

213734902

NSL

6/5/02

MAY 16

Date: 5-08-02

To: New Mexico Oil Conversation Division
1220 South St. Francis Drive
Santa Fe, NM 87504

Attention: Michael Stogner

From: Texaco Exploration and Production Inc. (Chevron U.S.A.)
15 Smith Road
Midland, TX 79705

Subject: **REQUEST FOR NON-STANDARD LOCATION**
J.B. McGHEE #157
(formerly West Dollarhide Drinkard Unit #157)

Dear Sirs,

Texaco Exploration and Production, Inc. respectfully requests approval for a non-standard location for the J.B. McGhee #157 located at Unit Letter P, Section 31, 24-S, 38-E, 1275' FSL, and 400' FEL, Lea County, New Mexico. The intent is to test the San Andres formation for production, thus the field will be the Wildcat San Andres.

Texaco is the only outside operator.

Form C-101, and Form C-102 (plat) is attached for your approval.

Questions concerning this request may be directed to Denise Wann at (915) 687-7380, or Denise Leake at (915) 687-7375

Sincerely,



J. Denise Leake
Regulatory Specialist
Chevron U.S.A.

Sax . 915
687
7905

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Revised February 10, 1999

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Fee Lease - 5 Copies

☐ AMENDED REPORT

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

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. 15 SMITH ROAD, MIDLAND, TX 79705		² OGRID Number 022351
		³ API Number 30-025-33404
⁴ Property Code	⁵ Property Name J. B. MCGHEE	⁶ Well No. 157

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
P	31	24-S	38-E		1275	SOUTH	400'	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
⁹ Proposed Pool 1 WILDCAT SAN ANDRES					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3133' GL
¹⁶ Multiple No	¹⁷ Proposed Depth 6935'	¹⁸ Formation SAN ANDRES	¹⁹ Contractor	²⁰ Spud Date 5/1/2002

²¹ Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
NO CHANGE					

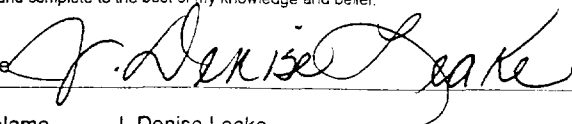
²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

TEXACO E & P INC. INTENDS TO RECOMPLETE THE SUBJECT WELL TO THE SAN ANDRES FORMATION. THIS WELL WAS FORMERLY THE WEST DOLLARHIDE DRINKARD UNIT #157. THE INTENDED PROCEDURE IS AS FOLLOWS:

- 1) VERIFY ANCHORS HAVE BEEN SET & TESTED.
- 2) MIRU PU. ND WH. NU BOP.
- 3) RUN BIT & SCRAPER TO 4100. CIRC CLN W/2% KCL WTR. POOH.
- 4) RU WL & RUN GR-CCL 4500-3500. PERF 3957-3966 W/4 JSPF. TIH W/PKR & WS TO 3970. SPOT 20% HCL TO 3870-100 GALS. SET PKR @ 3870. ACIDIZE PERFS 3957-3966 W/1500 GALS 20% HCL NEFE.
- 5) SWAB BACK SPENT ACID. TOH W/PKR. RUN 2 7/8" PRODUCTION TBG, PMP & RDS.
- 6) ND BOP. NU WH. RD PU. PLACE WELL ON PRODUCTION.

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



Printed Name

J. Denise Leake

Title

Regulatory Specialist

Date

4/24/2002

Telephone

915-687-7375

OIL CONSERVATION DIVISION

Approved By:

Title:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

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

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Revised February 10, 199

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-33404	² Pool Code	³ Pool Name WILDCAT <i>SAN ANDRES</i>
⁴ Property Code <i>formerly WADU #157</i>	⁵ Property Name J. B. MCGHEE	⁶ Well No. 157
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation 3133' GL

¹⁰ Surface Location

UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
P	31	24-S	38-E		1215	SOUTH	400'	EAST	LEA

¹¹ 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

¹² Dedicated Acre 40	¹³ Joint or Infill No	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	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature <i>J. Denise Leake</i> Printed Name J. Denise Leake Positio Regulatory Specialist Date 4/24/2002
	18 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 Signature & Seal of Professional Surveyor
	Certificate No.

ChevronTexaco

New Mexico Area
15 Smith Road
Midland, TX 79705
Fax: 915-687-7905

Fax

To: Mike Stogner FAX: 505-476-3471

FROM: Denise Wann FAX: _____

Phone: 915-687-7380 Pages: 2 (including cover sheet)

Re: MCGhee CC: _____

•Comments:

Base Lease covered South Half
of Sec 31, T 24 S, R 38 E

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

06/06/02 10:26:08
OGOMES -TPQQ
PAGE NO: 1

Sec : 31 Twp : 24S Rng : 38E Section Type : NORMAL

D 40.00 Federal owned U A A A	C 40.00 Federal owned U U A A A A	B 40.00 Federal owned U U A A A A	A 40.00 Federal owned U U A A A A A
E 40.00 Federal owned A	F 40.00 Federal owned U U A A	G 40.00 Federal owned U U A A A A A	H 40.00 Federal owned U U A A A A C

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

CMD :
OG5SECT
ONGARD
INQUIRE LAND BY SECTION

06/06/02 10:26:16
OGOMES -TPQQ
PAGE NO: 2

Sec : 31 Twp : 24S Rng : 38E Section Type : NORMAL

L	K	J	I
40.00	40.00	40.00	40.00
Free owned	Free owned U U A	Free owned U U A A	Free owned U U A A A A A C
M	N	O	P
40.00	40.00	40.00	40.00
Free owned	Free owned	Free owned U A A	Free owned U U A A A A

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

CMD : ONGARD 05/20/02 06:50:28
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPFT

API Well No : 30 25 33404 Eff Date : 09-27-1999 WC Status : T
Pool Idn : 18830 DOLLARHIDE;TUBB-DRINKARD
OGRID Idn : 22351 TEXACO EXPLORATION & PRODUCTION INC
Prop Idn : 10926 WEST DOLLARHIDE DRINKARD UNIT

Well No : 157
GL Elevation: 3133

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	:	P	31	24S	38E	FTG 1275 F S FTG 400 F E	A
Lot Identifier:							
Dedicated Acre:	40.00						
Lease Type	:	S					
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :							

E6317: No more recs. for this api well no.
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD : ONGARD 06/06/02 10:26:50
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPQQ

API Well No : 30 25 33404 Eff Date : 09-27-1999 WC Status : T
Pool Idn : 18830 DOLLARHIDE;TUBB-DRINKARD
OGRID Idn : 22351 TEXACO EXPLORATION & PRODUCTION INC
Prop Idn : 10926 WEST DOLLARHIDE DRINKARD UNIT

Well No : 157
GL Elevation: 3133

U/L Sec Township Range North/South East/West Prop/Act(P/A)

B.H. Locn : P 31 24S 38E FTG 1275 F S FTG 400 F E A
Lot Identifier:
Dedicated Acre: 40.00
Lease Type : S
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

E6317: No more recs. for this api well no.
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

WEST DOLLARHIDE QUEEN SAND UNIT AREA

No. 14-08-0001-8491

APPROVED: December 28, 1962

EFFECTIVE: January 1, 1963

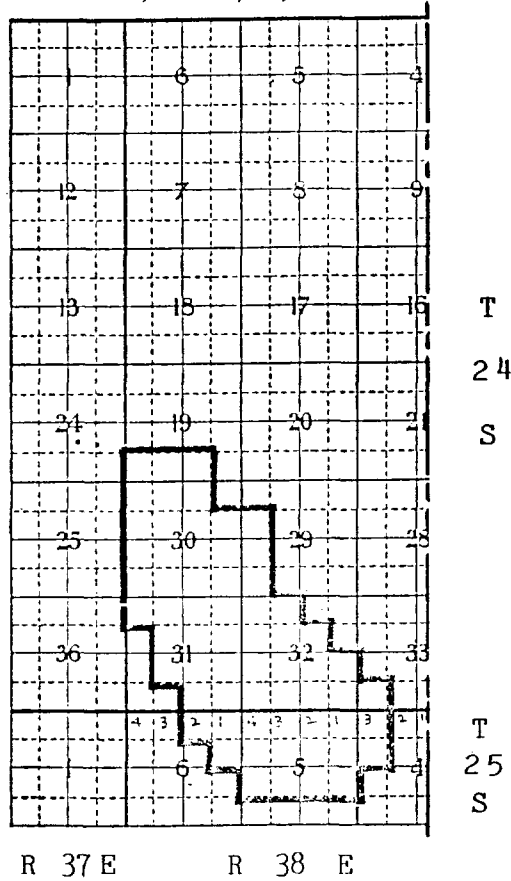
WATERFLOOD

Queen Formation

Lea County, New Mexico

Texaco, Inc., Operator

gulram, inc.
petroleum engineering and government regulation consultants



Federal Lands	760.00 acres
State Lands	1,202.52 acres
Fee Lands	<u>600.00 acres</u>
Total	2,562.52 acres

WEST DOLLARHIDE DRINKARD UNIT AREA

No. 14-08-0001-11570

APPROVED: May 26, 1969

EFFECTIVE: June 1, 1969

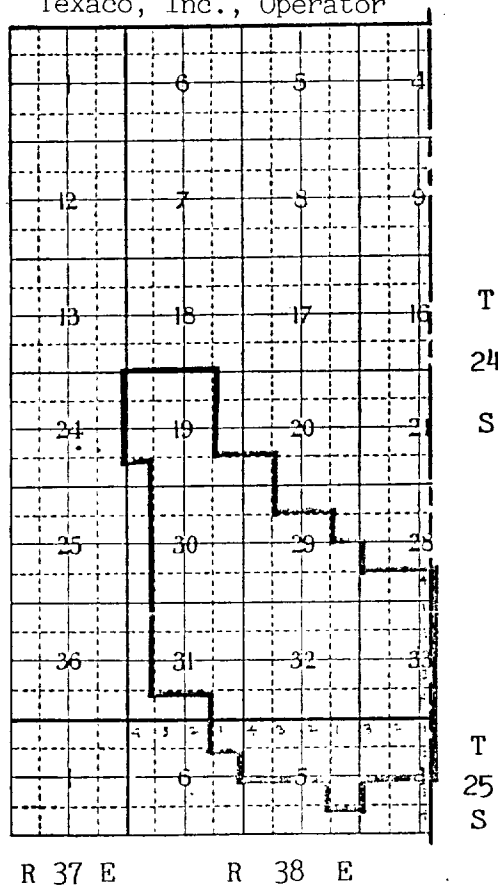
WATERFLOOD

Tubb, Drinkard and Abo Formations

Lea County, New Mexico

Texaco, Inc., Operator

gulram, inc.
petroleum engineering and government regulation consultants



Federal Lands	821.65 acres
State Lands	2,111.87 acres
Fee Lands	<u>600.00</u> acres
Total	3,533.52 acres

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

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-33404
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil / Gas Lease No.
7. Lease Name or Unit Agreement Name WEST DOLLARHIDE DRINKARD UNIT
8. Well No. 157
9. Pool Name or Wildcat DOLLARHIDE TUBB DRINKARD
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3133'

SUNDRY NOTICES AND REPORTS ON WELL
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator
205 E. Bender, HOBBS, NM 88240

4. Well Location
Unit Letter P 1275 Feet From The SOUTH Line and 400 Feet From The EAST Line
Section 31 Township 24-S Range 38-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3133'

