

District I - (505) 393-6161

PO Box 1980

Hobbs, NM 88241-1980

District II - (505) 748-1283

811 S. First

Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Road

Aztec, NM 87410

New Mexico

Energy, Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street

Santa Fe, New Mexico 87505

(505) 827-7131

Form C-140

Originated 11/1/95

Submit Original

Plus 2 Copies

to appropriate

District Office

H-0329

**APPLICATION FOR**  
**QUALIFICATION OF WELL WORKOVER PROJECT**  
**AND CERTIFICATION OF APPROVAL**

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE CONSERVATION DIVISION.

I. Operator: Texaco Exploration & Production Inc OGRID #: 022351

Address: 205 E. Bender Blvd.; Hobbs, New Mexico 88240

Contact Party: Paula S. Ives Phone #: (505) 397-0432

II. Name of Well: West Dollarhide Drinkard Unit #145 API #: 30 025 32373

Location of Well: Unit Letter K, 2589 Feet from the South line and 2060 feet from the West line,  
Section 32, Township 24S, Range 38E, NMPM, Lea County

III. Date Workover Procedures Commenced: 03-27-97  
Date Workover Procedures were Completed: 04-24-97

IV. Attach a description of the Workover Procedures undertaken to increase the projection from the Well.

V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.

VI. Pool(s) on which Production Projection is based: Dollarhide Tubb Drinkard

VII. AFFIDAVIT:

State of N. M. )

) ss.

County of Lea )

Russell S. Pool, being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.
2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.  
Restoration Project.
3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

[Signature]  
(Name)

Senior Engineer, Hobbs Operating Unit  
(Title)

JUL 09 1997

[Signature]

SUBSCRIBED AND SWORN TO before me this 25<sup>th</sup> day of June, 1997.

Pam D. Hunt  
Notary Public Pam D. Hunt

My Commission expires: 9/13/97

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 8-24-97, 1997.

[Signature]  
District Supervisor, District  
Oil Conservation Division

Date: 7/9/97

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.  
DATE: \_\_\_\_\_

# Production Projection

Well Name & #:

West Dollarhide Drinkard Unit #145

Prior Oil Prod. Rate (BOPD):

22

Producing Formation:

Dollarhide Tubb Drinkard

Oil Decline Factor:

0.946964314

Oil Decline Rate (%):

52

Gas Decline Rate (%):

0.95562096

Completion Date (m/yr):

