

Don

Getty Oil Company | P.O. Box 730, Hobbs, New Mexico 88240 (505) 397-3571

Central Exploration and Production Division

August 31, 1984

Energy & Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

ATTENTION: MR. JOE D. RAMEY

RE: APPLICATION FOR STATEWIDE
RULE NO. 303-C - DOWNHOLE
COMMINGLE PRODUCTION TUBB-
DRINKARD AND FUSSELMAN
A.B. COATES "D" NO. 2, UNIT
N, SECTION 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

Gentlemen:

Getty Oil Company respectfully requests administrative approval to downhole commingle Tubb-Drinkard and the Fusselman production in A.B. Coates "D" No. 2 which is located 660' FSL and 1650' FWL Unit K, Section 24, T-25S, R-37E, in Lea County, New Mexico.

The Justis Tubb-Drinkard, which is perforated 5870-5935', last tested on 8/20/84 5 BO, 78 BW and 442 MCF in 24 hours. The Justis Fusselman Zone, which is perforated 6656-6678', last tested on 9/1/82 4 BO, 0 BW and 10 MCF in 24 hours. The Fusselman interval was shut in (October, 1982) due to the well's inability to flow.

The following facts are submitted in support of the above request which is an extension of Statewide Rule 303, Paragraph "C".

1. Both zones are classified as oil zones and both zones require artificial lift to produce.
2. Total oil production from both zones is expected to be less than the 40 BOPD which is the maximum allowable for this depth bracket.
3. Sufficient artificial lift equipment exist on the well to lift the commingled production.
4. The fluids from each zone are compatible with fluids from each other. The zones are multiply completed in various combinations in this and other wells on the lease and no fluid incompatibility between the fluids has been found.

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5. The total value of crude will be increased by commingling in that the Fusselman Zone will be returned to production from a shut-in status.
6. Ownership of both zones is common, including working and royalty interest.
7. Commingling will not jeopardize future secondary recovery operations, as no secondary operations are being conducted at the present time.
8. Attached are decline curves for each of the zones, along with current productivity tests (C-116) for the Tubb-Drinkard and Fusselman Zones.
9. The BHP of the zones are low. The Fusselman is shut-in below a packer with an estimated BHP of 370.5 psia and the Drinkard BHP was measured at 328.2 psia. (See Exhibits I and II)
10. The produced water from these and all other zones on the lease are handled through one system. There have been no incompatibility problems. The zones have been in communication when these and other wells were pulled and no detrimental effects have ever been found on this eight multi-zone lease.
11. The price of the Fusselman oil will be reduced 27.9 cents per barrel. Production will increase 4 BO or \$120 per day, the expected production from the NIO Fusselman Zone.
12. All offset operators and the Bureau of Land Management have been furnished copies of this request.

Certain economic considerations make the request for downhole commingling the only viable solution to recover the remaining Fusselman reserves. The DHC will ultimately reduce the excessive corrosion problems encountered in dual completions and thus reduce the operating expense.

Very truly yours,

GETTY OIL COMPANY



Dale R. Crockett
Area Superintendent

Jim
JIM/cb

Enc.

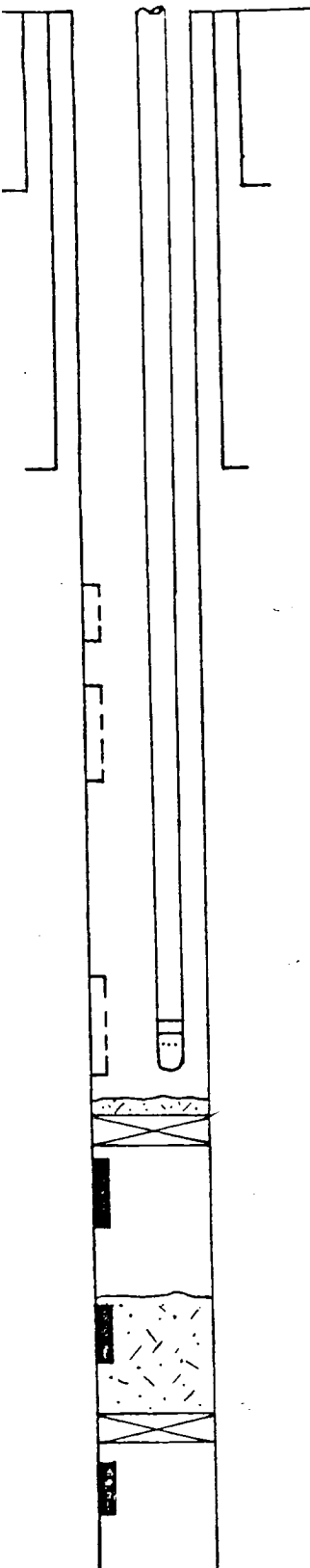
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WELL DIAGRAM
A.B. COATES "D" NO. 2