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐
COMMENCE DRILLING OPERATION ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

10-27-97: MIRU. INSTL BOP. TAG BTM @ 6925'.
10-28-97: RAN BIT & CSG SCRAPER ON TBG. SCRAPE PERFS 6376-6880'. TAG BTM @ 6925'.
10-29-97: RAN SONIC HAMMER ON TBG. WSHD & ACIDIZED PERFS. DRINKARD ZONE 6376-6499' & ABO ZONE 6586-6880' W/283 BBLS 2% KCL FW & 5000 GALS 15% NEFE THRU SONIC HAMMER. FLSH W/37 BBLS 2% KCL FW.
10-30-97: RAN RBP, PKR, & SN. TEST @ 10,000 PSI. SET RBP @ 6540'.
10-31-97: KILL WELL. PSA 6534'. TET RBP TO 2500#. OK. RESET PKR @ 6258'. LOAD ANNULUS W/19 BBLS 2% KCL FW.
11-03-97: INSTL TREE SAVER. PRESS ANN TO 1000#. FRAC 6376-6499', DRINKARD, W/29,500 GALS OF 40# X-LNKD GEL.REM TREE SAVER & INSTL TIW VALVE.
11-04-97: TIH W/SINKER BAR TO PKR @ 6258'. NO SAND. UNSET PKR. TIH W/BIT & TBG.
11-05-97: TIH W/BIT ON BAILER & TBG. TAG SAND FILL @ 6433'. C/O SD TO 6529'.
11-06-97: TIH W/PKR ON TBG. PSA 6297'. SCALE SQUEEZE DRINKARD PERFS 6376-6499 W/110 GALW TH-793.
11-07-97: REL PKR. TIH W/MA, SN, TBG, TAC. SET @ 15' KB, BMT OF MA @ 6490'. SN @ 6457'. TAC @ 6265'. NDBOP. NUWH. TIH W/PUMP. WELL PUMPING @ 4:30 PM.
11-10-97: RD.
11-11/11-18-97: TESTING
11-18-97: ON 24 OPT. PUMPED 36 BO, 11 BW, & 21 MCFPD. CHANGE STATUS FR WO TO PUMPING-OIL.
FINAL REPORT

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

SIGNATURE J. Denise Leake TITLE Engineering Assistant DATE 1/20/98
TYPE OR PRINT NAME J. Denise Leake Telephone No. 397-0405

(This space for State Use)

APPROVED BY Chris Williams TITLE DISTRICT 1 SUPERVISOR DATE SEP 28 1999

CONDITIONS OF APPROVAL, IF ANY:

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-33404
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil / Gas Lease No.
7. Lease Name or Unit Agreement Name WEST DOLLARHIDE DRINKARD UNIT
8. Well No. 157
9. Pool Name or Wildcat DOLLARHIDE TUBB DRINKARD

SUNDRY NOTICES AND REPORTS ON WELL
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER ☐	2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.
3. Address of Operator 205 E. Bender, HOBBS, NM 88240	4. Well Location Unit Letter <u>P</u> ; <u>1275</u> Feet From The <u>SOUTH</u> Line and <u>400</u> Feet From The <u>EAST</u> Line Section <u>31</u> Township <u>24-S</u> Range <u>38-E</u> NMPM <u>LEA</u> COUNTY
10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>3133'</u>	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐
COMMENCE DRILLING OPERATION ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: TA ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

7-01-99: MIRU. PUMP STUCK-BACK OFF RDS. NUBOP. UNSET TAC.
7-02-99: STRIP OUT TBG & RDS. TIH W/BIT & SCRAPER TO 6400'. TIH W/CIBP TO 6350'.
7-03-99: LOAD AND TEST PLUG W/500 PSI FOR 30 MIN. CHART FOR NMOCD. (CHART ATTACHED).
7-06-99: DUMP 35' CMT ON CIBP. PBTB @ 6315'. NDBOP. FLANGE UP WH. RIG DOWN.
STATUS IS TA.

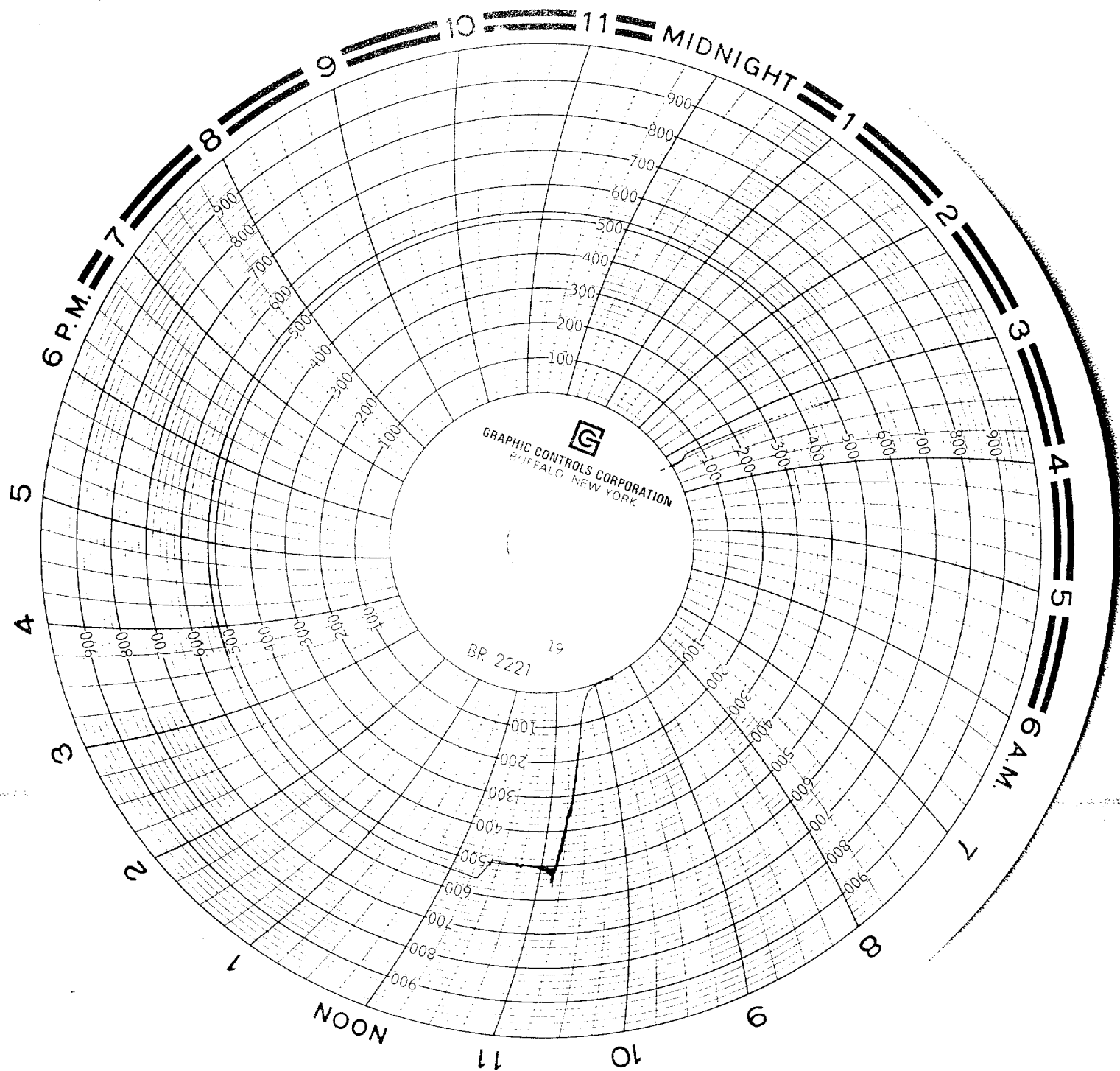
This Approval of Temporary
Abandonment Expires 9-27-2004

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

SIGNATURE J. Denise Leake TITLE Engineering Assistant DATE 7/22/99
TYPE OR PRINT NAME J. Denise Leake Telephone No. 397-0405

(This space for State Use)

APPROVED BY GARY W. WINK TITLE FIELD REPRESENTATIVE II DATE SEP 27 1999
CONDITIONS OF APPROVAL, IF ANY:



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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. 205 E. Bender, HOBBS, NM 88240		² OGRID Number 022351
		³ Reason for Filing Code NW
⁴ API Number 30-025-33404	⁵ Pool Name DOLLARHIDE TUBB DRINKARD	⁶ Pool Code 18830
⁷ Property Code 10926	⁸ Property Name WEST DOLLARHIDE DRINKARD UNIT	⁹ Well No. 157

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
P	31	24-S	38-E		1275	SOUTH	400	EAST	LEA

¹¹ Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/18/96	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
022507	TTT & I P.O. BOX 60628 MIDLAND, TX 79711	2479010	O	D-32-24S-38E LEA CO., N.M.
022345	TEXACO E & P INC., GAS PLT ACCT. 36TH FLOOR, P.O. BOX 4325 HOUSTON, TX 77210-4325	2813477	G	A-31-24S-38E LEA CO., N.M. 11-021-3196

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

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

District II

P.O. Box Drawer DD, Artesia, NM 88210

District III

000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.	30-025-33404
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil / Gas Lease	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

a. Type of Well:
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐
b. Type of Completion:
NEW WELL ☒ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RES. ☐ OTHER ☐

Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

Address of Operator
205 E. Bender, HOBBS, NM 88240

Well Location

Unit Letter P : 1275 Feet From The SOUTH Line and 400 Feet From The EAST Line

Section 31 Township 24-S Range 38-E NMPM LEA COUNTY

0. Date Spudded 9/20/96	11. Date T.D. Reached 10/2/96	12. Date Compl. (Ready to Prod.) 10/18/96	13. Elevations (DF & RKB, RT, GR, etc.) 3133'	14. Elev. Csghead
----------------------------	----------------------------------	--	--	-------------------

5. Total Depth 3935'	16. Plug Back T.D. 6924'	17. If Mult. Compl. How Many Zones?	18. Intervals Drilled By PRIDE	Rotary Tools	Cable Tools
-------------------------	-----------------------------	-------------------------------------	-----------------------------------	--------------	-------------

19. Producing Interval(s), of this completion - Top, Bottom, Name
6376'-6880' DRINKARD-ABO

20. Was Directional Survey Made
YES

21. Type Electric and Other Logs Run
3R-DLL-MSFL-BHC-CMR-CCL

22. Was Well Cored
NO

23. CASING RECORD (Report all Strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
3 5/8	24#	1200'	11	550 SACKS	
5 1/2	15.5 & 17#	6935'	7 7/8	1729 SACKS	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	6900'	

26. Perforation record (interval, size, and number)

3376'-6499' W/2JSPF .50" HOLES
3586'-6880' W/2JSPF .50" HOLES

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6376'-6499'	ACID W/6500 GALS 15% NEFE HCL
6586'-6880'	ACID W/3500 GALS 15% NEFE HCL

28. PRODUCTION

Date First Production 10/18/96	Production Method (Flowing, gas lift, pumping - size and type pump) PUMPING (2.5" X 1.5" X 26')	Well Status (Prod. or Shut-in) PRODUCING
-----------------------------------	--	---

Date of Test 10-20-96	Hours tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 142	Gas - MCF 126	Water - Bbl. 54	Gas - Oil Ratio 887
--------------------------	--------------------	------------	------------------------	-------------------	------------------	--------------------	------------------------

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)
--------------------	-----------------	-------------------------	------------	-----------	--------------	----------------------------

