

# 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
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RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

May 22, 1996

State of New Mexico OIL CONSERVATION DIVISION P. O. Box 1980 Hobbs, NM 88240

ATTN: Mr. Jerry Sexton

Dear Mr. Sexton,

Enclosed are the necessary documents for obtaining approval for the downhole commingling of the Bone Spring and the Delaware for the Hunt APO State #1 located in Unit L of Section 4, Township 21 South, Range 34 East.

Should you have any questions, please feel free to contact me at (505) 748-1471. Thank you.

Sincerely,

Morris Keith Engineer

MK/th



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May 22, 1996

State of New Mexico
OIL CONSERVATION DIVISION
2040 S. Pacheco Street
Santa Fe, NM 87505-5472

ATTN: Mr. David Catanach

Dear Mr. Catanach,

Enclosed are the necessary documents for obtaining approval for the downhole commingling of the Bone Spring and the Delaware for the Hunt APO State #1 located in Unit L of Section 4, Township 21 South, Range 34 East.

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May 22, 1996

Commissioner of Public Lands Oil/Gas and Minerals Division P. O. Box 1148 Santa Fe, NM 87504-1148

ATTN: Mr. Pete Martinez

Dear Mr. Martinez,

Enclosed are the necessary documents and the \$30.00 filing fee for obtaining approval for the downhole commingling of the Hunt APO State #1 located in Unit L of Section 4, Township 21 South, Range 27 East. This copy of the application to commingle fulfills our requirement to notify offset operators per NMOCD Rule 303 D (10).

Should you have any questions, please feel free to contact me at (505) 748-1471. Thank you.

Sincerely,

Morris Keith Engineer

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TREASURER

May 22, 1996

Crescent Porter Hale 220 Bush Street Suite 1069 San Francisco, CA 94104

Gentlemen:

Enclosed please find a copy of the application for commingling the Hunt APO State #1 located in L of Section 4-T21S-R34E. This copy of the application to commingle fulfills our requirement to notify offset operators per NMOCD Rule 303 D (10).

Should you have anyu questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Morris Keith Engineer

MK/th



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TREASURER

May 22, 1996

Meridian Oil Inc. P. O. Box 51810 Midland, TX 79710

#### Gentlemen:

Enclosed please find a copy of the application for commingling the Hunt APO State #1 located in L of Section 4-T21S-R34E. This copy of the application to commingle fulfills our requirement to notify offset operators per NMOCD Rule 303 D (10).

Should you have anyu questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Morris Keith Engineer

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TREASURER

May 22, 1996

Arco Oil & Gas Company P. O. Box 1610 Midland, TX 79702

#### Gentlemen:

Enclosed please find a copy of the application for commingling the Hunt APO State #1 located in L of Section 4-T21S-R34E. This copy of the application to commingle fulfills our requirement to notify offset operators per NMOCD Rule 303 D (10).

Should you have anyu questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Morris Keith Engineer

MK/th

### COMMINGLING DATA FOR THE HUNT APO STATE #1

1>

2>

ATTN: Morris Keith

Lease Name, Well Number, Well Location, Name of the Pools to be commingled:

Hunt APO State #1

Unit L Sec. 4-T21S-R34E

2310'FSL & 660'FWL

Pools: Delaware River Bone Spring

A plat of the area showing the acreage dedicated to the well and the ownership cases.

See Attachment A (---3>

A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount 4> of oil, gas, and water produced from each zone.

**Bone Spring** 

8849'-9657'

See attached monthly production history summary (Attachment B).

Typical production is 6-7 BOPD/20-40 MCFGPD.

Delaware

8329'-8554'

See attached workover summary (Attachment C).

Typical production is 10-15 BOPD/20-50 MCFGPD.

5> A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. However, a complete description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be submitted.)

See Attachment C (workover history)

See Attachment B (Bone Spring monthly production history)

Prognostication of Bone Spring reserves derived by assuming an exponential decline rate of 50%/yr. (best engineering estimate).

 $Q_i = 15 BOPD, 50 MCFPD$  $Q_{cl} = 5 BOPD, 5 MCFPD$ d = 50%/yr.

$$N_{\text{oil}} = 365 \text{ (Qel-Qi)} = 365 \text{ (5-15)} = 5266$$
  
 $\ln \text{ (1-d)} \qquad \ln \text{ (.5)}$ 

$$N_{gas} = \frac{365 (5-30)}{ln (.5)} = 13,165$$

Prognostication of Delaware reserves derived by assuming an exponential decline rate of 70%/yr. for 1 year followed by a 15%/yr. decline (best engineering estimate). An initial production rate of 8 BOPD is derived from swab and pump tests shown in the workover history.

$$Q_i = 15 \text{ BOPD}$$
  
Q, 1 yr. = 5 BOPD Q, E. L. = 3 BOPD  
d = 70%/yr. first year followed by 15%/yr.

$$N = \frac{365 (5-15)}{\ln (.3)} + \frac{365 (3-5)}{\ln (.85)} = 7523$$

Gas was TSTM during testing. Gas reserve = 0.

6> Estimated bottom-hole pressure for each artificially lifted zone. A current (within 30 days) measured bottom-hole pressure for each zone capable of flowing.

Estimated BHP of Bone Spring = 2250 psi at 9500'.

Estimated BHP of Delaware = 2013 psi at 8500' from pressure gradient of Bone Spring.

$$(2250 \text{ psi}) (8500 \text{ ft.}) = 2013 \text{ psi}$$
  
(9500 ft.)

