

DIAMOND SM-36 No. 1 (WO)  
1980' FSL & 660' FEL  
Section 36-24S-33E  
Lea County, New Mexico  
Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG %: 100 WI  
AFE No. 0384100011 \$55,000  
SC No. N/A

4 hours MIRU ARC Wireline unit; RIH with one quartz gauge and one Amerada gauge, ran flowing gradient survey going in hole; flowed well two hours with pressure recorders hanging at 14,670'; 10 hours shut in for buildup; EDWC \$0; ETWC \$412,413.

11/04/91 PRESENT OPERATION: Well shut in for pressure test

24 hours SITP 4900; CP 700; EDWC \$0; ETWC \$412,413.

11-05-91 PRESENT OPERATION: Well shut in for build up

24 hours SITP 5000; CP 700; SI 60 hours; EDWC \$0; ETWC \$412,413.

11-06-91 PRESENT OPERATION: Well shut in for build up

24 hours SITP 5000; CP 700; SI 84 hours; EDWC \$0; ETWC \$412,413.

11-07-91 PRESENT OPERATION: Well shut in for build up

24 hours SITP 5000; CP 800; SI 118 hours; EDWC \$0; ETWC \$412,413.

11-08-91 PRESENT OPERATION: Well to sales

8 hours ARC Wireline Service TOH with bombs and ran stat. grad.; RD ARC; put well to sales; 16 hours flowed 564 MCFD; 6/64" choke; TP 2400#; CP 700#; LP 330#; 17 BO, 3 BW; EDWC \$4,750; ETWC \$417,163.

FLOW

| DATE     | HRS | MCFD | CHK   | FTP  | CP  | LP  | BW | BO | ETWC      |
|----------|-----|------|-------|------|-----|-----|----|----|-----------|
| 11/09/91 | 24  | 916  | 8/64  | 1600 | 700 | 730 | 0  | 15 | \$417,163 |
| 11/10/91 | 24  | 780  | 10/64 | 1300 | 700 | 340 | 0  | 11 | \$417,163 |
| 11/11/91 | 24  | 1016 | 10/64 | 1200 | 700 | 330 | 0  | 14 | \$417,163 |
| 11/12/91 | 24  | 1093 | 11/64 | 1200 | 700 | 360 | 0  | 15 | \$417,163 |
| 11/13/91 | 24  | 1088 | 13/64 | 1200 | 700 | 320 | 0  | 17 | \$417,163 |
| 11/14/91 | 24  | 1102 | 13/64 | 1000 | 700 | 340 | 0  | 11 | \$417,163 |

11-15-91 PRESENT OPERATION: Well Shut In For Pipeline Repair

9 hours flowed 413 MCF; 13/64" choke; TP 1000; CP 700; LP 340; 4 BO, 0 BW; 15 hours well SITP 5450; CP 700; drop from report, evaluating for fracture treatment; EDWC \$0; ETWC \$417,163.

|                           |               |
|---------------------------|---------------|
| BEFORE EXAMINER CATANACH  |               |
| OIL CONSERVATION DIVISION |               |
| ENRON                     | EXHIBIT NO. 8 |
| CASE NO.                  | 10514         |

DIAMOND SM-36 No. 1 (WO)  
1980' FSL & 660' FEL  
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Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG %: 100 WI  
AFE No. 0384100011 \$55,000  
SC No. N/A

10/29/91 PRESENT OPERATION: Flow back acid job

SITP 5620; CP 670; Howco MIRU lay & test lines to 10,000 psi; acidize Morrow "A" with 1000 gals mod 101 acid as follows:

| STAGE | VOLUME & DESCRIPTION                                                        | RATE | PRESS |
|-------|-----------------------------------------------------------------------------|------|-------|
| 1     | 1000 gals mod 101 acid with<br>40 1.3 ball sealers                          | 3.4  | 8000  |
| 2     | Flush with 3530 gals 2% KCl<br>wtr with 2 GPT Cla-Sta & 2<br>GPT Losurf 300 | 4.8  | 7140  |

Average rate 4.5 BPM, average pressure 6995; maximum pressure 8000; poor ball action; formation broke 7200 to 6700; ISIP 5900; 5 min 4900; 10 min 3600; 15 min 2400; TBLTR 108; open well to tank; flow back acid job; 10/64" choke; TP 3600; CP 550; recovered 82 barrels water; 10 hr well to sales flowing 990 MCFD; 17/64" choke; TP 2350; CP 550; LP 32; 14 BW, 0 BO; TBLR 96; TBLTR 12; EDWC \$8,765; ETWC \$412,413.

| TIME  | BO | BW | CHK   | FTP  | CP  | MCFD |          |
|-------|----|----|-------|------|-----|------|----------|
| 12:00 |    |    |       | 1700 |     |      |          |
| 1:00  | 0  | 13 | 10/64 | 1000 | 550 |      |          |
| 2:00  | 0  | 11 | 10/64 | 1150 | 550 |      |          |
| 3:00  | 0  | 10 | 10/64 | 1600 | 550 |      |          |
| 4:00  | 0  | 10 | 10/64 | 2100 | 550 |      |          |
| 5:00  | 0  | 22 | 10/64 | 2800 | 550 |      |          |
| 6:00  |    | 13 | 10/64 | 3600 | 550 |      |          |
| 7:00  | 0  | 2  | 10/64 | 3600 | 550 |      |          |
| 8:00  | 0  | 2  | 10/64 | 3500 | 550 |      |          |
| 9:00  | 0  | 3  | 16/64 | 3000 | 550 | 902  | To sales |
| 12:00 | 0  | 4  | 17/64 | 2400 | 550 | 950  | line     |
| 2:00  | 0  | 2  | 17/64 | 2375 | 550 | 990  |          |
| 4:00  | 0  | 3  | 17/64 | 2350 | 550 | 990  |          |
| 6:00  | 0  | 2  | 17/64 | 2350 | 550 | 990  |          |

| DATE     | Flow<br>Hours                  | MCFD | CHK   | FTP  | CP  | BW | BC | LP  |                  |
|----------|--------------------------------|------|-------|------|-----|----|----|-----|------------------|
| 10/29/91 | Acidized and returned to sales |      |       |      |     |    |    |     |                  |
| 10/30/91 | 24                             | 1100 | 8/64  | 2000 | 650 | 8  | 3  | 325 |                  |
| 10/31/91 | 24                             | 1160 | 10/64 | 1350 | 750 | 4  | 9  | 340 |                  |
| 11/01/91 | 24                             | 1206 | 10/64 | 1150 | 780 | 0  | 25 | 330 |                  |
| 11/02/91 | 24                             | 1155 | 10/64 | 1250 | 700 | 0  | 11 | 550 | 5 days = 120 hrs |
| 11/03/91 | 10                             | 494  | 10/64 | 1250 | 700 | 0  | 5  | 700 |                  |

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Oper: ENRON OIL & GAS COMPANY  
 14,994' Morrow  
 EOG %: 100 WI  
 AFE No. 0384100011 \$55,000  
 SC No. N/A

10-07-91 Release all equip & personnel; report will be carried one day behind;  
 EDWC \$0; ETWC \$412,648.

| DATE     | FLOW<br>HRS | MCFD           | CHK   | FTP | CP   | BW   | BO | LP  | REMARKS       |
|----------|-------------|----------------|-------|-----|------|------|----|-----|---------------|
| 10-07-91 | 13          | 613            | 1"    | 400 | 500  | 6    | 0  | 340 | Flow to sales |
| 10/08/91 | 24          | 708            | 64/64 | 400 | 350  | 9    | 0  | 320 | Flow to sales |
| 10/09/91 | 24          | 708            | 64/64 | 400 | 900  | 6    | 0  | 320 | Flow to sales |
| 10/10/91 | 24          | 719            | 64/64 | 450 | 1300 | 11   | 0  | 330 | Flow to sales |
| 10/11/91 | 24          | 866            | 64/64 | 410 | 500  | 9    | 0  | 330 | Flow to sales |
| 10/12/91 | 24          | 722            | 64/64 | 420 | 650  | 9    | 0  | 330 | Flow to sales |
| 10/13/91 | 24          | 882            | 64/64 | 400 | 650  | 9    | 0  | 340 | Flow to sales |
| 10/14/91 | 24          | 907            | 64/64 | 400 | 650  | 12   | 0  | 350 | Flow to sales |
| 10/15/91 | 24          | 920            | 64/64 | 400 | 650  | 12   | 0  | 340 | Flow to sales |
| 10/16/91 | 24          | 917            | 64/64 | 400 | 650  | 6    | 0  | 340 | Flow to sales |
| 10/17/91 | 22          | 907            | 64/64 | 400 | 650  | 12   | 0  | 340 | Flow to sales |
|          | 2           | Compressor dwn |       | 600 | 650  |      |    |     |               |
| 10/18/91 | 24          | 818            | 64/64 | 500 | 650  | 13   | 0  | 450 | Flow to sales |
| 10/19/91 | 24          | 955            | 64/64 | 400 | 650  | 12.5 | 0  | 380 | Flow to sales |
| 10/20/91 | 24          | 944            | 64/64 | 375 | 650  | 6    | 0  | 320 | Flow to sales |
| 10/21/91 | 24          | 934            | 64/64 | 375 | 650  | 16   | 0  | 320 | Flow to sales |
| 10/22/91 | 24          | 937            | 64/64 | 375 | 650  | 9.0  | 0  | 330 | Flow to sales |
| 10/23/91 | 24          | 951            | 64/64 | 420 | 650  | 12.0 | 0  | 420 | Flow to sales |
| 10/24/91 | 24          | 951            | 64/64 | 410 | 700  | 0    | 9  | 340 | Well to sales |
| 10/25/91 | 24          | 951            | 64/64 | 410 | 700  | 0    | 6  | 340 | Well to sales |

L MOND SM-36 No. 1 (WO)  
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Lea County, New Mexico  
Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG %: 100 WI  
AFE No. 0384100011      \$55,000  
SC No. N/A

10-07-91    Release all equip & personnel; report will be carried one day behind;  
             EDWC \$0; ETWC \$412,648.