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

Test Witnessed By
TVS

30. List Attachment DEVIATION SURVEY

1. I hereby certify that the information on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNATURE Paula S. Ives TITLE Engineering Assistant DATE 12/9/96

TYPE OR PRINT NAME Paula S. Ives Telephone No. 397-0432

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Anhy	1154'	T. Canyon
Salt	1346'	T. Strawn
Salt	2515'	T. Atoka
Yates	2647'	T. Miss
7 Rivers	2922'	T. Devonian
Queen	3570'	T. Silurian
Grayburg	3803'	T. Montoya
San Andres	4002'	T. Simpson
Glorieta	5093'	T. McKee
Paddock		T. Ellenburger
Blinberry	5362'	T. Gr. Wash
Tubb	6011'	T. Delaware Sand
Drinkard	6172'	T. Bone Springs
Abo	6524'	T.
Wolfcamp		T.
Penn		T.
Cisco (Bough C)		T.

Northwestern New Mexico

T. Ojo Alamo	T. Penn "B"
T. Kirtland-Fruitland	T. Penn "C"
T. Pictured Cliffs	T. Penn "D"
T. Cliff House	T. Leadville
T. Menefee	T. Madison
T. Point Lookout	T. Elbert
T. Mancos	T. McCracken
T. Gallup	T. Ignacio Otzte
T. Base Greenhorn	T. Granite
T. Dakota	T.
T. Morrison	T.
T. Todilto	T.
T. Entrada	T.
T. Wingate	T.
T. Chinle	T.
T. Permian	T.
T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from	6376'	to	6499'	No. 3, from	to
No. 2, from	6586'	to	6880'	No. 4, from	to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in the hole.

No. 1, from	to	feet
No. 2, from	to	feet
No. 3, from	to	feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
1154	1154		SANDSTONE, SHALE				
1346	1346	192	ANHYDRITE, SHALE, SALT				
2515	2515	1169	SALT, ANHYDRITE, SHALE				
2647	2647	132	ANHYDRITE, DOLOMITE				
2922	2922	275	ANHYDRITE, SANDSTONE				
3570	3570	648	DOLOMITE, SANDSTONE				
3803	3803	233	SANDSTONE, DOLOMITE				
4002	4002	199	DOLOMITE, SANDSTONE				
5093	5093	1091	DOLOMITE				
5362	5362	269	SANDSTONE, DOLOMITE				
6011	6011	649	DOLOMITE				
6172	6172	161	DOLOMITE, SANDSTONE				
6524	6524	352	DOLOMITE, SANDSTONE				

EASE & WELL

WDDU #157

Unit P

LOCATION

Sec. 31, T-24-S, R-38E

1275/5 & 400/E

(Give Unit, Section, Township and Range)

OPERATOR

Texaco E & P

30.025-33404

DRILLING CONTRACTOR

NABORS DRILLING USA, INC.

The Undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH
1/2 @ 251	1 3/4 @ 3917		
1/2 @ 751	2 1/4 @ 4411		
3/4 @ 1200	1 3/4 @ 4654		
1 1/4 @ 1278	2 @ 4844		
1 1/2 @ 1400	1 1/2 @ 5328		
1 1/4 @ 1554	3/4 @ 5820		
1 1/4 @ 1706	1 @ 6315		
1 1/2 @ 1861	1 1/4 @ 6900		
2 1/4 @ 2078			
2 1/2 @ 2356			
2 1/2 @ 2479			
2 1/4 @ 2633			
2 1/4 @ 2787			
2 @ 2942			
1 3/4 @ 3429			

Drilling Contractor

Nabors Drilling USA, Inc.

By

Jimmy Stroud

Subscribed and sworn to before me this 21st day of October, 1996

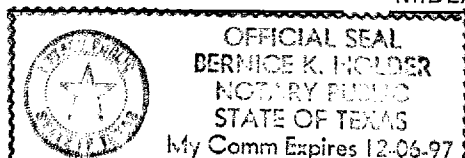
Notary Public

My Commission Expires

MIDLAND

County

TEXAS



DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

30-025-33404

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil / Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT
(FORM C-101) FOR SUCH PROPOSALS.

1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER

2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator P.O. Box 2100, Denver Colorado 80201

4. Well Location
Unit Letter P : 1275 Feet From The SOUTH Line and 400 Feet From The EAST Line
Section 31 Township 24-S Range 38-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3133'

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPERATION ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐ COMPLETION ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. SET LUFKIN 640D PUMPING UNIT. 10-18-96.
2. RUN CASED HOLE CCL LOGS. PERF'D 6586'-6880' W/2JSPF. 50" HOLES. 10-10-96.
3. DOWELL ACIDIZED PERFS 6586'-6880' W/ 3500 GALS 15% HCL NEFE ACID. 10-11-96.
4. RIH W/ BAKER WL SET 5 1/2" RBP AND SET @ 6510'. 10-12-96.
5. PERF'D 2 JT SHOTS/FT W/ 120 DEGREE PHASING AND .50" HOLES FROM 6376'-6499'. 10-12-96.
6. DOWELL ACIDIZED W/ 6500 GALS 15% HCL NEFE. 10-13-96.
7. PU AND RUN 16' x 1-1/2" GAS ANCHOR - 1 1/2" x 26' RHBC PUMP, PONIES, K-BARS, RODS. 10-17-96.
8. POT: 142 BO, 54 BLW W/ 126 MCF OF GAS IN 24 HOURS. 10-20-96.

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

SIGNATURE C. P. Basham / SCD TITLE Eng. Assistant.