7> A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.

Both zones produce sweet oil and gas. There are no incompatibility problems.

8> A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

Both zones produce sweet oil and gas. The value of the commingled production will not be less than the sum of the values of the individual streams.

By commingling the Bone Spring with the Delaware, an estimated additional 1950 BBLS of oil and 11,000 MCF of gas reserves will be produced during the life of the well.

9> A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.

Oil: Bone Spring - 
$$\frac{1950 \text{ BO}}{4875 \text{ BO}} = 0.4, 40\%$$

Delaware - 
$$\frac{2925 \text{ BO}}{4875 \text{ BO}} = 0.6, 60\%$$

Gas: Bone Spring - 60%

Delaware - 40%

A statement that all offset operators and in the case of a well on federal land, the US BLM, have been notified in writing of the proposed commingling.

The Offset Operators for this area were notified of the proposed commingling of the Hunt APO State #1.

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### YATES PETROLEUM CORPORATION CHRONOLOGICAL DRILLING REPORT Hunt "APO" State #1 Unit L 4-21S-34E Lea County, New Mexico

### RE-ENTRY

This well was originally drilled as the Hunt Oil Co, State 4 #1, in the Morrow formation. YPC proposes to re-enter and clean out cement plugs to approx TD 10,900', squeeze off Delaware perfs 5805-5929' and test selected Bone Spring sand intervals to establish commercial oil production.

	intervals to establish commercial oil production.
9-25-95	Moving in service unit to re-enter and complete well in Bone Spring and Delaware.
9-26-95	Cleaned location. Set and test anchors. Dug working pit. Dut out wellhead and cut off dry hole marker. Weld starting head on 9-5/8" casing and install cellar. Moved in and rigged up pulling unit and reverse unit. Installed BOP. TIH with 8-1/2" bit and drill collars. Tag 1st plug at 15'. Drilled out of 1st plug at 50'. Tag 2nd plug at 1108'. Drilled out of 2nd plug at 1210'. Dropped down and tag 3rd plug at 1800'. Circulated casing clean. Drilled out of 3rd plug at 1926'. Tagged 4th plug at 2040'. Drilled out of 4th plug at 2156'. Tagged 5th plug at 3736'. Circulated casing clean. At report time: 6 AM 9-26-95, drilling cement at 3940'. Continued drilling. DC \$10,805
9-27-95	Continued drilling. DC \$10,005  Continued drilling cement to 7" casing stub at 4000'. Cellar and portion of location under pulling unit caved in.  Circulated casing clean then rig down pulling unit to repair cellar and location. Rig up pulling unit and TOH with 2-7/8" tubing, drill collars and 8-1/2" bit. TIH with 6-1/8" bit, drill collars and 2-7/8" tubing. Drilled into 7" casing stub at 4000' and continued drilling cement plug. At 4034' to 4038', drilled up pieces of metal junk in cement. Drilled out of cement at 4056'. Dropped down and tag cement at 5694'. Circ mud out of hole and tested casing to 2000 psi for 6 mins. At 6 AM 9-27-95 - started drilling cement at 5694'. DC \$6113; CC \$16,918
9-28-95	Continued drilling cement. Tag CIBP at 5739'. Drilled out of CIBP at 5746'. Dropped down and tag cement at 5865'. Drilled out cement to cement retainer at 5869'. Drilled out cement retainer and cement to 5888'. NOTE: Drilling small pieces of retainer that we are pushing ahead of us. TOH for bit trip. TIH with new bit and resumed drilling cement and junk metal at 5888'. Dropped out of cement at 5891'. Dropped down and tag cement retainer at 5962'. At 6 AM 9-28-95, drilling retainer at 5962'. DC \$8413; CC \$25,331
9-29-95	Continued drilling retainer at 5962'. Dropped out of cement at 5977'. TIH and tag cement at 9410'. Circ casing clean. Drilled out cement and CIBP from 9410' to 9421'. TIH to 10,194' and circulated casing clean. Tested casing to 1000 psi. Bled off to 800 psi in 1 minute. Tested 3 times with same result. At 6 AM 9-29-95, TOH with 2-7/8" tubing, drill collars and bit. Prep to make bit and scraper runs in 9-5/8" casing and 7" casing and displace casing with 2% KCL water.
9-30/10-2-95	DC \$6763; CC \$32,094  TIH with 8-1/2" bit, scraper and 2-7/8" tubing to 4000'. TOH with 2-7/8" tubing, scraper and bit. TIH with 6-1/8" bit, scraper and 2-7/8" tubing to 10,128'. Displace casing with 550 bbls 2% KCL water. TOH with 2-7/8" tubing, scraper and bit. Shut down. Prep to TIH with RBP, packer and test old
10-3-95	Delaware perfs at 5800'. DC \$5568; CC \$37,662 TIH with RBP, packer and 2-7/8" tubing. Set RBP at 9471' and tested to 2500 psi. Pulled up and set packer at 5989'. Tested casing from 5989-9471' to 2500 psi. Pulled up and set

Page 2

Yates Petroleum - Hunt "APO" State #1 (Unit L) 4-21S-34E Lea Co., NM

packer at 5710'. Tested annulus to 2000 psi. Started swabbing as follows:

TIN	ΜE	${ t FL}$	# SR	BW
2	PM	sn	3	15
3	PM	SN	3	12
4	PM	sn	2	1
5	PM	SN	2	1
6	PM	sn	2	1
7	PM	sn	2	1/2
8	PM	sn	2	0
9	PM		<del>-</del> -	
10	PM	sn	2	1
11	PM			
12	AM	sn	2	1
1	AΜ			
2	AΜ	sn	2	1
3	AΜ		· ;	
4	AΜ	sn	2	1
5	AΜ		:	
6	AΜ	sn	2	1
	_			- / - 1

Total recovered 35-1/2 bbls water. Prep to pressure test perfs for possible squeeze cut. DC \$6590; CC \$44,252 Loaded tubing with 2% KCL water and pressure up to 1000 psi. Pressure bled down to 300 psi in 10 mins. Repeat pressure test with same results. Unset packer. TOH with 2-7/8" tubing and packer. TIH with logging tools. Correlate tools into place and ran CBL/CCL/GR log from 9450' to 5000'. TOH with logging tools. Shut dwon. Prep to perforate and acidize Bone Spring. DC \$3825

WATER ANALYSIS: 10-3-95

2 AM 6 **AM** 1.120 @ 68 1.130 @ 68 Spec Gravity Resistivity .055 @ 75 .045 @ 75 6.01 рН 6.3 630 630 Iron Calcium 4576 7228 3515 2279 Magnesium 99,977 106,171 Chloride Sod & Pot 53,360 56,547 Sulfate 232 199 25,908 Tot Hardness 27,450 861 583 Bicarbonate 164,463 174,651 Sod Chloride

Tot Diss Sol 180,339 190,950

TIH with 4" casing guns. Perforated Bone Spring SPF with 20 - .42" holes from 8849-58'. TIH with packer and 2-7/8" tubing. Spot 2 bbls 7-1/2% NEFE acid at 8877'. Pulled up and set packer at 8783'. Acidized perfs 8849-58' with 1000 gals 7-1/2% NEFE acid + 10 balls. Break down 3240#. Avg 5 BPM at 3700#. ISDP 2700#, 15 mins 2268#. TLTR 85 bbls. Bled well down and rig up swab. Swabbed as follows:

FL# SR TIME 4 PM 25001 4 23 5 PM 4500' 3 16 6 PM י 5500 2 6 7 PM sn2 4 8 PM sn2 SN 9 PM 2 3 10 PM 2 SN10% 1 11 PM sn2 20% 1/2 12 AM SN 1 40% 1/2 1 AM 2 SN0 0 2 AM 40% sn1 1/2 3 AM SN1 40% 1/2 4 AM SN1 50% 1/2 5 AM SN 808 1 1 1/2 6 AM SN 80%

Total recovered 59 bbls water and 2 bbls oil. Load left 26 bbls water. Continued swabbing. DC \$9816

10-4-95

10-5-95

Page 3
Yates Petroleum - Hunt "APO" State #1 (Unit L) 4-21S-34E Lea Co., NM

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Unset packer. TOH with 2-7/8" tubing and packer. Changed
10-6-95
                  out BOP's, slips and elevators. TIH with 10K Uni VI packer and 3-1/2" N-80 tubing. Set packer at 8765'. Loaded annulus
                  and tested packer to 1000 psi. Shut down. Prep to frac Bone
                  Spring. DC $5123
10-7-95
                  Rigged up to frac Bone Spring with Halliburton.
                                                                                 Began frac.
                  Pumping pressure higher than anticipated. Flushed and shut
                  down.
                  Re-perforated zone. Acidized perfs.
                                                                  Frac'd Bone Spring with
10-8-95
                  169,000 gals XL gel with 175000# 20/40 and 38000# Resin
                  coated sand. Avg 35 BPM at 79 00#. ISIP 7100#, 15 mins 5932#. TLTR 4183 bbls. Shut in overnight. POH and laid down 3-1/2. Prep to TIH to release bridge
10-9-95
                  plugs.
                  TIH with 2-7/8" tubing. Tag sand at 9043'. Reverse 130' of
10-10-95
                  sand out of hole to RBP at 9173'. TOH with 2-7/8" tubing.
                  Turn well over to production to put well on pump.
                  pumping by 9 AM Tuesday. DC $4541
                  Pumped 25 bbls oil, 487 bbls water and 40 MCF.
10-11-95
                  Pumped 51 bbls oil, 414 bbls water and 86 MCF.
10-12-95
                  Pumped 62 bbls oil, 222 bbls water and 51 MCF. Pumped 28 bbls oil, 70 bbls water and 25 MCF. Pumped 43 bbls oil, 183 bbls water and 38 MCF.
10-13-95
10-14-95
10-15-95
                  Pumped 57 bbls oil, 117 bbls water and 35 MCF.
10-16-95
10-17-95
                  Pumping.
10-19-95
                  Moved in service unit to pull bridge plug and measure
                  pressure on lower Bone Springs zone.
                  Moved in and rigged up pulling unit.
                                                                  TOH with rods and pump.
10-20-95
                  Nippled down wellhead and installed BOP. Unset anchor and
                  TOH with production string. Shut down. Prep to TIH to
                  retrieve RBPs. DC $3269
TIH with overshot, jars, drill collars and 2-7/8" tubing. Circulated on top of RBP at 9173'. Latched onto RBP at
10-21-23-95
                  9173'. Try to unset RBP, but could not get any movement thru mandrel. Jar on RBP for 1 hour. Sheared off of retreiving
                  head. RBP feels like it may have something metal down beside mandrel. TOH with 2-7/8" tubing, drill collars, jars and overshot. Prep to TIH with short catch overshot. DC $6085;
                  CC $9354
10-24-95
                  No report.
10-25-95
                  No report.
10-26-95
                  No report.
                  Pulling BHP bomb.
10-27-95
10-28-30-95
                  Pulled 72 hour bomb at 2:00 PM. Results to follow. Waiting
                  on orders. DC $1236
10-31-95
                  Rigged up BJ. Acidized perfs 9556-9657' with 2500 gals
                  7-1/2% NEFE acid and 100 balls. Avg 4-1/2 BPM @ 4500 psi. Good ball action. ISDP 2000 psi 15 mins 1000 psi. Total
                  load to recover 123 bbls. Bled well down and rigged up swab.
                  Swabbed as follows:
                  TIME
                             {	t FL}
                                       #SR
                                                 WATER
                  2 PM
                             4500'
                                        4
                                                   25
                  3 PM
                             6500'
                                        3
                                                   16
                  4 PM
                             75001
                                        2
                                                    5
                                                        part sand line, repair
                  5 PM
                  6 PM
                             60001
                  7 PM
                             10008
                  8 PM
                                                   16
                  9 PM
                             8500'
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                                                       part sand line, repair
                  10 PM
                             - -
                  11 PM
                             - -
                  12 AM
                             8500'
                  1 AM
                             SN
                                        2
                  2 AM
                             SN
                                        2
                                                    2
                  3 AM
                             SN
                                        1
                                                     2
                  4 AM
                             sn
                                        1
                                                     1
                  5 AM
                             SN
                                        1
                                                     1
                  6 AM
                             SN
                                        1
                                                     1
                                                        no show
```

Total recovered 80 bbls water. Load left 43 bbls. Prep to

move uphole. DC \$9064

10 PM

11 PM

12 AM

SN

\_\_\_

SN

2

2

0

1/2

Dry

