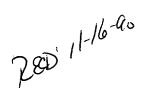
A> Name and Address of the Operator:

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210 ATTN: Brian Collins



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

Alexandre AHX Federal #1 Unit C Sec 33-T19S-R24E 660' FNL and 2105' FWL Pools: Undesignated

C> A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

See Attachment A (map)

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

See Attachment B

The approximate test rates for each zone are:
Lower Canyon
60 psi on 1/2" choke = 470 MCFPD
Wolfcamp
150 psi on 1/4" choke = 240 MCFPD

E> 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. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. 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 B (for completion history)

See Attachment C (for prognostication of future production from each zone)

Best engineering estimate of initial stabilized production rate is 375 MCFPD for the Lower Canyon, and 200 MCFPD for the Wolfcamp.

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

Bottom-hole pressure for the Lower Canyon is 3145 psi based on the BHP BU taken on 10-20-90. Bottom-hole pressure for the Wolfcamp is 1910 psi based on the BHP BU taken on 10-30-90.

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

See Attachment B

Expect dry gas production from each formation with minor amounts of oil and water. Do not anticipate any incompatibility problems.

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

See Attachment C and D

Prognostication of each formation's reserves indicate that an additional 74,483 MCF of gas will be recovered by commingling production from the Lower Canyon and Wolfcamp (lower economic limit for each formation with commingled production).

I> 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.

> Gas: Lower Canyon - $\underline{591,812 \text{ MCF}}$ 907,445 MCF = 65.22% (65%)

> > Wolfcamp - $\frac{315,633 \text{ MCF}}{907,445 \text{ MCF}} = 34.78\% (35\%)$

Oil: Lower Canyon - 100%

Best engineering estimate is that both zones

will decline at same rate (20% /yr). Ratio of each zones' estimated reserves to total reserves for both zones is basis for allocation between zones. Very small amount of oil seen when testing Lower Canyon, none seen when testing Wolfcamp.

J> Economic hardship to Yates Petroleum Corporation will result if the two zones are not commingled and produced simultaneously. Attachment C illustrates the Before Income Tax Discounted Net Cash Flow for commingled production. Attachment D illustrates BFIT DNCF for producing one zone at a time. Attachments are summarized below:

| <u>Case</u> | <u>Commingled</u> | Produced <u>Singly</u> |
|-------------------------------|-------------------|---------------------------|
| Gross Reserves, MCF | 907,445 | 832,962 |
| Cum.Disc.Net Cash Flow, \$ | 168,829 | -44,162 |

K> 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 operator for this area is Yates Petroleum, therefore the one office notified in writing of the proposed commingling of the Alexandre AHX Federal #1 is:

BUREAU OF LAND MANAGEMENT P.O. Box 1778 Carlsbad, NM 88220 ATTN: Richard Manus Area Manager

ATTACHMENT A

| • | | _ | | | | • |
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ALEXANDRE AHX FEDERAL #1

Unit C Sec 33-T 19S-R 24E 660' FNL and 2105' FWL Eddy County, New Mexico YATES PETROLEUM CORPORATION

WELLOCATION AND ACREAGE DEDICATION LAT

| | | All distances must b | e from the oute | r houndaries of | the Section. | | | | |
|----------------------------|---|--|-----------------|-----------------|--------------|--|---|--|--|
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| linit Letter C | Section 33 | Township 19 South | Range | 24 East | County | Eddy Cor | inty, N.M. | | |
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| 660 | feet from the | North line on | d 2105 | D lee | t from the | West | line | | |
| Ground Level Elev. | Producing Fog | mation | Pont | | | | Dedicated Acresur: | | |
| 3770. | <u>/</u> \ | Norrow | |)nd. M. | مدهم | | 320 Acres | | |
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| | n one lease of d ommunitization, u | ifferent ownership i initization, force-poo nswer is "yes;" type | oling. etc? | | | nterests of | all owners been consoli- | | |
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YATES PETROLEUM CORPORATION CHRONOLOGICAL DRILLING REPORT Alexandre "AHX" Federal #1 Unit C 33-19S-24E Eddy County, New Mexico