DATE 10/30/96

TYPE OR PRINT NAME Sheilla D. Reed-High

Telephone No. (303)621-4851

(This space for State Use)

APPROVED Gary W. Wink TITLE FIELD REPRESENTATIVE II

CONDITIONS OF APPROVAL, IF ANY:

DATE

NOV 06 1996

DeSoto/Nichols 10-94 ver 2.0

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 30-025-33404
⁴ Property Code 10926	⁵ Property Name WEST DOLLARHIDE DRINKARD UNIT	⁶ Well No. 157

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
P	31	24-S	38-E		1275	SOUTH	400	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
⁹ Proposed Pool 1 DOLLARHIDE TUBB DRINKARD					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3133'
¹⁶ Multiple No	¹⁷ Proposed Depth 6900'	¹⁸ Formation TUBB DRINKARD	¹⁹ Contractor NABORS	²⁰ Spud Date 6/1/96

²¹ Proposed Casing and Cement Program					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11	8 5/8	24#	1185'	525 SACKS	SURFACE
7 7/8	5 1/2	15.5 & 17#	6900'	2000 SACKS	SURFACE
Permit Expires 1 Year From Approval Date Unless Drilling Underway					

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 - 325 SACKS CLASS C W/ 4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/S, 9.11 GW/S). F/B 200 SACKS CLASS C W/ 1% CACL2 (14.8 PPG, 1.32 CF/S, 6.3 GW/S).

PRODUCTION CASING - 1500 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.5 GW/S). F/B 500 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

OXY OPERATES A WELL NEAR THIS WELL AND HAS BEEN FURNISHED A COPY OF THIS APPLICATION.

UNORTHODOX LOCATION: DISTRICT APPROVAL REQUESTED PER RULE 104.F.(1) FOR EFFICIENT PRODUCTION PATTERN.

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.		OIL CONSERVATION DIVISION	
Signature <i>C. Wade Howard</i>		Approved By: <i>[Signature]</i>	
Printed Name C. Wade Howard		Title: DISTRICT 1 SUPERVISOR	
Title Eng. Assistant		Approval Date: APR 29 1996	Expiration Date:
Date 4/25/96	Telephone 688-4606	Conditions of Approval: Attached ☐	

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 2089, Santa Fe, NM 87504-2089

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 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

API Number 30-025-33404	Pool Code 18830	Pool Name DOLLARHIDE TUBB DRINKARD
Property Code 10926	Property Name WEST DOLLARHIDE DRINKARD UNIT	Well Number #157
OGRID No. 22351	Operator Name TEXACO EXPLORATION & PRODUCTION INC.	Elevation 3133'

Surface Location

UL or lot no. P	Section 31	Township 24-S	Range 38-E	Lot Idn	Feet from the 1275.0	North/South line SOUTH	Feet from the 400.0	East/West line EAST	County LEA
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Bottom Hole Location If Different From Surface

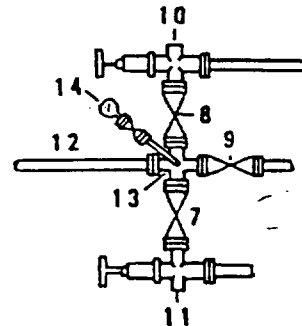
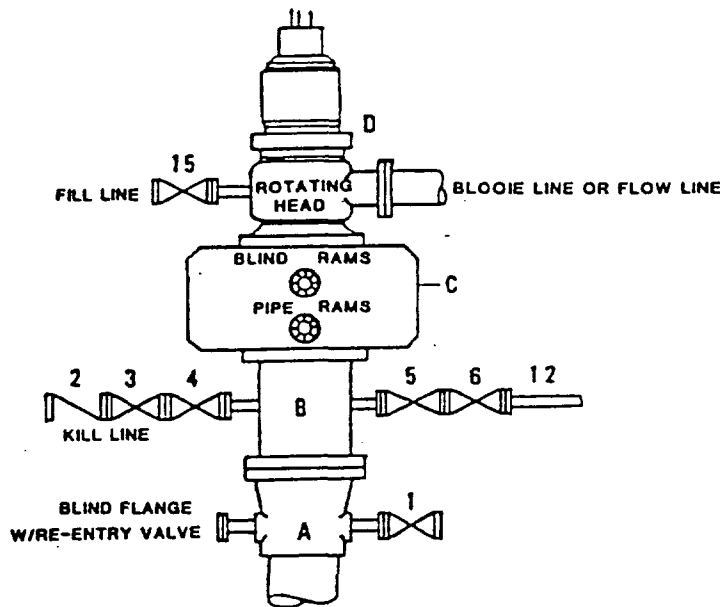
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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

	OPERATOR CERTIFICATION <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i> Signature <i>C. Wade Howard</i> Printed Name C. WADE HOWARD Position ASSISTANT ENGINEERING TECHNICIAN Company TEXACO EXPLOR. & PROD. INC. Date 04-18-96
	SURVEYOR CERTIFICATION <i>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.</i> Date Surveyed 04-18-96 Signature & Seal of Professional Surveyor <i>David B. ...</i> Certificate No. 4882

**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 Blooe 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.	DRG. NO.
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			

EXHIBIT C

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

30-025-33404

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil / Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT
(FORM C-101) FOR SUCH PROPOSALS.

1. Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator
P.O. Box 2100, Denver Colorado 80201

4. Well Location
Unit Letter P : 1275 Feet From The SOUTH Line and 400 Feet From The EAST Line
Section 31 Township 24-S Range 38-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3133'

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPERATION ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☒ SPUD, SURF CSG, PROD CSG.