PROPOSED



13 3/8" csg. set @ 538' w/550 sx
cement circ.

9 5/8" csg set @ 3315' w/1500 sx DV @ 857'
no circ.- first stage; circ.- second stage

Tubb 5779-5819' selectively 12 holes (1-24-71) 5000
gal. acid

Drinkard @ 5870-5936' 4 spf (8-24-58)
Fraced 1000 gal. acid 20,000 gal. oil and
20,000 bls sand (8-24-58)

Propose that 2 3/8" tbg set @ ± 6670'

Fusselman
Silurian 6656,57,58,62,63,64,66,73,74,75,76,77,78
(1-29-71) 1500 gal. acid

CIBP @ 5710' cement to 6700'

Fusselman 6730-32', 6740.5', 6751-57', 6760-75'
(12-2-68)
Dec. 2, 1968 squeezed and drilled out to 6790'

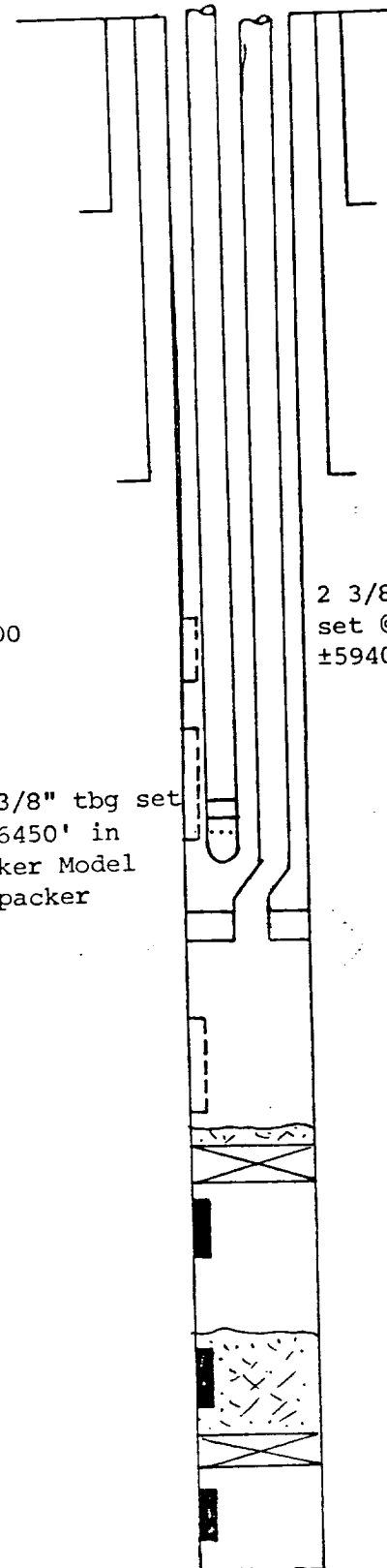
Fusselman 6822-6839' & 6842-49' (8-24-64)

CIBP @ 6935' w/cmt to 6928'

Fusselman 6862-6904' and 6940-70' (8-24-58)

7" 23#/ft N-80 & J-55 set @ 7005' w/800 sx
DV tool @ 5095' cement top by temp survey 40'
from surface

PRESENT



2 3/8"
set @
±5940'

2 3/8" tbg set
@ 6450' in
Baker Model
D packer

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EXHIBIT I
A.B. COATES "D" NO. 2
BOTTOM HOLE PRESSURE DETERMINATION

DRINKARD

The measured BHP in A.B. Coates "C" No. 18 (Drinkard) was 315.2 psia at 5871' the midpoint of the perforations. The established gradient is .406 psi/ft. Thus, correcting this BHP to the midpoint of the perforations (5903'), and using this same gradient in A.B. Coates "D" no. 2, the calculated BHP is as follows:

$$\text{BHP} = 315.2 \text{ psi} + 32' (.406) = 328.2 \text{ psia}$$

FUSSELMAN

The calculated BHP in A.B. Coates "C" No. 10 (Fusselman) was calculated from the following data after being shut-in for (4) days