Apr-97

| Month  | Projected Oil<br>Production | Projected Gas<br>Production | Projected Cumulative<br>Oil Production | Projected Cumulative<br>Gas Production |
|--------|-----------------------------|-----------------------------|----------------------------------------|----------------------------------------|
| Apr-97 | 669                         | 1581                        | 669                                    | 1581                                   |
| May-97 | 633                         | 1511                        | 1302                                   | 3091                                   |
| Jun-97 | 600                         | 1444                        | 1902                                   | 4535                                   |
| Jul-97 | 568                         | 1380                        | 2470                                   | 5915                                   |
| Aug-97 | 538                         | 1318                        | 3008                                   | 7233                                   |
| Sep-97 | 509                         | 1260                        | 3517                                   | 8493                                   |
| Oct-97 | 482                         | 1204                        | 3999                                   | 9697                                   |
| Nov-97 | 457                         | 1150                        | 4456                                   | 10847                                  |
| Dec-97 | 432                         | 1099                        | 4888                                   | 11947                                  |
| Jan-98 | 410                         | 1051                        | 5298                                   | 12997                                  |
| Feb-98 | 388                         | 1004                        | 5686                                   | 14001                                  |
| Mar-98 | 367                         | 959                         | 6053                                   | 14961                                  |
| Apr-98 | 348                         | 917                         | 6401                                   | 15877                                  |
| May-98 | 329                         | 876                         | 6730                                   | 16754                                  |
| Jun-98 | 312                         | 837                         | 7042                                   | 17591                                  |
| Jul-98 | 295                         | 800                         | 7337                                   | 18391                                  |
| Aug-98 | 280                         | 765                         | 7617                                   | 19156                                  |
| Sep-98 | 265                         | 731                         | 7882                                   | 19886                                  |
| Oct-98 | 251                         | 698                         | 8133                                   | 20585                                  |
| Nov-98 | 237                         | 667                         | 8370                                   | 21252                                  |
| Dec-98 | 225                         | 638                         | 8595                                   | 21890                                  |
| Jan-99 | 213                         | 609                         | 8808                                   | 22499                                  |
| Mar-99 | 202                         | 582                         | 9010                                   | 23081                                  |
| Apr-99 | 191                         | 556                         | 9201                                   | 23638                                  |
| Apr-99 | 181                         | 532                         | 9381                                   | 24169                                  |
| May-99 | 171                         | 508                         | 9553                                   | 24678                                  |
| Jun-99 | 162                         | 486                         | 9715                                   | 25163                                  |
| Jul-99 | 154                         | 464                         | 9868                                   | 25627                                  |
| Aug-99 | 145                         | 443                         | 10014                                  | 26071                                  |
| Sep-99 | 138                         | 424                         | 10152                                  | 26495                                  |
| Oct-99 | 130                         | 405                         | 10282                                  | 26900                                  |
| Nov-99 | 123                         | 387                         | 10405                                  | 27287                                  |
| Dec-99 | 117                         | 370                         | 10522                                  | 27657                                  |
| Jan-00 | 111                         | 353                         | 10633                                  | 28010                                  |
| Mar-00 | 105                         | 338                         | 10738                                  | 28348                                  |
| Apr-00 | 99                          | 323                         | 10837                                  | 28670                                  |

# Production Projection

|        |    |     |       |       |
|--------|----|-----|-------|-------|
| Apr-00 | 94 | 308 | 10931 | 28979 |
| May-00 | 89 | 295 | 11020 | 29274 |
| Jun-00 | 89 | 295 | 11020 | 29274 |
| Jul-00 | 84 | 282 | 11105 | 29555 |
| Aug-00 | 80 | 269 | 11185 | 29824 |
| Sep-00 | 76 | 257 | 11260 | 30082 |
| Oct-00 | 72 | 246 | 11332 | 30327 |
| Nov-00 | 68 | 235 | 11400 | 30562 |
| Dec-00 | 64 | 224 | 11464 | 30787 |
| Jan-01 | 61 | 215 | 11525 | 31001 |
| Mar-01 | 58 | 205 | 11582 | 31206 |
| Apr-01 | 55 | 196 | 11637 | 31402 |
| Apr-01 | 52 | 187 | 11688 | 31589 |
| May-01 | 49 | 179 | 11737 | 31768 |
| Jun-01 | 48 | 179 | 11737 | 31768 |
| Jul-01 | 46 | 171 | 11784 | 31939 |
| Aug-01 | 44 | 163 | 11827 | 32103 |
| Sep-01 | 42 | 156 | 11869 | 32259 |
| Oct-01 | 39 | 149 | 11908 | 32408 |
| Nov-01 | 37 | 143 | 11945 | 32551 |
| Dec-01 | 35 | 136 | 11981 | 32687 |
| Jan-02 | 33 | 130 | 12014 | 32817 |
| Mar-02 | 32 | 124 | 12046 | 32941 |
| Apr-02 | 30 | 119 | 12076 | 33060 |
| Apr-02 | 28 | 114 | 12104 | 33174 |
| May-02 | 27 | 109 | 12131 | 33282 |
| Jun-02 | 27 | 109 | 12131 | 33282 |
| Jul-02 | 25 | 104 | 12156 | 33386 |
| Aug-02 | 24 | 99  | 12180 | 33485 |
| Sep-02 | 23 | 95  | 12203 | 33580 |
| Oct-02 | 22 | 91  | 12225 | 33671 |
| Dec-02 | 20 | 87  | 12245 | 33757 |
| Jan-03 | 19 | 83  | 12265 | 33840 |
| Feb-03 | 18 | 79  | 12283 | 33919 |
| Mar-03 | 17 | 76  | 12300 | 33994 |
| Apr-03 | 16 | 72  | 12317 | 34067 |
| Apr-03 | 16 | 69  | 12332 | 34136 |
| May-03 | 15 | 66  | 12347 | 34201 |
| Jun-03 | 14 | 63  | 12361 | 34264 |
| Jul-03 | 13 | 60  | 12374 | 34325 |
| Aug-03 | 13 | 58  | 12387 | 34382 |
| Oct-03 | 12 | 55  | 12399 | 34437 |
| Nov-03 | 11 | 53  | 12410 | 34490 |
| Dec-03 | 11 | 50  | 12421 | 34540 |
| Jan-04 | 10 | 48  | 12431 | 34588 |
| Feb-04 | 10 | 46  | 12440 | 34634 |
| Mar-04 | 9  | 44  | 12449 | 34677 |
| Apr-04 | 9  | 42  | 12458 | 34719 |
| Apr-04 | 8  | 40  | 12466 | 34759 |

