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NEW MEXICO OIL CONSERVATION COMMISSION

AUG 31 1977

O. C. C.
ARTESIA, OFFICE

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 Gossett "EU" Com
3. Address of Operator 207 South Fourth Street - Artesia, NM 88210	9. Well No. 1
4. Location of Well UNIT LETTER K 1650 FEET FROM THE South LINE AND 1980 FEET FROM THE West LINE, SECTION 26 TOWNSHIP 17S RANGE 25E NMPM.	10. Field and Pool, or Wildcat
15. Elevation (Show whether DF, RT, CR, etc.) 3515' 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 ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☒ Downhole Commingling	CASING TEST AND CEMENT JOBS ☐	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.

This well is presently a dual completion with the Permo-Penn completion in the casing annulus and the Strawn in the tubing. We propose to commingle both zones by opening the sliding sleeve and allowing both zones to flow thru the tubing under the provisions of OCC Order R5460 dated June 14, 1977. We suggest that the commingled production be apportioned as follows:

Eagle Creek Permo Penn - Gas - 37%	and Condensate - 24%
Eagle Creek Strawn - Gas - 63%	and Condensate - 76%

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

SIGNED Eddie L. Luby TITLE Engineer DATE 8-30-77

APPROVED BY W.A. Gossett TITLE SUPERVISOR, DISTRICT DATE SEP 22 1977

CONDITIONS OF APPROVAL, IF ANY:

Gossett EU #1

Eagle Creek Perm Perm

Original BHP = 2286 psia BHT = 128°F $P_e = 673.5$ $T_e = 382.5$

Present BHP = 2008 psia $P_{R_0} = 3.39$ $P_{R_1} = 2.98$ $T_R = 1.537$ $Z_0 = .788$

$Z_1 = .795$

Cumulative Production = 61267 mcf

Abandonment pressure allowed by commingling = 93 psia, $Z_u = .987$

Then Recoverable Reserves at 8-1-77 =

$$\frac{P_i/Z_1 - P_u/Z_u}{P_0/Z_0 - P_i/Z_1} \times 61267 \text{ mcf} = \frac{\frac{2008}{.795} - \frac{93}{.987}}{\frac{2286}{.788} - \frac{2008}{.795}} \times 61267 = \frac{2525.8 - 94.2}{2901.0 - 2525.2} \times 61267 = \underline{397060 \text{ mcf}}$$

Eagle Creek Strawn

BHP = 2380 psia BHT = 132°F $P_e = 675$ $P_R = 4.22$ $T_e = 366$ $T_R = 1.617$ $Z = .829$

$K_{gh} = \frac{450 \text{ Bg} \mu_g T Z \text{ b}^2}{5.615 (203) \frac{2286 - 25}{.5 (2280 + 25)}} = 14.82 \text{ md ft}$, $h = 11 \text{ ft}$, $k = 1.347$, $\beta_g = .009888$

Viscosity = 0.019 cp, saturation $S_w = 20\%$ $\phi = 9.3\%$

Most Probable Recovery Factor (after Craig & Buckley Statistics):

$$R.F. = 0.11403 + .2719 \log K_e + .25569 S_w - .1355 \mu - .1538 \phi - .00035 h$$

$$= 0.11403 + .03518 + .05114 + .23323 - .14303 - .00385$$

$$= 0.28670$$

Then most probable recoverable reserves =

$$43560 \text{ ft}^3/\text{ac} \times 320 \text{ ac} \times 11 \text{ ft} \times 0.093 \phi \times 0.80 S_g \times 0.2867 \text{ RF} \times \frac{2280}{15.025} \times \frac{520}{592} \times \frac{1}{.829} = 664257 \text{ mcf}$$

We propose to commingle the Eagle Creek Perm Perm with the Eagle Creek Strawn and to apportion production as follows:

Gas: Eagle Creek Perm Perm = 397060 mcf = ~~39.4%~~ 37%

Eagle Creek Strawn = 664257 mcf = ~~62.6%~~ 63%

Total = 1061317

Condensate:

Perm Perm = 397060 / 310 mcf/b = 1280.8 = ~~23.8%~~ 24%

Strawn = 664257 / 162 mcf/b = 4100.3 = ~~76.2%~~ 76%

Total = 5381.1

Commingling will conserve lease fuel, release excess facility, allow greater ultimate recovery thereby conserving a natural resource.