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. NABORS RIG SPUD 11 INCH HOLE @ 1700 HOURS 09-20-96. DRILLED TO 1200'. TD @ 1100 HOURS 09-21-96.
2. RAN 27 JOINTS OF 8 5/8 INCH, 24#, WC-50, STC CASING SET @ 1207'. RAN 8 CENTRALIZERS.
3. DOWELL CEMENTED WITH 350 SACKS CLASS C W/ 4% GEL, 2% CACL2 (12.8 PPG, 1.94 CF/S). F/B 200 SACKS CLASS C W/ 1% CACL2 (14.8 PPG, 1.32 CF/S). PLUG DOWN @ 4:20 PM 09-21-96. CIRCULATED 48 SACKS.
4. NU BOP & TESTED TO 1200#. TESTED CASING TO 1200# FOR 30 MINUTES FROM 4:00 AM TO 4:30 AM 09-22-96.
5. WOC TIME 12-1/4 HOURS FROM 4:20 PM 09-21-96 TO 4:00 AM 09-22-96. REQUIREMENTS OF RULE 107, OPTION 2:
 1. VOLUME OF CEMENT SLURRY: LEAD 679 (CU. FT.), TAIL 264 (CU. FT.).
 2. APPROX. TEMPERATURE OF SLURRY WHEN MIXED: 50 F.
 3. EST. FORMATION TEMPERATURE IN ZONE OF INTEREST: 90 F.
 4. EST. CEMENT STRENGTH AT TIME OF CASING TEST: 1717 PSI.
 5. ACTUAL TIME CEMENT IN PLACE PRIOR TO TESTING: 12-1/4 HOURS.
6. DRILLING 7 7/8 INCH HOLE.
7. DRILLED 7 7/8 INCH HOLE TO 6935'. TD @ 12:45 PM 10-02-96.
8. RU SCHLUMBERGER. RAN GR-DLL-MSFL-BHC-CMR 6927'-5000', NNGT-CNL-LDT 6917'-5000', GR-CNL TO SURFACE.
9. RAN 23 JOINTS OF 5 1/2 INCH (1027'), 17#, L-80 AND 26 JOINTS OF 5 1/2 INCH (1117') 17#, WC-50 AND 110 JOINTS OF 5 1/2 INCH (4796') 15.50# WC-50, LTC CASING SET @ 6940'.
10. DOWELL CEMENTED: 1229 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S). F/B 500 SACKS CLASS H NEAT (15.6 PPG, 1.18 CF/S). PLUG DOWN @ 3:15 AM 10-04-96. CIRCULATED 145 SACKS.
11. ND. RELEASE RIG @ 6:00 AM 10-04-96.
12. PREP TO COMPLETE.

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

SIGNATURE C.P. Basham SR TITLE Eng. Assistant.

DATE 10/9/96

TYPE OR PRINT NAME Sheilla D. Reed-High

Telephone No. (303)621-4851

(This space for State Use)

APPROVED [Signature]
CONDITIONS OF APPROVAL, IF ANY:

TITLE DISTRICT 1 SUPERVISOR

DATE OCT 10 1996

DeSoto/Nichols 10-94 ver 2.0

Schlumberger

Dowell

CemDABE Cement Test Report

September 27, 1996

DATE OF TEST : 27-sep-1996

TEST NUMBER : NPD668300001

CUSTOMER : TEXACO
FIELD : LEA NM
WELL : WDDU 157

CEMENT
Class : H
Blend : 3565
Brand : LONESTAR
Plant : MARYNEAL

BASE FLUID

Density : 8.32 lb/gal
Volume : 10.46 gal/sk
Type : LO
Total liquid : 8.32 gal/sk

SLURRY

Density : 12.80 lb/gal
Yield : 1.94 ft³/sk

ADDITIVES		
Code	Concent.	Unit
D020	6.000	% BWOC
D029	0.250	% BWOC
D044	5.000	% BWOW

B.H.S.T. : 122.0 F
B.H.C.T. : 110.0 F

Rheological model (Dial 1) : Bingham Plastic

T_y : 28.106 lbf/100ft²

P_y : 9.038 cP

Correlation coefficient : 1.000

Thickening Time : 4 hr 6 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological data		
Temp. (F) :	75.0	0.0
R.P.M.	Dial 1	Dial 2
300.0	37.0	0.0
200.0	34.0	0.0
100.0	31.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	22.0	0.0
3.0	13.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
10 minutes Gel : 0.0		

Compressive strength		
PSI	Hours	Temp. (F)
140	6.0	122.0
250	12.0	122.0
360	24.0	122.0

Comment :

FIELD BLEND

35/65POZ/H + 6%D20 + 5%D44(BWOW) + 0.25PPSD29

LOCATION WATER USED

LONG STRING LEAD 6900' POD = 2:40

P.02

FAX NO. 15053933132

DOWELL HOBBS

OCT-07-96 MON 15:13

Schlumberger

Dowell

CemDABE Cement Test Report

September 27, 1996

DATE OF TEST : 27-sep-1996

TEST NUMBER : NPD668300002

CUSTOMER : TEXACO
FIELD : LEA NM
WELL : WDDU 157

CEMENT
Class : H
Blend :
Brand : LONESTAR
Plant : MARYNEAL

BASE FLUID

Density : 8.32 lb/gal
Volume : 5.28 gal/sk
Type : LO
Total liquid : 5.28 gal/sk

SLURRY

Density : 15.60 lb/gal
Yield : 1.18 ft³/sk

B.H.S.T. : 122.0 F

B.H.C.T. : 110.0 F

No additives

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

T_y : 26.098 lb_f/100ft²

P_o : 18.076 cP

Correlation coefficient : 1.000

Thickening Time : 4 hr 3 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

Rheological data		
Temp. (F) :	75.0	0.0
R.P.M.	Dial 1	Dial 2
300.0	44.0	0.0
200.0	38.0	0.0
100.0	32.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	18.0	0.0
3.0	17.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
10 minutes Gel : 0.0		

Compressive strength		
PSI	Hours	Temp. (F)
260	6.0	122.0
1372	12.0	122.0
1945	24.0	122.0

Comment :

FIELD BLEND

CLASS H NEAT

LOCATION WATER USED

LONG STRING TAIL 6900'