TP 300#

Fluid Level 194' above the midpoint of perfs

Midpoint of perfs 6726'

Fluid gradient .4274 psi/ft

$$\text{BHP} = [(300 \text{ psi} + 194 (.4274)] + 13.2 = 396.1 \text{ psia}$$

Midpoint of the Fusselman perfs in A.B. Coates "D" No. 2 is 6667' which is 60' shallower than Well No. 10, therefore, the corrected BHP is as follows:

$$\text{BHP} = 396.1 \text{ psia} - 60 (.4274) = 370.5 \text{ psia}$$



BENNETT-CATHEY WIRE LINE SERVICE

P.O. #737
ARTESIA, NEW MEXICO 88210
Phone (505) 746-3281



BOTTOM HOLE PRESSURE SURVEY REPORT

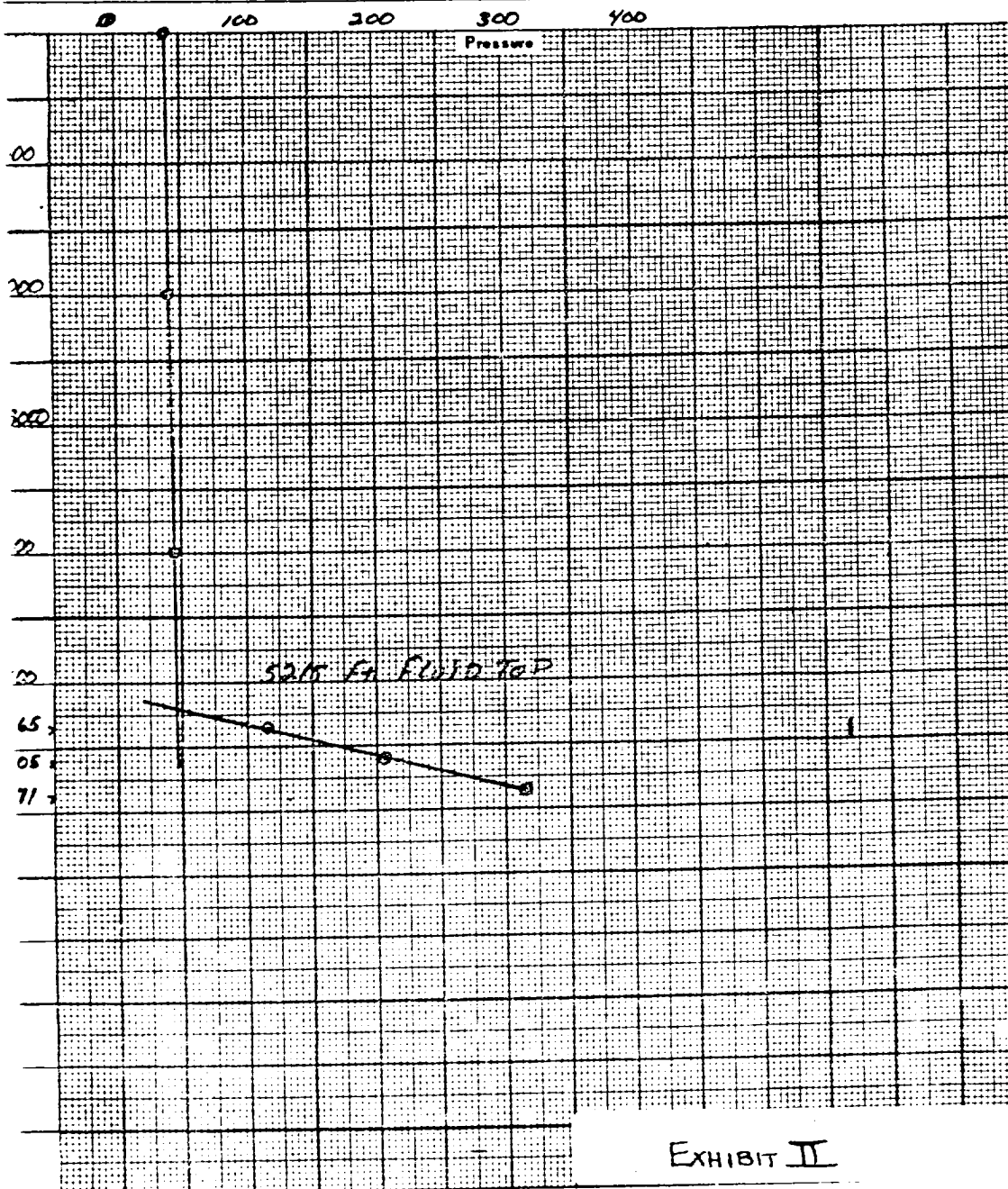
OPERATOR GETTY OIL COMPANY
LEASE S.E. COATS "C"
WELL NO. #18
POOL FORMATION TUBBS-BRINARD
DATE 8-17-84 TIME 0919 HOUR
CO. MAN JIM PICKAS
STATUS SHUT IN TEST DEPTH 5871 FEET
TIME S.I. 0800 HOUR LAST TEST DATE 1ST TEST
8-24-84 BHP LAST TEST
TUB. PRES. 33.2* BHP CHANGE
CAS. PRES. FLUID TOP 5215 FEET
DATUM PLANE WATER TOP
DATUM PSIA 315.2* RUN BY DAVID SPENCER
TEMP 107° CLOCK # B-3443
PRESSURE RANGE 5150 LBS.
ELEMENT NO. RPG3#22749

