

SHELL OIL COMPANY

**PETROLEUM BUILDING
P.O. BOX 1509
MIDLAND, TEXAS 79702**

April 20, 1979

Subject: Application to Downhole Commingle
Shell Rinewalt Well No. 4,
Unit Letter C, Located 760' FNL
and 1980' FWL Section 4, T-22-S,
R-37-E, Lea County, New Mexico
Drinkard Field

State of New Mexico (3)
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

RECEIVED
APR 23 1979
OIL CONSERVATION DIVISION
SANTA FE

Attention Mr. J. D. Ramey, Secretary-Director

Gentlemen:

Shell Oil Company requests administrative approval under the provisions of Rule 303-C to commingle within the wellbore production from the Tubb and Drinkard pools in its Rinewalt Well No. 4, located in Unit C of Section 4, T-22-S, R-37-E, Lea County, New Mexico.

The subject well has been flowing from the Drinkard zone at a rate of 2 BOPD + 0 BWPD + 34 MCFGPD with a GOR of 17,000 CF/B. The Tubb zone was recently reclassified as an oil zone (effective March 1, 1979) showing a test of 1 BOPD + 1 BWPD + 210 MCFGPD, GOR 210,000 CF/B.

Production from the Tubb and Drinkard formations have been surface commingled at the Rinewalt Battery without any indication of fluid incompatibility. Since the crudes are commingled at the Battery before being sold, no difference in value will result by commingling within the wellbore of the subject well.

The static BHP for the Tubb was 403 PSIG, and the Drinkard is 376 PSIG.

GOR
2900 --- Tubh - 180 33% 210 mcf 26%
6000 --- Dr - $\frac{280}{3}$ 67% $\frac{34}{244}$ mcf 14%

Bottom of 6600' - - max 40 BOPD

A copy of this application is being sent to all offset operators. Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,

for 

W. T. Weller, Jr.
Operations Manager-Midland
Mid-Continent Division

JWH:JAH

Attachments

cc - Offset Operators

- State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

GAS-OIL RATIO TESTS

Down Hole Commingle Permittion Revised 1-1-63

C-116

Operator		Pool		County											
Shell Oil Company		Tubb - Drinkard		Lea											
Address				TYPE OF TEST - (X)		Schedulred ☐		Completion ☐		Special ☒					
P. O. Box 576, Houston, TX 77001															
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BBL
		U	S	T	R						WATER BBL.S	GRAV. OIL	OIL BBL.S	GAS M.C.F.	
Renewalt (Tubb)	4	C	4	22	37	3-04-79	F 3 1/2 / 64	90		24	1	44.2	1	210	210,000
Renewalt (Drinkard)	4	C	4	22	37	3-05-79	F 36 / 64	40		24	0	37.0	2	34	17,000

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

A. Ramirez
 A. Ramirez
 Supervisor Oil Accounting

4-5-79 (Title)

SHELL OIL COMPANY
SUBSURFACE PRESSURE SURVEY

Company Shell Oil Company
 Use Personal Well No. 147
 Address 2000 Oxford State New Mexico
 Date 2/28/19

ducing Formation
vation (CHF, DF, KB, etc.)
turn - 5/11/67 subsea, or
bing Obstruction at
duction Packer at
forations

Instrument Data

Company Running Survey
ment—Range & No.
ck — Range & No.
ibration Date

tic Pressure Data

Depth	6360	ft
Pressure at Datum (6360)	376	psig
Pressure in Time	47.5	hrs
Pressure at Datum	—	psig
Pressure in Tubing Pressure	314	psig
Pressure in Casing Pressure	—	psig
Volume of Oil	—	
Volume of Water	—	
Temperature at _____ feet	—	°F
Time of Last Test	11/11/1961	
Pressure @ Datum, Last Test	—	psig
Pressure in Time, Last Test	—	

w Test Data

Test Date	_____	_____
Wellbore Size	_____	in
Period of Stabilized Flow	_____	hrs
Stabilized Production (q)	_____	
Oil	_____	bbls/day
Gas	_____	MCF/day
Water	_____	bbls/day
Wellbore Tubing Pressure	_____	psig
Wellbore Casing Pressure	_____	psig
Cumulative Production (Q)	_____	
Oil	_____	bbls
Gas	_____	MCF
Water	_____	bbls
Est. Prod' Life, $t = 24 Q/q$	_____	hrs

marks:

SURVEYOR

D. O. Lock

[illegible]

SHELL OIL COMPANY
SUBSURFACE PRESSURE SURVEY

Company Shell Oil Company
 Lease Lease 11 Well No. 111
 Field Krenkard State Arkansas
 Date 3/28/29

Producing Formation
 Variation (CHF, DF, KB, etc.)
 Datum _____ subsea, or
 Basing Obstruction at
 Production Packer at
 perforations

Instrument Data

Company Running Survey
 Segment—Range & No.
 Block — Range & No.
 Libration Date

Static Pressure Data

St Depth	6200	ft
Pressure at Datum (6.712)	46.3	psig
Time-in Time	48.5	hrs
Pressure at Datum	—	psig
Pressure-in Tubing Pressure	257	psig
Pressure-in Casing Pressure	—	psig
Viscosity of Oil	—	
Viscosity of Water	—	
Temperature at _____ feet	—	°F
Time of Last Test	—	
Pressure @ Datum, Last Test	46.3	psig
Time-in Time, Last Test	—	

How Test Data

Test Date	_____	_____
Wellbore Size	_____	in
Period of Stabilized Flow	_____	hrs
Stabilized Production (q)	_____	
Oil	_____	bbls/day
Gas	_____	MCF/day
Water	_____	bbls/day
Flowing Tubing Pressure	_____	psig
Flowing Casing Pressure	_____	psig
Cumulative Production (Q)	_____	
Oil	_____	bbls
Gas	_____	MCF
Water	_____	bbls
Estimated Prod' Life, $t = 24 Q/q$	_____	hrs

marks:

[illegible]

Shell Rinewalt No. 4
 Drinkard Field
 Drinkard & Tubb Pools
 Lea County, New Mexico
 Present Downhole Equipment

Elev: DF= 3462'

TD= 7957'

PBTD= 6610'

13 ³/₈" 32# csq. @ 293' cmt'd
 w/ 350 sx.

8 ⁵/₈" 32# csq. @ 2301' cmt'd
 w/ 1300 sx.

Tubb Perforations
 6008'-6221'

Packer @ 6335'

Drinkard Perforations
 6360'-6600'

PBTD @ 6610' (sand)

CIBP @ 6690'

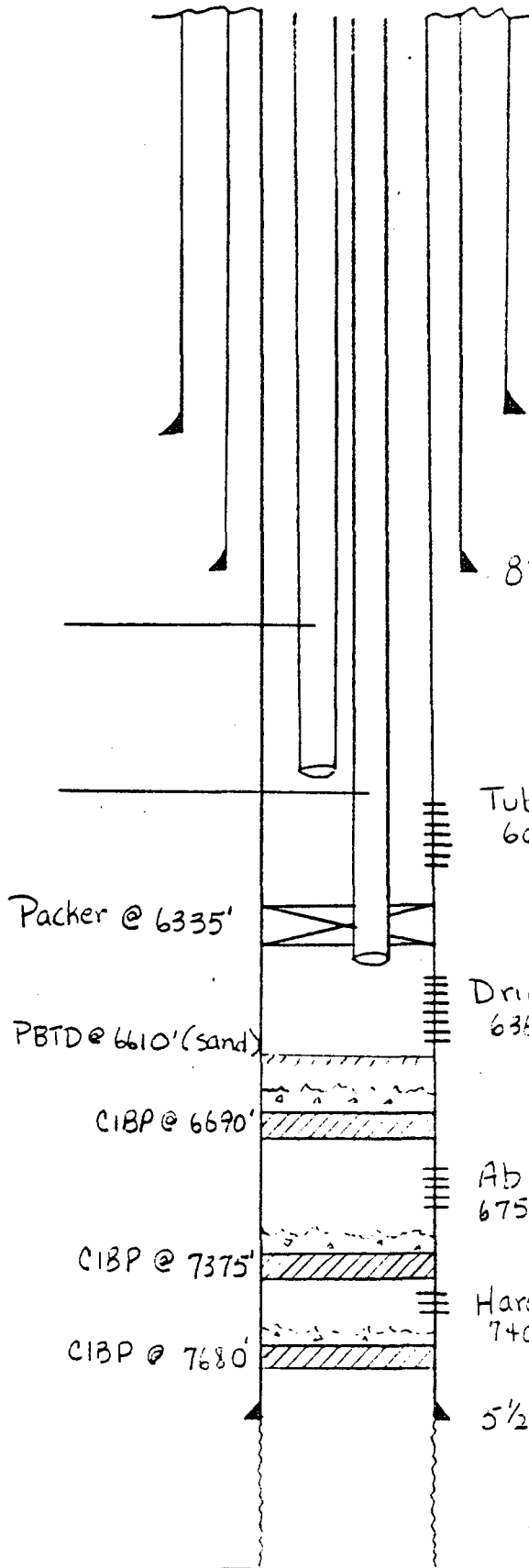
Abo Perforations
 6759'-7084'

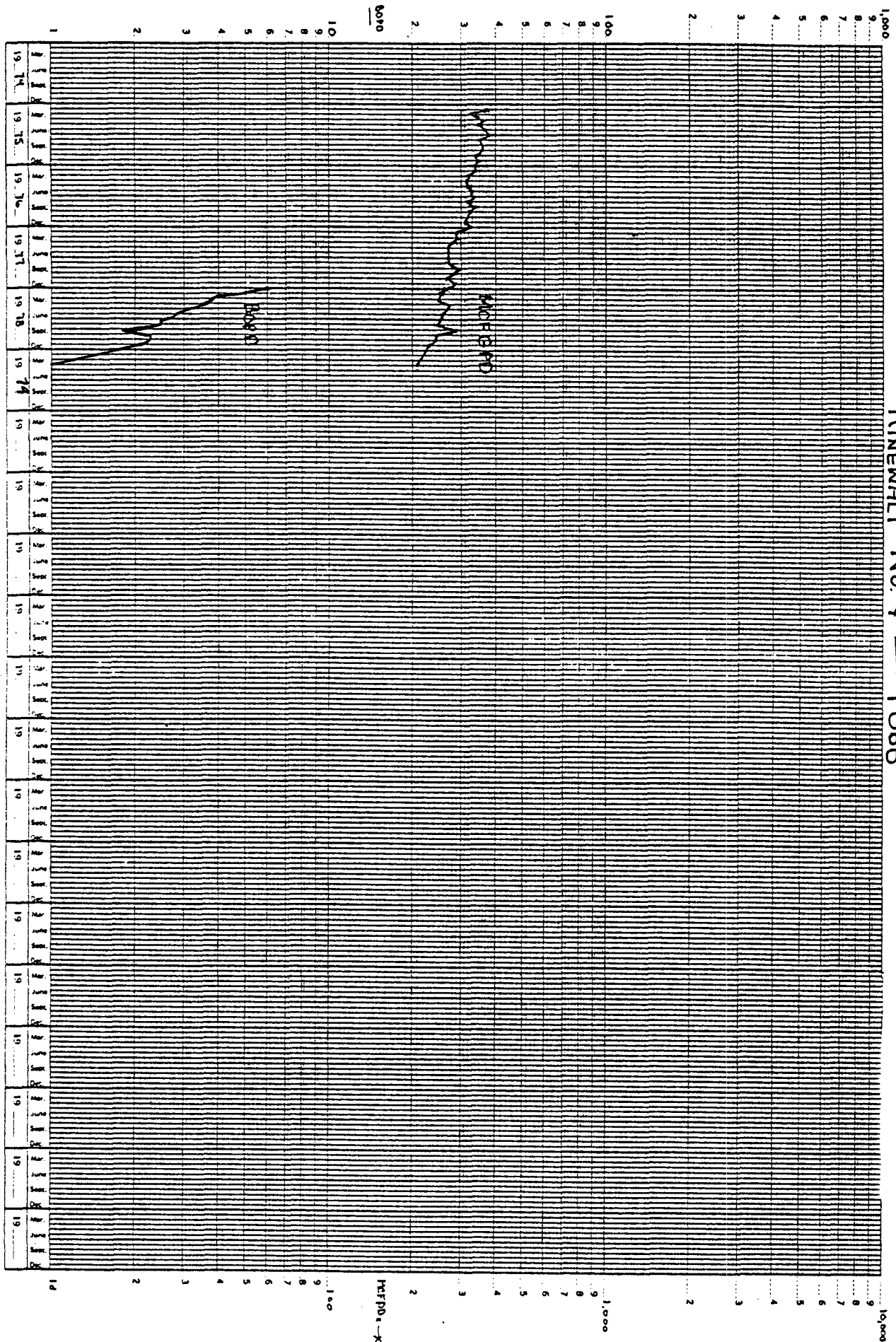
CIBP @ 7375'

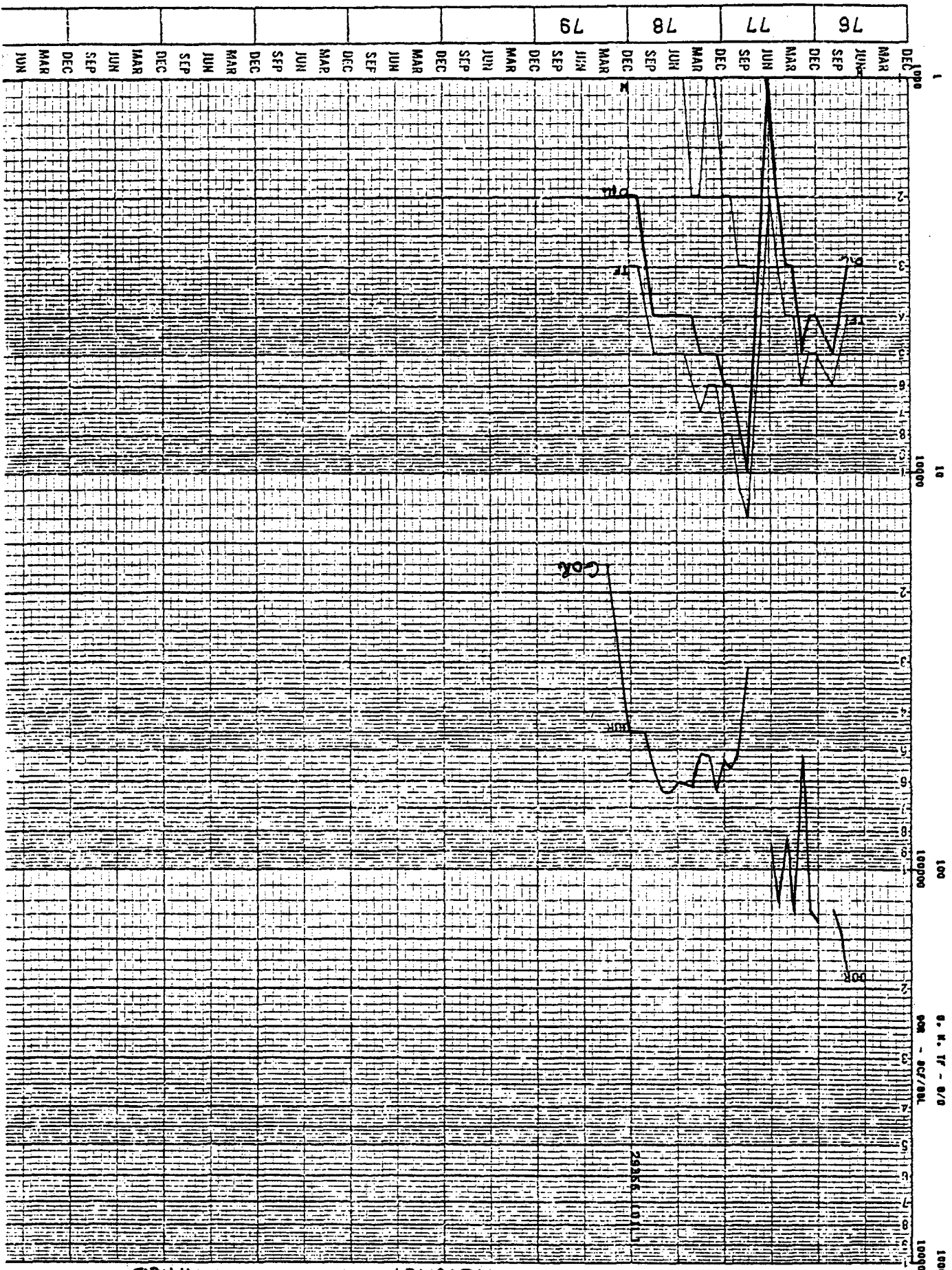
Hare Perforations
 7402'-7434'

CIBP @ 7680'

5 ¹/₂" 15# csq. @ 7750' cmt'd
 w/ 600 sx.







RINEMALT #4 - DRINKARD

OFFSET OPERATORS

RINEWALT LEASE
LEA COUNTY, NEW MEXICO

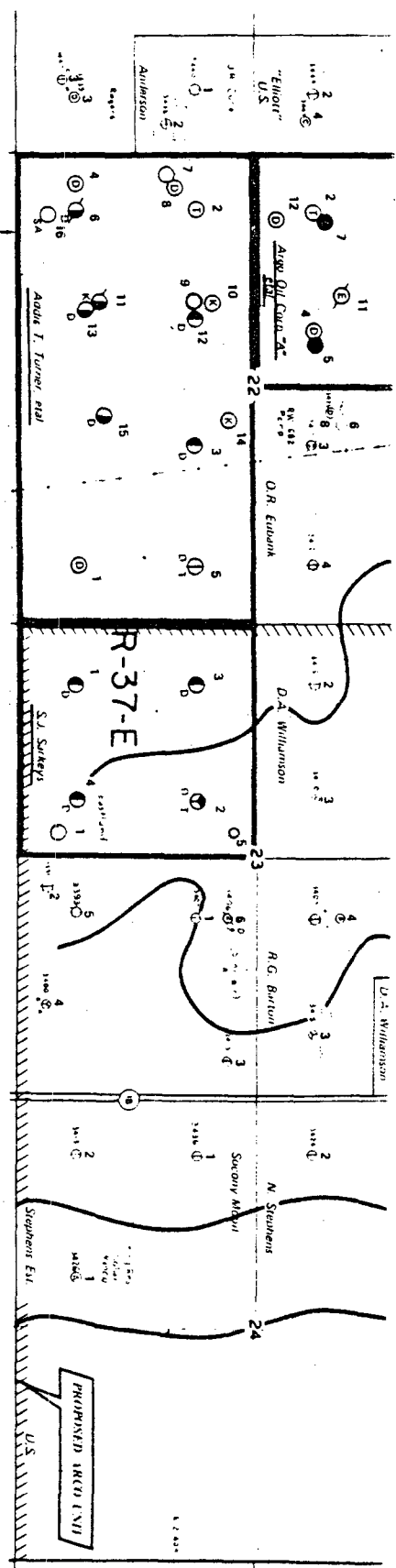
AMERADA HESS CORPORATION
SEMINOLE, TX 79360

ATLANTIC RICHFIELD COMPANY
P. O. BOX 1610
MIDLAND, TX 79702

GULF OIL E&P COMPANY
P. O. BOX 1150
MIDLAND, TX 79702

SKELLY OIL COMPANY
P. O. BOX 1351
MIDLAND, TX 79702

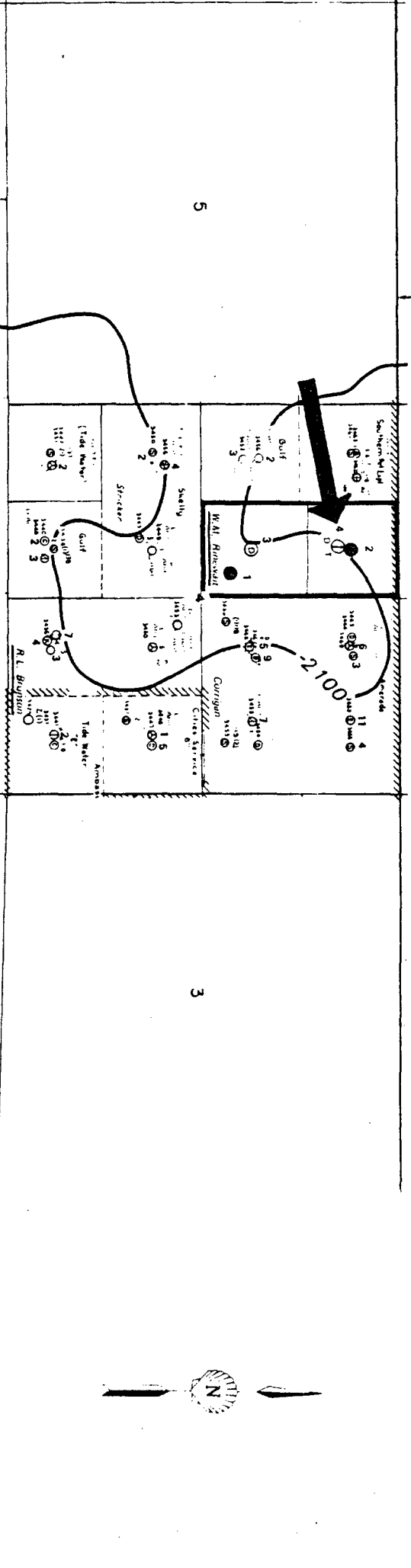
WISER OIL COMPANY
110 GIHLS TOWER EAST
MIDLAND, TX 79701



2 MILES

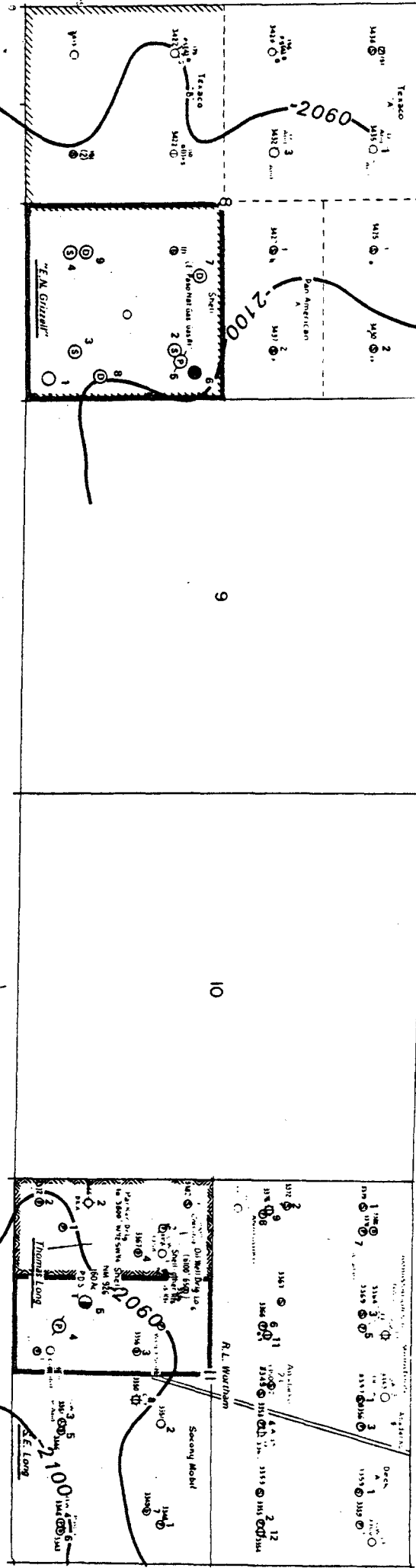
2 MILES

PROPOSED RECONSTRUCTION



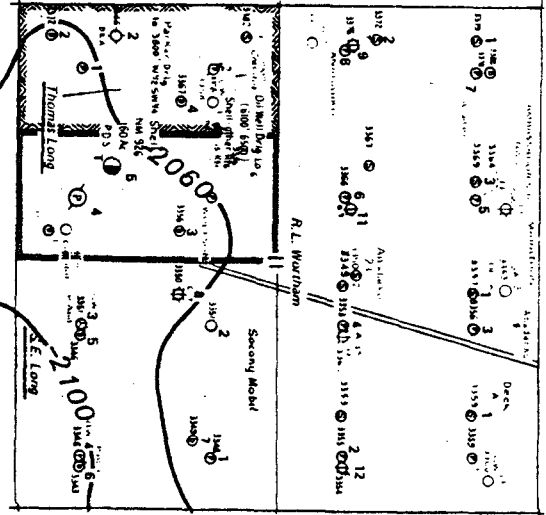
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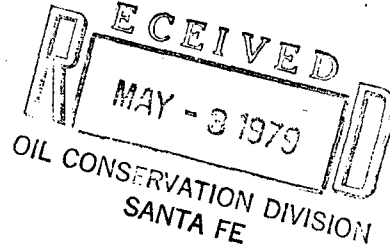
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OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE April 26, 1979



RE: Proposed MC _____
Proposed DHC _____ X
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated _____
for the Shell Oil Co. Rinewalt No. 4-C 4-22-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

A handwritten signature in cursive script, likely of the person who signed the letter.