P. 03

FAX NO. 15053933132

DOWELL HOBBS

OCT-07-96 MON 15:13

ILLEGIBLE



CEMENTING REPORT

Fire No. _____ Report Date: _____

Department: Texas Requested By: _____

Case No: WDBH 157 Service Point: MMN

Location: Lee NM Type of Job: Su-Loc

Test Conditions:

Design: 1190 Temp Grad: _____ BHST: 90 °F. BHST: 85 °F

Properties:	Density (ppg)	Yield (lb/ft ³ /sk)	Mix Water (gal/sk)	Total Liquid (gal/sk)	Water Source	Cement Source
System No. 1	<u>13.5</u>	<u>1.74</u>	<u>9.11</u>	<u>9.11</u>	<u>LOC</u>	<u>C</u>
System No. 2	<u>14.8</u>	<u>1.32</u>	<u>6.32</u>	<u>6.32</u>	<u>LOC</u>	<u>C</u>
System No. 3						
System No. 4						

Cement System Compositions:

System No. 1: Class C + 47.5% + 27.51

System No. 2: Class C + 17.51

System No. 3: _____

System No. 4: _____

Thickening Time Results

Rheology Results

SYSTEM	MP MIN	BC	300	200	100	50	30	9	3	SP (ppg)	TY (cP)	RHEOLOGY MODEL	U.D.
No. 1	<u>3:50</u>	<u>70</u>	<u>47</u>	<u>44</u>	<u>42</u>	<u>41</u>	<u>31</u>	<u>28</u>	<u>21</u>				
No. 2	<u>2:50</u>	<u>70</u>	<u>38</u>	<u>34</u>	<u>27</u>	<u>21</u>	<u>17</u>	<u>14</u>	<u>10</u>				
No. 3													
No. 4													

Compressive Strengths - psi

SYSTEM	TEMP	C MRS.	1 CMRS.	2 CMRS.
No. 1	<u>90 °F</u>	<u>430</u>	<u>800</u>	<u>975</u>
No. 1	<u>°F</u>			
No. 2	<u>90 °F</u>	<u>750</u>	<u>1480</u>	<u>1960</u>
No. 2	<u>°F</u>			
No. 3	<u>°F</u>			
No. 3	<u>°F</u>			
No. 4	<u>°F</u>			
No. 4	<u>°F</u>			

FLUID LOSS

FRESH WATER

SYSTEM	°F.	25'	°F
	ML/30 min		ML
No. 1			
No. 2			
No. 3			
No. 4			

Remarks: Previous Tests

WRS COMPLETION REPORT

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NMEX LEA * 1275FSL 400FEL SEC
STATE COUNTY FOOTAGE SPOT
TEXACO EXPL & PROD D DO
OPERATOR WELL CLASS INIT FIN
157 WEST DOLLARHIDE (DRINKARD) UNIT
WELL NO. LEASE NAME
3146KB 3133GR DOLLARHIDE
OPER ELEV FIELD/POOL/AREA
API 30-025-33404-0000
LEASE NO. PERMIT OR WELL I.D. NO.
09/20/1996 10/20/1996 ROTARY VERT OIL
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS
6900 DRINKARD NABORS DRLG USA 348 RIG SUB 12
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 6935 PB 6924 FM/TD ABO
DRILLERS T.D. LOG T.D. PLUG BACK TO OLD T.D. FORM T.D.

LOCATION DESCRIPTION

7 MI NE JAL, NM

CASING/LINER DATA

CSG 8 5/8 @ 1200 W/ 550 SACKS
CSG 5 1/2 @ 6935 W/ 1729 SACKS

TUBING DATA

TBG 2 7/8 AT 6900

INITIAL POTENTIAL

IPP 142BOPD 126 MCFD 54BW 24HRS
DRINKARD PERF W/ 2/FT 6376- 6499
ABO PERF W/ 2/FT 6586- 6880
GOR 887 GTY NOT RPTD
FIELD /RESERVOIR
/DRINKARD

COMMINGLED

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	RUSTLER		1154 1979	
LOG	SALT		1346 1787	2515 618
LOG	YATES		2647 486	
LOG	SVN RVRS		2922 211	
LOG	QUEEN		3570 -437	
LOG	GRAYBURG		3803 -670	

CONTINUED IC# 300257025596

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PI-WRS-GET
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TEXACO EXPL & PROD D DO
 157 WEST DOLLARHIDE (DRINKARD) UNIT

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	SN ANDRS		4002 -869	
LOG	GLORIETA		5093 -1960	
LOG	BLINEBRY		5362 -2229	
LOG	DRINKARD		6172 -3039	
LOG	ABO		6524 -3391	

SUBSEA MEASUREMENTS FROM GR

PRODUCTION TEST DATA

PTP	142BOPD	126	MCFD	54BW	24HRS
DRINKARD	PERF		W/	2/FT	6376- 6499
ABO	PERF		W/	2/FT	6586- 6880
PERF	6376- 6499	6586- 6880			
ACID	6586- 6880	3500GALS			
		15% NEFE HCL			
ACID	6376- 6499	6500GALS			
		15% NEFE HCL			

COMMINGLED

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS	GR	DLL	MSFL
LOGS	BHCS	CCL	

DRILLING PROGRESS DETAILS

TEXACO EXPL & PROD
 BOX 3109
 MIDLAND, TX 79702
 915-688-4100
 04/29 LOC/1996/
 09/24 DRLG AHEAD
 10/08 6935 TD, SI
 12/19 6935 TD, PB 6924, WOPT
 01/02 RIG REL 10/02/96
 6935 TD, PB 6924
 COMP 10/20/96, IPP 142 BO, 126 MCFGPD, 54
 BWP, GTY (NR), GOR 887
 PROD ZONE - DRINKARD 6376-6880 (GROSS)
 (COMMINGLED)
 NO CORES OR TESTS RPTD