| 8-13-90 | Location: 660' FNL & 2105' FWL of Section 33-19S-24E, Eddy |
|---------|--|
| | County, New Mexico. Lease No.: NM - 39949. Elevation: |
| | 3770' GR. PTD: 9200' Morrow. Drilling Contractor: McVay |
| 0 14 00 | #4. Building location. |
| 8-14-90 | Building location. |
| 8-15-90 | Building location. |
| 8-16-90 | Building location. |
| 8-17-90 | Building location. |
| 8-18-80 | Waiting on rotary tools. |
| 8-21-90 | TD 40'. Moving in and rigging up rotary tools. Spudded |
| | 26" hole at 8:30 AM 8-20-90 with Frank's Rathole. Set 40' |
| | of 20" conductor. Redi-mix with 4 yards. Notified Kathy |
| 0 00 00 | with Carlsbad BLM of spud. |
| 8-22-90 | TD 40'. Finish rigging up rotary tools. Will resume |
| 0 22 00 | drilling this AM. |
| 8-23-90 | Drilling 550', no returns. Made 510' in 18-1/4 hours, |
| | 28'/hr. MW 8.3, Vis 28. Survey 358' 1/2 deg. WOB |
| | 25-50000#, RPM 64, SPM 46, PP 800#. Resumed drilling 9:30 |
| | AM 8-22-90. Lost returns at 60'. Mix and pump two LCM |
| | pills, no results. TIH with bit #2 at 358'. DMC \$1200; CMC \$1200; DC \$37,683; CC \$37,683 |
| 8-24-90 | Drilling 1095'. Made 545' in 23-1/2 hours. MW 8.4, Vis |
| 0-24-90 | 28, pH 7. Survey 786' 1 deg. WOB 55000#, RPM 64, SPM 46, |
| | PP 900#. DMC \$0; CMC \$1200; DC \$24,320; CC \$62,003 |
| 8-25-90 | TD 1292', no returns. WOC. Made 197' in 13-1/4 hours, |
| 0-25-50 | 14.9'/hr. MW 8.4, Vis 28, pH 7. Surveys 1193' 1-1/4 deg, |
| | 1292' 1 deg. SPM 50, PP 1300#. TD 14-3/4" hole 8:00 PM |
| | 8-24-90. Ran 30 joints 9-5/8" 36# J-55 (1296') casing, set |
| | 1292'. Texas Pattern Notched guide shoe set 1292'. Insert |
| | float set 1249'. PD 3:00 AM 8-25-90. Cemented with 900 |
| | sacks Halliburton Lite with 10#/sx Gilsonite, 1/2#/sx |
| | Flocele and 3% CaCl2 (yield 1.84, weight 12.7). Tailed in |
| | with 200 sacks "C" with 2% CaCl (yield 1.32, weight 14.8). |
| | PD 3:00 AM 8-25-90. Bumped plug to 700 psi, released |
| | pressure and float held okay. Cement did not circulate. |
| | Made up 1" pipe. DMC \$851; CMC \$1153; DC \$17,338; CC |
| | \$79,341 |
| 8-26-90 | TD 1292'. One-inching. MW 8.4, Vis 28, pH 7. DETAILED |
| | ONE-INCH REPORT TO FOLLOW. CMC \$1153; DC \$15,684; CC |
| | \$95,025 |
| 8-27-90 | Drilling 1541'. Made 249' in 10 hours, 25'/hr. MW 8.4, |
| | Vis 28, pH 9, Cl 4200. WOB 60000#, RPM 70, SPM 50, PP |
| | 1500#. DETAILED ONE-INCH REPORT: Cement did not |
| | circulate. WOC 6 hours. Tagged top of cement 251'. Ran |
| | 1". Tagged cement 251'. Spotted 565 sacks Class "C" with |
| | 2% CaCl. Cement at 48'. Readi-mix with 34 yards. |
| | Circulated 2 yards. Drilled out 8:00 PM 8-26-90. WOC 41 hours. Nippled up and tested to 1000 psi for 30 minutes. |
| | hours. Nippled up and tested to 1000 psi for 30 minutes, OK. Reduced hole to 8-3/4". COMMENTS: Adam Salami with |
| | BLM Carlsbad, verbal to go to 1300'. Cementing witnessed |
| | by Kathy and Jim with BLM Carlsbad. Cement baskets at 351 |
| , | and 576'. |
| 8-28-90 | Drilling 2230' dolomite. Made 689' in 23 hours, |
| | 30.65'/hr. MW 8.4, Vis 28, pH 10.5. Surveys 1782' 1-1/4 |
| | deg, 2226' 3/4 deg. WOB 60000#, RPM 70, SPM 50, PP 1500#. |
| | CMC \$1153; DC \$14,799.50; CC \$124,688.50 |
| 8-29-90 | Drilling 2990' dolomite. Made 760' in 23-1/2 hours. |
| | 32.3'/hr. MW 8.4, Vis 28, pH 10, Cl 3100, Calcium 700 |
| | Survey 2718' 1-1/4 deg. WOB 60000#, RPM 70, SPM 50, PP |
| | 1600#. DMC \$228; CMC \$1434; DC \$12,720; CC \$137,408,58 |
| 8-30-90 | Drilling 3490' dolomite. Made 500' in 23 hours. 21.7'/hr |
| | MW 9+, Vis 29, PV 1, pH 10. Survey 3215' 1-1/4 deg. WOB |
| | |