```
Page 4
· Yates Petroleum - Hunt "APO" State #1 (Unit L) 4-21S-34E Lea Co., NM
 ************************
                Unset packer. TOH with 2-7/8" tubing and packer. Prep to
 11-1-95
                perforate and acidize Bone Springs 2.
                                                          DC $2197
                WATER ANALYSIS: 4:00 AM 10-31-95
                Sp. Gravity
                              1.075 @ 70 Resistivity
                                                           0.075 @ 75
                рН
                               1.54
                                            Iron
                                                           3000
                Sulfate
                               39
                                            Calcium
                                                           8008
                               76,790
                Tot Hardness
                                            Magnesium
                                                           13,789
                Bicarbonate
                               ND
                                            Chloride
                                                           186,005
                               305,978
                                            Sod & Pot
                                                           85,363
                CALC
                                            Iodine
                Tot Diss Sol
                               348,197
                                                           absent
                Pot Chl
                               absent
                Rigged up wireline. TIH with 4" casing guns. Correlated
 11-2-95
                guns into place and perforated Bone Springs (1 SPF) with 20 -
                .42" holes as follows: 9100', 20', 33', 46', 48', 52', 70', 75', 80', 84', 88', 91', 9372', 78', 80', 88', 94', 96',
               79401', 06'. TOH with casing guns and rigged down wireline.
TIH with RBP, packer and 2-7/8" tubing. Set RBP at 9450' and
                tested to 4000 psi. Pulled up and set packer at 9263'.
                Acidized perfs 9372-9406' with 2000 gals 7-1/2% NEFE acid and
                10 balls. Breakdown 3400 psi. Avg 5 BPM @ 3000 psi. Balled
                out. ISDP 1700 psi, 15 mins 1250 psi. Total load to recover 121 bbls. Rigged up swab. Swabbed as follows:
                                     BBLS
                         {
m FL}
                TIME.
                          surface
                                                 700 SI
                6:00
                          5500'
                7:00
                                     24
                          6800'
                8:00
                                     10
                          10008
                9:00
                                     1.0
                10:00
                          0000
                          9000'
                11:00
                                      2
                12:00
                          9000'
                                      2
                1:00
                          9100'
                                      1
                2:00
                          9100'
                                      1
                          9100'
                3:00
                                      1
                                      1 - tr of gas on swb
                4:00
                          9100'
                                      1 - blk water
1 - no oil show
                          9100'
                5:00
                          9100'
                Load left 50%. Plan to swab today. DC $10,009
                First pull at 7 AM - very slight trace oil. Plan to swab
 11-3-95
                today. Load left to recover 59 bbls.
                Prep to move to next zone - BS/4.
 11-4-6-95
                WATER ANALYSIS:
                                   10-3-95
                                   1.023 @ 72
                                                              .095 @ 75
                Spec Gravity
                                               Resistivity
                Hq
                                   7.02
                                                Iron
                                                              350
                Calcium
                                               Sulfate
                                   252
                                                              1886
                Magnesium
                                   305
                                               Bicarbonate
                                                              877
                Chloride
                                   21,501
                                                Sod Chloride 35,368
                                   22,750
                                               Tot Diss Sol 47,015
                Sod & Pot
                Pot Chloride
                                   1.9% by titratio
                SITP 250#. Bled well down. Rig up swab. Initial fluid
 11-7-95
                level at seating nipple. Scattered to seating nipple.
                                                                            Rec 0
                bbls water. Rig down swab. Had bad tubing with 2% KCL
                water. Unset tools. Pulled up and straddle perfs 9100-91'.
                       Tested RBP to 3100#. Acidized perfs 9100-91' with
                2500 gals 7-1/2% NEFE acid and 18 balls. Breakdown 4200 psi.
                Avg 5 BPM at 3400#. Balled out. ISDP 1850#, 15 mins 1730#.
                                 Bled well down and rig up swab.
                TLTR 119 bbls.
                                                                     Swabbed as
                follows:
                                 #SR
                TIME
                          FL
                                        BW
                  1 PM
                       4000'
                                        20
                                  4
                  2 PM
                        5500'
                                        10
                 3 PM
                        6500'
                                        10
                  4 PM
                        7500'
                                         6
                  5 PM
                        8500'
                                         4
                  6
                   PM
                        9000'
                                         2
                  7
                    PM
                        SN
                                         1
                 8 PM
                       SN
                                  2
                                         1
                 9 PM
                        SN
```

11-9-95

11-10-95

Yates Petroleum - Hunt "APO" State #1 (Unit L) 4-21S-34E Lea Co., NM \*