Edm.
8-17-77

DIAGRAMMATIC SKETCH OF COMPLETION

YATES PETROLEUM CORP.
Gossett "EU" No. 1
1960' FWL 1650' FSL Sec. 26-17S-25E
Eddy County, New Mexico

Spudded: 9-18-75
TD reached: 10-12-75
Strawn Compl. 12-5-75
U. Penn. Compl. 12-16-75

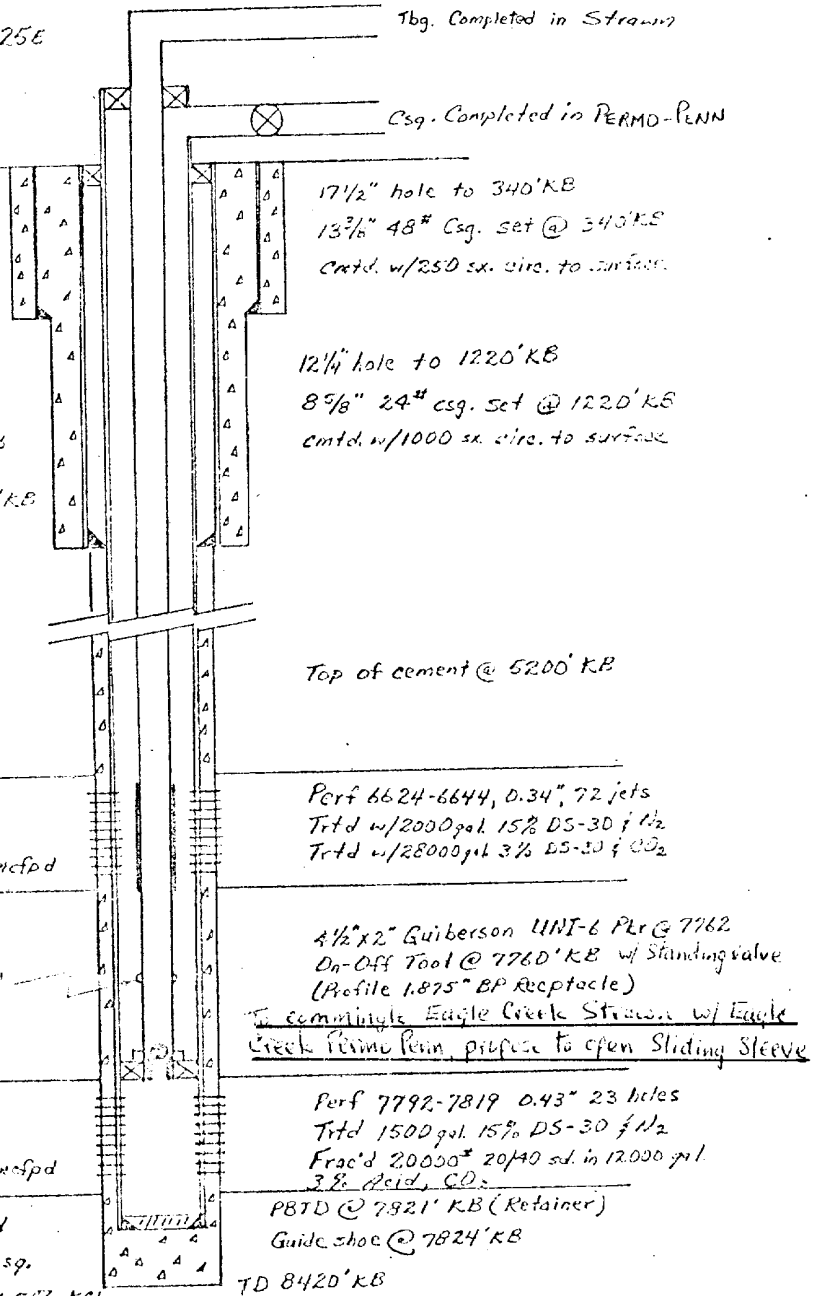
Top San Andres @ 792' KB
Base Artesian Zone @ 1114' KB

Top of Penn @ 6535' KB
PERMO-PENN GAS ZONE
Flowed 2070 mcfpd

Sliding sleeve @ 7691'

Top of Strawn @ 7515' KB
STRAWN GAS ZONE
Flowed 450 mcfpd

1113' of 4 1/2" 11.6" K-55 LT f C and
6694' of 4 1/2" 10.5" K-55 LT f C csq.
Cmtd w/310 sx H-Lite + 0.5% CFR-2 + 5% KCl
and 300 sx Cl H + 0.5% CFR-2 + 5% KCl



PBTD @ 7921' KB (Retainer)
Guide shoe @ 7824' KB
TD 8420' KB

Schlumberger COMPENSATED NEUTRON FORMATION DENSITY

WELL GOSSETT "EU" #1

FIELD UNDESIGNATED

COUNTY EDDY STATE NEW MEXICO

COMPANY YATES Petroleum Corp.

LOCATION 1650 FSL & 1980 FWC

DATE 8-6 TIME 17-5 RANGE 25 E

Other Services: DLC/Rxo

Instrument Datum: G.L. Elev: 3478

Log Measured from: K.B. Elev: K.B. 3515

Drilling Measured From: K.B. D.F. —

Log Interval: 0 G.I. 3478

Filter: 85/8 @ 1220

Fluid in Hole: 7 1/8

Fluid Loss: 5.8 @ 33

Core Sample: PIT

Moist Temp: 165 @ 77 F

Moist Temp: 129 @ 75 F

Moist Temp: 249 @ 77 F

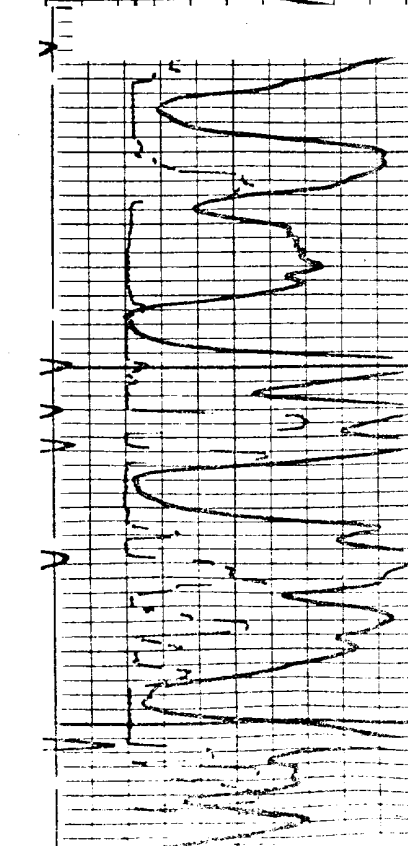
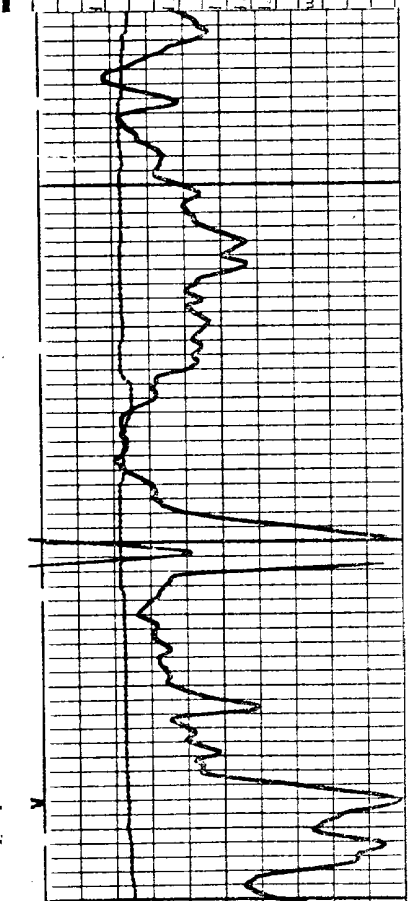
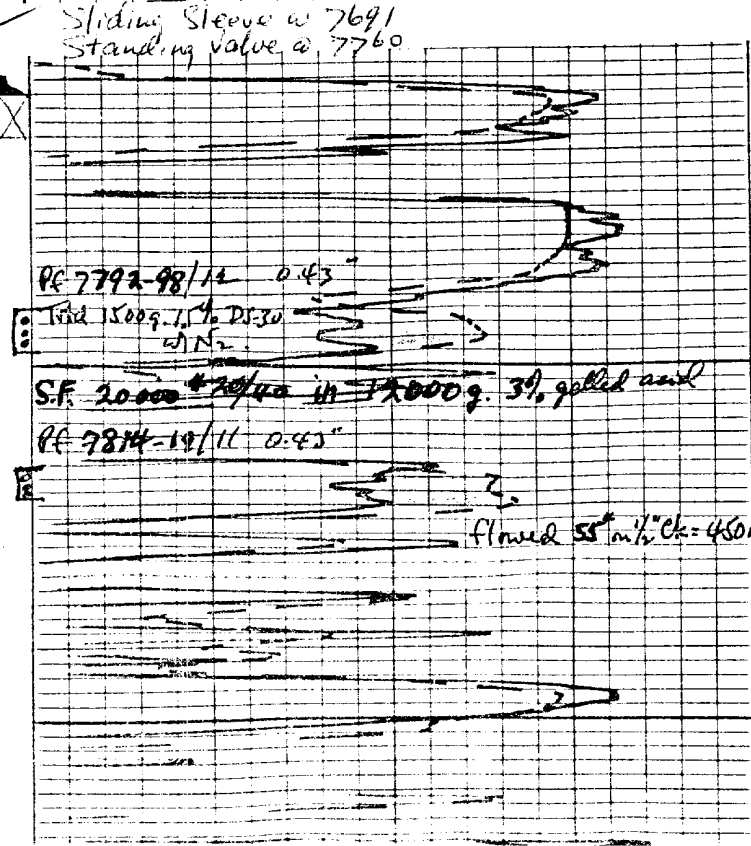
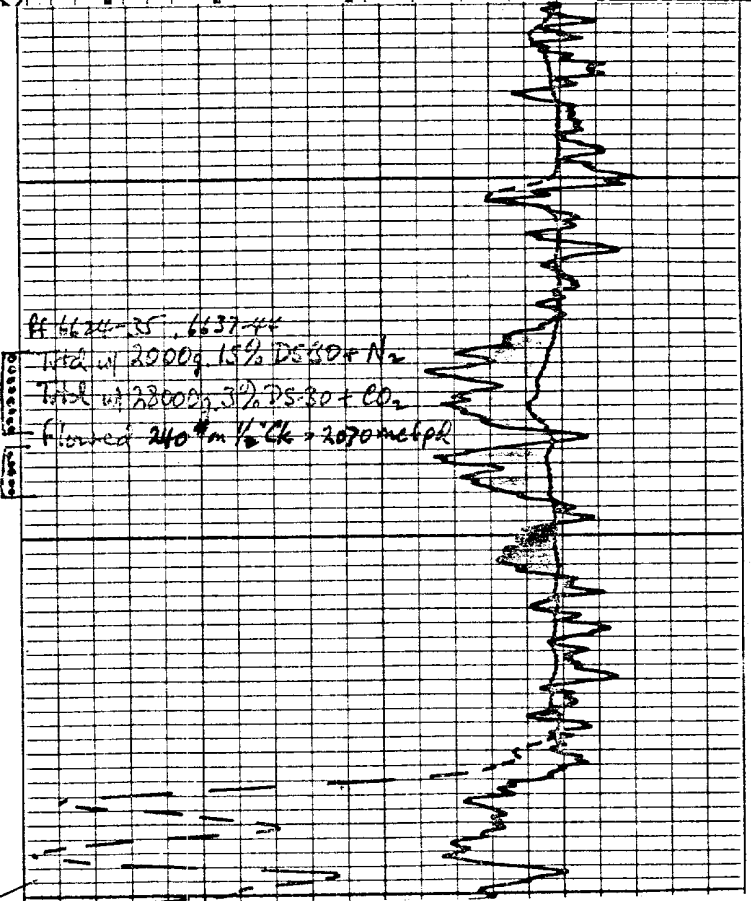
Moist Temp: 097 @ 131 F

Core Temp: 131 F

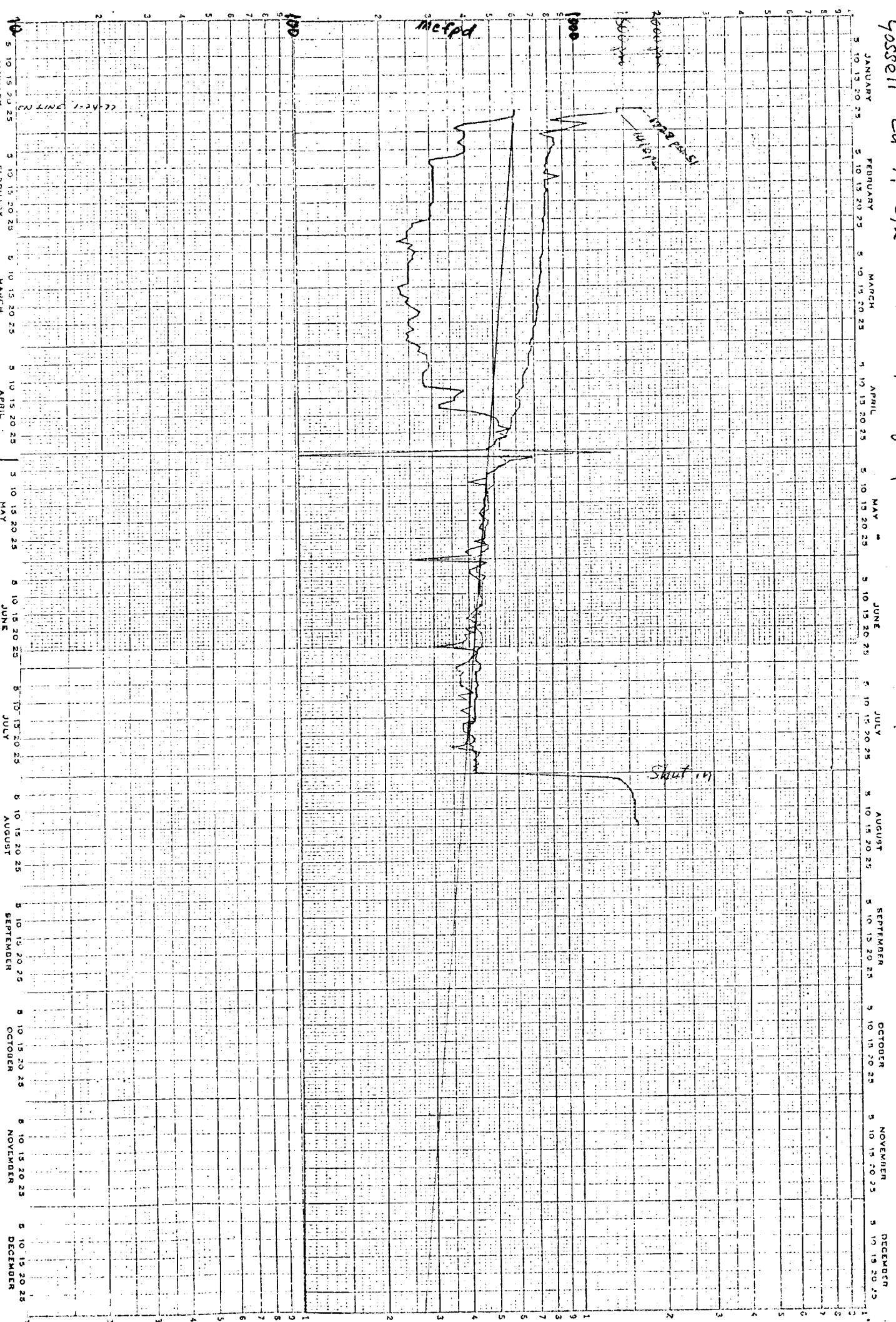
Core Location: 7732 Ho085

Recorded By: KEMPER

Book: DOCK



Gossett "EU" #1, S/2 26-195-25E, Wellcamp



1977 - 60 Day Gas Sales