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Yates Petroleum - Alexandre "AHX" Federal #1 (Unit C) 33-19S-24E
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60000#, RPM 70, SPM 50, PP 1700#. DMC $228; CMC $1434; DC
                       $10,153; CC $147,561.50
                      Drilling 3980' dolomite. Made 490' in 22-3/4 hours, 21.53'/hr. MW 9.2, Vis 28, pH 10, Cl 78000, Calcium 1380. Surveys 3558' 1-1/4 deg, 3871' 2 deg. WOB 45000#, RPM 70,
8-31-90
                       SPM 50, PP 1700#. DMC $222; CMC $1656; DC $8793; CC
                       $156,354.50
                      Drilling 4325' dolomite. Made 345' in 21-3/4 hours, 12'/hr. MW 9.3, Vis 28, pH 10, C1 /8000, Solids 1%, Sand trace, Calcium 1380. Survey 3996' 1-1/2 deg, 40-90' 1-3/4
9 - 1 - 90
                       deg, 4182' 2-1/2 deg, and 4276' 2-1/4 deg. WOB 40000#, RPM
                       68, SPM 48, PP 1700#. DMC $0; CMC $1656; DC $6407.50; CC
                       $162,762
9-2-90
                       Drilling 4567' dolomite.
                                                                Made 242' in 22-1/4 hours,
                       10.9'/hr. MW 9.2, Vis 29, pH 10.5, Cl 74000, Calcium 1300. Surveys 4369' 2 deg, 4470' 2-1/2 deg and 4556' 2-1/2
                                  MW 40000#, RPM 68, SPM 48, PP 1700#. DMC $169; CMC
                       $1825; DC $5840; CC $168,602
                       Drilling 4880' dolomite. Made 313' in 21-1/2 hours,
9-3-90
                       14.6'/hr. MW 9.3, Vis 28, pH 10, Cl 74000. Surveys 4649' 2-1/2 deg, 4751' 2 deg and 4836' 2-1/4 deg. WOB 40000#, RPM 60, SPM 48, PP 1700#. Circulate samples at 4816-4841'. DMC $169; CMC $1825; DC $5791.50; CC
                       $174,393.50
                       TD 4907' dolomite. Test BOP. Made 27' in 1-1/4 hours, 21.6'/hr. MW 9.1, Vis 29, pH 10. Survey 4907' 2 deg. 40000#, RPM 68, SPM 48, PP 1700#. Circulate samples at 4900'. Drilled to 4907'. Circulate for DST #1. SOH, r
9-4-90
                                                                                                        SOH, no
                                           Ran DST #1 4808-4907 (99') Abo. DMC $418; CMC
                       correction.
                       $2243; DC $8552.50; CC $182,946
RESULTS OF DST #1 4808-4907' (99') Abo: TIMES
30-60-60-120-30. Opened tool with weak blow with 1/2",
increased to 1.5" in 10 mins then decreased to 1.0" in 20
                       mins. Shut in with 1.0". Opened tool with weak blow (1/2") then increased to 1.0" in 5 mins. Shut in with
                       1.0". Opened tool with weak blow (1/2") and increased to
                       1.0" in \bar{2} mins and remained at 1.0" for 30 mins.
                                       730' drilling fluid and sulter water.
                       RECOVERY:
                                                                                                          SAMPLER:
                       2420 cc water and 3 psi.
                                                                 PRESSURES:
                                                     4901
                                                                                4896'
                       DEPTH
                       IHP
                                                     2286
                                                                               2270
                       IFP
                                                     57-151
                                                                               53-142
                       ISIP
                                                                               1800
                                                     1821
                       2nd FP
                                                     170-294
                                                                               151-292
                       FSIP
                                                     1859
                                                                               1847
                                                     322-360
                                                                               302-349
                       чны
                                                     2286
                                                                               2270
                       REMARKS: No gas or fluids to surface during test.
                       Pressure appears to have channelled around packers during
                       final shut in.
                       Drilling 5187' dolomite. Made 280' in 17-1/2 hours,
9-5-90
                       16'/hr. MW 9.2+, Vis 28, pH 10, Cl 68000, Calcium 1300. Surveys 4992' 2-3/4 deg, 5086' 2-1/2 deg and 5178' 2-3/4 deg. WOB 35-40000#, RPM 70, SPM 50, PP 1700#. Tested BOP. Pick up BHA and ran drill collar in hole. Cut 55'
                      drilling line. TIH, wash 40' to bottom. DMC $0; CMC $2243; DC $7353; CC $190,299
Drilling 5454' lime. Made 267' in 19-3/4 hours, 13.5'/hr.
9-6-90
                      MW 9.2, Vis 28, Cl 86000, Solids 1/2, Calcium 1200.
Surveys 5272' 2-1/2 deg and 5367' 2-3/4 deg. WOB 40000#,