| FLOW        |            |             |            |            |           |           |           |           |                |
|-------------|------------|-------------|------------|------------|-----------|-----------|-----------|-----------|----------------|
| <u>DATE</u> | <u>HRS</u> | <u>MCFD</u> | <u>CHK</u> | <u>FTP</u> | <u>CP</u> | <u>BW</u> | <u>BO</u> | <u>LP</u> | <u>REMARKS</u> |
| 10-07-91    | 13         | 613         | 1"         | 400        | 500       | 6         | 0         | 340       | Flow to sales  |
| 10/08/91    | 24         | 708         | 64/64      | 400        | 350       | 9         | 0         | 320       | Flow to sales  |
| 10/09/91    | 24         | 708         | 64/64      | 400        | 900       | 6         | 0         | 320       | Flow to sales  |
| 10/10/91    | 24         | 719         | 64/64      | 450        | 1300      | 11        | 0         | 330       | Flow to sales  |
| 10/11/91    | 24         | 866         | 64/64      | 410        | 500       | 9         | 0         | 330       | Flow to sales  |

1 day x 24 hrs

**WOND SM-36 No. 1 (WO)**  
**1 0' FSL & 660' FEL**  
**Section 36-248-33E**  
**Lea County, New Mexico**  
**Pitchfork Ranch Morrow Field**

**Oper: ENRON OIL & GAS COMPANY**  
**14,994' Morrow**  
**EOG #: 100 WI**  
**AFE No. 0384100011 \$55,000**  
**SC No. N/A**

| TIME            | MCFD   | BW    | CHK     | FTP<br>PSI | CP<br>PSI | REMARKS                      |
|-----------------|--------|-------|---------|------------|-----------|------------------------------|
| <u>10-05-91</u> |        |       |         |            |           |                              |
| 6:00 am         | -      | -     | SI 8/64 | 3650       | 1400      | Shut In                      |
| 7:00            | -      | -     | "       | 4100       | 1400      | "                            |
| 8:00            | -      | -     | "       | 4250       | 1400      | "                            |
| 9:00            | -      | -     | "       | 4500       | 1350      | "                            |
| 10:00           | -      | -     | "       | 4600       | 1350      | "                            |
| 11:00           | -      | -     | "       | 4650       | 1350      | "                            |
| 12:00           | -      | -     | "       | 4700       | 1350      | "                            |
| 1:00 pm         | -      | -     | 12/64   | 4700       | 1350      | Open to pit on a 12/64"      |
| 2:00            | -      | -     | 12/64   | 1850       | 1350      | Flaring to pit               |
| 3:00            | -      | -     | 12/64   | 900        | 1350      | "                            |
| 4:00            | -      | -     | 8/64    | 500        | 1350      | "                            |
| 5:00            | -      | -     | 6/64    | 650        | 1350      | On adjustable choke          |
| 6:00            | -      | -     | 6/64    | 1000       | 1350      |                              |
| 6:30            | 500(e) | -     | 8/64    | 1300       | 1350      | Unloaded +/- 2 bbl cond      |
| 7:00            | 500(e) | -     | 10/64   | 1350       | 1350      | Flaring to pit               |
| 8:00            | 730    | -     | 10/64   | 1350       | 1350      | "                            |
| 9:00            | 730    | -     | 10/64   | 1350       | 1350      | "                            |
| 10:00           | 730    | -     | 10/64   | 1350       | 1350      | "                            |
| 11:00           | 500(e) | -     | 10/64   | 1350       | 1350      | "                            |
| 12:00           | 700(e) | -     | 12/64   | 1250       | 1350      | "                            |
| 1:00 am         | 700(e) | -     | 12/64   | 1300       | 1350      | "                            |
| 2:00            | 700(e) | -     | 14/64   | 1100       | 1350      | Unloaded +/- 2 bbl cond      |
| 3:00            | -      | -     | 14/64   | 1050       | 1350      |                              |
| 4:00            | -      | -     | 14/64   | 1350       | 1350      |                              |
| 5:00            | -      | -     | 14/64   | 1350       | 1350      | EDWC \$4,067; ETWC           |
| \$411,548       |        |       |         |            |           |                              |
| <u>10-06-91</u> |        |       |         |            |           |                              |
| 6:00 am         | 700(e) | 15(e) | 14/64   | 1200       | 1400      | Started unloading wtr @      |
| 7:00            | 700(e) | 15(e) | 14/64   | 1200       | 1400      | 5:05 am, no flare, too       |
| 8:00            | 700(e) | 1(e)  | 14/64   | 1100       | 1400      | much water, slight mist      |
| 9:00            | 700(e) | -     | 14/64   | 900        | 1400      | since 7:30 am, cum wtr       |
| 10:00           | 700(e) | -     | 12/64   | 850        | 1400      | rec 96 bbl, 0 BLWTR          |
| 11:00           | -      | -     | 12/64   | 800        | 1400      | No water                     |
| 12:00           | -      | -     | 12/64   | 800        | 1400      | No water                     |
| 1:00 pm         | -      | -     | 12/64   | 750        | 1400      | No water                     |
| 2:00            | -      | -     | 12/64   | 750        | 1400      | Turn to prod unit & sales    |
| 3:00            | 685(e) | -     | 1"      | 600        | 1400      |                              |
| 4:00            | 685(e) | -     | 1"      | 600        | 1400      | PL compr down, go to pit     |
| 5:00            | 685(e) | -     | 12/64   | 600        | 1400      | PL compr down, go to pit     |
| 6:00            | 685(e) | -     | 14/64   | 800        | 1400      | Return to sales              |
| 7:00 pm to      |        |       |         |            |           |                              |
| 8:00 am         | 613    | 6     | 1"      | 400        | 500       | Flow to sales; LP 340 psi    |
|                 |        |       |         |            |           | EDWC \$1,100; ETWC \$412,648 |

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 Section 36-248-33E  
 Lea County, New Mexico  
 Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG %: 100 WI  
 AFE No. 0384100011      \$55,000  
 SC No. N/A

10-04-91

PRESENT OPERATION: Well Shut In

1 hr POH w/coiled tubing; 1-1/2 hr RU Hallib to displace spot acid into perfs; 3/4 hr pumped 12 bbls 10 ppg brine wtr; had perforation breakdown @ 5200 psi; displaced 200 gals acid 1.5 BPM @ 3800 psi; incr rate & displaced the remaining 300 gal of acid 2.1 BPM @ 3880 psi; ISIP 3020; 5 min 1375; 10 min 1030; 15 min 855; 20 min 745 psi; have 98 BLWTR; 17-3/4 hr flow back as follows:      EDWC \$14,072; ETWC \$407,481.

| TIME    | MCFD    | BW   | CHK   | FTP<br>PSI | CP<br>PSI | REMARKS                                  |
|---------|---------|------|-------|------------|-----------|------------------------------------------|
| 8:15 am | -       | -    | 12/64 | 600        | 1200      | Open well to pit                         |
| 8:30    | -       | -    | 12/64 | 0          | 1200      | Flwg 1/4" stream wtr                     |
| 9:00    | -       | -    | 12/64 | 0          | 1200      | Flwg 1/4" stream wtr                     |
| 10:00   | -       | -    | 12/64 | 0          | 1230      | Flow to test tank, change chk            |
| 11:00   | -       | .5   | 8/64  | 13         | 1240      | Flow to test tank                        |
| 12:00   | -       | 1.0  | 8/64  | 28         | 1240      | Flow to test tank                        |
| 1:00 pm | -       | 2.5  | 8/64  | 50         | 1240      | Flow to test tank                        |
| 2:00    | -       | 2.8  | 8/64  | 80         | 1240      | Flow to test tank                        |
| 3:00    | -       | 2.5  | 8/64  | 130        | 1240      | Flow to test tank                        |
| 4:00    | -       | 4.0  | 8/64  | 215        | 1240      | Flow to test tank                        |
| 5:00    | -       | 5.0  | 8/64  | 450        | 1240      | Flow to test tank                        |
| 6:00    | -       | 15.0 | 8/64  | 1000       | 1240      | Flow to test tank                        |
| 7:00    | -       | 10.0 | 8/64  | 1200       | 1240      | Flow to test tank                        |
| 8:00    | -       | 12.0 | 8/64  | 1300       | 1240      | Flow to test tank                        |
| 9:00    | -       | 5.0  | 8/64  | 1700       | 1240      | Flow to test tank                        |
| 10:00   | -       | 3.0  | 8/64  | 1600       | 1240      | Flow to test tank                        |
| 11:00   | -       | 1.0  | 8/64  | 1300       | 1240      | Cum rec 65.3 bbl, drying up, flow to pit |
| 12:00   | 400 (e) | -    | 8/64  | 1150       | 1240      | Flaring gas, +/- 400 MCF                 |
| 1:00 am | 400 (e) | -    | 8/64  | 1150       | 1300      | Flaring gas                              |
| 2:00    | 400 (e) | -    | 8/64  | 1150       | 1300      | Flaring gas, SI well                     |
| 3:00    | -       | -    | 8/64  | 1800       | 1300      | SI well                                  |
| 4:00    | -       | -    | 8/64  | 2500       | 1300      | SI well                                  |
| 5:00    | -       | -    | 8/64  | 3000       | 1300      | SI well                                  |
| 6:00 am | -       | -    | 8/64  | 3650       | 1300      | SI well                                  |

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EOG %: 100 WI

AFE No. 0384100011 \$55,000

SC No. N/A

10-01-91

PRESENT OPERATION: Prep to Displace Hole w/10 ppg Brine Water

4 hr TOH; LD 1-1/4" DP & mill; mill is dull; 1 hr PU SA & test to 10,000 psi, RU Hydrostatic Tubing Testers; 14 hr TIH w/2-7/8" tbg testing to 10,000 psi; 1-1/2 hr sting into PBR, tested to 1000 psi for 15 min - OK; attempted to inject thru perfs; pumped 1-1/2 bbl w/press incr to 5500 psi & shut down; press bled off to 5300 in 20 min; released press to 2000 psi, repressured to 5500 psi & shut down; press decr to 5400 psi in 5 min & remained 5400 psi for 30 min; press annulus to 1800 during this test and had no annulus press change; release tbg & annulus press; 1 hr space out; MW 14.2; VIS 54; FL 12; FC 2/32; PH 10; CHL 150,000; YP 44; PV 20; gels 12/23; % solids 26.2; EDWC \$11,599; ETWC \$359,700.

