



207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 746-3558

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JAN 6 1978

O. C. C.
ARTESIA, OFFICE

January 4, 1978

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC. TREAS.

*Copy to Bill Gressett
NMCC, Artesia*

Mr. Joe D. Ramey, Secretary-Director
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Downhole Commingling
Manseau EK #1 Com, C-35-17S-25E

Dear Sir:

Yates Petroleum Corporation seeks administrative approval to downhole commingle the Eagle Creek Strawn and the Eagle Creek Permo-Penn as provided for in OCC Order No. R-5460 dated June 14, 1977. In compliance with Rule 2 of this order, the following information is submitted:

- (a) Operator: Yates Petroleum Corporation, 207 S. 4th Artesia, New Mexico
- (b) Lease: Manseau "EK", 660/N 1980/W Sec 35-17S-25E;
- (c) Attached: Lease ownership map showing N/2 dedication, Yates Petroleum Corporation and Western Oil Field are the offset operators.
- (d) Attached: Mechanical log of the well;
- (e) Attached: Diagrammatic sketch of well with two packers, one tubing. To commingle, replace blanking plug with standing valve in lower packer allowing gas from the Strawn and Permo Penn completion to flow into the same tubing.
- (f) Attached: Decline Curve or production history of Permo Penn showing established rate of decline and calculated reserves;
- (g) Formula for allocation of production is based on direct proportion of remaining gas reserves and GOR history. There being no production history on the Strawn, a volumetric reserve of 1150 MMCF is estimated from DST parameters, log data and a recovery factor of 33 percent after Craze and Buckley statistics.

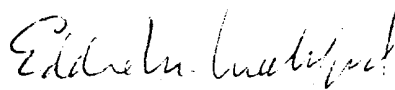
January 4, 1977

- (h) Produced fluids are gas and condensate only and therefore, in compatibility is no problem. However, because of the sensitivity of the Strawn Sands, a standing valve will be installed in the on-off tool on the Strawn packer.
- (i) Well is on a fee lease. Western Oilfield Company is notified of this proposal by copy of this application.

Commingling will enhance the ultimate recovery of hydrocarbons from both zones, thereby conserving a natural resource and will not interfere with the correlative rights of owners since owners of each zone are the same.

Yours very truly,

YATES PETROLEUM CORPORATION



Eddie M. Mahfood
Engineer

EMM/ob

Enclosures

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OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER-		7. Unit Agreement Name
2. Name of Operator Yates Petroleum Corporation		8. Farm or Lease Name Manseau "EK" Com
3. Address of Operator 207 South 4th Street, Artesia, New Mexico 88210		9. Well No. 1
4. Location of Well UNIT LETTER <u>C</u> <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>West</u> LINE, SECTION <u>35</u> TOWNSHIP <u>17S</u> RANGE <u>25E</u> NMPM.		10. Field and Pool, or Wildcat Eagle Creek PermoPenn
15. Elevation (Show whether DF, RT, GR, etc.) 3518 KB		12. County Eddy

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	COMMENCE DRILLING OPNS. ☐
PULL OR ALTER CASING ☐	CASING TEST AND CEMENT JOB ☐
PLUG AND ABANDON ☐	ALTERING CASING ☐
CHANGE PLANS ☐	PLUG AND ABANDONMENT ☐
OTHER <u>Downhole Commingling</u> ☒	OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Propose to downhole commingle the Eagle Creek Strawn and the Eagle Creek Permo-Penn and to apportion the future production as follows:

Eagle Creek-Permo Penn: Gas-15 MMCF = 1.3%; Cond.- 60b. = 1.3%
Eagle Creek-Strawn: Gas-1150 MMCF= 98.7%; Cond. - 4420 b. = 98.7%