                       RPM 70, SPM 50, PP 1700#. TOH (chaining out), crack at 4212'. TIH. Resume drilling. DMC $589; CMC $2832; DC
                       $5813; CC $196,110
                                                         Made 371' in 19-1/2 hours, 19'/hr.
                       Drilling 5825' lime.
9-7-90
                      MW 9.3, Vis 28, pH 10, Cl 86000, Calcium 1200. Surveys 5461' 2-1/4 deg, 5555' 2 deg, 5743' 1-3/4 deg. WOB 50-55000#, RPM 66, SPM 46, PP 1500#. TOH for hole in drill pipe - 52 stands and 1 single. CMC $2832; DC $8126; CC
                       $204,238
9-8-90
                       Drilling 6315' lime.
                                                           Made 490' in 22-3/4 hours, 21.5'/hr.
                      MW 9.3, Vis 29, pH 10.5, Cl 85000, Solids 1-1/2%, Calcium
```

Calcium

Sulfate

Magnesium

Sod & Pot

Bicarbonate

869

330

3937

indeterminate

| | | | • |
|----------------|----------------------|---|---------------------------|
| | 1300 Survey 5962 | 3/4 deg WOB 600 | 000#, RPM 66, SPM 46, |
| | PP 1500#. DMC \$129 | | |
| 9-9-90 | | | 1-1/2 hours, 22'/hr. |
| 3 3 30 | MW 9.3, Vis 29, pH | | |
| | 1300 Survey 6429 | 3/4 deg. WOB 600 | 000#, RPM 66, SPM 46, |
| | PP 1500#. Circulat | ted samples at 6392 | 2'. CMC \$2961: DC |
| | \$8298; CC \$221,040 | sea samples as sol- | |
| 9-10-90 | Drilling 7236' dolo | omite. Made 446' | in 20-1/2 hours. |
| , 10 ,0 | | | Cl 108,000, Calcium |
| | | | 000#, RPM 60, SPM 46, |
| | | | 2' (7') and 7225-7236' |
| | (11'). DMC \$328; (| | |
| 9-11-90 | Drilling 7688' lime | | |
| | | | CL 108,000, Solids 1%, |
| | | | 1 7568' 3/4 deg. WOB |
| | | | irculate samples at |
| | | | C \$3289; DC \$8021; CC |
| | \$237,317 | - , , , , , , , , , , , , , , , , , , , | _ , , , , , , |
| 9-12-90 | | and lime. Trip for | r bit and down hole |
| , | | | '/hr. MW 9.2, Vis 29, |
| | | | 1080. Survey 7839' 1 |
| | | | 1600#. Trip for hole |
| | in drill pipe (44 | | |
| | up BHA. TIh. DMC | | |
| | \$243,424.50 | , 200, 0.10 , 0.10 , 1 | |
| 9-13-90 | Drilling 8482' dol | omite. Made 475' | in 22-1/4 hours. |
| | 21.34'/hr. MW 9.3 | | |
| | | | g. WOB 55000#, RPM 65, |
| | | | ash to bottom. DMC \$0; |
| | CMC \$3437; DC \$913 | | |
| 9-14-90 | Drilling 8760' dol | | in 22-3/4 hours, |
| | | | 6, Gels 21, pH 11, Wl |
| | | | Sand trace, Calcium |
| • | 1360. Survey 8700 | ' 1-3/4 deg. WOB | 60000#, RPM 65, SPM 46, |
| | PP 1750#. DMC \$19 | 07; CMC \$5344; DC | \$7231; CC \$259,795 |
| 9-15-90 | TD 8832' dolomite | and shale. TOH wi | th DST #2. Made 72' in |
| | 5-1/4 hours, 13.71 | '/hr. MW 9.5, Vis | 43, PV 15, YP 8, Gels |
| | 5/10, pH 11, WL 4, | FC 1/32, Cl 94,00 | 0, Solids 3%, Sand |
| | | | deg. WOB 60000#, RPM |
| | 65, SPM 46, PP 175 | 0#. Circulate for | DST #2. TOH, SLM |
| | | | d make up test tools. |
| | | | 0-8832' (172') Morrow. |
| | | | ; DC \$5271; CC \$265,066 |
| 9-16-90 | | | to bottom. Made 0'. |
| | | | /12, pH 10, WL 8, FC |
| | | | ce, Calcium 1380. WOB |
| | | | OH with test tools. |
| | Break out and load | out tools. Pick | up BHA. TIH. Drill |
| | | bottom. DMC \$808 | ; CMC \$6640; DC \$10731; |
| | CC \$275,797 | | |
| | RESULTS OF DST 2 8 | 660-8832 ' (172 ') M | orrow: TIME |
| | 30-120-60-180. Ope | ened tool with str | ong blow, increased |
| | from 3 oz to 5.5#. | Shut in. Opened | tool with 4#. Change |
| | | | as to surface in 20 |
| | minutes. Flowing | | |
| | none. Pressure in | creased from 4# to | 16.5# in 35 mins and |
| | remain at 16.5# un | | |
| | | | . SAMPLER: 11.94 cu |
| | ft gas, 860 cc mud | | |
| | | 1SIP 3195, FFP 15 | 0-267, FSIP 3405, FHP |
| tiamm aliantee | 4300. | CAMPIES | V**** |
| WATER ANALYSI | | SAMPLER | MIDDLE RECOVERY |
| Sp. Gravity | 1.105 @ 74 10.0 | @ 74 | 1.110 @ 74 deg |
| рН Iron | N/D | 7.3 N/D | 8.0 N/D |
| H2S | N/D | N/D | N/D |
| Calcium | 869 | 1000 | N/D 360 |
| | | | |

1000

146

4750

360 438

121

53,831 3874

10-6-8-90

Yates Petroleum - Alexandre "AHX" Féderal #1 (Unit C) 33-19S-24E

93,000 81,982 84,163 REMARKS SAMPLE CHAMBER ANALYSIS: Could not obtain enough water to get specific gravity. All values are in mg/l.
9-17-90

TD 8832' lime and shale. Drill rubber. Made 0'. MW 9.5

Vis 50, PV 14, YP 10, Gels 6/12, WL 8, FC 2/32, Cl 84000,

Calcium 1380. WOB 50000#, RPM 70, SPM 46, PP 1750#. Was

and ream hole, 150' fill. TOH. Lay down BHA. Work on MW 9.5, pump. TIH with bit, hit bridge at 8700'. Had 80' fill. Wash and ream. Drilling rubber from packer. NOTE: circulated up 4 pieces of rubber 4" x 6" and lot of large pieces of black shale. DMC \$800; CMC \$7440; DC \$6015; CC \$281,812 Drilling 8940' shale. Made 108' in 18-3/4 hours, 9-18-90 5.75'/hr. MW 9.4, Vis 57, PV 19, YP 28, Gels 16/29, pH 10, WL 12, FC 2/32, Cl 87000, Sand 2.4, Calcium 720. WOB 45000#, RPM 66, SPM 47, PP 1500#. Wash to bottom. Work tight hole 8800-8850'. Resume drilling. DMC \$973; CMC \$7433; DC \$4452; CC \$286,264 Jet shale pit. TD 8980' lime and shale. Wash to bottom. Made 58' in 8-3/4 hours, 10.5'/hr. MW 9.7, Vis 80, PV 16, YP 23, Gels 7/15, pH 10.5, WL 8.2, FC 2/32, Cl 79000, Solids 3.3%. WOB 50000#, RPM 65, SPM 46, PP 1550#. Reached TD at 3:15 PM 9-18-90. Circulate. TOH, short trip. TIH, bridge at 9-19-90 8831'. Wash to bottom. Circulate and condition hole. Made 10 stand short trip. TIH, bridge at 8515'. DMC \$900; CMC \$8333; DC \$6839; CC \$293,103
