00	55.50	8811.77	4821.77	62.86	91.46	110.98	110.98	55.50	2.00
8872.13	17.00	55.50	8859.71	4869.71	70.90	103.16	125.18	125.18	55.50	2.00
8922.13	18.00	55.50	8907.40	4917.40	79.42	115.55	140.21	140.21	55.50	2.00
8972.13	19.00	55.50	8954.81	4964.81	88.40	128.63	156.08	156.08	55.50	2.00
EOB: 9022' MD, HOLD 20.0° INC.										
9022.13	20.00	55.50	9001.95	5011.95	97.86	142.38	172.77	172.77	55.50	2.00
9122.13	20.00	55.50	9095.92	5105.92	117.23	170.57	206.97	206.97	55.50	.00

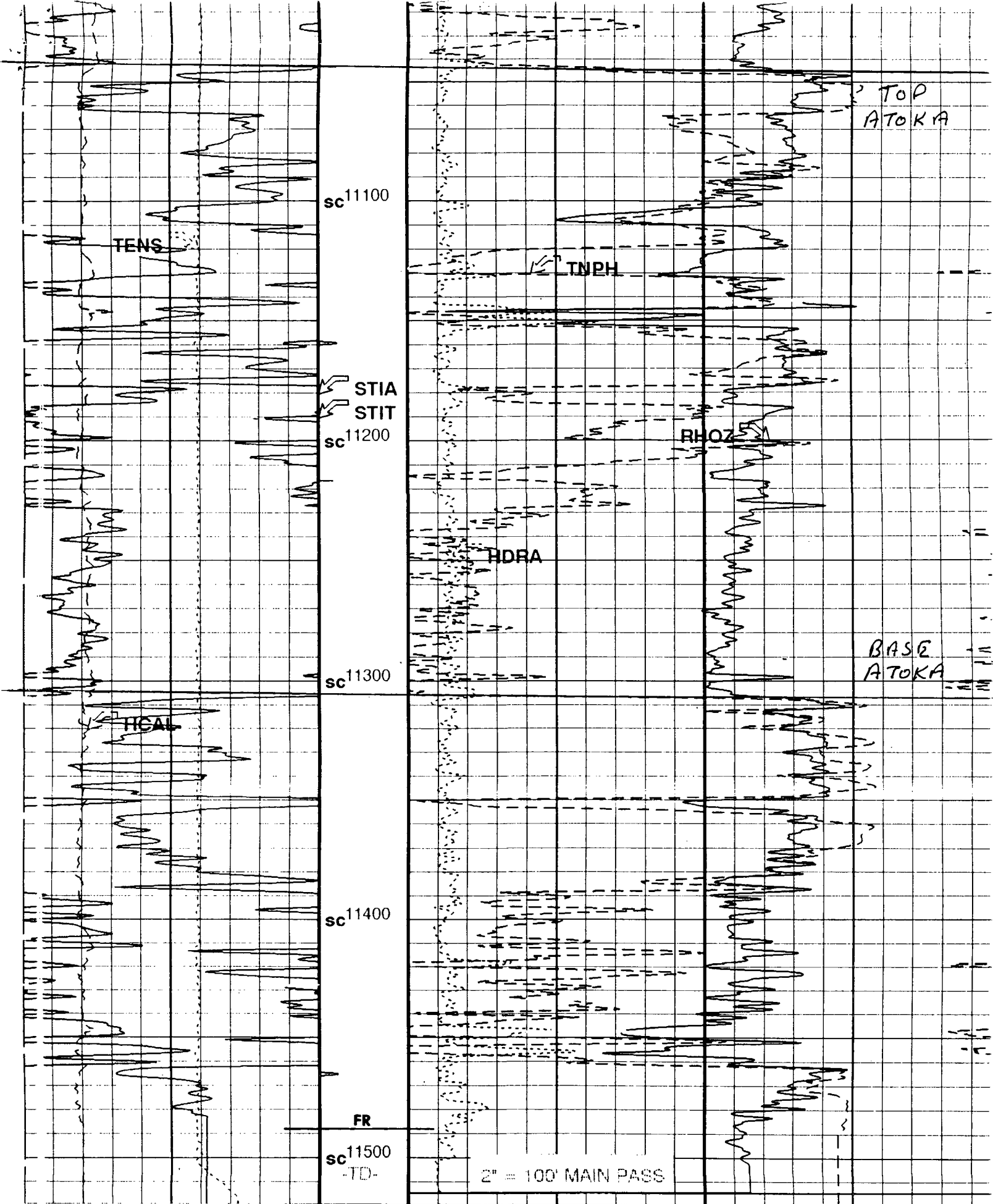
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
9222.13	20.00	55.50	9189.88	5199.88	136.60	198.76	241.17	241.17	55.50	.00
9322.13	20.00	55.50	9283.85	5293.85	155.97	226.94	275.37	275.37	55.50	.00
9422.13	20.00	55.50	9377.82	5387.82	175.35	255.13	309.58	309.58	55.50	.00
9522.13	20.00	55.50	9471.79	5481.79	194.72	283.32	343.78	343.78	55.50	.00
9622.13	20.00	55.50	9565.76	5575.76	214.09	311.50	377.98	377.98	55.50	.00
9722.13	20.00	55.50	9659.73	5669.73	233.46	339.69	412.18	412.18	55.50	.00
9822.13	20.00	55.50	9753.70	5763.70	252.83	367.88	446.38	446.38	55.50	.00
9922.13	20.00	55.50	9847.67	5857.67	272.21	396.06	480.59	480.59	55.50	.00
10022.13	20.00	55.50	9941.64	5951.64	291.58	424.25	514.79	514.79	55.50	.00
10122.13	20.00	55.50	10035.61	6045.61	310.95	452.44	548.99	548.99	55.50	.00
10222.13	20.00	55.50	10129.58	6139.58	330.32	480.62	583.19	583.19	55.50	.00