10-02-91

PRESENT OPERATION: Well SI, WO Coiled Tubing Unit

4-1/2 hr set 25,000# locator sub to space out; RU pump truck, displace 14.2 ppg mud w/10 ppg pkr fluid; 7-1/2 hr pumping down tbg; displace mud under controlled annulus BP for calculated differential press; pump a total of 628 bbl brine wtr (had approx 30 bbl of brine/mud interface & approx 50 bbl of clean brine returns); 2-1/2 hr sting in PBR w/25,000# slack off wt & landing wrap-around; installed BPV, no BOPE; 3 hr installed tree; removed PBV; press annulus to 2000 psi for 30 min to test seals, no loss in press & no flow on tbg; seal OK; 1-1/2 hr opened tbg to tank, no flow; TP 0 psi; CP 1200 psi; SI @ 1:00 am (Texas time); 5 hr SI; SITP incr 10 psi/hr; CP remained 1200 psi; at 6:00 am SITP 50 psi; SICP 1200 psi; EDWC \$30,138; ETWC \$389,838.

10-03-91

PRESENT OPERATION: POH w/ 1-1/4" Coiled Tubing

9 hr WSI; SITP 220 psi; CP 1200 psi; WO Otis coiled tbg unit; 3 hr repair coiled tbg unit; 2 hr RU & load coiled tbg w/19 bbl 10 ppg brine w/2% KCL; 3-1/2 hr RIH w/coiled tbg to 14,830'; 3 hr circ mud out of 3-1/2" liner; no indication of gas; pulled coiled tbg to 14,698'; 1 hr spot 500 gal MOD 101 containing 1-1/2 gal HAI-85, 1-1/2 gal Losurf 300 & 1 gal Pen 88 @ 14,698' (perfs are 14,674'-698'); 2-1/2 hr POH w/coiled tbg; NOTE: released completion unit, BOPE, pits, reverse unit, swivel, pump & 1-1/4" MT DP @ 9:30 am 10-02-91; EDWC \$3,571; ETWC \$393,409.

DIAMOND SM-36 No. 1 (WO)

30' FSL & 660' FEL

Section 36-24S-33E

Lea County, New Mexico

Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY

14,994' Morrow

EOG #: 100 WI

AFE No. 0384100011 \$55,000

SC No. N/A

09-25-91

PRESENT OPERATION: TIH w/Seal Assy & 2-3/8" Tbg

4 hr set Baker CIBP @ 14,839'; 2-1/2 hr dumped 10' 16# cmt on top; 2 hr RU to run CET/CBL across 5-1/2" liner; 7-1/2 hr run CET/CBL across liner; 1 hr RD Schlumberger; 1 hr change out spools on top of Hydril; 1 hr LD 1-1/4" MT DP; 2 hr RU Hydro Testers & test seal assy to 10,000#; 3 hr TIH & testing tbg to 10,000#; MW 14.2; Vis 53; FL 12; FC 2/32; pH 9.5; CHL 150,000; YP 40; PV 20; gels 12/23; % solids 26.2; EDWC \$25,686; ETWC \$273,030.

09-26-91

PRESENT OPERATION: POH w/Sinker Bar & GR/CCL, Prep to RIH w/2-1/8" Strip Gun

12 hr TIH w/tbg, hydrostatic testing to 10,000 psi; 2-1/2 hr sting into PBR & slack off 25,000#; 1/2 hr closed BOP & press tested seal assy (annulus) to 1000 psi for 15 min, OK; 2 hr RU Hallib cmt manifold, press annulus to 1500 psi, pumped in tbg, pumped a total of 1-1/4 bbls w/press incr to 5500 psi; could not break down, held for 20 min; press declined to 5400 psi & held 5400 psi for 15 min; 4 hr WO JSI for perforating; 3 hr RU JSI w/a 5000 psi WP lubricator; RIH w/a GR/CCL & sinker bars, ran correlation strip & determined top of fill @ 14,825' (perfs are 14,674'-698'); POH; MW 14.2; Vis 51; FL 12; FC 2/32; pH 9.5; CHL 150,000; YP 39; PV 20; gels 12/22; % solids 26.2; EDWC \$14,611; ETWC \$287,641.

09-27-91

PRESENT OPERATION: TIH w/Fishing Tools

1-1/4 hr fin POH w/GR/CCL & sinker bars; 2 hr RIH w/2-1/8" dynacap (JRC) strip gun, decentralizer & GR/CCL; run correlation strip; perf 2 SPF (.46" entry hole dia) from 14,674' to 678' & from 14,694'-698', 16 holes; had 1250 psi TP (due to WL displacement) prior to perf; had no change in TP after perf; 3-1/4 hr gun stuck immediately after perf; pulled 3 times w/no movement; slacked off all weight and gun appeared to move down 4'-5'; pulled up 60', dragging, then stuck; unable to move up or down; stuck @ 14,579'; 2-1/2 hr worked to free stuck gun & pulled out of rope socket; 1-1/2 hr POH, had clean "pull out" of rope socket; 2 hr TOH w/25 stds of tbg; 4-1/4 hr repair brace on rig gear box; 3-3/4 hr fin TOH & LD seal assy; 2 hr PU overshot (2-5/16" O.S. w/ 1-7/16" grapple, 4" long), bumper sub & Hydraulic jar on 23 jts of 1-1/4" MT DP; pump thru pipe & fishing tools; 1-1/2 hr TIH w/ 2-7/8" tbg; MW 14.2; vis 52; FL 12.2; FC 2/32; pH 9.5; CHL 150,000; YP 40; PV 20; gels 12/23; % solids 26.2; EDWC \$13,793; ETWC \$301,434.

*A. Smith*

MOND SM-36 No. 1 (WO)  
 0' FSL & 660' FEL  
 Section 36-24S-33E  
 Lea County, New Mexico  
 Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG %: 100 WI  
 AFE No. 0384100011 \$55,000  
 SC No. N/A

| <u>TIME</u> | <u>TP</u> | <u>CP</u> | <u>Cum Wtr Rec</u> | <u>Remarks</u>                    |
|-------------|-----------|-----------|--------------------|-----------------------------------|
| 8:45 pm     | 2775      | 1200      | -                  | Open to pin on 1/4" chk           |
| 9:00        | 150       | 1200      | 40                 | Open to 1" chk                    |
| 9:15        | 5         | 1200      | 45                 |                                   |
| 10:15       | 3         | 1200      | 55                 |                                   |
| 11:00       | 6         | 1200      | 60                 | Well starting to slug more often  |
| 1:00 am     | 50        | 1190      | 70                 | Well seems to be getting stronger |
| 1:15        | 80        | 1190      | 75                 | Slugging wtr - hard               |
| 1:35        | 70        | 1190      | 80                 | Recovery turned to mist           |
| 1:45        | 0         | 1190      | 80                 | Well is dead                      |
| 2:00        | 0         | 1190      | 80                 | SI                                |
| 3:00        | 27        | 1190      | 80                 | SI                                |
| 4:00        | 75        | 1180      | 80                 | SI                                |
| 5:00        | 110       | 1180      | 80                 | SI                                |
| 6:00        | 140       | 1170      | 80                 | Open to pit on 1" chk             |
| 7:00        | 0         | 1160      | 80                 | Blew to 0#, no rec, SI            |
| 8:00        | 20        | 1160      | 80                 | SI                                |
| 9:00        | 53        | 1165      | 80                 | SI                                |
| 10:00       | 93        | 1170      | 80                 | SI                                |
| 11:00       | 133       | 1190      | 80                 | SI                                |

08-04-91

**PRESENT OPERATION: SION**

5 hr SITP 140 psig, opened to pit, 0# in 2 min:

| <u>TIME</u> | <u>TP</u> | <u>CP</u> | <u>Cum Wtr Rec</u> | <u>Remarks</u>                      |
|-------------|-----------|-----------|--------------------|-------------------------------------|
| 8:00 am     | 20        | 1160      | 80                 | SI                                  |
| 9:00        | 53        | 1165      | 80                 | SI                                  |
| 10:00       | 93        | 1170      | 80                 | SI                                  |
| 11:00       | 133       | 1190      | 80                 | SI                                  |
| 12:00       | 140       | 1190      | 80                 | Open to pit, bled to 0 psi in 2 min |

1 hr loaded tbq 7.7 bbls w/2% KCl 10#/gal brine wtr; 2 hr shut well in, SITP 900#, SICP 1,200; 2 RU Jarrel Service Inc, tbq 900# csg 1,200; TIH w/1-11/16" guns & gamma gun, press on tbq increased from 900 psi to 3,500 psi from wireline, set dn at 14,080', (no drag coming up) run strip log to check depth; EDWC \$1,859; ETWC \$83,058.

MOND SM-36 No. 1 (WO)  
0' FSL & 660' FEL  
Section 36-24S-33E  
Lea County, New Mexico  
Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG %: 100 WI  
AFE No. 0384100011 \$55,000  
SC No. N/A

08-01-91

PRESENT OPERATION: SION

1 hr 700# on tbq and annulus. Bled off PSI and pumped in tbq 18 bbls 10# brine; 11 hr PU 345 jts 2-7/8" 6.50# L-8C NuLock tbq (laydown 4 bad jts) testing to 10,000# psig pumped 48 bbl brine down tbq. Well kicked through annulus 30 bbls and csg through 3" line wide open; EDWC \$8,308 ETWC \$44,831.

08-02-91

PRESENT OPERATION: SION

10 hr PU and test 2-7/8" 7.90# PH6-CB tubing and test to 10,000 psig; 5 hr set seal assembly in PBR and test annulus to 2000 psig for 15 min, OK; pull out of PBR and space out; displace hole w/pkr fluid: 10 lb/gal brine water w/2% KCL - 6 bbls of chemicals; set in PBR w/seal assembly, test annulus to 2000 psig, OK; RD BOPs and install Xmas tree; test to 10,000 psig, OK; tubing string weighs 92,000#; well kicked all day at about 40 min intervals; EDWC \$26,772; ETWC \$71,603.

08-03-91

PRESENT OPERATION: SI for Press BU

2 hr RU Schlumberger w/a 10M WP lubricator to perf Morrow "A" 2-1/8" Enerjet gun would not go thru tbq hanger; 5 hr WO 1-11/16" Enerjet gun; 1-1/2 hr perf Morrow "A" zone w/a 1-11/16" Enerjet strip gun, 2 SPF, 0 deg phased from 14,674' to 14,684' & from 14,686' to 14,698'; SITP incr from 2700 psi to 2775 psi after perf; 1 hr RD Schlumberger; EDWC \$9,596; ETWC \$81,199.

DIAMOND SM-36 No. 1 (WO)  
 1980' FSL & 660' FEL  
 Section 36-24S-33E  
 Lea County, New Mexico  
 Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG %: 100 WI  
 AFE No. 0384100011 \$55,000  
 SC No. N/A

| Date     | Flow<br>hrs | MCFD | CHK   | FTP | CP  | BLW | Cum<br>BLW | LP  | Remarks       | ETWC      |
|----------|-------------|------|-------|-----|-----|-----|------------|-----|---------------|-----------|
| 07-17-91 | 24          | 136  | 64/64 | 770 | 420 | 0   | 0          | 400 | Prod thru csg | \$348,223 |
| 07-18-91 | 24          | 136  | 64/64 | 770 | 420 | 0   | 0          | 400 | " " "         | \$348,273 |
| 07-19-91 | 24          | 136  | 64/64 | 770 | 420 | 0   | 0          | 400 | " " "         | \$348,273 |
| 07-20-91 | 24          | 123  | 64/64 | 750 | 390 | 0   | 0          | 370 | " " "         | \$348,273 |
| 07-21-91 | 24          | 133  | 64/64 | 750 | 390 | 0   | 0          | 380 | " " "         | \$348,273 |
| 07-22-91 | 24          | 131  | 64/64 | 750 | 400 | 0   | 0          | 370 | " " "         | \$348,273 |

07-23-91 PRESENT OPERATION: MIRU

4 hr 800#; tubing flowing out annulus 400#; installed BPV; 4 hr completion rig moved in @ 8:00 pm; EDWC \$1,864; ETWC \$1,864.

07-24-91 PRESENT OPERATION: SION

1 hr RU completion unit; 2-3/4 hr ND xmas tree; 1-1/4 hr NU BOP's & choke manifold; 2 hr tested stack-choke manifold 10,000#; also pumped 80 bbls 10# brine water down tubing; 0 psi on tbg & 500# on annulus; 1 hr 0 tbg press; 500# annulus press; 1-1/2 hr pump 140 bbl 10% brine down tbg & bleeding off annulus on 1/2" chk; press came down to 500 psi; 1 hr tbg 0#; bled csg press to 0#; SION; EDWC \$5,825; ETWC \$7,689.

07-25-91 PRESENT OPERATION: SION

1 hr tbg 1200#; csg 1350#; bled press to 0; csg kicking out fluid; 3 hr pulling & working tbg; pulled 120,000# on tbg; after 12 minutes indicator fell off to 78,000# & tbg did not drag anymore; tbg 78,000#; removed tbg hanger & wrap around; 1-1/2 hr install stripper head; annulus on 1" chk flowing gas to burn pit, no fluid; 1-1/2 hr RU floor to pull tbg & pulled 40 stds; 1 hr shut down due to rain & lightening; 2 hr pulled tbg; total out 156 stds; pumping 12 bbl 10# brine w/2% KCl every 120 jts; found 3 bad jts pins on tbg; EDWC \$4,721; ETWC \$12,133.

07-26-91 PRESENT OPERATION: SION

4 hr TOH w/2-7/8" tbg; total of 472 jts in hole; jt #454, 470 & 472 collapsed full length of jt; 1 hr install new stripper rubber; 6 hr TIH w/tbg; EDWC \$4,308; ETWC \$16,441.

DIAMOND SM-36 No. 1 (WO)

1980' FSL & 660' FEL

Section 36-24S-33E

Lea County, New Mexico

Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY

14,994' Morrow

EOG %: 100 WI

AFE No. 0384100011 \$55,000

SC No. N/A

07-02-91                   PRESENT OPERATION: Well SI  
24 hr TP 550; CP 500; vented @ 8/64" chk; EDWC \$0;  
ETWC \$348,273.

07-03-91                   24 hr TP 650; CP 450; vented @ 8/64" chk; EDWC \$0;  
ETWC \$348,273.

07-04-91                   PRESENT OPERATION: Well SI  
24 hr TP 900; CP 450; vented @ 8/64" chk; EDWC \$0;  
ETWC \$348,273.

07-05-91                   24 hr TP 900; CP 450; vented @ 8/64" chk; EDWC \$0;  
ETWC \$348,273.

07-06-91                   24 hr TP 900; CP 450; vented @ 8/64" chk; EDWC \$0;  
ETWC \$348,273.

07-07-91                   24 hr TP 900; CP 450; vented @ 8/64" chk; EDWC \$0;  
ETWC \$348,273.

07-09-91                   PRESENT OPERATION: WSI  
24 hr TP 900; CP 400; vented @ 8/64" chk; EDWC \$0;  
ETWC \$348,273.

07-10-91                   PRESENT OPERATION: WSI  
24 hr TP 300; CP 150; vented @ 12/64" chk; EDWC \$0;  
ETWC \$348,273.

07-11-91                   PRESENT OPERATION: WSI  
24 hr SITP 300; CP 150; vented @ 12/64" chk; EDWC  
\$0; ETWC \$348,273.                   -

07-12-91                   PRESENT OPERATION: WSI  
24 hr SITP 500; CP 400 vented on 8/64" chk; EDWC  
\$0; ETWC \$348,273.

DROP FROM REPORT UNTIL FURTHER ACTIVITY.

07-16-91                   PRESENT OPERATION: Well to Sales  
24 hr flowed 136 MCF; TP 860; CP 500; LP 400; 0 BO;  
0 BW; flow thru csg; EDWC \$0; ETWC \$348,273.

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Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG %: 100 WI  
AFE No. 0384100011      \$55,000  
SC No. N/A

| <u>Time</u> | <u>MCFD</u> | <u>BW</u> | <u>CHK</u> | <u>FTP</u> | <u>CP</u> |
|-------------|-------------|-----------|------------|------------|-----------|
| 7:00 am     | 420         | 15        | 20/64      | 180        | 280       |
| 8:00        | 290         | 8         | 20/64      | 120        | "         |
| 8:00        | 210         | 12        | 20/64      | 90         | "         |
| 10:00       | 170         | 7         | 20/64      | 70         | "         |
| 11:00       | 170         | 14        | 32/64      | 70         | "         |
| 12:00       | 180         | 10        | 32/64      | 30         | "         |
| 1:00 pm     | 280         | 12        | 64/64      | 30         | "         |
| 8:00        | 280         | 86        | 64/64      | 20         | "         |
| 9:00        | 100         | 11        | 64/64      | 20         | "         |
| 12:00       | 100         | 17        | 64/64      | 5          | "         |
| 1:00 am     | 100         | 4         | 64/64      | 5          | "         |
| 2:00        | 100         | 4         | 64/64      | 5          | "         |
| 3:00        | 100         | 4         | 64/64      | 5          | "         |
| 6:00        | 100         | 14        | 64/64      | 5          | "         |

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 14,994' Morrow  
 EOG #: 100 WI  
 AFE No. 0384100011 \$55,000  
 SC No. N/A

06-19-91

PRESENT OPERATION: Displacing 14.1 ppg mud w/10 ppg pkr fluid

2-1/2 hr install ~~new seal rings on seal assy~~ & test to 10,000#, OK; 12-1/2 hr TIH w/seal assy & 2-7/8" 6.90# NU lock L-80 tbg; testing tbg to 10,000 psi, no leaks; 1-1/2 hr check seal assy in PBR w/20,000# slack off; press annulus to 1500 psi OK; 1/2 hr RU Hallib, test lines to 5000 psi OK; 8 hr displace 14.1# mud in hole w/10# brine pkr fluid, 2% KCL & 385 gal P-chem PK 100; EDWC \$12,685; ETWC \$328,086.

3,500  
 3,000  
 7,080

06-20-91

PRESENT OPERATION: Flow test well

2-1/2 hr displace mud in hole w/10# pkr fluid; 1/2 hr slack off seal assy in PBR; 25,000# on seal assy; 2-1/2 hr ND BOP's; 1 hr install xmas tree & press annulus to 2500# w/tbg open; no press decr in 5 min; no communication; 1-1/2 hr test xmas tree w/2 way check in tbg hanged to 20,000#, OK; at 12:00 noon opened well on 1" chk; SITP 1800#; flowing well; left 1000# on csg; 16 hr open well to pit; well flowing 500 MCF; 20/64" chk; TP 270; CP 1000; 0 BO; 83 BW; EDWC \$9,842; ETWC \$337,928.

3,000

| Time    | MCFD   | BW | CHK   | FTP  | CP   | Remarks   |
|---------|--------|----|-------|------|------|-----------|
| 2:00 pm |        |    | 64/64 | 1800 | 1000 |           |
| 3:00    |        | 11 | 64/64 | 0    | 1000 |           |
| 4:00    |        | 8  | 20/64 | 300  | "    |           |
| 5:00    |        | 5  | 64/64 | 0    | "    |           |
| 6:00    |        | 0  | 64/64 | 0    | "    | Well dead |
| 8:00    |        | 0  | 64/64 | 0    | "    | " "       |
| 9:00    |        | 9  | 32/64 | 50   | "    |           |
| 10:00   |        | 6  | 20/64 | 220  | "    |           |
| 11:00   |        | 5  | 20/64 | 180  | "    |           |
| 12:00   |        | 5  | 20/64 | 200  | "    |           |
| 1:00 am |        | 6  | 20/64 | 310  | "    |           |
| 3:00    |        | 11 | 20/64 | 300  | "    |           |
| 4:00    |        | 5  | 16/64 | 340  | "    |           |
| 5:00    |        | 6  | 20/64 | 280  | "    |           |
| 6:00    | 500(e) | 6  | 20/64 | 230  | 1000 |           |

06-21-91

PRESENT OPERATION: Flow test

24 hr flowing to pit 100 MCF; TP 5; CP 280; 64/64" chk; 0 BO; 218 BW; EDWC \$1,400; ETWC \$339,328.

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14,994' Morrow  
EOG %: 100 WI  
AFE No. 0384100011 \$55,000  
SC No. N/A

06-16-91

PRESENT OPERATION: Circ well w/drill mud

5 hr attempt to close CPA valve; 2 times no results; 2 hr found "O" ring missing on closing tool; standing valve "O" ring had never been installed; plus Lindsey's completion hand never tested CPA valve w/standing valve; 3 hr Jarrel WL replaced "O" ring in standing valve; TIH w/standing valve; press up tbg to 1700 psi to close CPA valve; TOH w/standing valve; RD Jarrel; 1 hr open well to pit; TP & CP both bled down; CPA valve still open; 4 hr redress standing valve; TIH land in CPA valve; press up tbg to 8000 psi; CP 2400; bled tbg press to 6400 psi; bled csg to 1400; press tbg up to 8000 psi; csg held @ 1400 psi; bled tbg to 2500 psi; Jarrel POH to 14,200'; Howco press up tbg to 5000 psi; CP 1400; tool holding press; bled tbg psi to 2500 psi; Jarrel TOH w/standing valve; 1 hr TP 2600; CP 1400; open well to pit; CPA valve still leaking; TP 100; CP 100; 2 hr RU Howco to tbg; press to 2400 psi; csg press incr to 1000 psi; indicates faulty CPA valve; RD Jarrel; SI well; 6 hr SD rig till 8:00 am; this am TP 1900; CP 1900; EDWC \$10,594; ETWC \$293,245.

06-17-91

PRESENT OPERATION: NU BOP's

6-1/2 hr RU to kill well & haul mud to location; tbg psi 2600#; csg 2400#; 6 hr kill well w/14.0# mud; 5 hr circ & cond mud; 4 hr remove xmas tree & NU BOPs'; EDWC \$11,508; ETWC \$304,753.

06-18-91

PRESENT OPERATION: RU Hydrostatic Testers

3 hr NU BOP's & move in substructure; 4 hr test BOP's & manifold to 10,000#, OK, hydril 5,000# OK; 4-1/2 hr tbg wrap around stuck in 7-1/16" tbg spool; 2 hr PU BOP's & file off rough places in tbg spool; 1-1/2 hr remove tbg wrap around & NU BOP stack; 8 hr TOH w/2-7/8" tbg & CPA valve; CPA valve 1/3 closed; 1 hr RU Hydro testers & change seals on seal assy; EDWC \$10,648; ETWC \$315,401.

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SC No. N/A

06-11-91

PRESENT OPERATION: Milling w/Mill No. 2

1/2 hr milling, no progress; 4-1/2 hr pumped 11 jts out of hole; getting to top 3-1/2" liner, piece of junk above mill; 6-3/4 hr TOH w/mill; btm of mill wore on outside 3/4" of mill; 9-1/4 hr TIH w/concave mill #2 to 14,330'; 2 hr repair both pumps; 1/2 hr TIH; 1/2 hr milling; EDWC \$40,396; ETWC \$230,432.

06-12-91

PRESENT OPERATION: WO Overshot

11-1/4 hr milling w/cut rite concave mill; no progress @ 14,881.75'; 1/4 hr reverse circ; 9-1/2 hr TOH, left 2-5/8" x 1 13/16" mill in hole over length 1.09'; 3 hr WO overshot to fish out mill; EDWC \$7,340; ETWC \$237,772.

06-13-91

PRESENT OPERATION: WOO

*large  
overshot*  
3-1/2 hr overshot defective; wait on 2nd overshot; 7-1/4 hr TIH w/overshot to 14,881'; 1/2 hr fishing for mill; 7 hr TOH w/overshot, no recovery; 5-3/4 hr WO orders; EDWC \$7,320; ETWC \$245,092.

06-14-91

PRESENT OPERATION: TIH w/seal assy & 2-7/8" tbq

9 hr WOO: 4 hr WO seal assy, CPA valve & tbq testers; 1-1/2 hr RU tbq testers; 1/2 hr test seal assy to 10,000, OK; 9 hr TIH w/2-7/8" 6.5# L80 Nu-Lock T&C tbq, have run 280 jts; testing tbq to 10,000#; EDWC \$9,542; ETWC \$254,634.

06-15-91

PRESENT OPERATION: Trying to close CPA valve

6 hr TIH w/2-7/8" tbq & seal assy; testing tbq to 10,000#; 1-1/2 hr space out; slack off 20,000# on seal assy; 4 hr ND BOP's; 1 hr install xmas tree; 1-1/2 hr test xmas tree to 10,000#; all valves to 10,000#, OK; 5-1/2 hr displace w/10# pkr fluid; 4-1/2 hr RU JSI WL to run CPA valve in hole; had 2300# on tbq & 2300# on csg; attempted to close sleeve in CPA valve; had 5500# on tbq & csg; sleeve communicating; SI @ 3:30 am; 3800# on tbq & 3400# on csg; EDWC \$28,017; ETWC \$282,651.

DIAMOND SM-36 No. 1 (WO)  
1980' FSL & 660' FEL  
Section 36-248-33E  
Lea County, New Mexico  
Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG #: 100 WI  
AFE No. 0384100011 \$55,000  
SC No. N/A

05-22-91                   PRESENT OPERATION: WO Workover Rig  
  
24 hr SITP 7100#: CP 800; SI 85 hr; EDWC \$0; ETWC  
\$72,034.

05-23-91                   PRESENT OPERATION: WO Workover  
  
24 hr SITP 7100#; CP 800#; SI 109 hr; EDWC \$0; ETWC  
\$72,034.

05-24-91                   PRESENT OPERATION: WO Workover  
  
24 hr SITP 7200#; CP 800#; SI 133 hr; EDWC \$0; ETWC  
\$72,034.

05-25-91                   PRESENT OPERATION: WO Workover  
  
24 hr SITP 7200#; CP 800#; SI 157 hr; EDWC \$0; ETWC  
\$72,034.

05-26-91                   PRESENT OPERATION: WO Workover  
  
24 hr SITP 7200#; CP 800#; SI 181 hr; EDWC \$0; ETWC  
\$72,034.

05-27-91                   PRESENT OPERATION: WO Workover  
  
20 hr SITP 7200#; CP 800#; SI 205 hr; 4 hr open  
well to pit; blew well down; TP 0#; CP 800#; SI  
wellhead; EDWC \$0; ETWC \$72,034.

05-28-91                   PRESENT OPERATION: Move in pulling unit  
  
2 hr SITP 3240#; CP 800#; 6 hr RU JSI WL; made 2  
runs; rev 2-1/2" bar & line cutter; 16 hr well SI;  
EDWC \$2,605; ETWC \$74,639.

05-29-91                   PRESENT OPERATION: Rigging up  
  
3 hr well shut-in; 1 hr open well to pit, tbq psi  
7340#; csg 800#; bled psi to 0#; 3 hr install back  
press valve in Xmas tree; 9 hr RU pits & raising  
derrick; 9 hr well SI; will break tour today; EDWC  
\$7,980; ETWC \$82,619.

DIAMOND SM-36 No. 1 (WO)  
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14,994' Morrow  
EOG #: 100 WI  
AFE No. 0384100011 \$55,000  
SC No. N/A

05-17-91

PRESENT OPERATION: Fish Wire & Tools

14 hr MIRU Jarrel WLS; PU, RIH w/2-1/4" wire  
locator; tag soft fill @ 14,822'; tag fish @  
14,856'; TOH LD wire locator; residue on tools  
indicated "fill" is oil-based mud; PU fishing tool;  
TIH tag fish @ 14,856'; could not catch; TOH LD  
fish tool; PU 2 prong wire grapple; TIH caught fish  
@ 14,856'; start out of hole; fish dragging,  
pulling @ 1100#; pulled to 14,267'; sheared fishing  
tool, TOH, RD Jarrel WL; SDFN; TP 4500#; CP 750#;  
will RU electric line truck in am; this am CP  
7000#; CP 800#; EDWC \$2,700; ETWC \$57,334.

*34 of soft fill*

*either null,  
fish or ball  
of wire*

05-18-91

PRESENT OPERATION: Jarring on Fish

10 hr MIRU Jarrel Electric line truck & RU crane to  
hole 65' lubricator; RIH w/1 11/16" fishing tool;  
caught fish; jar on fish; fishing tool broke TOH;  
PU new WL grapple, TIH; caught fish; jarred on fish  
w/3000#; pull w/hydraulic jars & 265# sinker bars;  
moved fish 269' to 14,000' in 10 hr; try to jar  
down to shear pin in fishing tool; pin would not  
hears; 14 hr jarred on fish all night; no movement;  
could not get off of fish; EDWC \$7,600; ETWC  
\$64,934.

05-19-91

PRESENT OPERATION: WI Workover Rig

11 hr Jarrel Electric line serv jar on fish stuck  
in tbg @ 14,000', no movement; blow down well to  
pit; TP 100#: CP 800#; RU & drop cable cutter in  
well; cut cable @ 14,000'; TOH w/line, SI well; RD  
Jarrel Services; SDFN; 13 hr SITP 1850#; CP 800#;  
EDWC \$7,100; ETWC \$72,034.

05-20-91

PRESENT OPERATION: WO Workover Rig

24 hr SITP 3850#; CP 800#; SI 37 hr; EDWC \$0; ETWC  
\$72,034.

05-21-91

PRESENT OPERATION: WO Workover Rig

24 hr SITP 7000#: CP 800; SI 61 hr; EDWC \$0; ETWC  
\$72,034.

DIAMOND SM-36 No. 1 (WO)  
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 Section 36-248-33E  
 Lea County, New Mexico  
 Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG #: 100 WI  
 AFE No. 0384100011 \$55,000  
 SC No. N/A

| <u>TIME</u> | <u>BW</u> | <u>CHK</u> | <u>FTP</u> | <u>CP</u> |
|-------------|-----------|------------|------------|-----------|
| 5:00        |           | 13/64      | 6200       | 500       |
| 6:00        | 35        | 16/64      | 3800       | 500       |
| 7:00        | 35        | 16/64      | 1900       | 500       |
| 8:00        | 20        | 24/64      | 900        | 500       |
| 9:00        | 5         | 64/64      | 100        | 500       |
| 10:00       | 2         | 64/64      | 50         | 500       |
| 11:00       | -         | 64/64      | 10         | 500       |
| 12:00 am    | -         | 64/64      | 5          | 500       |
| 1:00        | -         | 64/64      | 0          | 500       |
| 6:00 am     | Well dead |            |            |           |

05-14-91

PRESENT OPERATION: SI BU

*with well*  
 13 hr MIRU Otis Coil tbg unit, TIH jetting; FL 9500'; jet well to 14,700'; jet well dry; SD N2 for 3 hr; had light gas blow to pit; start up N2; no fluid entry; TOH w/coil tbg; RD Otis; SI well; rec 30 bbls; 11 hr SITP 200; CP 600; TBLR 127; TBLTR 58; EDWC \$10,967; ETWC \$54,634.

05-15-91

PRESENT OPERATION: SI BU

24 hr SITP 1900; CP 600; SI 35 hr; EDWC \$0 ETWC \$54,634

05-16-91

PRESENT OPERATION: Fish Bailer

8 hr MIRU Jarrel WL Serv; PU RIH w/<sup>\*</sup>~~2" bailer~~; tag bridge in csg @ 14,885' (Sinatra perfs 14,892'-900'); broke thru bridge, trapped pres start blowing tools up hole; at surface 5000 psi lubricator blew off wellhead; 10,000' slick line blew out of well; SI well; SITP 4050 psi; lost bailer & tools down hole; not enough line on truck to fish; in am will get truck & 10,000 psi lubricator; SDFN; EDWC \$0; ETWC \$54,634.

*tree cap*

\* 2 1/4" magnet, swivel, 3' sinker bars, spring jars, 10' sinker bar, & rope socket.

*Sinatra*

DIAMOND SM-36 No. 1 (WO)  
1980' FSL & 660' FEL  
Section 36-248-33E  
Lea County, New Mexico  
Pitchfork Ranch Morrow Field

Oper: ENRON OIL & GAS COMPANY  
14,994' Morrow  
EOG #: 100 WI  
AFE No. 0384100011 \$55,000  
SC No. N/A

05-10-91

PRESENT OPERATION: Set Sand Plug Across Morrow "B"

*Sinatra*

10 MIRU Schlum WL Serv; RIH w/2-1/8" ultrajet perf guns; perf Morrow Sinatra Zone from 14,892'-14,900'  
4 SPF total 33 holes; no press incr; TP 0; CP 500; RD Schlum; 14 hr SI well; TP 0; CP 500; EDWC \$6,523; ETWC \$6,523.

05-11-91

PRESENT OPERATION: Acidize Morrow Sinatra Zone

*3 hr*

3 hr MIRU Howco, pumped sand plug across Morrow "B" as follows: Stage 1 100 gals Alco foam gel, 0 psi, 4 BPM; Stage 2 500 gals Alco foam gel w/1100# 20/40 mesh sand, 0 psi, 4 BPM; Stage 3 flush w/3000 gals Alco foam, 5450 psi, 3 BPM; 21 hr SI well overnight; let sand settle; EDWC \$500; ETWC \$7,023.

05-12-91

PRESENT OPERATION: Reperforate Sinatra Zone

*Reperforate*

MIRU Jarrel WL Serv; RIH w/tbg end locator; tag sand @ 14,940'; TOH RD Jarrel; MIRU Howco, acidize Morrow Sinatra zone; well press up to 10,000 psi; no form break; RD Howco; will reperforate in am; SDFN; EDWC \$2,177; ETWC \$9,200.

*whit 11/12/91*

05-13-91

PRESENT OPERATION: Jet Well

*acidize Sinatra*

6 hr MIRU Schlumberger WL Serv perf Morrow Sinatra from 14,892'-900' 4 SPF total 33 holes; no press incr; TOH RD Schlumberger; 4 hr RU Howco, lay & test lines to 10,000 psi; acidize Morrow Sinatra w/2000 gal mod 101 acid w/1000 SCF N2/bbl as follows: Stage 1 250 gals mod 101, 7900 psi, 1.6 BPM, form broke @ 9200 to 8200; Stage 2 30,000 SCF N2 pad, 6800 psi, 2500 SCF/min; Stage 3 175 gal mod 101 acid w/1000 SCF N2/bbl, 7970 psi, 3.9 BPM; Stage 4 flush w/2394 gal 2% KCL w/1000 SCF N2/bbl, 7680 psi, 4 BPM; avg rate 4 BPM, avg press 8000, max press 9200; ISIP 6600; 5 min 6500; 10 min 6400; 15 min 6340; 30 min 6200; TBTR 185 bbls; 9 hr open well to pit on 64/64" chk; TP 0; CP 500; rec 97 BW, 0 BO; 5 hr well dead; will RU Otis coil tbg unit this am; TBLR 97; TBLTR 88; EDWC \$34,467; ETWC \$43,667.

*perforated*

DIAMOND SM-36 STATE NO. 1 (WO-GAS)  
 1980' FSL & 660' FEL  
 Section 36-24S-33E  
 Lea County, New Mexico  
 Pitchfork Ranch Field  
 Marshall Prospect

Oper: ENRON OIL & GAS COMPANY  
15,200' Morrow  
EOG %: 100 WI, 87.5 NRI  
 AFE No.  
 SC No. N/A  
 Product Call %: 100

| DATE                                                                     | Flow Time |                                                            | MCFG | BO | BW | FTP | GP   | LP  | REMARKS          |
|--------------------------------------------------------------------------|-----------|------------------------------------------------------------|------|----|----|-----|------|-----|------------------|
|                                                                          | Hours     |                                                            |      |    |    |     |      |     |                  |
| 02-09-91                                                                 | 24        |                                                            | 875  | 0  | 30 | 310 | 400  | 870 |                  |
| 02-10-91                                                                 | 24        |                                                            | 880  | 0  | 38 | 310 | 400  | 880 |                  |
| 02-11-91                                                                 | 24        |                                                            | 801  | 0  | 37 | 300 | 400  | 820 |                  |
| 02-12-91                                                                 | 24        |                                                            | 875  | 0  | 36 | 300 | 900  | 810 |                  |
| 02-13-91                                                                 | 24        |                                                            | 733  | 0  | 40 | 300 | 900  | 800 |                  |
| 02-14-91                                                                 | 24        |                                                            | 702  | 0  | 38 | 300 | 900  | 860 |                  |
| 02-15-91                                                                 | 24        |                                                            | 760  | 0  | 38 | 320 | 900  | 860 | 12 hrs - 288 hrs |
| Open to air @ 9:00 am, well lifting heavy fluid, left blowing overnight. |           |                                                            |      |    |    |     |      |     |                  |
| 02-16-91                                                                 | 2         |                                                            | 760  | 0  | 0  | 320 | 900  | 860 |                  |
|                                                                          | 22 hr     | well to air-unloaded 0 BO, 44 BW; well to sales @ 9:00 am. |      |    |    |     |      |     |                  |
| 02-17-91                                                                 | 24        |                                                            | 741  | 0  | 31 | 320 | 900  | 880 |                  |
| 02-18-91                                                                 | 24        |                                                            | 755  | 0  | 31 | 320 | 900  | 880 |                  |
| 02-19-91                                                                 | 24        |                                                            | 728  | 0  | 37 | 300 | 900  | 880 |                  |
| 02-20-91                                                                 | 24        |                                                            | 742  | 0  | 25 | 300 | 1000 |     |                  |
| 02-21-91                                                                 | 24        |                                                            | 719  | 0  | 31 | 300 | 1000 | 860 |                  |

This Pitchfork Ranch well was producing from the Morrow "C" perfs 15,217' to 15,298'; flowing 1200 MCFD with a FTP of 450 psig after an alco foam fracture treatment. Morrow "B": intervals 14,994'-15,016' and 15,022'-15,028' were perforated and a sand plug was pumped across Morrow "C" perfs. The Morrow "B" sand was then treated with an acid breakdown/minifrac, and jetted back to production with the current rate being 720 MCFD and 35 BWPD with a FTP of 300 psig. Future plans include perforating the Sinatra and Morrow "A" sands with the intent of commingling all production. The additional work is to be commenced within the next few months. The estimated cost to date is \$54,113. FINAL REPORT.

DIAMOND SM-36 STATE NO. 1 (WO-GAS)

1980' FSL & 660' FEL

Section 36-24S-33E

Lea County, New Mexico

Pitchfork Ranch Field

Marshall Prospect

Oper: ENRON OIL & GAS COMPANY

15,200' Morrow

EOG %: 100 WI, 87.5 NRI

AFE No.

SC No. N/A

Product Call %: 100

02-06-91

PRESENT OPERATION: Flow well to air

24 hr flowing thru test unit at 733 MCF; TP 200#; CP 400#;  
32/64" chk; BP 80#; 0 BO; 36 BW; EDWC \$0; ETWC \$53,213.

Flow Tests

| Time     | MCFD | BO | BW  | CHK   | FTP | CP  | BP |
|----------|------|----|-----|-------|-----|-----|----|
| 9:00 am  | 840  | 0  | 2   | 32/64 | 180 | 400 | 80 |
| 12:00 pm | 840  | 0  | 5   | "     | 190 | "   | 80 |
| 3:00     | 749  | 0  | 5   | "     | 200 | "   | 80 |
| 5:00     | 773  | 0  | 3   | "     | 200 | "   | 80 |
| 6:00 am  | 775  | 0  | 1.5 | "     | 200 | "   | "  |

02-07-91

PRESENT OPERATION: Well to sales

2 hr flowing thru test unit @ 773 MCF; TP 300; CP 400; 32/64"  
chk; BP 80; 0 BO, 3 BW; turn to sales & start compressor; 22  
hr well flowing to sales @ 860 MCF; TP 310; CP 400; LP 900; 0  
BO, 55 BW; EDWC \$900; ETWC \$54,113.

Flow Tests

| Time     | MCFD | BO | BW | CHK   | FTP | CP  | BP  |
|----------|------|----|----|-------|-----|-----|-----|
| 7:00 am  | 773  | 0  | 2  | 32/64 | 200 | 400 | 80  |
| 9:00     | 773  | 0  | 2  | "     | 200 | "   | 80  |
| 10:00    | 725  | 0  | 0  | 64/64 | 280 | "   | 900 |
| 11:00    | 700  | 0  | 0  | "     | 280 | "   | "   |
| 12:00 pm | 700  | 0  | 0  | "     | 280 | "   | "   |
| 1:00     | 839  | 0  | 6  | "     | 300 | "   | "   |
| 2:00     | 885  | 0  | 5  | "     | 310 | "   | "   |
| 4:00     | 885  | 0  | 5  | "     | "   | "   | "   |
| 6:00     | 885  | 0  | 3  | "     | "   | "   | "   |
| 8:00     | 885  | 0  | 3  | "     | "   | "   | "   |
| 10:00    | 860  | 0  | 6  | "     | "   | "   | "   |
| 12:00 am | 860  | 0  | 6  | "     | "   | "   | "   |
| 3:00     | 860  | 0  | 6  | "     | "   | "   | "   |
| 5:00     | 860  | 0  | 6  | "     | "   | "   | "   |
| 7:00     | 860  | 0  | 5  | 64/64 | 310 | 400 | 900 |

02-08-91

PRESENT OPERATION: Well to sales

24 hr flowing 802 MCF; TP 310#; CP 400#; LP 900#; 0 BO, 45 BW;  
EDWC \$0; ETWC \$54,113.

DIAMOND SM-36 STATE NO. 1 (WO-GAS)  
1980' FSL & 660' FEL  
Section 36-24S-33E  
Lea County, New Mexico  
Pitchfork Ranch Field  
Marshall Prospect

Oper: ENRON OIL & GAS COMPANY  
15,200' Morrow  
EOG %: 100 WI, 37.5 NRI  
AFE No.  
SC No. N/A  
Product Call %: 100

02-02-91

PRESENT OPERATION: Well SI for BU

3 hr well SI for BU; TP 725; CP 1500; 7 hr blew well to pit; recv'd 0 BW, 0 BO; TP 10#; CP 1500#; 64/64" chk; 14 hr well WI for BU; TP 500#; CP 1700#; have 50 BLWTR; EDWC \$0; ETWC \$38,923.

02-03-91

PRESENT OPERATION: Well SI for BU, Jetting Well

1 hr well SI; TP 500#; CP 1700#; 11 hr MIRU Cudd coil tbg unit; blew down well; TIH w/coil tbg, FL @ 2000'; jet well to 14,500'; jet well dry in 2 hr; recv'd 100 bbls wtr; shut ccwn N2; had good gas returns in 30 min; left N2 down for 3 hr; start N2, had btms up in 45 min; jet well dry, recv'd 20 bbls; wtr; TOH w/coil tbg; had good gas flow to pit lifting wtr; ran chlorides on wtr = 25,000 ppm; RD & release Cudd; 12 hr flow well to pit on 48/64" chk; TP 58#; CP 0#; 675 MCF, 50 BW, 0 BO; have recovered 120 bbl over load; EDWC \$13,390; ETWC \$52,313.

02-04-91

PRESENT OPERATION: Flow well to pit

24 hr flow well to pit on 48/64"; TP 60#; CP 0#; 675 MCF, 72 BW, 0 BO; EDWC \$0; ETWC \$52,313.

02-05-91

PRESENT OPERATION: Flow well to air

6 hr flowing to pit on 32/64" chk; 675 MCF; TP 130#; CP 400#; 0 BO, 12 BW; 1 hr shut well in, turn choke around & start testing thru separator; TP 500#; CP 400#; 17 hr flowing thru test unit @ 850 MCF; TP 150#; CP 400#; 32/64" chk BP 80#; 0 BO, 34 BW; EDWC \$900; ETWC \$53,213.

Flow Tests

| Time     | MCFD | BO | BW | CHK   | FTP | CP  | BP  |
|----------|------|----|----|-------|-----|-----|-----|
| 3:00 pm  | 870  | 0  | 8  | 32/64 | 135 | 400 | 80  |
| 5:00     | 725  | 0  | 4  | "     | 150 | "   | 100 |
| 7:00     | 907  | 0  | 4  | "     | 190 | "   | 100 |
| 9:00     | 817  | 0  | 2  | "     | 150 | "   | 80  |
| 12:00 am | 817  | 0  | 5  | "     | 150 | "   | "   |
| 2:00     | 817  | 0  | 3  | "     | 150 | "   | "   |
| 4:00     | 817  | 0  | 3  | "     | "   | "   | "   |
| 6:00     | 817  | 0  | 3  | "     | "   | "   | "   |
| 7:00     | 817  | 0  | 3  | 32/64 | 150 | 400 | 80  |

DIAMOND SM-36 STATE NO. 1 (WO-GAS)  
 1980' FSL & 660' FEL  
 Section 36-24S-33E  
 Lea County, New Mexico  
 Pitchfork Ranch Field  
 Marshall Prospect

Oper: ENRON OIL & GAS COMPANY  
 15,200' Morrow  
 EOG %: 100 WI. 87.5 NRI  
 AFE No.  
 SC No. N/A  
 Product Call %: 100

01-31-91 PRESENT OPERATION: Flow back acid frac

2 hr MIRU Jarrel WL; RIH w/tbg end locator; found end of tbg; tagged top of sand fill @ 15,104' (Morrow B perms 14,994'-15,028'); POH RD; 5 hr MIRU Howco; lay & test lines to 10,000 psi; acidize Morrow "B" zone w/1500 gals mod 101 acid, 4000 gal Alco gel & displace w/86 bbls 2% KCL wtr w/N2 as follows:

| Stage | Volume & Discription                          | Rate     | Press |
|-------|-----------------------------------------------|----------|-------|
| 1     | 1500 gals Mod 101 acid w/750 SCF N2/bbl       | 8.5 BPM  | 7300  |
| 2     | 4000 gals Alco gel w/750 SCF N2/bbl           | 10.4 BPM | 8200  |
| 3     | Flush w/3612 gals 2% KCL wtr w/750 SCF N2/bbl | 10.4 BPM | 9000  |

Avg rate 10 BPM, avg press 8200 psi; max press 9100; ISIP 6200; 5 min 6000; 10 min 5900; 15 min 5800; TBTR 290; (186 BW & 104 bbl methanol); RD Howco; 14 hr open well to pit, flow back treatment on 64/64" chk; TP 50 psig, CP 750 psig; 150 MCFD (est); TBLR 235; TBLTR 55; EDWC \$27,471; ETWC \$38,023.

| Time    | BW | Flow Test |      |     | Remarks     |
|---------|----|-----------|------|-----|-------------|
|         |    | CHK       | FTP  | CP  |             |
| 12:00   |    | 14/64     | 5500 | 750 |             |
| 1:00    | 40 | "         | 5000 | "   |             |
| 2:00    | 50 | 16/64     | 4000 | "   |             |
| 3:00    | 45 | 18/64     | 2800 | "   |             |
| 4:00    | 50 | 24/64     | 1800 | "   |             |
| 5:00    | 20 | 32/64     | 700  | "   |             |
| 6:00    | 10 | 64/64     | 25   | "   |             |
| 8:00 pm | 5  | "         | 50   | "   |             |
| 11:00   | 0  | "         | 25   | "   | SIBU        |
| 1:00 am | -  | -         | 500  | "   | Open to pit |
| 3:00    | 15 | 64/64     | 50   | "   |             |
| 5:00    | -  | "         | 50   | "   | SIBU        |
| 6:00    | -  | -         | 150  | 750 |             |

02-01-91 PRESENT OPERATION: Flow well to pit/recover frac

4 hr well SI; TP 500; CP 750; 2 hr blew well to pit; recvd 5 BW, 0 BO; TP 25; CP 750; 64/64" chk; 2 hr SIBU; TP 200; CP 750; 2 hr blew well to pit, 0 BW, 0 BO; TP 25; CP 750; 64/64" chk; 14 hr SI well BU; TP 680; CP 750; have 50 BLWTR; EDWC \$900; ETWC \$38,923.

DIAMOND SM-36 STATE NO. 1 (WO-GAS)

1980' FSL & 660' FEL

Section 36-24S-33E

Lea County, New Mexico

Pitchfork Ranch Field

Marshall Prospect

Oper: ENRON OIL & GAS COMPANY

15,200' Morrow

EOG %: 100 WI, 87.5 NRI

AFE No.

SC No. N/A

Product Call %: 100

01-23-91 PRESENT OPERATION: Well to sales

8 hr MIRU Wedge WL Serv; perf Morrow "B" sand from 14,994'-15,016' & 15,022'-028', 4 spf total 114 holes; no press incr; tag PBD @ 15,228'; TOH, RD Wedge; put well to sales; EDWC \$10,552; ETWC \$10,552.

01-24-91 PRESENT OPERATION: Well to sales

24 hr flowed 839 MCF; TP 400; CP 600; LP 900; 0 BO, 3 BW; EDWC \$0; ETWC \$10,552.

01-25-91 PRESENT OPERATION: Well to sales

24 hr flowed 875 MCF; TP 380; CP 600; LP 910; 0 BO, 6 BW; EDWC \$0; ETWC \$10,552.

01-26-91 PRESENT OPERATION: Well to sales

24 hr flowed 915 MCF; TP 400; CP 600; LP 950; 0 BO, 12 BW; EDWC \$0; ETWC \$10,552.

01-27-91 PRESENT OPERATION: Well to sales

24 hr flowed 862 MCF; TP 400; CP 600; LP 950; 0 BO, 6 BW; EDWC \$0; ETWC \$10,552.

01-28-91 PRESENT OPERATION: Well to sales

24 hr flowed 862 MCF; TP 400; CP 600; LP 950; 0 BO, 6 BW; EDWC \$0; ETWC \$10,552.

01-29-91 PRESENT OPERATION: Set sand plug across Morrow "C" Zone

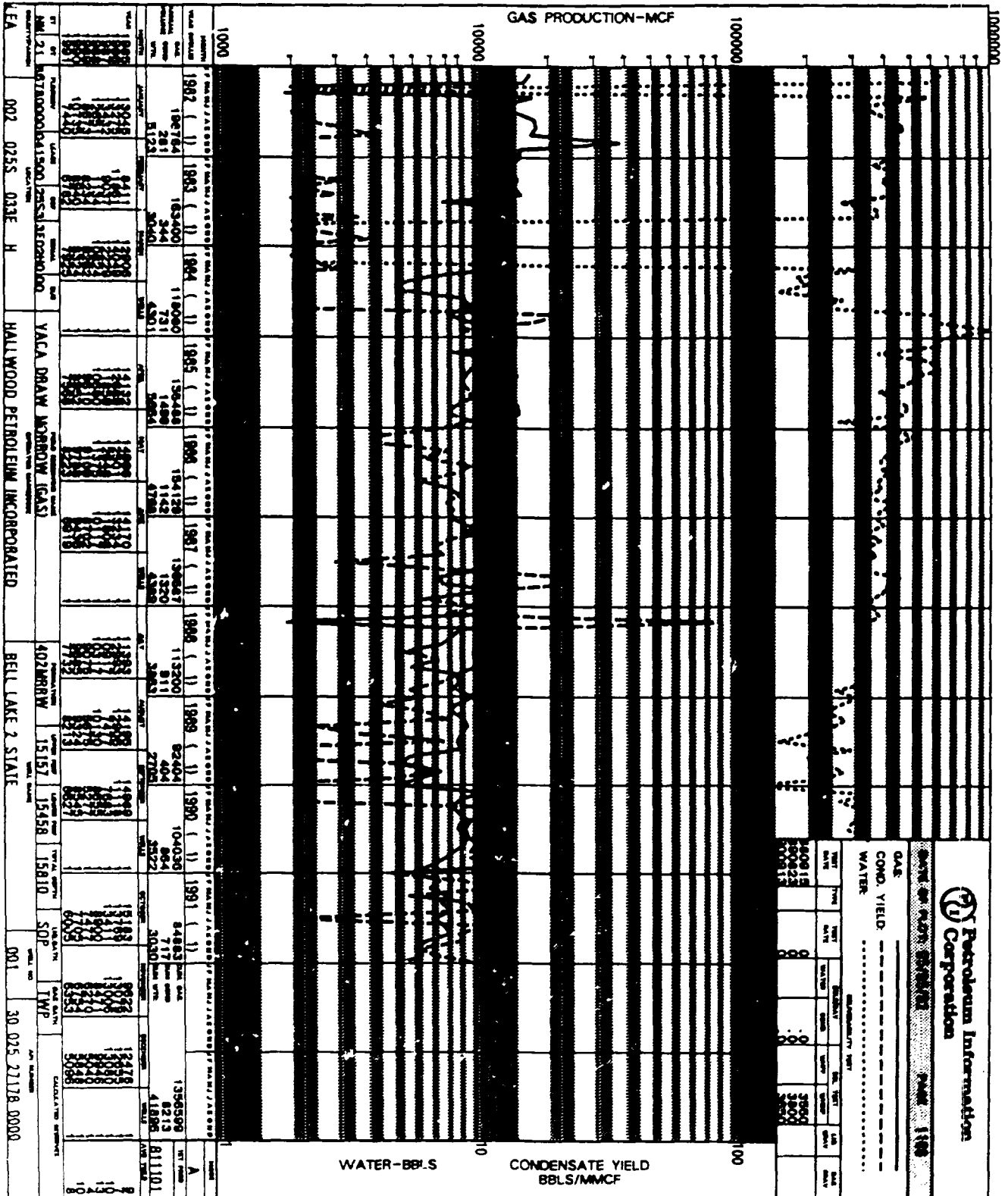
24 hr flowed 853 MCF; TP 400; CP 600; LP 930; 0 BO, 9 BW; EDWC \$0; ETWC \$10,552.

01-30-91 PRESENT OPERATION: Acidize Morrow "B" Zone

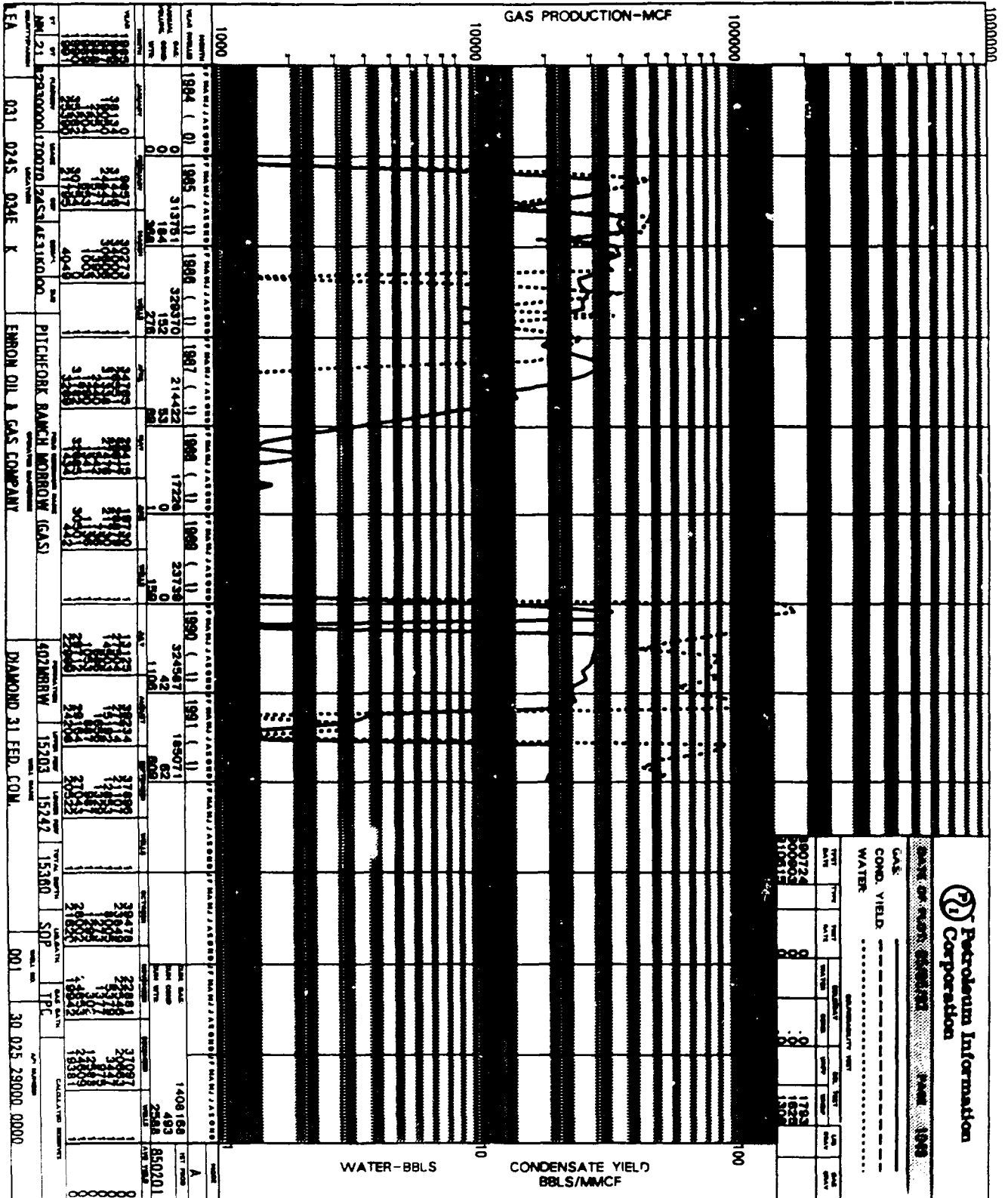
20 hr flowed 844 MCF; TP 390; CP 600; LP 910; 0 BO, 3 BW; SI well @ 7:00 am; 4 hr MIRU Howco gel 8000 gal alco gel in frac tank; pumped 800 lbs 20/40 mesh sand w/500 gals Alco gel displace to 13,163' w/3200 gal Alco gel @ 4 BPM; max psi 6850; SD, let sand fall to btm; SI well, RD Howco; SDFN; EDWC \$1,150; ETWC \$11,702.

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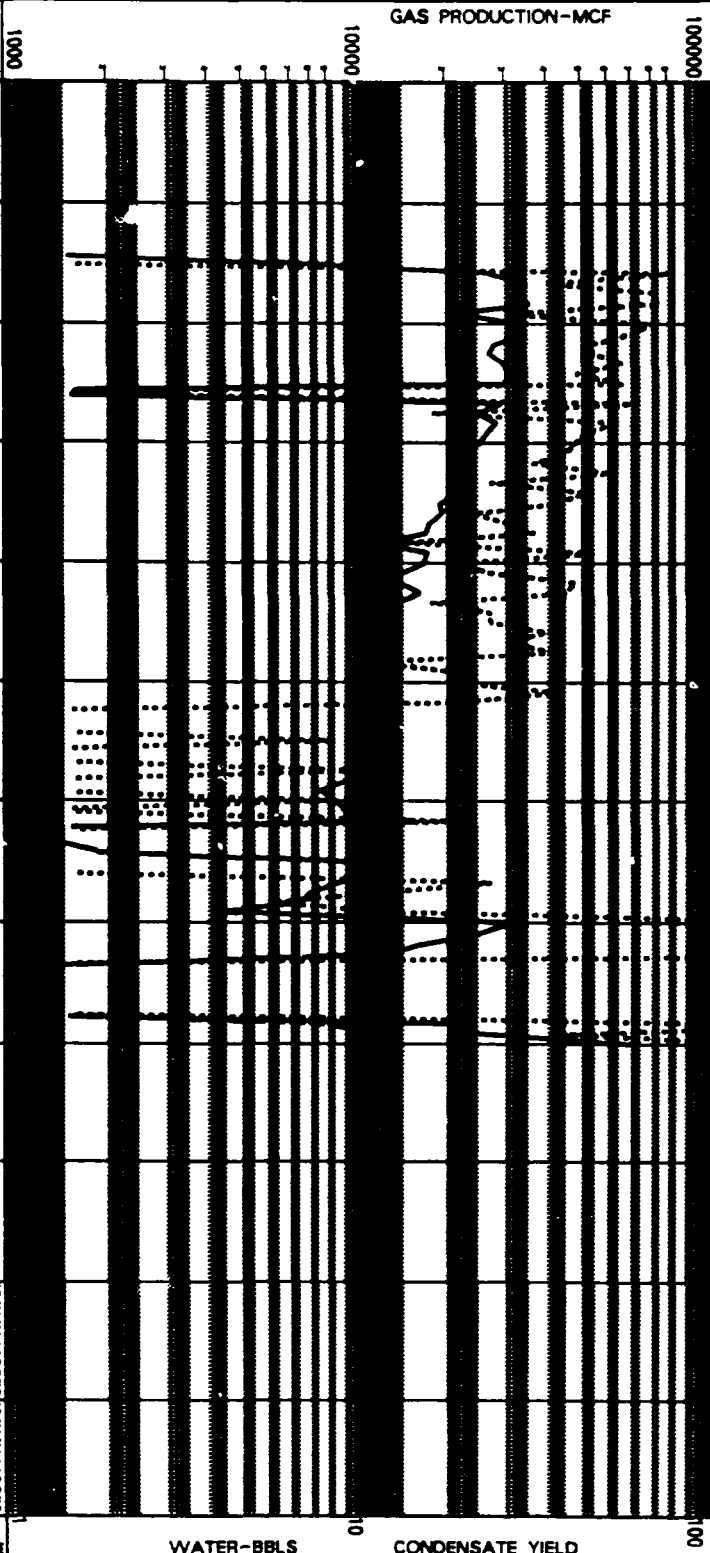


# Petroleum Information Corporation

GAS COND. YIELD WATER

| DATE     | TIME  | TYPE | TEST | DATE     | TIME  | TYPE | TEST | DATE     | TIME  | TYPE | TEST |
|----------|-------|------|------|----------|-------|------|------|----------|-------|------|------|
| 10/21/81 | 10:00 | 0    | 0    | 10/21/81 | 10:00 | 0    | 0    | 10/21/81 | 10:00 | 0    | 0    |

GAS PRODUCTION-MCF



WATER-BBLS CONDENSATE YIELD BBLS/MMCF

| DATE     | TIME  | TYPE | TEST | DATE     | TIME  | TYPE | TEST | DATE     | TIME  | TYPE | TEST |
|----------|-------|------|------|----------|-------|------|------|----------|-------|------|------|
| 10/21/81 | 10:00 | 0    | 0    | 10/21/81 | 10:00 | 0    | 0    | 10/21/81 | 10:00 | 0    | 0    |