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

SIGNED Eddy L. Hays TITLE Engineer DATE January 4, 1978

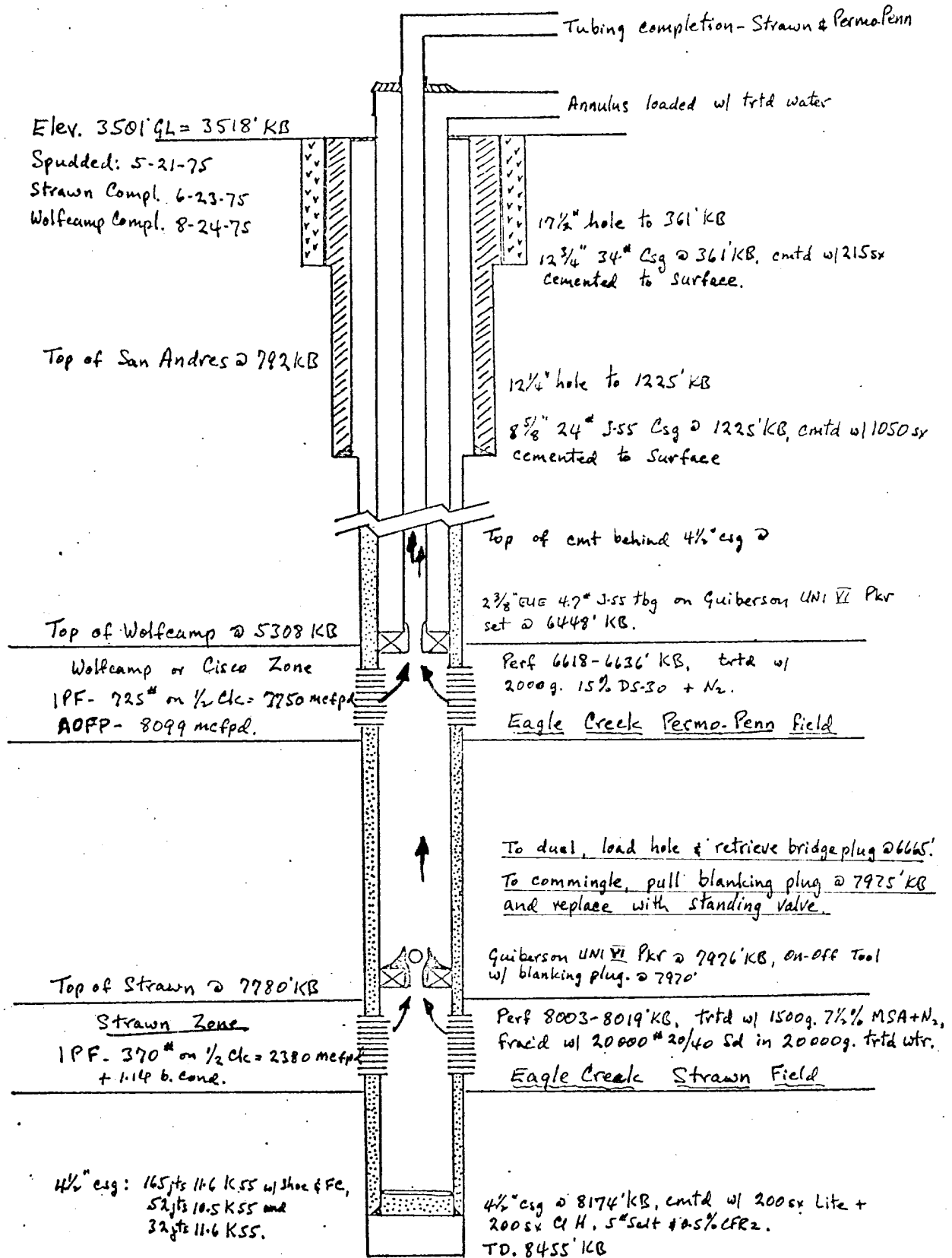
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

[illegible]