10322.13	20.00	55.50	10223.55	6233.55	349.70	508.81	617.39	617.39	55.50	.00
10422.13	20.00	55.50	10317.52	6327.52	369.07	537.00	651.60	651.60	55.50	.00
10522.13	20.00	55.50	10411.49	6421.49	388.44	565.18	685.80	685.80	55.50	.00
10622.13	20.00	55.50	10505.45	6515.45	407.81	593.37	720.00	720.00	55.50	.00
10722.13	20.00	55.50	10599.42	6609.42	427.18	621.56	754.20	754.20	55.50	.00
10822.13	20.00	55.50	10693.39	6703.39	446.56	649.74	788.40	788.40	55.50	.00
10922.13	20.00	55.50	10787.36	6797.36	465.93	677.93	822.61	822.61	55.50	.00
11022.13	20.00	55.50	10881.33	6891.33	485.30	706.12	856.81	856.81	55.50	.00
11122.13	20.00	55.50	10975.30	6985.30	504.67	734.30	891.01	891.01	55.50	.00

TOP ATOKA

11148.42	20.00	55.50	11000.00	7010.00	509.77	741.71	900.00	900.00	55.50	.00
11248.42	20.00	55.50	11093.97	7103.97	529.14	769.90	934.20	934.20	55.50	.00
11348.42	20.00	55.50	11187.94	7197.94	548.51	798.09	968.40	968.40	55.50	.00
11448.42	20.00	55.50	11281.91	7291.91	567.88	826.27	1002.61	1002.61	55.50	.00
11548.42	20.00	55.50	11375.88	7385.88	587.25	854.46	1036.81	1036.81	55.50	.00
11648.42	20.00	55.50	11469.85	7479.85	606.63	882.65	1071.01	1071.01	55.50	.00

BASE ATOKA

11680.50	20.00	55.50	11500.00	7510.00	612.84	891.69	1081.99	1081.99	55.50	.00
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NM 'L' ST. No. 18