DEPTH	PSIA	LB5/100 FT.
	PRESSURE	GRADIENT
0	39.2	
2000	41.2	.2
4000	44.2	.2
5365	116.2	5.3
5605	207.2	37.9
5871	315.2	40.6

TIME B.H.P. MEASURED 0919 HOUR.

LENGTH OF TIME WELL SHUT IN 73 HR 19 MIN.

PERFORATIONS FROM 5274 TO 5840 FEET.



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NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-113
Revised 1-1-83

Getty Oil Company		Pool		County		Lea									
P.O. Box 730, Hobbs, New Mexico 88240		Justis Tubb-Drinkard		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	VOLUME OF TEST MOVS	PROD. DURING TEST			GAS - OIL RATIO		
		U	S	T						R	WATER OILS.	GRAV. OIL		OIL SOLS.	GAS M.C.F.
A.B. Coates "D"	2	N	24	25S	37E	7/4/84	P	-	3	24	78	35.1	5	442	88,400
APPLICATION FOR DOWNHOLE COMMINGLING.															

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

Dan G. Steiner
Dale R. Criggett, Chairman, AREA Supt.
August 31, 1984

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During gas-oil ratio tests, 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 allowable 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.
Well original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 161 and appropriate pool rules.

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NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-113
Revised 1-1-83

Getty Oil Company		Pool		Justis Fusselman		County		Lea							
P.O. Box 730, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		SCHEDULED		COMPLETION		SECTION (XX)							
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS-OIL RATIO CU.F.T/BB-	
		U	S	T						R	WATER DLS.	GRAV. OIL	OIL DLS.		GAS M.C.F.
A.B. Coates "D"	2	N	24	25S	37E	9/1/82	F	-	NA	24	0	36.9	4	10	250
APPLICATION FOR DOWNHOLE COMMINGLING															

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

Donald R. Crockett
Donald R. Crockett, Supervisor, Area Supt.
August 31, 1984

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 allowable 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 0.830.
Report casing pressure in lieu of tubing pressure for any well producing through casing.
Well operator and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 361 and appropriate pool rules.

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COPIES TO:

U. S. Geological Survey
Carlsbad Resource Area
P. O. Box 1778
Carlsbad, New Mexico 88220

Amerada-Hess
Drawer "D"
Monument, New Mexico 88265

Atlantic Richfield
P. O. Box 1710
Hobbs, New Mexico 88240

W. K. Byrom
P. O. Box 147
Hobbs, New Mexico 88240

Texaco, Inc.
P. O. Box 728
Hobbs, New Mexico 88240

Union of Texas
1300 Wilco Building
Midland, Texas 79701

Gulf Oil Company
P. O. Box 670
Hobbs, New Mexico 88240

The above received one complete copy of the downhole commingling request.

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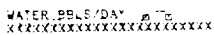
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LEASE COATES, A. B. 'D' FUSSELLMANVILLE 110



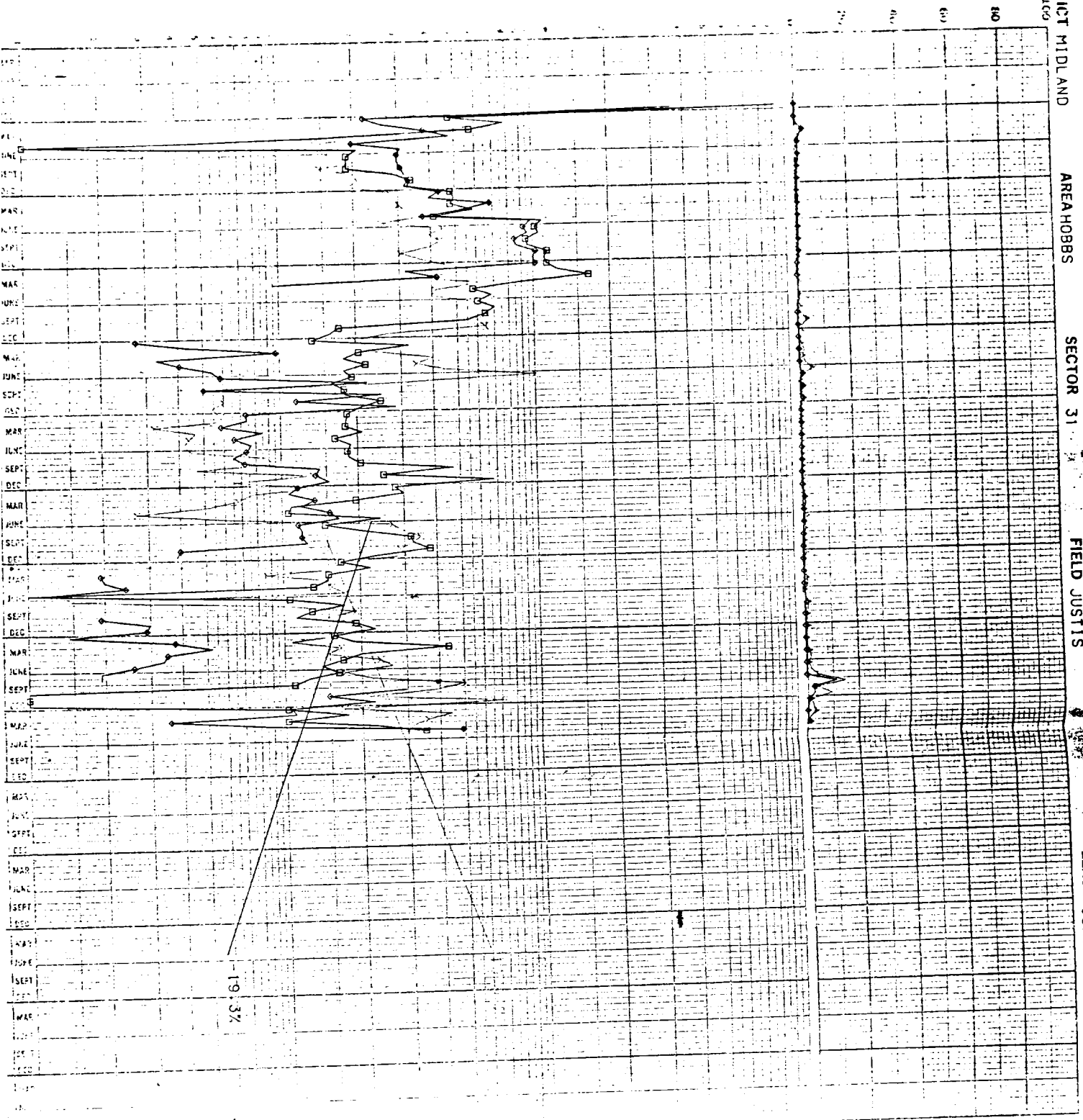
DISTRICT MIDLAND

AREA HOBBBS

SECTOR 31

FIELD JUSTIS

LEASE COATES, A. B. 'D' DRINKARD WELL NO.



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