```
1 AM SN
             2
                    0
                        Dry
2 AM
3 AM
     SN
             2
                   1/2
4 AM
     - -
    sn
             2
5 AM
                    0
```

Total recovered 56 bbls water. Load Continued swabbing today. DC \$7854 Load left 63 bbls water.

Continued swabbing as follows: 11-8-95

```
FL # SR BO BW
TIME
7 AM
       SN
              2
                   - -
                         1/2
                    - -
9 AM
       SN
              2
                         1
                   - -
11 AM
        SN
              2
                         1
                   Trace 1
1 PM
       sn
              2
       sn
              2
3 PM
                  Trace 1
```

Total recovered 60-1/2 bbls water. Load left 58-1/2 bbls water. Shut down. Rig waiting on orders. Prep to perforate Delaware on Wednesday. DC \$1670

Unset packer and RBP and set RBP at 8654' and tested to 3000 psi. TOH with 2-7/8" tubing and packer. TIH with 4" casing gun. Perforated Delaware 1 & 2, 1 SPF with 20 - .42" holes as follows: 8536', 37', 38', 39', 42', 44', 46', 50', 52', 54', 8329', 30', 31', 46', 48', 49', 52', 54', 56', 58'. TOH with casing guns. TIH with packer and 2-7/8" tubing. Set packer at 8486' and acidized D-1 with 1000 gals 7-1/2% NEFE acid and 15 balls. Breakdown 3200 psi, 15 mins 2070 psi. TLTR 85 bbls. Bled well down and rigged up swab. Swabbed as

follows:

TI	1E	${ t FL}$	#	SR	BW
4	PM	4000'			20
5	PM	5500'			10
6	PM	6500'			8
7	PM	7500'			6
8	PM	SN			2
9	PM	Dry		2	0
10	PM				
11	PM	SN		2	1
12	MA				
1	ΑM	$\mathtt{SN}$		2	1/2
2	MΑ				
3	MΑ	SN		2	1/2
4	MΑ				
5	MA	SN		2	1/2
6	MA				

Total recovered 48-1/2 bbls water. Load left 36-1/2 bbls water. Continued swabbing. Prep to move to Delaware zone #2. DC \$7387

Unset tools. Pulled up and straddled D-2 perfs 8329-58'. Tested RBP to 3100#. Acidized D-2 perfs with 1000 gals 7-1/2% NEFE acid + 15 balls. Breakdown 2968 psi. Avg 5.2 BPM at 4300#. Balled out. ISDP 1898#, 15 mins 1840#. TLTR 76 bbls. Bled well down and rigged up swab. Swabbed as follows:

```
TIME
          FL
                 # SR
                          BO
                                BW
        3000'
 1 PM
                  4
                          - -
                                20
 2 PM
        5800'
                   3
                          - -
                                18
 3 PM
        7800'
                   2
                          - -
                                14
                   2
 4 PM
       sn
                          _ _
                                 8
 5 PM
       sn
                  2
                          - -
                                 3
 6 PM
       sn
                  2
                          - -
                                1/2
 7
   PM
       SN
                  1
                          -- -
                                1/2
 8
   PM
        SN
                          - -
                  1
                                1/2
                  - -
 9 PM
        - ~
                          - -
                  1
10 PM
       sn
                          - -
                                1/2
11 PM
        - -
                 - -
                          - -
12 AM
       SN
                  1.
                          - -
                                1/2
                 - -
 1 AM
        - -
                          - -
                 1
                                1/2
 2 AM
       sn
                         - -
 3 AM
                         _ _
        - -
                 - -
                          20%
                                1/2
 4 AM
        SN
                  1
 5
   AΜ
        -- --
                          - -
```

Page 6