Diagrammatic Sketch of Proposed Coning in Dual Completion

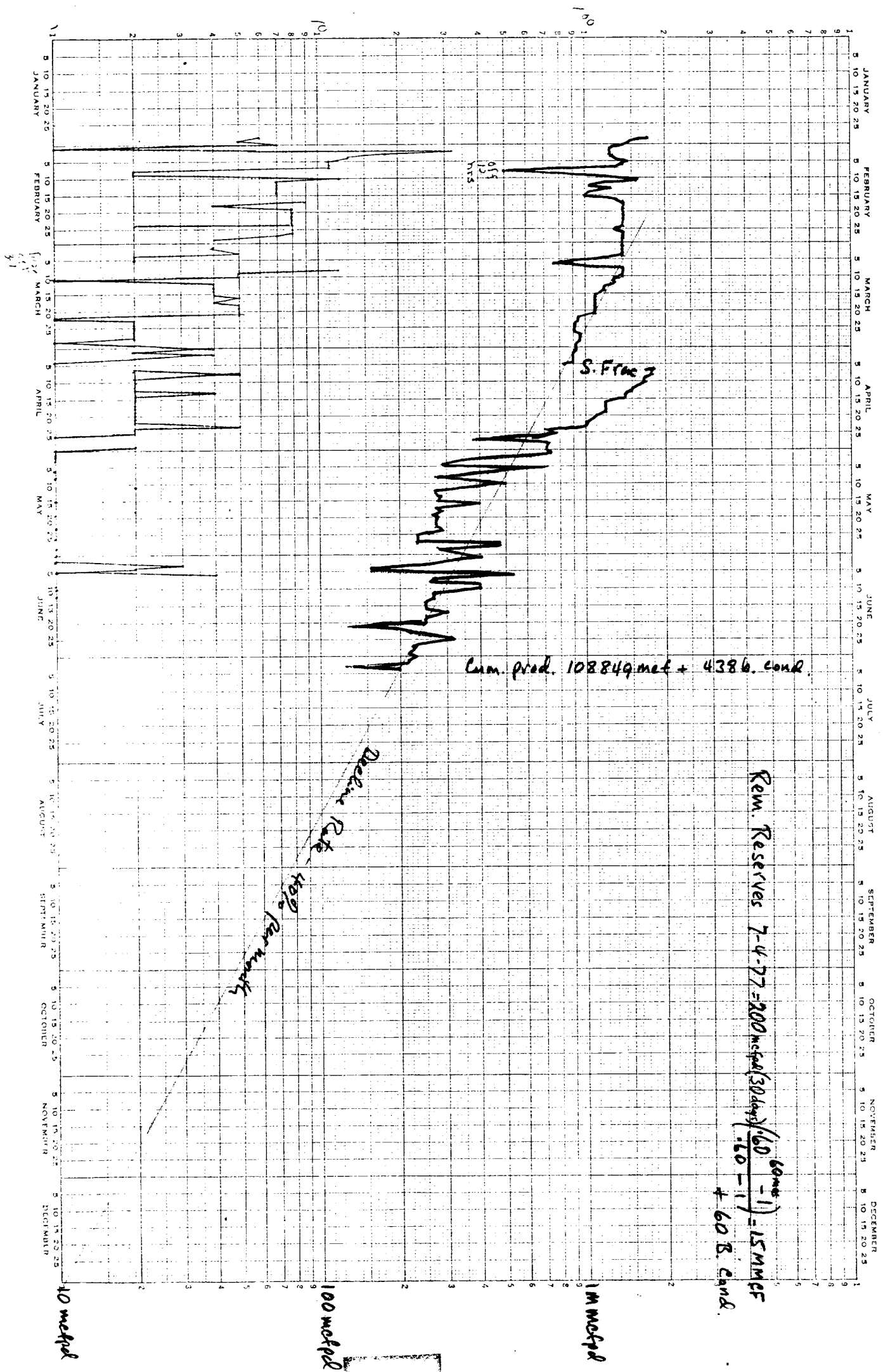
Yates Petroleum Corp - Mansean 'EK' Com. No. 1, C-35-175-25E



Black - Oil
 Red - Gas

MANSEAU EK
 Yates Pet. Corp.
 I C 35-175-25E-Undesignated *Disco*

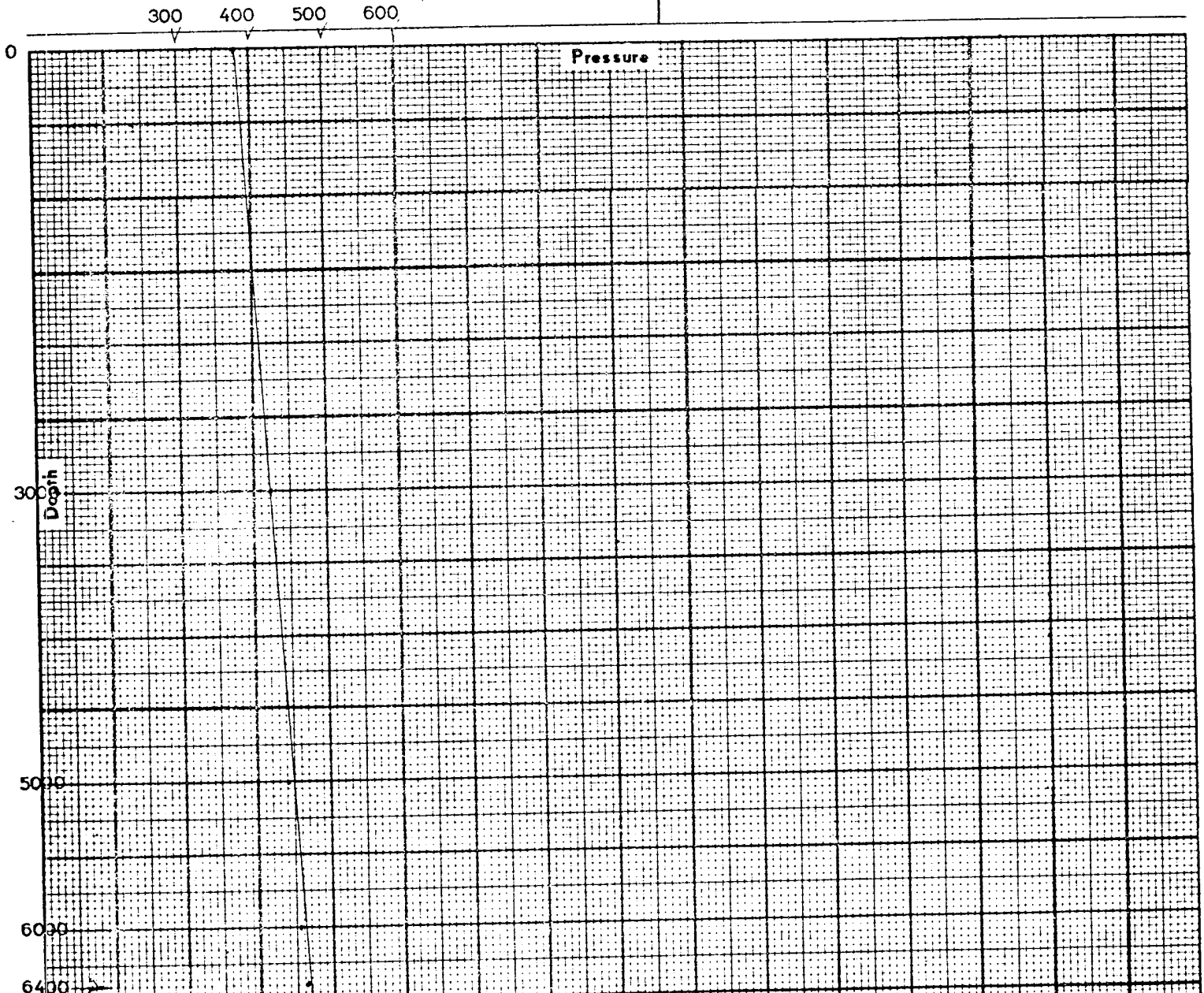
1977



BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORPORATION
LEASE Manseau EK Cm
WELL NO. 1
FIELD _____
DATE 11/1/77 TIME _____
STATUS Shut-in TEST DEPTH 6630 Ft.
TIME S.I. 92 days LAST TEST DATE _____
CAS. PRES. _____ BHP LAST TEST _____
TUB. PRES. 380 Lbs. BHP CHANGE _____
ELEV. _____ FLUID TOP None
DATUM _____ WATER TOP _____
TEMP _____ RUN BY Bennett
CLOCK NO. _____ GAUGE NO. _____
ELEMENT NO. 37882

DEPTH	PRESSURE	GRADIENT
		Lbs./100 Ft
0 Ft.	380 Lbs.	
3000 "	423 "	1.4
5000 "	442 "	1.9
6000 "	455 "	1.3
6400 "	462 "	3.5
6630 "	468 "	2.6



DRILL STEM TESTS

Yates Petroleum Corporation
Mansau "EK" Fee Com #1
660' FNL & 1980' FWL of
Section 35-17S-25E
Eddy County, New Mexico

DST #1 6392-6680' - (Cisco) - TO 30", SI 75", TO 60", SI 120".
OP w/good blow. GTS in 22". Reopened, GTS immediately - 265 MCFPD.
Recovered: - 540' HGCM, 390' DM. Sampler: - 400#, 7.0 cfg and no fluid.
Pressures: HP 3009-2939, IFP 297-402, ISIP 2360, FFP 350-524,
FSIP 2360. *Office readings: HP=2996-2923 IFP=281-413 ISIP=2370* FFP=374-507 FSIP=2370**

DST #2 7939-8028' (^{Strawn}2 choke) - TO 30", SI 75", TO 60", SI 120".
Op w/fair blow, increasing, GTS 22" w/15# on 1/4" choke, 18# in 30".
Re-op, GTS immediately, 47# in 2" on 1/4" choke. Stabilized flow 47# on
1/4" choke. Recovered: - 510' SGCDM. Sampler: - 200#, 1.1 cfg, no fluid.
Pressures: - HP 3713-3713; IFP 105-70; ISIP 2868; FFP 105-110;
FSIP 2868. BHT 140 deg. *Office readings: HP=3771-3748 IFP=212-157 ISIP=3003* FFP=121-170 FSIP=2998**

* Extrapolated pressures.