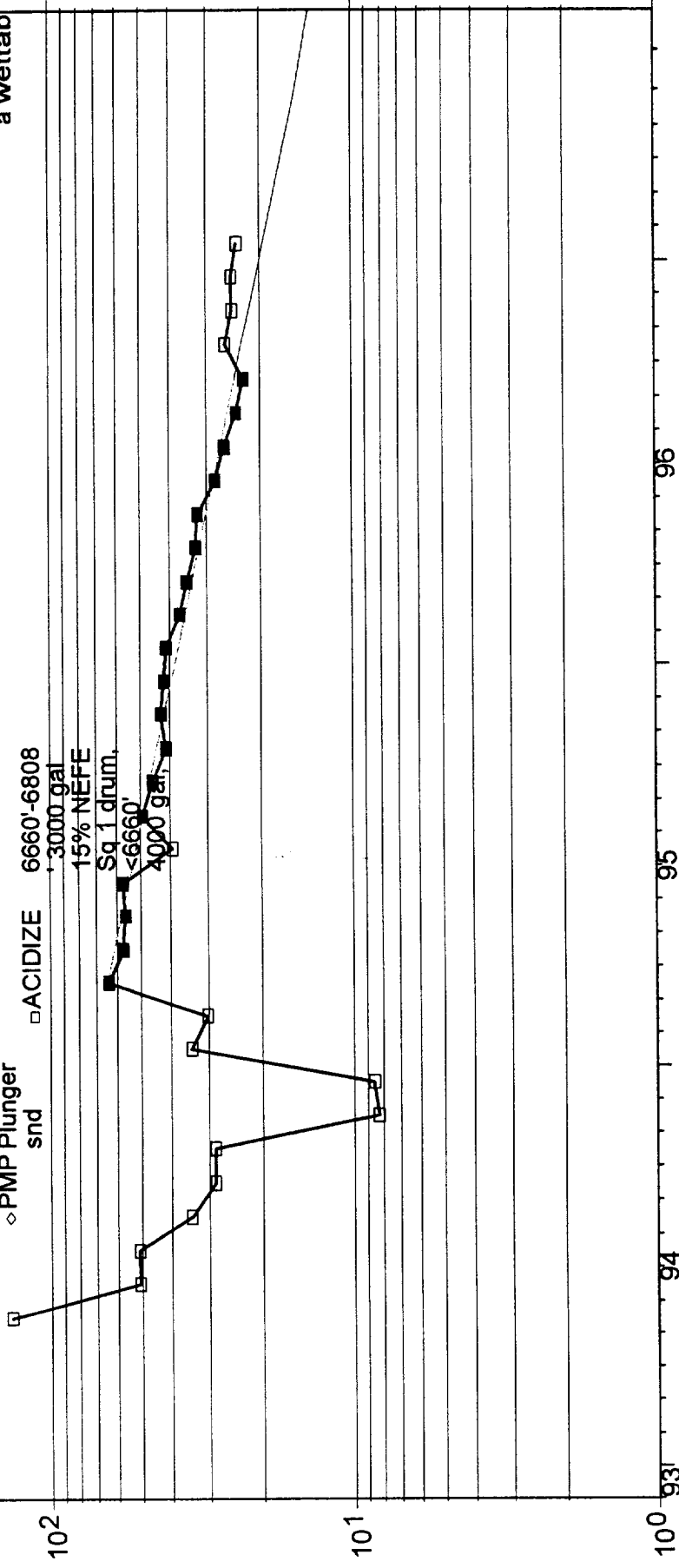
# Production Projection

|        |   |    |       |       |
|--------|---|----|-------|-------|
| May-04 | 8 | 38 | 12473 | 34797 |
| Jun-04 | 7 | 37 | 12481 | 34834 |
| Jul-04 | 7 | 35 | 12488 | 34869 |
| Aug-04 | 7 | 33 | 12494 | 34902 |
| Oct-04 | 6 | 32 | 12500 | 34934 |
| Nov-04 | 6 | 30 | 12506 | 34965 |
| Dec-04 | 6 | 29 | 12512 | 34994 |
| Jan-05 | 5 | 28 | 12517 | 35021 |
| Feb-05 | 5 | 27 | 12522 | 35048 |
| Mar-05 | 5 | 25 | 12527 | 35073 |
| Apr-05 | 4 | 24 | 12531 | 35098 |
| Apr-05 | 4 | 23 | 12535 | 35121 |
| May-05 | 4 | 22 | 12539 | 35143 |
| May-05 | 4 | 21 | 12543 | 35164 |
| Jul-05 | 4 | 20 | 12547 | 35184 |
| Aug-05 | 4 | 19 | 12550 | 35204 |
| Sep-05 | 3 | 18 | 12553 | 35222 |
| Oct-05 | 3 | 18 | 12556 | 35240 |
| Nov-05 | 3 | 17 | 12559 | 35257 |
| Dec-05 | 3 | 16 | 12562 | 35273 |
| Jan-06 | 3 | 15 | 12564 | 35288 |
| Feb-06 | 3 | 15 | 12567 | 35303 |
| Mar-06 | 2 | 14 | 12569 | 35317 |