TD 8980' lime and shale. TIH. Made 0'. MW 9.5, Vis 126,
PV 31, YP 42, Gels 21/49, pH 9.5, WL 7.2, FC 2/32, Cl
77000, Solids 3.4%, Calcium 600. Survey 8980' 1-1/4 deg.
WOB 50000#, RPM 60, SPM 46, PP 1550#. Work tight hole
8830-40'. Made short trip (chain out 10 stands).
Circulate. TOH, SLM 8986.10'. Log with Schlumberger. Wash thru 9-20-90 Circulate. TOH, SLM 8986.10'. Log with Schlumberger. Loggers could not get past 8860'. TIH. DMC \$1538; CM DMC \$1538; CMC \$9871; DC \$6578; CC \$299,681 TD 8980' lime. Running 5-1/2" casing. Made 0'. MW 9.5, Vis 90, PV 31, YP 42, Gels 21/49, pH 11, WL 9.6, FC 2/32, Cl 72000, Solids 3.4%, Calcium 600. SPM 42, PP 1500#. Running 5-1/2" casing. 9-21-90 Tripped, wash to bottom. Circulate and condition hole. Make short trip. Circulate and condition mud. Lay down drill pipe. Wait on casing crew 1/2 hour. Rig up and run casing. DMC \$0; CMC \$9871; DC \$17,760; CC \$317,441 TD 8980'. Waiting on completion unit.. 9-22-90 DETAILED CASING REPORT: Ran 212 joints 5-1/2" 15.5# & 17# J-55 & N-80 (9023.04') casing, set 8980' as follows: 9 joints 5-1/2" 17# N-80 8rd (368.56'), 42 joints 5-1/2" 17# J-55 8rd (1855.01'), 127 joints 5-1/2" 15.5# J-55 8rd (5303.56'), 22 joints 5-1/2" 17# J-55 8rd (967.77') and 12 joints 5-1/2" 17# N-80 8rd (528.14'). Float shoe set 8980', float collar set 8936' and DV tool set 5475.01' Cemented 1st stage with 1250 sacks Class "H" with .4% Halad-22A, .3% CFR-3, 5#/sack salt and 5#/sack gilsonite with 500 gals superflush (yield 1.18, weight 15.6). PD 10:15 PM 9-21-90. Circulated 150 sacks to pit. Circulated thru DV tool 1-1/2 hours. Cemented 2nd stage with 1100 sacks Halliburton Lite with 1/4# flocele, 5# gilsonite (yield 1.84, weight 12.7). Followed with 100 sacks Class "H" Neat (yield 1.18, weight 15.6). PD 1:45 PM 9-21-90. WOC. Rig released 4:45 PM 9-21-90. NOTE: Blasted casing and centralizers across pays, marker joints at 8609' and 6103'. CMC \$9871; DC \$111,167; CC \$428,608 9-25-90 Waiting on completion unit. 9-26-90 Waiting on completion unit. 9-27-90 Waiting on completion unit. Waiting on completion unit. 9-28-90 9-29/10-1-90 Waiting on completion unit. 10-2-90 Waiting on completion unit. 10-3-90 Waiting on completion unit. 10-4-90 Waiting on completion unit. 10-5-90 Waiting on completion unit.

Waiting on completion unit.

| ***** | ************** |
|-------------|---|
| 10-9-90 | Moved in and rigged up pulling unit. Installed 11" 3000# x 7-1/16 5000# tubinghead. Picked up 8-3/4" bit, 6 - 3-1/8" drill collars and 160 joints 2-7/8" J-55 tubing. Tag cement at 5324'. Drilled cement to 5327'. Drilled 1/2 DV tool. Shut down due to darkness. Prep to continue drilling DV tool and tag bottom. DC \$47,704; CC \$47,704 |
| | Continued drilling out DV tool. Tested to 1500#, OK. POH and TIH with 4-3/4" string mill and work through DV tool. POH. TIH with bit and scraper and cleaned out to 8832'. Circulated hole with 2% KCL water. Laid down 32 joints and POH. Rigged up wireline to run CBL. Prep to perforate and acidize Canyon Lime. DC \$4185; CC \$51,889 |
| 10-11-90 | WIH on wireline and perforated Canyon Lime as follows: 7551-55', 7534-37', 7444-7454', 7398-7400', 7392-94', 7276-78', 7245-55' (2 SPF .40" holes). TIH with 5-1/2" Uni V packer and Uni VI RBP. Set RBP at 7592'. Spot 5 bbls acid and pulled packer to 7497'. Acidized perfs 7537-7555' with 2000 gals + 24 ball sealers. Communicated up with 1000 gals acid in perfs. Pulled packer to 7432'. Pumped 10 bbls and communicated up. Pulled packer to 7367'. Acidized perfs 7392-7555' with remaining 3100 gals + 90 ball sealers. Total load to recover 205 bbls. Treating Pressures: Min 2800#, Max 3350#, Avg 3000# at 4.1 BPM. ISDP 2800#, 15 mins 2100#. Rigged up swab. Recovered 151 bbls, 3-5 bbls per run. Making run every 20 minutes. Strong blow of gas after run for 5-10 minutes. Load left to recover 64 bbls. DC \$13,754; CC \$65,643 |
| 10-12-90 | Swabbing 1000' scattered fluid, 2 - 2-1/2 bbls. made 2 runs per hour until noon. Placed on 1/4" choke for 2 hours. Stable at 100# - 166 MCF. Made swab run and recovered 800' scattered fluid (2 bbls). Recovered 39.5 bbls for the day. Load to recover 25 bbls. DC \$1930; CC \$67,573 |
| 10-13-15-90 | SITP 1700#. Bled down. Loaded tubing. Moved RBP to 7335' and tested to 1000#, OK. Spot 2 bbls acid and pulled packer to 7143'. Acidized perfs 7245-55', 7276-78' with 2500 gals 15% NEFE + 40 ball sealers. Break down 1700#. Balled out. Treating Pressures: Min 2970#, Max 4800#, Avg 4.3 @ 3000#. ISDP 2150#, 15 mins 820#. Kick off in 3 runs. Flowed on 1/2" choke. Load to recover 143 bbls. DC \$6153; CC \$73,726 Flowed as follows: |
| | TIME BPH TOTAL BBLS PSI CHOKE 4:00-5:00 55 70 175 1/2" 6:00 5 75 175 1/2" 7:06 7 82 175 1/2" 8:00 - 82 150 1/2" 9:00 - 82 150 1/2" 10:00 1 83 120 1/2" 11:00 - 83 100 1/2" 12:00 - 83 75 1/2" 1:00 AM 1 84 50 1/2" 2:00 - 84 40 1/2" 3:00 - 84 40 1/2" 3:00 - 84 40 1/2" 5:00 1/2 64.5 50 1/2" 6:00 - 84.5 40-60 1/2" 6:00 - 84.5 40-60 1/2" 7:00 Sw 1 bbl 85.5 50 1/2" 8:00 - 85.5 50 1/2" 8:00 - 85.5 50 1/2" 11:00 - 85.5 100 1/4" 11:00 - 85.5 115 1/4" 11:00 - 85.5 115 1/4" 11:00 ST 115 1/4" |