```
20%
                  6 AM SN
                                                  1/2
                 Total recovered 67 bbls water.
                                                         Load left 9 bbls water.
                 Continued swabbing. DC $6046
                 Continued swabbing till 5:00 PM. Swabbed as follows:
11-11-95
                 TIME
                            {
m FL}
                                    # SR
                                            BO
                                                   BW
                  6 AM
                            SN
                                             20%
                                                   1/2
                  8 AM
                                             50%
                                                   1/2
                            SN
                                     2
                 10 AM
                            SN
                                     2
                                             50% 1/2
                 12 PM
                            SN
                                             42 g 9 g
                                     2
                                     2
                  2 PM
                            SN
                                                          Dry
                  3 PM
                                     2
                            SN
                                                          Dry
                            SN
                                     2
                                             34 g 0 g
                 Total recovered for well 68.1 BW and 2.4 BO. Shut well in.
                 Prep to swab. Load left 7.9 BW. DC $1904
                 SITP 50#. Swabbed as follows:
11-12-13-95
                                    # SR
                                                    BW
                 TIME
                            FL
                                            BO
                                     2
                                             59 g
                  7 AM
                            SN
                                                    0
                                                          SITP 50#
                  9 AM
                            SN
                                     2
                                             33 g
                                                    10 g
                                             18 g
                                                    4 g
                 11 AM
                            SN
                                     2
                  1 PM
                            SN
                                     2
                                                           Dry
                                                    _ _
                  2 PM
                            SN
                                     2
                                                          Dry
                 Total recovered for day 14 gals water and 110 gals oil.
                 Total recovered for well 68.4 BW and 5 BO. Load left 7.6 BW. Shut in. Prep to swab. Plan to frac. DC $2128 This AM - 7:00 - SITP 150#. Initial FL 7500'. Recovered 3
                 BO and 2 BW. Swab dry.
                 Prep to frac D-2 today.
                                                DC $1599
11-14-95
                 TIH with RBP, packer and 3-1/2" tubing. Set RBP at 8486' and
11-15-95
                 tested to 3600#. Pulled up and set packer at 6266'. Frac'd D-2 perfs 8329-58' with 32,000 gals 35# crosslink gel and
                 100,000# 20/40 Ottowa sand. Avg 30 BPM at 5800#. Min 5600#,
                 Max 7300#. ISDP 3300#. TLTR 895 bbls. Force close well and
                 shut well in for 7 hours. Opened well at 8 PM with 2750 psi
                 and started bleeding well down to pit. At 6 AM 11-15-95,
                 well flowing back frac fluid at 120# on 1/2" choke.
                 Continued flowing well down. DC $28,089 Plan to clean up
                 and move to D-3.
                                      Unset packer. Reverse hole with 2% KCL
11-16-95
                 Bled well down.
                 water. TOH with tubing and packer. TIH with retrieving head and tubing. Reverse sand off of RBP. Unset RBP. Pulled up
                 and reset RBP at 8141'. Tested RBP to 3400 psi. Prep to
                 perforate and acidize D-3.
                 TIH with 4" casing guns. Correlated guns into place and perforated D-3 with 2 SPF, 20 - .42" holes as follows: 7916', 17', 18', 32', 33', 34', 38', 39', 43', 44'. TIH with packer and tubing. Set packer at 7819'. Acidized perfs
11-17-95
                  7916-44' with 1000 gals 7-1/2% NEFE acid + 20 balls.
                 Breakdown 3240 psi. Avg 5-1/2 BPM at 3200 psi. ISDP 1500#, 15 mins 1400#. TLTR 77 bbls. Bled well down and rigged up
                          Swabbed as follows:
                 swab.
                 TIME
                             FL
                                     # SR
                                                    BW
                                            BO
                   2 PM
                          3500'
                                       4
                                                     24
                          50001
                   3 PM
                                       3
                                                     16
                   4 PM
                          6500'
                                       2
                                                     12
                   5 PM
                                       2
                          SN
                                                      8
                   6 PM
                          SN
                                       2
                                                      2
                   7
                     PM
                          SN
                                       2
                   8 PM
                                      2
                          SN
                                                      2
                   9
                     PM
                          SN
                                       2
                                                     1-1/2
                 10 PM
                                      2
                          SN
                                               1왕
                                                     1 - 1/2
                  11 PM
                                      - -
                          SN
                                     - -
                                                      2
                  12 AM
                                              30%
                   1. AM
                                     - -
                           - -
                                               - -
                   2 AM
                          SN
                                      2
                                              30%
                                                     1-1/2
                   3 AM
                          ---
                                               _ _
                          SN
                                      2
                                              30%
                   4 AM
                                                      2
                   5 AM
                          _ _
                                                      _ _
                   6 AM
                          SN
                                       2
                                              30%
                                                      2
                 Frac'd D-3 perfs 7916-7944' with 21,000 gals 35# x-link gel
11-18-95
```

and 67,000# 20/40 Ottawa sand. Avg 21 BPM @ 3800 psi. ISDP

11-19-20-95	1540 psi. Total load to recover 598 bbls. Force closed well for 30 mins. Shut well in for 7 hours. Opened well at 10:00 PM on 1/8" choke and started flowing well down to pit. At 6:00 AM 11-17-95 well flowing at 80 psi on 1/2" choke. Continued flowing well. DC \$26,013 Continued flowing well. Unset packer. TOH with 2-7/8" tubing and packer. TIH with 2-7/8" tubing. Reverse 121' of sand off of RBP at 8116'. Unset RBP. Dropped down and reset RBP at 8701' (above Bone Springs) and tested to 1000 psi. TOH with 2-7/8" tubing. Turned well to production to hang well on pump. Well pumping Sunday afternoon. DC \$4173
11-21-95	Pumped 20 bbls oil and 400 bbls water.
11-22-95	Pumped 22 bbls oil, 403 bbls water and 0 MCF.
11-23-95	Pumped 33 bbls oil, 456 bbls water and 57 MCF.
11-24-95	Pumped 67 bbls oil, 395 bbls water and 69 MCF.
11-25-95	No report.
11-26-95	Pumped 70 bbls oil, 285 bbls water and 65 MCF.
11-27-95	Pumped 70 bbls oil, 285 bbls water and 65 MCF.
11-28-95	Pumped 79 bbls oil, 276 bbls water and 66 MCF.
11-30-95	TD 14,315'; PBTD 8701'. On a 24 hour Official Potential test
	taken 11-28-95, well pumped 79 BOPD, 50 MCFGPD and 276 BLW at
	a GOR of 633:1, thru perfs 7916-8554' Delaware. Well is
	Droducing EINAI DEDOM

Producing. FINAL REPORT.

		APO SI#1 64, 660 FWL UNIT L SO	FIELD AREA: N GRAMA RIDGE	
			1 1213 13/6	
		' AGL: '	CASING PROGRAM:	
	ORIG. DREG.	/COMPL. DATE:		COTIL CET
COMMENTS: _			51/E/WT./GR./CONN. D 13/8"54.57 K-55 S76	EPTH SET
			95/8 36,40, 43.5"	5737
		1	7" 23#	
n) (	1 1 1	1 (	2.3	11,450
7%?		<b>\ \</b>	5" 18,70" LINER 11154-14315	
} }		<b>\</b>	276"11	
		133/8"01113	27/8"162.	
<i>/</i> — {	1 1 1	700 HIC 1200C		
12/4" }	1 1 1	DV63824		
}	]	TOC 4400' CBL	11C4250 SX MOLITIC 9/81 BS 9556-9	38(23)
(matt	7	95/8 6 5737 157270 H 95/8 6 5737 200 1740 A	7603-0	7(3)
71.1	₹ } }		9612-26	
7 cut .	<b>}</b>	5901-5977(7) SQUEETED	ACID- 3500 7 /5	52 HCL
C 4000	3   1	> 5762-64 SQUEETLD	9650-57(	75)
	<b>\$ 1</b>	TOC 6055'CBL	AC10 - 1000 g 1	
	5 1 1			
	1	(	4/90: DELAWARE	
81/2"	}		5901,05,10,13,17,27 5805,07,09,11,5813,	AC10-2500gd
012	}	}	9/95 BS- 8849-58 Ac10	10 07/63
	1	Delaware		-/800 gar //26
	<b>)</b>	7916-44(20) SQUEEZE	257,000 # 20/40	4 4 77
	1 1	17916-44(20)	9100-9406 4500	a got ACIO/A
	1	8329-8358(14)	1220 - 1021 7200	ACID IN
	<b>}</b>	(8321-8536)	DELAWARE -	1 -48 401
	{	(8536-8558(14) Barre	Spring 8536-8558 1000 14	( //2 & FRE
		Street, and the street, and th	8329-8358 /000 p	( /12 h d 20/40 SA-10
		8849-58 (20)	7916-44 10008-6747	67 m # 20/4
	1	9100-9406 (50)	7916-44 1000 \$ 1 10	6 // 000
	{			
		9556-9657 (48)		
	1			
		}		
	{ } }	}		
	1 1	)		•
	10,950	)		
	405KS	)		
		7" @ 11,430'		
	11,200	1		
	)	625 SKS 50/50 POZH +200 SKS H		
		7 200 323 74	•	
	المستحما	)		
	ZB			
	$\parallel \parallel $	1		
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	14.315			

AFERGS GROSS AFE REPORT ACTUAL COSTS THROUGH 02/96 COMPANY 003 YATES PETROLEUM CORPORATION

PAGE 11:05:52 4/05/9

4,061.26-	a,061.26	4,061.26	. 0		BITS, TOOLS	. 4
2,022,50-	G. 5000.500	U + 5500 + 550	÷.500	ਹ. •000 •	ATTITIONAL LOC CHAR	
6,000.00	• 00	• 68	6,000	6,000 000	_	
83,563,41	166,436.59	166,436,59	250,000	250,000	920-470 STIMULATION FOR COMPLETION	i.
51,512,33-	86,512.33	86,512.33	35,000	35,000	TOOL &	iii G
1,806,91	13,193.09	13,193,09	15,000	15,000	920-450 ELEC: LOGS, TESTING, ETC: -COMP	ĸî.
TO,000,00	• 00	•00	000 * O.T.	15,000	920-440 CEMENTING - COMPLETION	1
162.64-	162.64	162,64	¢	5,000	920-430 MUD & ADDITIVES FOR COMPLETI	
43,192,63-	53,192.63	53,192.63	10,000	10,000	-	::
52,128.65-	87,128.65	87,128.65	35,000	40,000		
4,816.25	183, 75	183.75	5,000	5,000		'
8,371.37-	11,371.37	11,371,37	3,000	3,000	_	. 1
2,766.61	2,233.39	2,233.39	5,000	5,000	920-200 TOOL& EQP RNTL, TRUCKING & WL	:
13,101.29	1,898.71	1,898.71	15,000	15,000		
5,062.51	4,937.49	4,937,49	10,000	10,000	-	١.
1,371,61	3,628.39	3,628,39	5,000	5,000	920-100 STAKING, PERMIT & LEGAL FEES	: 1
					INTANGIBLE DRILLING COSTS	
34,340,72- *	34,340,72	34,340,72	0	0	WELL WORKOVER COSTS	: 1
246.89-	246.89	246.89	0	0	510-900 OTHER WELL WORKOVER COSTS	:
2,792.61-	2,792.61	2,792.61	0	0	510-700 TUBING WORK STRING USAGE COS	
961.95-	961.95	961.95	0	0	510-600 TOOLS & SERVICES	: 1
3,356.44-	3,356.44	3,356.44	0	0	-	
3,028.34-	3,028.34	3,028,34	0	<b>٠</b>	510-350 TOOL & EQUIPMENT RENTAL	
2,493.60-	2,493.60	2,493.80		0	510-300 ELECTRIC LOGGING & WIRELINE	
5,489,25-	5,489.25	5,489.25	0	0	_	i.
15,971.64-	15,971.64	15,971.64	0	0	RIG EXPE	1 43
						 i
OVER AFE	ACTUAL COST CUMULATIVE	ACTUAL COST FISCAL	Lagana	DRY BUDGET	GEN SUB DESCRIPTION	
	YATES PETRULEUM CURPURATION	UPERATUR 999900	NEW MEXICO	STATE NM	RIG RELEASE DATE 10/10/95	
The state of the s	on and the factor of the first that the factor of the factor of the factor of the section of the factor of the fac	7		: 1	G6/G2/6	·
FBTD 8701				TYPE OF WELL	G DATE 1/31/96	é.
3-4	BONE SPRING	HORIZON 57		TRILLING T	BEGINING DATE	 I
RATION ST NOT FOUND*	999900 YATES PETROLEUM CORPORATION INTEREST ***OWNER INTEREST NOT	YPC AFE# 952910 DWNER	APO STATE #I	1	LAST UPDATE 2/29/96 PROPERTY 032840-001 HUNT AFE TYPE 13 RE-ENTER P&A	a. a. i. i
						60

AFER35 GROSS AFE REPORT

ACTUAL COSTS THROUGH 02/96
COMPANY 003 YATES PETROLEOM CORPORATION

11:05:52 4/05/9

020-020 940-020 940-010 920-150 930-030 920-130 930-040 FACKER & SPECIAL EQUIPMENT 930-020 930-010 940-040 LAST UPDATE SUS NEO \*\*\* CONT. \*\*\* CHA LEASE & BATTERY HOUITREA TANGIBLE WELL EQUIPMENT GEN LEASE & BATTERY EQUIPMENT TANGIBLE WELL EQUIPMENT INTANGIBLE DRILLING COSTS INTANGIBLE DRILLING COSTS CHRISTMAS TREE & MELLINEAD CASING TRUCKING & CONSTRUCTION COST SEPARATION MOR, FLOWLNS, MISC STORAGE FACILITIES FUMPING EQUIPMENT DRILLING MUD & ADDITIVES INTLLING, DAYWORK TUBING DESCRIPTION 2/29/96 PROPERTY 032840-001 HUNT APO STATE #1 TOTALS FOR AFE DRY BUDGE 510,000 422,500 45,000 10,000 35,000 42,500 18,500 16,500 7,500 Ö  $\circ$ 697,500 195,000 405,500 7,500 97,000 20,000 32,500 25,000 25,000 25,000 75,000 200 f O.T 37,000 35,000 BUDGET YPC AFE# 952910 OWNER 999900 YATES PETROLEUM CORPORATION ACTUAL COST FISCAL 688,554,10 438,462.79 175,307.37 88,692.82 14,910.74 .00 40,443.22 32,867,10 38,836,71 33,714.76 6,667,96 60.50 OWNER INTEREST 00 00 ACTUAL COST CUMULATIVE 32,867.10 175,307.37 438,462.79 688,554.10 88,692,82 14,910,74 .00 40,443.22 38,836,71 33,714.76 6,667.96 60.50 \*\*\*OWNER INTEREST NOT FOUND\*1 00 00 13,332.04 (DVER) AFE 13,692.82-10,089,26 19,692.63 13,836,71-10,000,00 35,000.00 56,556.78 32,962,79-3,285,24 7,867,10-7,500,00 8,945.90 UNLER OR \*\* \* ¥

MPSR8291 MONTHLY PRODUCTION HISTORY - COMPANY 003 YATES PETROLEUM ( PROPERTY: 032840-001 Production Dates: 00/00 - 04/	Production Dates: 00/00	Prod DaysOil	70.707	01/96 24 179	12/95 30 743 8/	11/9E 12	o 155	TOTALS: 2712 2579			ä.e	52 25 3	25.			
ONE WEL CORPORAT	04/96	Froduced s	d mynyny	N -	( T. Z. )	л ( Э -	000	<b>√</b> 0								
STATE	STATE	Sold F	in for for it	N :	(m./m.)	26 C C	0 (	2531	To the second se							
#1 91 ##	51	Water	7 (Alle) 7 A	4790 1	20.7	1000 1000 1000	1201	20782		A. A. M. A.						
		Field-Sub-	07.	400 GRAMA RINGE	CHAMA				TO THE TAX							
			. Takini ka		NOW THE	NON-1	XOXTH									
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GOVERNOR

#### STATE OF NEW MEXICO

### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

5/31/96

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 RE: Proposed: MC. DHC NSL NSP SWD WFX **PMX** Gentlemen: I have examined the application for the: Operator and my recommendations are as follows: Yours very truly,

Supervisor, District 1