| Apr-06 | 2 | 13 | 12571 | 35331 |
| May-06 | 2 | 13 | 12573 | 35344 |
| Jun-06 | 2 | 12 | 12575 | 35356 |
| Jul-06 | 2 | 12 | 12577 | 35368 |
| Aug-06 | 2 | 11 | 12579 | 35379 |
| Sep-06 | 2 | 11 | 12581 | 35390 |
| Oct-06 | 2 | 10 | 12582 | 35400 |
| Nov-06 | 1 | 10 | 12584 | 35410 |
| Dec-06 | 1 | 10 | 12585 | 35410 |
| Jan-07 | 1 | 10 | 12586 | 35410 |
| Feb-07 | 1 | 10 | 12588 | 35410 |
| Mar-07 | 1 | 10 | 12589 | 35410 |
| Apr-07 | 1 | 10 | 12590 | 35410 |
| May-07 | 1 | 10 | 12591 | 35410 |
| Jun-07 | 1 | 10 | 12592 | 35410 |
| Jul-07 | 1 | 10 | 12593 | 35410 |
| Aug-07 | 1 | 10 | 12594 | 35410 |
| Sep-07 | 1 | 10 | 12595 | 35410 |
| Oct-07 | 1 | 10 | 12596 | 35410 |
| Nov-07 | 1 | 10 | 12596 | 35410 |
| Dec-07 | 1 | 10 | 12597 | 35410 |
| Jan-08 | 1 | 10 | 12598 | 35410 |
| Feb-08 | 1 | 10 | 12599 | 35410 |
| Mar-08 | 1 | 10 | 12599 | 35410 |
| Apr-08 | 1 | 10 | 12600 | 35410 |
| May-08 | 1 | 10 | 12600 | 35410 |
| Jun-08 | 1 | 10 | 12600 | 35410 |