```
H2S on location:
                 271 ppm
```

```
10-13-90; Perfs 7245-7278'
GAS ANALYSIS:*
                            1207
Total Real BTU/Cu.Ft. (dry)
                                        1210
Total Real BUT/Cu.Ft. (wet)
                              1186
                                        1188
Real Spec Gravity 0.702
Ideal Spec Gravity 0.700
*DETAILED REPORT IN WELLFILE
```

10-16-90 SITP 775#. Bled down. Loaded tubing with 2% KCL. Moved RBP to 7592' and reset packer at 7123'. Loaded annulus and tested to 500#. Swabbed well in. At 5:00 PM well flowing 50# on 1/2" choke. Recovered 7 BWPH (2% oil) + 60 bbls water. Load left to recover 12 bbls. Left well open to tank on 1/2" choke. Gas from perfs 7245-78' had no H2S.

DC \$2014; CC \$75,740 Flow well at 25# on 1/2" choke. 10-17-90 No fluid recovered this day - 238 MCF. Prep to re-acidize. DC \$1600; CC \$770,340 10-18-90

SITP 1600#. Rigged up Western. Acidized (via 2-7/8" tubing) perfs 7245-7555' with 17000 gals 15% NEFE acid + 140 ball sealers. Balled off with 120 ball on 5600#. Pressure would not hold. Surge balls. Put acid away. Treating Pressures: Max 5600#, Min 1000#, Avg 3500# at 10 BPM. ISDP 2900#, 5 mins 2400#, 10 mins 2100#, 15 mins 2000#. Load to recover 470 bbls. Started swabbing.

Recovered 80 bbls. At 4:00 PM well started flowing as follows: a... ____

| TIME | \mathtt{BPH} | CHOKE | PSI | OIL |
|-------|----------------|-------|-----|------|
| 5:00 | 34 | 32/64 | 500 | Skim |
| 6:00 | 49 | 32/64 | 450 | Skim |
| 7:00 | 31 | 32/64 | 350 | Skim |
| 8:00 | 35 | 32/64 | 275 | Skim |
| 9:00 | 15 | 32/64 | 250 | Skim |
| 10:00 | 10 | 32/64 | 200 | Skim |
| 11:00 | 10 | 32/64 | 150 | Skim |
| 12:00 | 5 | 32/64 | 150 | Skim |
| 1:00 | 5 | 32/64 | 125 | Skim |
| 2:00 | 7 | 32/64 | 100 | |
| 3:00 | 7 | 32/64 | 100 | |
| 4:00 | 7.5 | 32/64 | 75 | |
| 5:00 | 11.5 | 32/64 | 100 | |
| 6:00 | 14 | 32/64 | 100 | |
| 7:00 | 5 | 32/64 | 50 | Skim |
| | 246 | | | |

Total recovery at report time 326 bbls water + 3 bbls oil. Load left to recover 144 bbls. THIS AM - flowing 50# on

32/64" choke. DC \$17,100 Well flowing 50# on 32/64" choke at 7:00 AM. Flowed well 10-19-90 all day 50-75# on 32/64" choke. At 4:00 PM, made 35 bbls. Total recovered 361 bbls. Shut down crew and left well flowing to tank. Load left to recover 109 bbls. DC \$2200; CC \$787,440

10-20-22-90 FTP 60-65# on 32/64" choke. Flowed 30 bbls to tank overnight. Jarrel ran 72 hour buildup. Shut in. DC \$2455; CC \$789,895

WATER ANALYSIS: 10-20-90

6180-6182'.

Spec Gravity 1.100 @ 73 Sulfates 523 На 5.0 Bicarbonate 221 Iron Str trace Chlorides 70000 Calcium 16363 Sod & Pot 22772 Magnesium 2209

Shut in for bottom hole pressure buildup. 10-23-90 Will pull bomb at 5:00 PM.

Bled down. Loaded hole. Unset packer. Latched onto RBP. Reset at 7175'. Would not test. POH. WIH with RBP and packer. Set at 7175'. Tested to 2000#. POH. Rigged up 10-24-90 wireline. Perforated Wolfcamp - 2 SPF on 180 deg phasing as follows: Zone 1 - 6335'-6338', 6330-6333', 6320-6325', 6314-6316,

6306-6310' Zone 2 - 6206-6209', 6200-6204', 6195-6198', 6187-6190',

11-14-90

Shut in.

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Zone 3 - 6082-6092', 6076-6078'.
                WIH with RBP with ball catcher and packer. Set RBP. Tested to 2000#. Set packer above Zone 1. Prep to swab.
                Recovered 38 bbls water with no show of oil or gas.
                $6002; CC $795,897
                Unset packer. Spot acid through perforated interval
10-25-90
                6306-6338'. Set packer above.
                                                      Communicated.
                blank pipe to 3000#, held OK. Straddled Zone 1 and 2.
                Communicated up. Moved packer below all perforations. Reversed hole. Set packer above all perforations.
                Recovered 48 bbls water and swabbed dry. Slight show of
                gas (possibly acid gas). DC $6094.53; CC $801,991.53 SITP 1500#. Initial fluid level 3500'. Swabbed dry.
10-26-90
                Installed 1/4" positive choke with 150# after 1-1/2 hours.
                Gas would burn.
                                    Total fluid recovered 6 bbls. DC
                $1337.50; CC $803,329.03
                WATER ANALYSIS:
                                   10-24-90
                                                         10-25-90
                                    1.1230 @ 70
.060 @ 70
                Spec Gravity
                                                         1.1150 @ 70
                                                         .060 @ 70
                Resistivity
                рН
                                                         6.5
                                     6.5
                                     30,559
                                                         30,752
                Calcium
                Magnesium
                                     1632
                                                         2332
                Chlorides
                                     109,000
                                                         102,000
                Sulfates
                                     1600
                                                         1000
                                     305
                                                         549
                Bicarbonates
                Iron
                                     500
                                                         500
                                     .5%
                KCL
                Caught gas sample. Acidized perfs 6076-6338' with 9000 gals 15% NEFE acid, 400# BAF + 180 ball sealers. Treating
10-27-90
                Pressurs: Max 4600#, Avg 2400# at 5 BPM. ISDP 2037#, 5
                mins 1627#, 10 mins 1548#, 15 mins 1329#. Total locrecover 260 bbls. Flowed and swabbed 112 bbls. DC
                                                                   Total load to
                 $10,371.58; CC $813.700.61
                Swabbed 38 bbls. Swabbed dry.
10-28-90
                                                      Shut in.
                                                                  DC $1025; CC
                 $814,725.61
10-29-90
                SITP 1400#.
                               Flowed 4-1/2 bbls. Swabbed 1-1/2 bbls - dry.
                 Installed 1/4" positive choke.
                                                      Flow rate 150# for 2
                hours. DC $1050; CC $815,775.61
                GAS ANALYSIS: Perfs 6076-6338' Wolfcamp; 10-26-90
                Real BTU/Cu.Ft. (dry)
Real BTU/Cu.Ft. (wet)
                                            1145
                                            1125
                Real Spec Gravity
                                            0.660
                Ideal Spec Gravity
                                            0.659
                 *Complete results in wellfile.
                SITP 1500#. Flowed 2 bbls. Ran swab. of 4 bbls. Installed 1/4" choke with
10-30-90
                                                               Recovered a total
                               Installed 1/4" choke with 150#. DC $1165; CC
                 $816,940.61
                WATER ANALYSIS:
                                     10-28-90
                                     1.1182 @ 70
                Spec Gravity
                                                       Resistivity
                                                                      .60 @ 70
                pН
                                     6.5
                                                       Sulfates
                                                                      1600
                                    <sub>1</sub>500
                 Iron
                                                       Bicarbonates 763
                Calcium
                                     29,503
                                                       Chlorides
                                                                      105,000
                Magnesium
                                     4081
                                                      KCL
                                                                      Nil
10-31-90
                 SITP 1300#.
                               Flowed to tank on 1/4" choke until Noon.
                 Rigged up Bennett & Cathey. Ran 168-hr BHP bomb. Rigged
                down unit. DC $880; CC $216,675
                 Shut in, 168 hour BHP bomb. CC $216,675
11-1-90
                            CC $216,675
11-2-90
                 Shut in.
                Shut in. Shut in.
11-3-5-90
11-6-90
                Shut in.
11-7-90
11-8-90
                Shut in.
                Shut in.
11-9-90
                Shut in.
11-10-12-90
11-13-90
                Shut in.
```

ALEXANDRE AHX FED 1 33-195-24E EDDY CO., NM

BFIT ECONOMICS LOWER CANYON AND WOLFCAMP COMMINGLED

D&C INVESTMENT = \$570,000

FACILITIES = \$38,500

GAS PRICE = \$1.50/MBTU

PRODUCTION TAXES = 8.1%

OPERATING EXPENSE = \$9000/YR

YATES NET INTEREST = 0.8125

DISCOUNT RATE = 10%

LOMER CANYON INITIAL RATE = 375 MCFPD, 1.18 MBTU/MCF, 20% DECLINE WOLFCAMP INITIAL RATE = 200 MCFPD, 1.13 MBTU/MCF, 20% DECLINE

| | START RATE (MCF/D) 375 300 240 192 192 123 123 98 79 63 50 26 26 30 27 30 30 30 30 30 30 30 30 30 30 30 30 30 |
|---------|---|
| | FINISH RATE |
| 591812 | ANNUAL PRODUCTION (MCF) 122679 98143 78514 62812 50249 40199 40199 32160 25728 20582 16466 13173 10538 8430 6744 5395 |
| | START RATE (MCF/b) ==================================== |
| | FINISH RATE (MCF/D) 1128 82 52 52 71 111 11 11 11 11 11 11 11 11 11 11 11 |
| 315633 | ANNJAL PRODUCTION (MCF) ======== 65429 52343 41874 33500 26800 21440 21440 17152 113721 10977 8782 7025 5420 4496 3597 2878 |
| 737300 | MET ANNUAL PRODUCTION (MCF) 152837 122270 97816 78253 62602 50082 40065 32052 25642 20513 16411 11503 8402 6722 |
| 1285787 | NET REVENJE (\$) ================================= |
| 135000 | OPERATING EXPENSES (\$) |
| 104149 | PRODUCTION TAXES (\$) ################################### |
| 438138 | UNDISCOUNTED CASH FLOV (\$) =================================== |
| | 0.9535 0.8668 0.7880 0.7880 0.7532 0.4512 0.5920 0.5920 0.5920 0.448 0.4448 0.4448 0.4448 0.3474 0.3342 0.3342 0.3038 |
| 168829 | DISCOUNTED CASH FLOW (\$)608500 224966 162051 1116437 83392 59477 42190 29715 20730 11276 9655 6360 4024 2380 1233 445 |
| | CUM. DISC. CASH FLOV (\$) |

ALEXANDRE AHX FED 1 33-195-24E EDDY CO., NM

BFIT ECONOMICS LOWER CANYON FOLLOWED BY WOLFCAMP

D&C INVESTMENT = \$570,000
FACILITIES = \$38,500
GAS PRICE = \$1.50/MBTU
PRODUCTION TAXES = 8.1%
OPERATING EXPENSE = \$9000/YR
YATES NET INTEREST = 0.8125
DISCOUNT RATE = 10%
LOVER CANYON INITIAL RATE = 37
VOLFCAMP INITIAL RATE = 200 MC
ECONOMIC LIMIT = 30-35 MCFPD

| 70 6 | , | 17 | 16 | 15 | 14 | 13 | 12 | = | 10 | • | 00 | 7 | 0. | v | 4 | ч | N | | 0 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | | | MIT | DISCOUNT RATE LOWER CANYON : WOLFCAMP INIT: ECONOMIC LIMI: |
|--------|--------------|------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------------|---------|---------|---------|---------|---|---------|--------------|-----------------------|---|
| 42 | S (| ? (| 82 | 102 | 128 | 160 | 200 | | 50 | 63 | 79 | 86 | 123 | 154 | 192 | 240 | 300 | 375 | | 10 11 11 11 11 11 11 11 11 11 11 11 11 1 | (MCF/D) | RATE | START | " A E I I I |
| 34 | | 5 | & | 82 | 102 | 128 | 160 | 32 | 04 | 50 | 63 | 79 | 98 | 123 | 154 | 192 | 240 | 300 | | # # # | (MCF/D) | RATE | FINISH | .35 = K |
| 13721 | 17152 | 07710 | 26800 | 33500 | 41874 | 52343 | 65429 | 13173 | 16466 | 20582 | 25728 | 32160 | 40199 | 50249 | 6281 2 | 78514 | 98143 | 122679 | | | (MOF) | PRODUCTION | SH ANNUAL I | 375 MCFP MCFPO, |
| 11149 | 1 30 36 | 17420 | 21775 | 27218 | 34023 | 42529 | 53161 | 10703 | 13378 | 16723 | 20904 | 26130 | 32662 | 40828 | 51034 | 63793 | 79741 | 99677 | | 11 11 11 11 11 11 11 11 11 11 11 11 11 | (MCF) | A PRODUCTION | NET ANNUAL | D, 1.18 MBTU/MCF, |
| 18897 | | | | | | | | | | | | | | | • | | | | | # II | છ | | NET REVENUE OPERATING | /MCF, 20% DECLINE , 20% DECLINE |
| 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 1 | | (\$ | EXPENSES | OPERATING | . Cri NW |
| 1531 | 1017 | 2702 | 2990 | 3737 | 4671 | 5839 | 7299 | 1534 | 1918 | 2398 | 2997 | 3746 | 4683 | 5853 | 7317 | 9146 | 11433 | 14291 | | 10 11 11 11 11 11 11 11 11 11 11 11 11 1 | છ | TAXES | PRODUCTION | |
| 8366 | 12708 | 18175 | 24919 | 33398 | 43998 | 57247 | 73809 | 8409 | 12762 | 18202 | 25003 | 33503 | 44129 | 57411 | 74014 | 94768 | 120710 | 153137 | -608500 | 13 14 14 14 14 14 14 14 14 14 14 14 14 14 | છ | CASH FLOW | UNDISCOUNTED | |
| 0.1715 | | | | | | | | | | | | | | | | | | | | # # # # # | | FACTOR | D18C. | |
| 1435 | 2707 | 1747 | 282 | 8385 | 12151 | 17392 | 24666 | 3091 | 5160 | 8096 | 12233 | 18032 | 26125 | 37388 | 53020 | 74676 | 104629 | 146010 | -608500 | 10 11 11 11 11 11 11 11 11 11 11 11 11 1 | છ | CASH FLOW | DISCOUNTED | |
| -44162 | -/5507 | 1,700 | -51757 | -57445 | -65830 | -77982 | -95373 | -120039 | -123130 | -128291 | -136387 | -148620 | -166652 | -192777 | -230165 | -283185 | -357861 | -462490 | -608500 | 13 10 11 11 10 10 10 | છ | CASH FLOW | CUM. DISC. | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

832962 13721

676782 11149

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