Case No
4076

Large Exhibits

W.N.M.P.E. MICROGRAPHICS
P.O. DRAWER 2148
ROSWELL, NEW MEXICO 88202
DOCUMENT IMAGED
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No Further Development
Well Summary Documents
DOCUMENT NUMBER 4076
REEL NUMBER 24
FRAME NUMBER 155
DATE 12-22-87
FILMED OUT BY Sylvia Ellen

(2-14-89)

## MORROW DATA
## PEARL, WILSON & CRANE-LEDGE AREAS
## LEA COUNTY, NEW MEXICO

| | PEARL (1) SHELL #1 HOOPER (27-19S-35E) | PEARL (2) SHELL #2 RECORD (35-19S-35E) | LYNCH (3) HANON #1 NE LYNCH UN. (17-20S-35E) | BERRY (4) TEXACO #1 BERRY UNIT (7-21S-34E) | WILSON (5) UN. OF CALIF. #1 WILSON UN. (13-21S-34E) | SO. WILSON (6) SINCLAIR #1 S. WILSON UN. (23-21S-34E) | (7) SHELL #2 S. WILSON UN. (33-21S-34E) | (8) SHELL #1 GAS STATE (3-22S-34E) | GRAMA RIDGE (9) SHELL #1 STATE GRA (3-22S-34E) | (10) SHELL #4-1 FED.-GR (4-22S-36E) | (11) SUPERIOR #1 GOVT-"A" (10-22S-26E) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T/Morrow | 12410 (-8680) | 12508 (-8811) | 13270 (-9548) | 13710 (-9940) | 12138 (-8487) | 12360 (-8823) | 12919 (-9267) | 12750 (-9099) | 12722 (-9078) | 12780 (-9137) | 12762 (-9177) |
| Morrow Perfs. T/Perfs. B/Perfs. | 12796 13050 (L. Morrow) | 12642 12666 | 13659 13774 | 13908 13986 | 12320 12344 | 12643 12893 | 13255 | 12921 13056 | 12827 13021 (incl. WO) | 12886 13111 | 12953 12963 |
| Morrow SIBHP | ISIP-NR (FSIP 5495) | ISIP-NR (35# FSIP 6200) | ISIP-NR (162# FSIP 7468) | ISIP-NR (30# FSIP 7583) | ISIP-NR (120# FSIP 6927) | ISIP-NR (120# FSIP 7280) | 90#/7660 | 100#/7682 | 180#/7611 | ISIP-NR (80# FSIP 7597) | NO ISIP (120# FSIP 6994) |
| Morrow Treatments | NR | A/1500 | A/1000 | None | A/200 | A/2000 | NR | NR | None | A/NR | NR |
| Morrow IP (CAOF) | 133 BOPD 1" CCOR 1887/11 | 125 BO & 1 BW 22/64" CCOR 4700/1) | 3850 M + (GLR 7961/1) | 1220 M + 34 BC -- 8/64" | 20200 M + ----- | 2560 M + 67 BC/ 11"-1/2" | 4635 M + 5.5 BC/MM 24/64" | 31753 M + Cond.-NR | 26500 M + Cond.-NR (Perfs. 12827-867) | 4900 M | 1972 M + 1 BC/MM |
| Morrow Comp. (Date) | 7-19-55 | 12-1-59 | 6-14-63 | 6-7-64 | 8-3-63 | 3-18-64 | 8-25-64 | 3-18-66 | 8-20-65 (Re-Comp. 3-12-68) | 6-5-65 | 3-23-66 |
| Morrow Prod. Commenced: (7-55) **Cum. to 1-1-68 (PB to Queen 12-56) | | (11-59) | (6-63) ** 287423 27925 | (12-64) 234806 10885 | (5-64) 2427745 34137 | (12-64) 378120 2977 | (11-66) 378120 2833 | (3-66) 3666247 19629 | (6-66) 2942707 12935 | (2-66) 1703237 15330 | (8-66) 495370 5133 |
| | 49129 | R&A | R&A 1964 | | | | | | | | |
| Jan. 1968 | | | | 1351 | 31080 | -- | 22026 | 147295 | 157000 | 56666 | 22270 |
| | | | | 8 | 276 | -- | 74 | 367 | 503 | 362 | 211 |
| Feb. | | | | 1530 | 28784 | -- | 23181 | 131255 | 117511 | 56950 | 26138 |
| | | | | 86 | 358 | -- | 102 | 289 | 295 | 334 | 234 |
| Mar. | | | | 2371 | 30079 | -- | 21280 | 132173 | 162093 | 59679 | 27021 |
| | | | | 96 | 362 | -- | 82 | 269 | 1555 | 311 | 243 |
| Apr. | | | | 4425 | 29065 | -- | 20031 | 110227 | 184929 | 55389 | 21289 |
| | | | | 116 | 339 | -- | 46 | 216 | 653 | -- | 176 |
| May | | | | 4313 | 28529 | -- | 20958 | 99049 | 198001 | 52796 | 24179 |
| | | | | 200 | 304 | -- | 35 | 193 | 479 | -- | 212 |
| June | | | | 1792 | 27486 | -- | 20400 | 84095 | 151089 | 44379 | 23874 |
| | | | | 58 | 240 | -- | 5 | 144 | 310 | -- | 209 |
| July | | | | 2574 | 28080 | -- | 22789 | 77432 | 147400 | 15198 | 22500 |
| | | | | 58 | 294 | -- | -- | 112 | 233 | -- | 185 |
| Aug. | | | | 2775 | 18899 | -- | 24893 | 72291 | 151279 | 24181 | 23073 |
| | | | | 83 | 258 | -- | -- | 112 | 348 | -- | 182 |
| Sept. | | | | 2605 | 30679 | -- | 19699 | 61907 | 156262 | 8103 | 20960 |
| | | | | 139 | 388 | -- | -- | 96 | 207 | 14 | 207 |
| Oct. | | | | 2360 | 28114 | -- | 19217 | 56664 | 153194 | 20829 | 21192 |
| | | | | 58 | 268 | -- | -- | 84 | 231 | 147 | 192 |
| Nov. | | | | 1575 | 25989 | -- | 18412 | 38629 | 142462 | 19394 | 20323 |
| | | | | -- | 223 | -- | -- | 56 | 216 | 132 | 172 |
| Dec. 1968 | | | | 513 | 25068 | -- | 17817 | 33945 | 134359 | 21002 | 21598 |
| | | | | 3 | 330 | -- | -- | 24 | 187 | 145 | 178 |
| Cum. to 1-1-69 | | | | 262992 | 2759599 | 118120 | 827053 | 4711309 | 4798286 | 2116781 | 769787 |
| | | | | 11780 | 37929 | 2977 | 3227 | 21571 | 18289 | 16775 | 7544 |

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIV.
Case No. 5
Appl. #4076

** Upper figures for each period denotes Gas in Mcf
Lower figures for each period denotes Condensate in Barrel

W.N.M.P.E. MICROGRAPHICS
END OF DOCUMENT

N. M. OIL CONSERVATION COMMISSION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87501

The document listed below has been withdrawn for the purpose of:
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New Water Damaged Documents

DOCUMENT NUMBER 4076
REEL NUMBER 24
FRAME NUMBER 155-156
DATE 12-22-87
FILMED OUT BY Lydia Rhea

BEFORE EXAMINER
OIL CONSERVATION
CASE NO. 4076

## MORROW DATA
### OSUDO, OSUDO NORTH & E.E.LEA AREAS
### LEA COUNTY, NEW MEXICO
(2-14-69)

| | SOUTHEAST LEA | | | | | | UNDESIGNATED | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | WOLF./DEV. ATAPCO SOUTHEAST LEA | WOLF./MOR. SOUTHEAST LEA | MALLARD | OSUDO, NORTH (MORROW) JAKE L. HAMON | | | ATOKA-MC TEXACO | OSUDO (MOR) | OSUDO (MOR) GULF ET.AL. | | |
| | NO. 1 (26-20S-35E) | NO. 2 (25-20S-35E) | ALVES NO. 1 (6-20S-36E) | AMERADA-FED. NO. 1 (17-20S-36E) | ST. E-8913 NO. 1 (20-20S-36E) | UNION-ST. NO. 1 (30-20S-36E) | ST. "DB" NO. 1 (25-20S-35E) | ST. "CV" NO. 1 (36-20S-35E) | NO. 1 (31-20S-36E) | NO. 2 (5-21S-35E) | NO. WILSON DEEP (6-21S-35E) |
| T/Morrow | 12822<br>(-9142) | 12826<br>(-9140) | 12010<br>(-8360) | 11223<br>(-7585) | 11274<br>(-7629) | 11270<br>(-7605) | 11812<br>(-8133) | 11310<br>(-7648) | 11268<br>(-7613) | 11284<br>(-7623) | 11330<br>(-7672) |
| Morrow Perforations: T/Perfs. B/Perfs. | None<br>(WC & Dev.) | 12856<br>13062 | 12100<br>12238 | 11358<br>11388 | 11440)OH<br>11457) | 11264<br>11426 | * None<br>(Atoka) | 11378<br>11422 | 11353<br>11376 | 11320<br>11478 | 11284<br>11318 (Dry Hole) |
| Morrow SIBHP | 60#/6800 | 60#/7015<br>60#/6885 | 60#/6482<br>60#/6505 | 90#/6913 | 60#/6653 | 60#/6809 | No Tests | Not Rep'td. | Not Rep'td. | 60#/6170 | Not Rep'td. |
| Morrow Treatments | --- | A/2250<br>F/8050<br>A1/4000 | None | None | None | None | --- | A/12,500<br>F/20,000 | None | None | None |
| Morrow IP (CAOF) | --- | 134 M +<br>1.78 BC | 2,800 M +<br>(GLR 9700) | 23,822 M +<br>97 BC/4" | 39,000 M<br>+ ---- | 13,820 M +<br>(GLR 68340) | --- | 152 M + 5<br>BC - 18/64" | 14,500 M +<br>18 BC/HR | 7,820 M +<br>---- | 1,560 M +<br>(GLR 12411) |
| Morrow Comp. | --- | 12-68 | 10-67 | 8-66 | 5-65 | 8-66 | --- | 12-65 | 11-64 | 2-66 | 2-66 |
| Morrow Prod. Commenced: | | | (10-67) | (9-66) | (6-65) | (10-66) | | (1-69) | (12-64) | (3-66) | (No Prod) |
| **Cum. to Jan. 1968 | | | ** 64360<br>6116 | 2893606<br>67090 | 6183872<br>71917 | 2828213<br>22751 | | | 4299780<br>26988 | 5219789<br>69673 | 469773<br>13124 |
| Jan. 1968 | | | 61479<br>4259 | 106616<br>686 | 90603<br>171 | 95065<br>695 | | | 74981<br>182 | 209283<br>2829 | 14128<br>11 |
| Feb. | | | 39406<br>**** | 93230<br>--- | 75326<br>--- | 95869<br>--- | | | 69264<br>--- | 130787<br>--- | 11460<br>--- |
| Mar. | | | 21129<br>1543 | 98365<br>358 | 76629<br>150 | 95048<br>452 | | | 132<br>70306 | 2134<br>112721 | 0<br>10828 |
| Apr. | | | 46483<br>2851 | 80401<br>412 | 66367<br>127 | 82500<br>383 | | | 159<br>67928 | 1865<br>123015 | 8<br>9759 |
| May | | | 41105<br>2194 | 83331<br>412 | 67094<br>137 | 78731<br>347 | | | 157<br>65389 | 1835<br>135201 | 0<br>5166 |
| June | | | 34447<br>1603 | 75599<br>372 | 61288<br>140 | 81784<br>335 | | | 129<br>59129 | 1907<br>130430 | 0<br>6078 |
| July | | | 33537<br>1573 | 71714<br>344 | 58452<br>98 | 4162(?)<br>315 | | | 116<br>59584 | 1792<br>133573 | 0<br>8461 |
| Aug. | | | 32500<br>1373 | 68170<br>320 | 48099<br>117 | 77306<br>311 | | | 108<br>57718 | 1795<br>141378 | 11<br>7088 |
| Sept. | | | 24733<br>933 | 56866<br>117 | 50032<br>112 | 68611<br>271 | | | 109<br>50608 | 1831<br>165244 | 0<br>4275 |
| Oct. | | | 18404<br>764 | 53193<br>289 | 48864<br>120 | 64659<br>233 | | | 111<br>56900 | 2046<br>204413 | 0<br>3221 |
| Nov. | | | 17096<br>770 | 45295<br>203 | 41401<br>106 | 63230<br>240 | | | 113<br>54323 | 2636<br>189052 | 0<br>2564 |
| Dec. 1968 | | | 21897<br>861 | 53729<br>270 | 41943<br>101 | 57709<br>264 | | | 112<br>52818 | 2285<br>190525 | 0<br>2715 |
| Cum. to 1-1-69 | | | 456594<br>27378 | 3779190<br>71631 | 6909971<br>73429 | 3692367<br>28846 | | | 117<br>5038748<br>28533 | 2215<br>7084451<br>94643 | 0<br>553571<br>15154 |

* Crd. Mw 11800'-11850', rec. 50' sd. w/strks. shale - N.S.; Crd. 11810-11900. Rec. 50' tight sd. & sh. w/VSSG in 11'; Crd. 11900-11925. Rec. 25' sd. & sh. N.S.

** Upper figures for each period denotes Gas in MCF.
Lower figures for each period denotes Condensate in Barrels.

N.M.O.C.C. MICROGRAPHICS

C
SW

PENNZOIL
*1-34 LOWE-STATE*

AMERICAN TRADING AND PRODUCTION CORPORATION
*1-SE LEA UNIT*

AMERICAN TRADING AND PRODUCTION CORPORATION
*2-S E LEA UNIT*

TEXACO
*1-STATE OF N.M. "DB"*

-7000'

BASE / MASSIVE BONE SPRING

T/ WOLFCAMP

T/ ATOKA

T/ MORROW

T/ MISSISSIPPIAN LIMESTONE

T/ WOODFORD

T/ DEVONIAN

DST 13411-506'
Op 3/4hrs
FARO 48 M/cfd
Rec. 10 BC, 120' (SIP 5372 #

DST 13363'-637'
Op. 2hrs
GTS 1hr.8Zmin
FARO 80 M/cfd
Recovered GCWB 180' GCM,
60" ISIP 6931 #

DST 13639-739'
Op. 3hrs
Rec. WB, 400' GCMB
3000' SW, 60 ISIP 7361 #

PBA - 8-17-68

TD 13568

Perf 11400-470'
1P CAOF 15597 M/cfd R
243 BC/MM cfg Gr. 555 #
Compl. 4-2-68

DST 12806-861'
Op 8hrs 45min
WBTS =15"
GTS = 20'
FARO 1530 M/cfd + 315 BCPD
4/64" in., Gr 60°, GOR 4900/1
Rec 370' HG & GCM, no wtr.
60" ISIP 6800 #

DST 13030-080'
Op 3hrs
Rec. GCM & GCM-mud.

TD 13044

Perf 11410-428'
1P CAOF 1,090 M/cfd plus 30 BC,
Gr. 55° GOR 145,953/1
Compl. 12-29-68

DST 12827-930'
Op. 2hrs 24mins
GTS = 5'
WTS = 40'
FARO = 400 M/cfd no 32 BC
Rec. 2480' gas, 180' mud
60" ISIP 7015 #

DST 12553-13090'
Op.2hrs.
Rec. 2700' mud
60" ISIP 6885 #

Perf 12856-13082' O/A
P/ 7230 psig
F/ 8050 psig brine
AV 4000 psig
IPF 154 M/cfpd & 178 BC,
Gr. 54°, GOR 75275/1
Compl. 12-27-68

5½" Liner at 13045'

TD 13043'

Perf 11378-611' O/A
IPF 1,073 M/cfpd
24/64" ck, TP 3350
Compl. 2-25-66

1 11830-850' - Rec 50'
sd w/sh shs -115
1 11850-900' - Rec 50'
shy sd 8 sh
1 11500-525' - rec 25'
sd & sh -115
2 7/8" Csg-ng at 11900'

TD 12000

13807

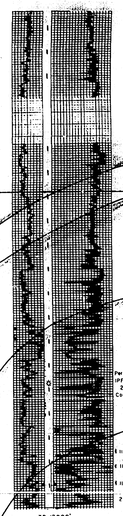
13880

U.S.N.C.F. MICROGRAPHICS

C'

NE

**TEXACO**
*I-STATE OF N.M. "DB"*



Perf 11378-60' Q/A
IPF 1,075 Mcfpd
24/64" ch, TP 350
Compl 2-25-66

11800-850' - Rec 50'
sd w/sh stks - NS
11850-900' - Rec 50'
shy sd & sh
11900-919' - Rec 25'
sd & sh - NS
2 7/8" Casing at 11900

TD 12000'

**HAMON**
*I-UNION-STATE*

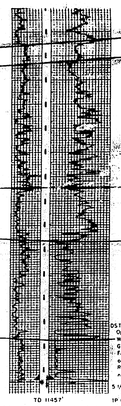
DST 11220-385'
Op. Inc. 12 min.
WBTS 12 min.
GTS/WB B. gas/min.
Rec. 60' cond. Gr 50.5°,
1260' GCWB & 850' GCM.
60' ISIP 6805 #

Perf. 11244-420' Q/A
IP CAOF 13820 Mcfpd,
GLR 68,340/1, Gr 50.5°
Compl 8-11-66

5 1/2" Casing at 11470'

TD 11470

**HAMON**
*I-STATE E-8913*



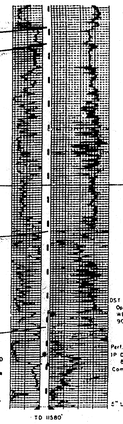
DST 11440-457'
Op 6 1/2 hrs.
WGTS in 4 min.
GTS in 8 1/2 min.
FAIO 8,500 Mcfpd
on 24/64" ch, FP 3000
Rec. 180' cond., Gr. 55°
no wtr. 60' ISIP 6653 #

5 1/2 Casing at 11440'
Drlg 11440-457'

IP CAOF 39,000 Mcfpd,
GLR-NM
Compl 5-20-65

TD 11457'

**HAMON**
*I-AMERADA-FED.*



DST 11165-397'
Op. 3hrs
HBTS in 3mn
90' ISIP 6913 #

Perf. 11356-388'
IP CAOF 23,823 Mcfpd
& 97 BC/A Grv. Gr 50.6°
Compl 8-25-66

5" Liner at 11378'

TD 11580'

BASE/MASSIVE BONE SPRING

T/WOLFCAMP

-7000'

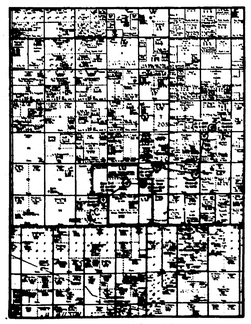
T/ATOKA

T/MORROW

T/MISSISSIPPIAN LIMESTONE

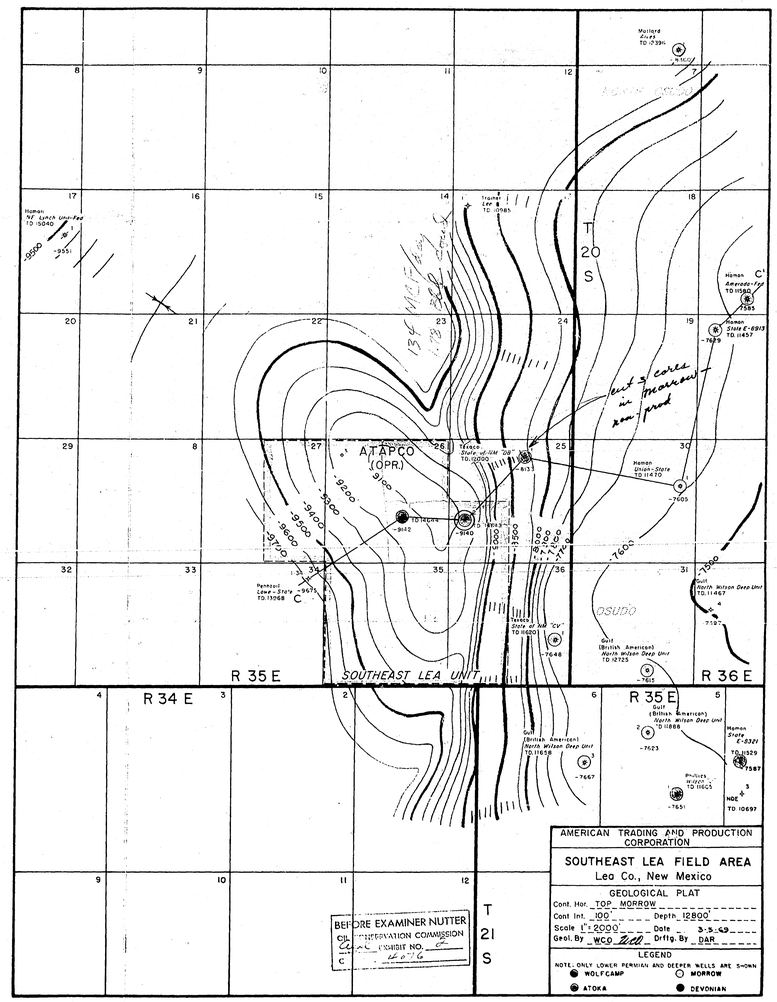
T/WOODFORD

T/DEVONIAN



INDEX PLAT
Scale-1" = 8000'

| AMERICAN TRADING AND PRODUCTION CORPORATION |
|---|
| **SE LEA UNIT AREA** |
| Lea Co., New Mexico |
| CROSS SECTION |
| Line of Section C-C' (SOUTHWEST-NORTHEAST) |
| Hor Scale 1" = 500' Datum -7000' |
| Vert Scale 1" = 200' Date 3-5-69 |
| Engineer By R. C. Coleman |
| LEGEND |


R 35 E
R 36 E
R 34 E
R 35 E
T 20 S
T 21 S
SOUTHEAST LEA UNIT
ATAPCO (OPR)
OSUDO
Mallard Oil #1 TD 12396
Humble "N" Lynch Unit-Fed TD 15040
Texaco State of NM "DM" TD 10000
Texaco State of NM "CV" TD 10800
Hanson Lovon-State TD 11470
Hanson State E-8913 TD 11457
Hanson C¹ Amerada-Fed TD 11580
Reynard Lowe-Story TD 11068
Gulf (British American) North Wilson Deep Unit TD 10725
Gulf North Wilson Deep Unit TD 11467
Gulf (British American) North Wilson Deep Unit TD 11888
Gulf (British American) North Wilson Deep Unit TD 11658
Hanson State E-8321 TD 11329
Phillips Wilson TD 11625
NDE TD 10697
-9100
-9200
-9300
-9400
-9500
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