# WDDU #145: OIL Recommended Acid Job (3/10/97)

Well: 145 ID: 3002532373 Type: OIL Monthly

|                |               |              |                   |
|----------------|---------------|--------------|-------------------|
| PERF U. Abo(6M | Ac Convert/Ac | TEST Coupon: | TEST Water:       |
| gal(15%), L.   | Abo (3M       | 27 mpy       | CaCO <sub>3</sub> |
| Abo(5M         | gals 15%),    | ROD Pin      | = 1.4,            |
| gal            | Drk(4M        | break-wron   | CaSO <sub>4</sub> |
| 15%), Drk(     | gals 15%)     | g cplg,      | = 1.2             |
| Frac           |               | upgrade      | TEST Reef-So      |
| 29M#)          |               | TVG to       | s:55%             |
| PMP Plunger    |               | monel        | Paraffin,         |
| snd            |               |              | %                 |
| PMP ?          |               |              | FeS, Ne           |
| PMP Plunger    |               |              | a wettab          |
| snd            |               |              |                   |



—□ Bopd

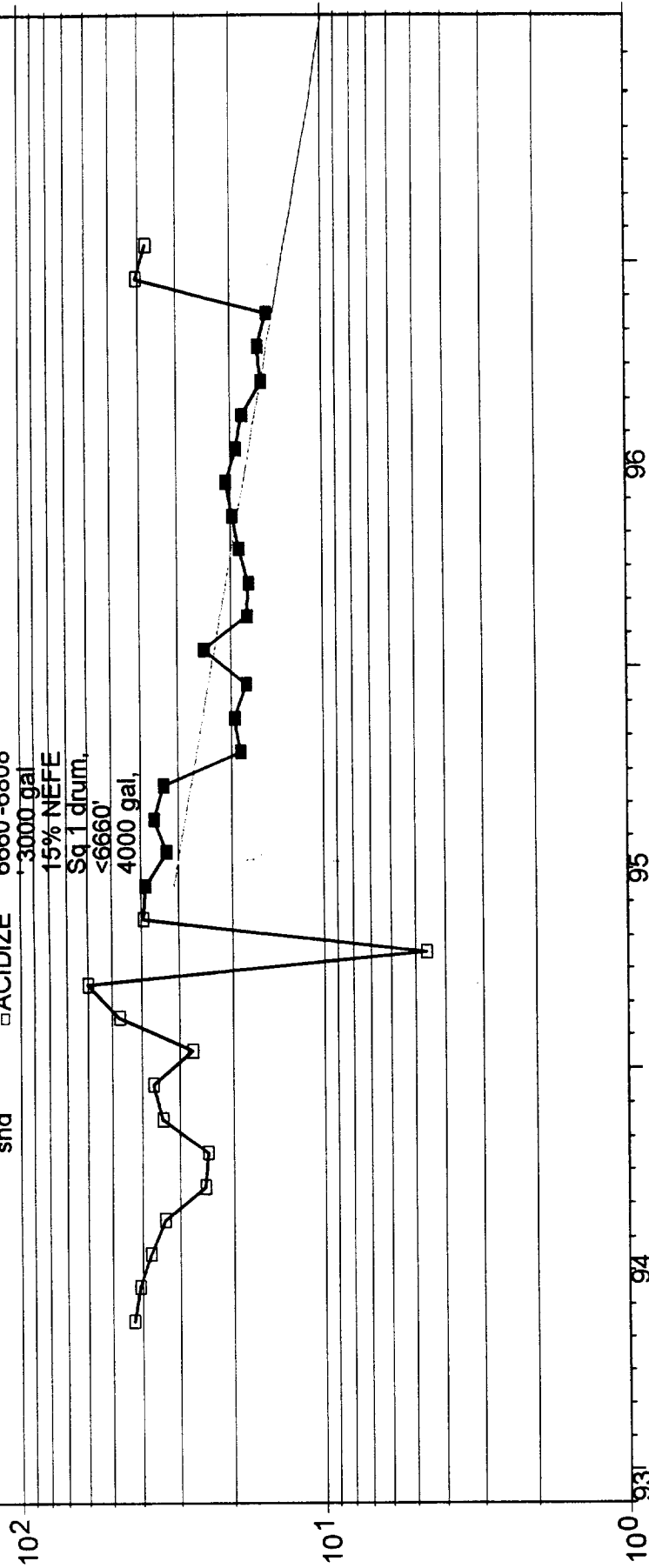
Cum stream: Bopd, 134.3  
Fit Decline, 1/yr:  
Forecast Decline, 1/yr:  
Begin Date, Rate:  
End Date, Rate, Yrs:  
Cum at Begin:  
Remaining:  
Total Reserves:

De = 48%/yr. we 22,000 3/96

# WDDU #145: GAS Recommended Acid Job (3/10/97)

Well: 145 ID: 3002532373 Type: OIL Monthly

|                 |                            |                                                   |                                         |                                                              |
|-----------------|----------------------------|---------------------------------------------------|-----------------------------------------|--------------------------------------------------------------|
| 10 <sup>3</sup> | PERF U Abo(6M gal 15%), L. | Ac Convert/AC Abo (3M gals 15%), Drk(4M gals 15%) | TEST Coupon: 27 mpy                     | TEST Water: CaCO <sub>3</sub> = 1.4, CaSO <sub>4</sub> = 1.2 |
|                 | 15%), Drk(15%), Frac 29M#) |                                                   | break-wron g cplg, upgrade TVC to monel | TEST Reef So 5.55% Paraffin, %                               |
|                 | PMP Plunger snd            |                                                   |                                         | FeS, Ne a wettab                                             |
|                 | PMP ?                      |                                                   |                                         |                                                              |
|                 | PMP Plunger snd            |                                                   |                                         |                                                              |
|                 | ACIDIZE 6660'-6808         |                                                   |                                         |                                                              |
|                 | 3000 gal                   |                                                   |                                         |                                                              |
|                 | 15% NEFE                   |                                                   |                                         |                                                              |
|                 | Sq 1 drum, <6660'          |                                                   |                                         |                                                              |
|                 | 4000 gal,                  |                                                   |                                         |                                                              |



Cum stream: Mcfd, 60.0

Fit Decline, 1/yr: Exp, 0.54

Forecast Decline, 1/yr: Exp, 0.54

Begin Date, Rate: 19961101, 14.47

End Date, Rate, Yrs: 20060117, 0.10, 9.21

Cum at Begin: 15.10

Remaining: 9716.94

Total Reserves: 9732.04

$D_e = 4290/yr$  use 42 Mcfd, 1/97

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 32373                                                           |
| 5. Indicate Type of Lease                          | STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil / Gas Lease No.                       | B-9311                                                                 |
| 7. Lease Name or Unit Agreement Name               | WEST DOLLARHIDE DRINKARD UNIT                                          |
| 8. Well No.                                        | 145                                                                    |
| 9. Pool Name or Wildcat                            | DOLLARHIDE DRINKARD-ABO                                                |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | GR-3172, KB-3183                                                       |

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 K : 2589 Feet From The SOUTH Line and 2060 Feet From The WEST Line  
Section 32 Township 24-S Range 38-E NMPM LEA COUNTY

10. Elevation (Show whether DF, RKB, RT, GR, etc.) GR-3172, KB-3183

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: ☒ ACIDIZE

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.

