



Texaco USA

PO Box 728
Hobbs NM 88240
505 393 7191

August 14, 1985

State of New Mexico
Department of Energy and Minerals
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Michael E. Stogner
Petroleum Engineer

RE: DOWNHOLE COMMINGLING
J. C. ESTLACK WELL NO. 1
UNIT T, SECTION 3, T-21-S, R-37-E
LEA COUNTY, NEW MEXICO

Gentlemen:

Texaco Inc. respectfully requests Administrative approval to commingle production from the Blinebry oil and gas and Tubb oil and gas pools in the wellbore of the J. C. Estlack Well No. 1 in accordance with NMOCD Rule 303-C. The Blinebry oil and gas and Tubb oil and gas have previously been approved for downhole commingling.

Recently, communications developed between the Blinebry and Tubb zones. As a result, the Tubb formation had to be shut-in, and the Blinebry formation was placed back on production. Due to the marginal producing nature of both zones, re-installing dual completion equipment is uneconomical. Downhole commingling will provide a means to effectively deplete remaining Blinebry and Tubb reserves.

This well meets all prerequisites for downhole commingling, as described in NMOCD Rule 303-C (see attached data sheet). The ownership of the Blinebry (oil) and Tubb (gas) zones is common, including working interest, royalty interest, and overriding royalty interest. Production from these zones has been commingled at the J. C. Estlack battery in the past without indication of fluid incompatibility.

RECEIVED

AUG 21 1985

SPC
HONES CRANE

State of New Mexico
Department of Energy & Minerals - 2 -

August 14, 1985

The recommended oil and gas allocation from the two zones is as follows:

	<u>Oil</u>	<u>Gas</u>
Blinebry (oil)	100%	49%
Tubb (gas)	0%	51%

All Offset Operators (address list attached) have been notified of this application by copy of this letter.

Yours very truly,



W. B. CADE
District Operations Manager

LDR:JEB

Attachments

cc: Department of Energy & Minerals
Oil Conservation Division
Post Office Box 1980
Hobbs, New Mexico 88240

Offset Operators
(Address List Attached)

RECEIVED
AUG 21 1985
FBI
HONOLULU

DATA SHEET FOR WELLBORE COMMINGLING

Operator: **TEXACO Inc.**

Address: **P. O. Box 728, Hobbs, New Mexico 88240**

Lease and Well No: **J. C. Estlack Well No. 1**

Location: Unit **T** ; **1980** Feet from the **South** Line and
 660 Feet from **West** Line of Section **3** ;
Township **21-S** , Range **37-E** ; **Lea** County.

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	<u>Blinebry Oil</u>	<u>Tubb Gas</u>
Producing Method	<u>Pumping</u>	<u>Plunger Lift</u>
BHP	<u>Est. 403 psi</u>	<u>STTP 440 psi</u> <u>Est. BHP 500 psi</u>
Type Crude	<u>Sweet</u>	<u>--</u>
Gravity	<u>35.5</u>	<u>--</u>
GOR Limit	<u>4000 Limit 428 MCF</u>	<u>--</u>
Completion Interval	<u>5742' - 5839'</u>	<u>6242' - 6331'</u>
Current Test Date	<u>6/5/85</u>	<u>Shut-in (Est. Gas</u> <u>Prod. from 6/84 prod.)</u>
Oil	<u>3</u>	<u>0</u>
Water	<u>1</u>	<u>0</u>
GOR	<u>15,000</u>	<u>53 MCFD</u>
Selling Price of Crude-\$/BBL.	<u>\$ 25.70</u>	<u>--</u>
Gross Oil & Gas Revenue		
Daily Income - \$/Day	<u>\$ 167.00</u>	<u>--</u>

COMMINGLED DATA:

Gravity of Commingled Crude **35.5° API**

Selling Price of Commingled Crude - \$/BBL. **\$ 25.70**

Gross Oil & Gas Revenue

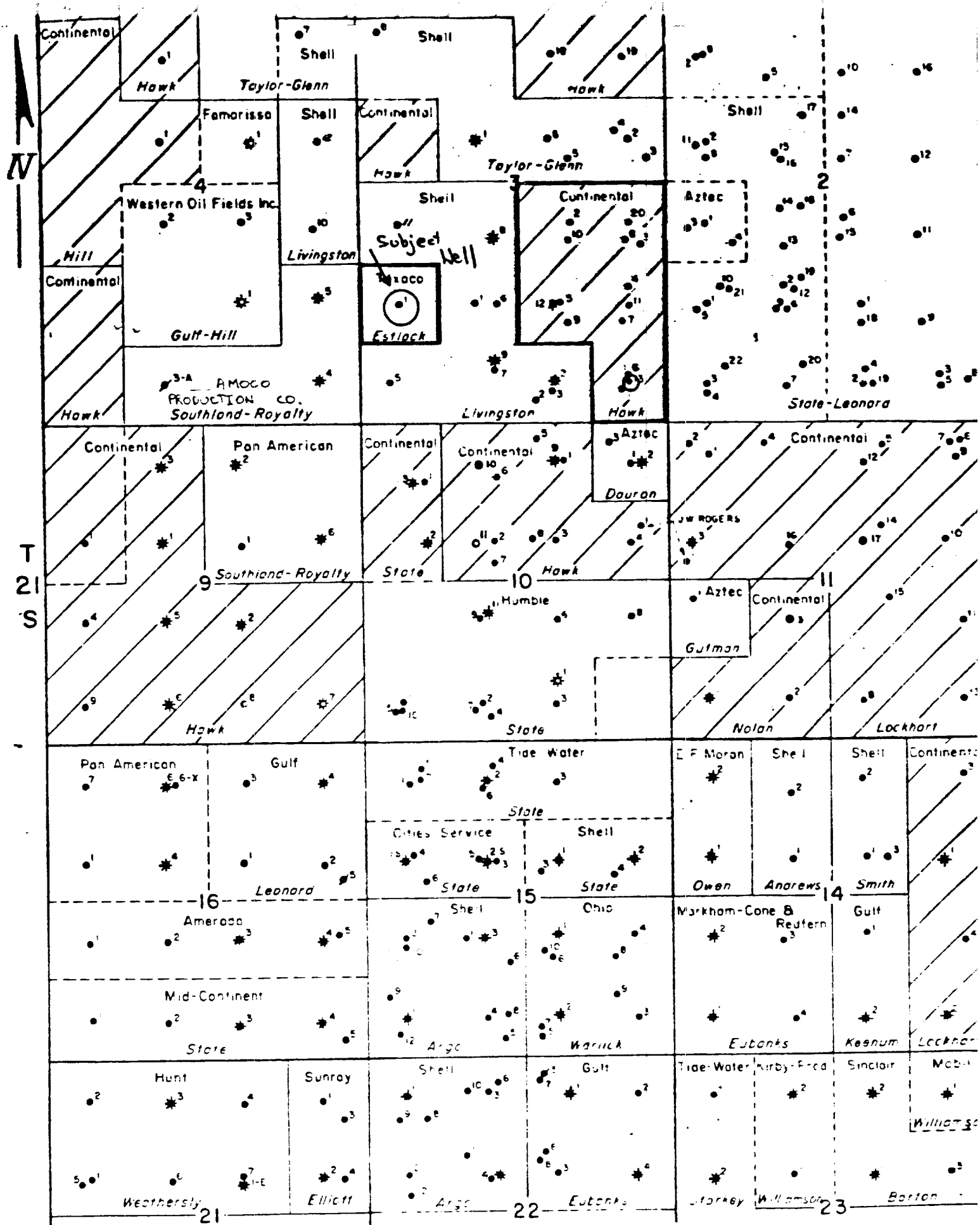
Daily Income - \$/Day **\$ 273/Day**

Net (Gain) (~~Loss~~) From Wellbore Commingling - \$/Day **\$ 106/Day**
based on current producing rates.

RECEIVED

AUG 21 1985

U.S.
HOUSE OF REPRESENTATIVES



RECEIVED

AUG 21 1985

Q-23
HOBBS OFFICE

How

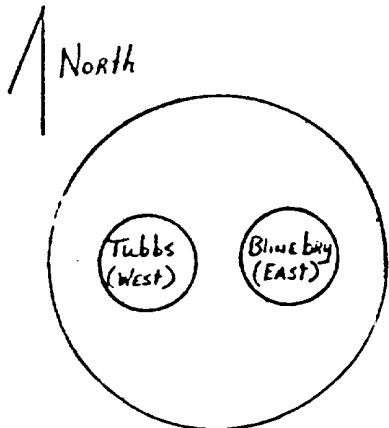
WELL FILE

J. C. E. #1

Legal Description:

Unit Letter T
Sec 3 T31S R27E

Completion Date: 3-1-50
Elevation: 3467 DF
KB or DF Corr. 9'



Casing Size: 13 3/8"
Weight: 48"
Grade: 8 RT SMLS
Set @: 286'
Hole Size: 17 1/4"
Cmt. Info: 30054 Cmt.
Circulated

Tubbs - 2 1/4" Hydril @
5855' IJ-SN @ 5841' 1.46"
Blindbry - 2 1/4" CS Hydril
177 jts. @ 5683 SN @ 5613'

Casing Size: 8 5/8"
Weight: 32"; 28"
Grade: 8 RT SMLS
Set @: 2972'
Hole Size: 11"
Cmt. Info: 18005X TOP
110' (TEMP SURVEY)

Blindbry: 5742'-5764'; 5768-82'
5829'-5839' 2 JS PF.
JAN. '62

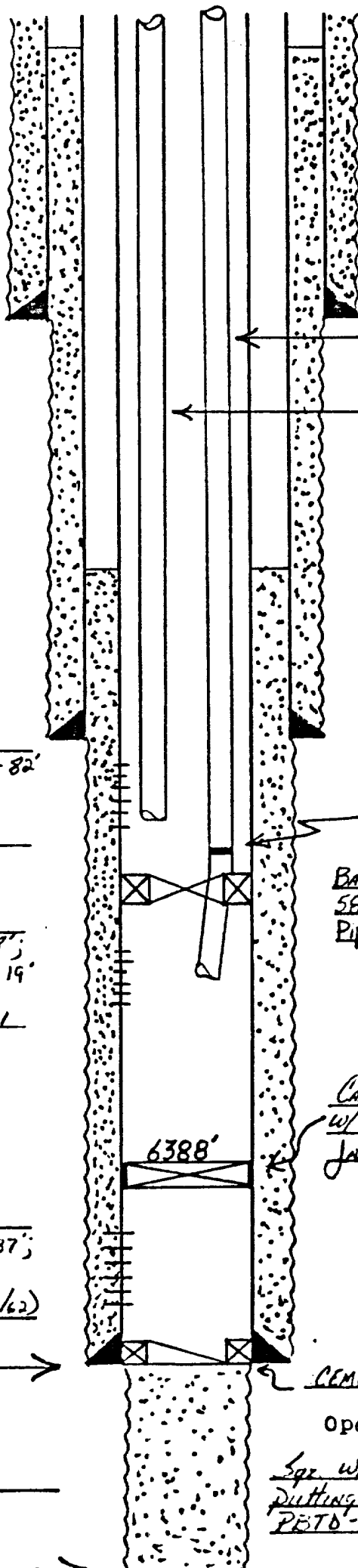
Tubbs (Gas) PERF: 6242'-48'
6260-65; 6279-94'; 6307-19'
6327-31'. (2 JS PF)
JAN. '61

DRINKARD: 2 JS PF - 6527-37';
6554'-62'; 6590'-6608'
DEC. 1960 (Abandoned 1/1/62)

Top 6620'

Producing Zone DRINKARD

Bottom 6690



Tbg. Stop @ 5834' for Plunger.

BAKER Model 'D' set @ 5855'
58' of 2" BAKER Tail Pipe Below
Pipe End @ 5913'

Cast Iron Bridge Plug set @ 6400'
w/ 25X CMT. ON TOP. PBD - 6388'
JAN. 1962'

Casing Size: 5 1/2"
Weight: 17"; 15.5"
Grade: 8 RT SMLS
Set @: 6620'
Hole Size: 7 7/8"
Cmt. Info: 6005X - TOP 2620'
TEMP SURVEY

CEMENT RETAINER

Open Hole Size: 4 3/4"

Spr. w/ 200 SX CMT. REVERSED 100SX
Putting 100SX in formation.
PBD - 6615' 12/60.

PBD: 6388'
TD: 6690

R. Lemmons
6/12/84

Present well log
Diagram

RECEIVED

AUG 21 1985

O.C.O.
MOBILE OFFICE

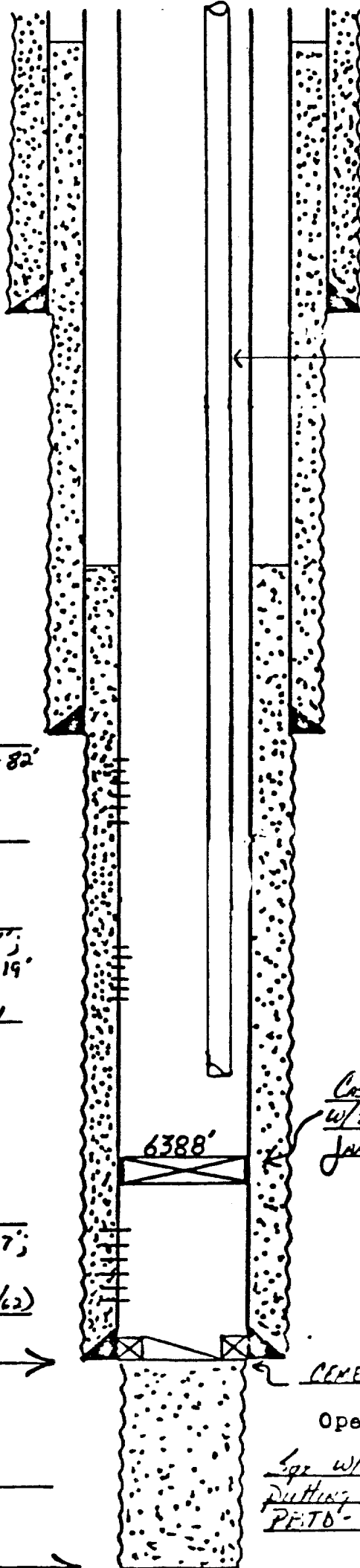
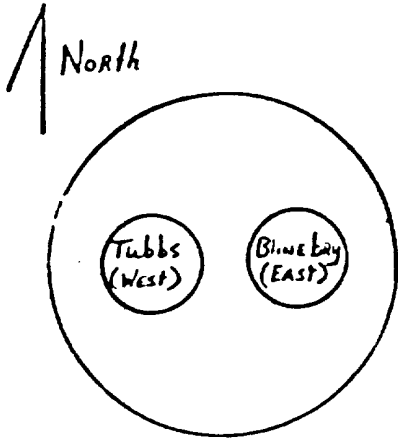
J. Estlack #1

Legal Description:

UNIT LETTER T
SEC 3 T1S R37E

Completion Date: 3-1-50
Elevation: 341.7 TIF
KB or LF Corr. 4'

Casing Size: 13 3/8"
Weight: 48"
Grade: 8 RT SMLS
Set @: 286'
Hole Size: 17 1/4"
Cmt. Info: 30054 Cmt.
Circulated



2 1/16" tubing

Casing Size: 8 5/8"
Weight: 32"; 28"
Grade: 8 RT SMLS
Set @: 2972'
Hole Size: 11"
Cmt. Info: 18005X TAC.
110' (TEMP SURVEY)

Blincray: 5742'-5764'; 5768-82'
5829'-5839' 2 JS PF.
JAN. 62

Tubbs (GAS) PERF: 6242'-48';
6260-65; 6279-94'; 6307'-19'
6327-31'. (2 JS PF)
JAN. 61

DRINKARD: 2 JS PF - 6527'-37';
6554'-62'; 6590'-6608'
DEC. 1960 (Abandoned 1/4/62)

Top 6620'

Producing Zone DRINKARD

Bottom 6690

PBTD: 6388'
TD: 6690'

Cast Iron Bridge Plug set @ 6400'
w/ 25X CMT. ON TOP. PBTD-6388'
JAN. 1962

Casing Size: 5 1/2"
Weight: 17"; 15.5"
Grade: 8 RT SMLS
Set @: 6620'
Hole Size: 7 7/8"
Cmt. Info: 6005X-TAC 2620'
TEMP SURVEY

CEMENT RETAINER

Open Hole Size: 4 3/4"

Log w/ 200 cement. REVERSED MASS
PUTTING MASS IN FORMATION.
PBTD-6615' 12/60.

Proposed Wellbore
Diagram

RECEIVED
AUG 21 1985
U.S. AIR
MAILS OFFICE

GAS-OIL RATIO TESTS

Page 5 of 7

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TSG. PRESS.	DAILY ALLOW. ABLE	NUMBER OF TESTS	PROD. DURING TEST			Completion		GAS - OIL RATIO CU.FT/BSL
		U	S	T	R						WATER BBL	GRAV. OIL	OIL BBL	GAS M.C.F.	Gas	
J. H. Blinberry Federal Donahoe Conningling Permit No. DHC-129	2	0	31	223	38E	7-28-85 P			4	24	1	37.6	6	29		4733
	Blinberry = 10%															
	Drillward = 90%															
	4	M	31	223	38E	7-21-85 P			4	24	1	37.6	4	32		8000
Donahoe Conningling Permit No. DHC-131								1			-0-	"	1			"
	Blinberry = 20%															
	Drillward = 80%															
	5	M	31	223	38E	7-6-85 P			5	24	1	37.6	5	49		9900
Donahoe Conningling Permit No. DHC-131								2			-0-	"	3			"
	Blinberry = 60%															
	Drillward = 40%															
	1	T	3	215	37E	8-5-85 P			5	24	1	36.5	2	54		27,000
J. G. Rutland																

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

During general tests, each well shall be produced at a rate not exceeding the top well allowable for the pool in which well is located by more than 15 percent. Operator is encouraged to take advantage of this 15 percent tolerance in order that well can be assigned increased allowable when authorized by the Division.

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 line of tubing pressure for any well producing through casing.

Must original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 803 and appropriate pool orders.

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

(Signature)

Date

(Name)

RECEIVED
AUG 21 1985
O.C.O.
HOLDS OFFICE

GAS-OIL RATIO TESTS

Page 4 of 5

Operator		County		Lea		TYPE OF TEST - (X)		Scheduled ☒ ☐		Completion ☐ ☒		Special ☐			
TEXACO Inc.		Pool		Tub Oil & Gas											
Address															
P. O. Box 728, Hobbs, New Mexico 88240															
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBO. PRESS.	DAILY ALLOW. ABLE	TESTS OF TEST HOLES	PROD. DURING TEST	GAS - OIL RATIO				
		U	S	T	R					WATER BBL.	GRAV. OIL	OIL BBL.	GAS M.C.F.		
A. H. Blinberry Federal NCT-4 Downhole Commingling Permit No. R-7295	1	P	31	22S	38E	4-12-84	P		23	24	36	37.6	28	568	20,286
	Tub														
	Blinberry														
	Drinhart														
J. C. Etzlack Downhole Commingling Permit No. DHC-51	2	O	31	22S	38E	10-15	F	2"	Gas	24	-0-	-0-	120		
	1	T	3	21S	37E	10-27	G	2"	2	24	-0-	35.5	1	67	67,000
	2	D	18	22S	38E	4-20	P		6	24	2	37.7	5	63	12,600
	Tub														
	Blinberry														
Downhole Commingling Permit No. R-4659	3	O	18	22S	38E	4-21	P		4	24	3	37.7	8	89	11,125
	Tub														
	Blinberry														
	Pachock														

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 Division.

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 0.66.

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 Division in accordance with Rule 291 and appropriate pool rules.

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

W.B. Loh

(Signature)

District Operations Manager

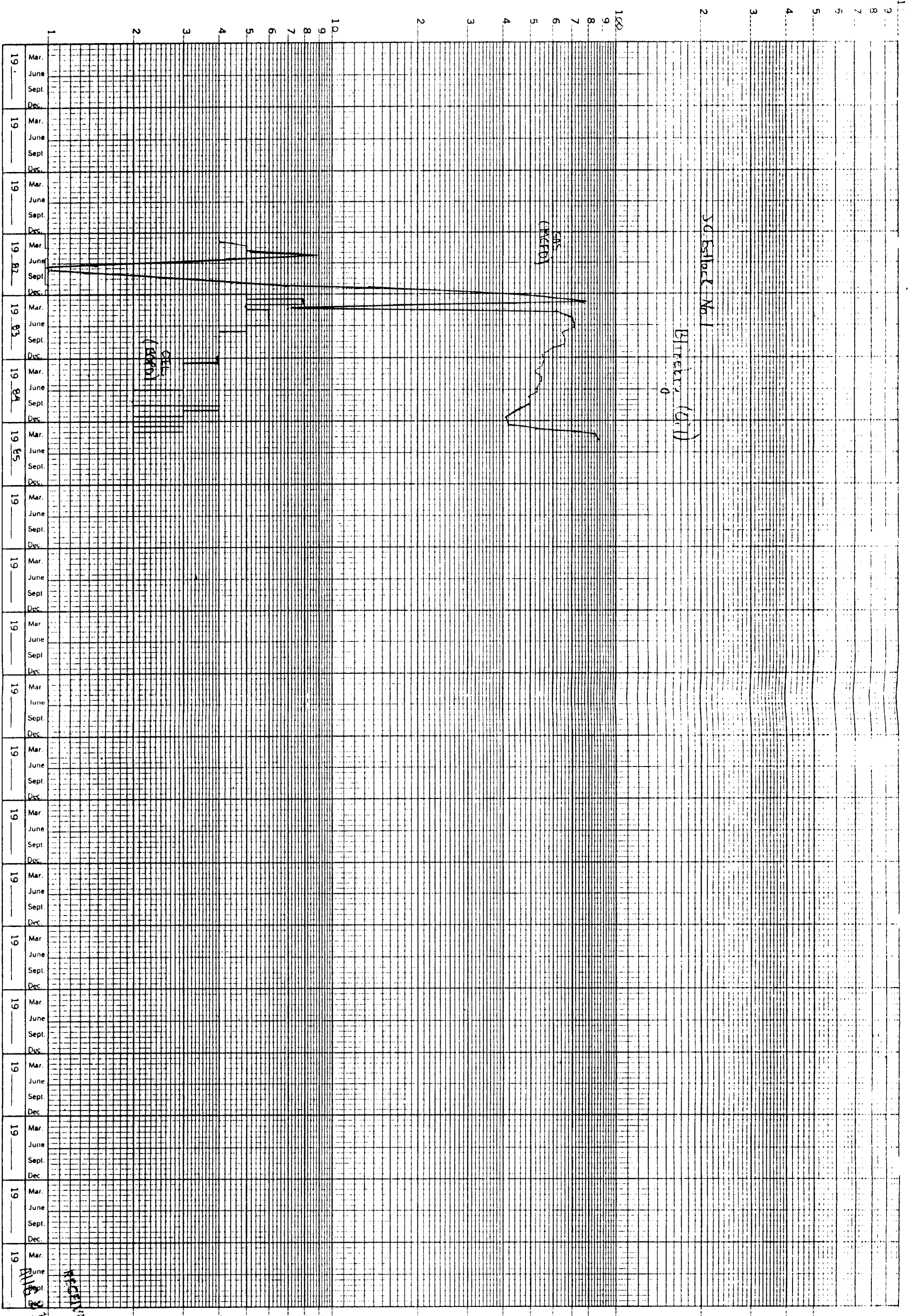
(Title)

NOV 9 1984

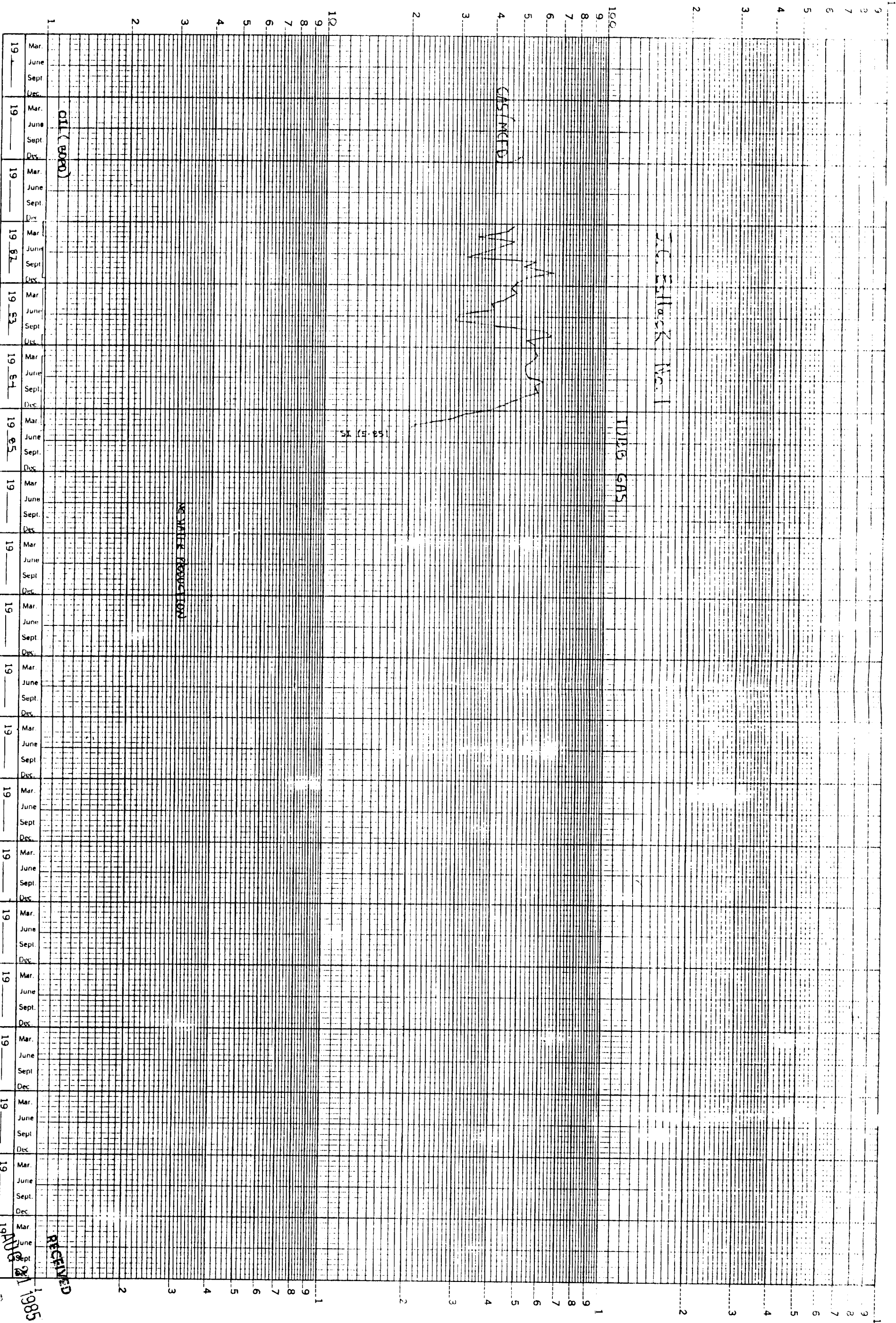
RECEIVED

AUG 21 1985

CLERK
HOBBS OFFICE



RECEIVED
MAY 21 1985
HOBBS OFFICE



OFFSET OPERATORS

J. C. ESTLACK WELL NO. 1

Shell Western Exploration & Production, Inc.
Post Office Box 2463
Houston, Texas 77001

Amoco Production Company
Post Office Box 68
Hobbs, New Mexico 88240

RECEIVED
AUG 21 1985
O.C.D.
HOBBS OFFICE