03-27-97: Move in rig up. Pull rods & pump. Install BOP. Tag fill at 6945' (PBDT). Rig up Tuboscope. Shut in.  
03-28-97: Ran 4 3/4" bit & 5 1/2" Casing Scraper to 6945'. POH. Ran 5 1/2" RBP & Packer. Set RBP @6830'. Pull bottom of pkr to 6810'. Dowell spotted, over Drinkard perfs 6447'-6621' & Upper Abo perfs 6660'-6809', 250 gal PAS-10 (Reef Chemical Co. paraffin Solvent) followed by 400 gal E-2004 (Reef Chemical Co. Sulfate Dissolver). Displaced fluid w/wiper plug. Set packer @6394'. Shut in. Prep to swab Monday.  
03-31-97: Tubing pressure this am=25 psi. Recovered Trace of Oil, 37 Water, & Fair Gas. Shut in. Prep to acidize Upper Abo & Drinkard.  
04-01-97: Release packer. Reset packer @6645'. Dowell acidize Upper Abo perfs, 6660'-6809', w/1500 gal 15% Reef S-300 & 750 gal 15% Reef AXE-3000, Reef Chemical Company diverted acid system. Flush w/50 bbls 2% KCL fresh water. Max pres=64 psi. Min pres=36 psi. ISIP=0 psi. Avg rate=8.5 BPM. Total load=139 bbls. Release packer. Release RBP. Reset RBP @6640'. Reset packer @6386'. Dowell acidized Drinkard perfs, 6447'-6621', w/3840 gal 15% Reef S-300 & 1920 gal Reef XE-70, Reef Chemical Company diverted acid system. Flush w/50 bbls 2% KCL fresh water. Max pres=4300 psi. Min pres=3900 psi. ISIP=636 psi. 15 Min SIP=218 psi. Avg rate=10.0 BPM. Total load=188 bbls. Shut in 1 hr. Swab 3 hrs. Recovered Trace of Oil, 46 Water, & Acid Gas. Start Fluid Level=800' from surface. Finish Fluid Level=2200' from surface. Shut in. Prep to swab.  
04-02-97: Tubing pressure this am=90 psi. Swab 7.5 hrs. Recovered 7 Oil, 115 Water, & Fair Gas. Start Fluid Level=2100' from surface. Finish Fluid Level=3500' from surface. PH=6.5. XL Scale Squeezed Drinkard perfs, 6447'-6621', w 10 gal TW-430 mixed in 20 bbls produced water, 3 drums Techni-Hib 793 mixed in 30 bbls produced water, & flush w/10 gal TV-467 mixed in 300 bbls produced water. Shut in. Prep to pull packer.  
04-03-97: Release packer & RBP & Pull out of hole. Ran 3.5" Mud Anchor (27.00'), 2.5"+30 Seat Nipple (1.10'), 1-IPC jt 2 7/8" tbg (32.20'), 14 jts 2 7/8" tbg (457.90'), 5.5"x2.875" Tubing Anchor (2.78'), & 195 jts 2 7/8" tbg (6357.49'). Remove BOP. Land bottom of MA @6889' w/SN @6861'. Ran 1 1/4"x8" Gas Anchor on 2.5"x1.5"x26" pump, 2"x1" sub, 8-1.75" Sinker Bars (201.6'), No sub, 112-3/4" S87 rods (2822.4'), 80-7/8" S87 rods (2016.0'), 70-1" S87 rods (1764.0'), 8', 6', 6', 2"x1" subs (22.8'), 1.5"x26" Polish Rod (12')=6866'. Load tbg. Space pump at 13 3/4". Rig down. On production at 6 pm. Pumping & testing. 144" Stroke x 9.8 SPM. 210 jts tbg in well. Pumping & Testing.  
04-24-97: On 24 hour POTENTIAL TEST ending 10:00 am. Pumped 45 Bbls Oil, 249 Bbls Water, & 70 mcf Gas. GOR=1555. Gravity=38.6@60. 1.5" Bore Pump. 144" Stroke. 9.8 SPM. Seat Nipple @6861'. Producing from 5 1/2" casing perfs, 6447'-6809', Dollarhide Drinkard-Upper Abo Pool, Lea County, New Mexico. No additional allowable required. FINAL REPORT.

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

SIGNATURE Paul R. Wilcox TITLE Field Technician DATE 4/30/97

TYPE OR PRINT NAME Paul R. Wilcox Telephone No. 397-0419

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE MAY 21 1997

CONDITIONS OF APPROVAL, IF ANY: