CASE 5731: TEXACO, INC. FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO

A.

# CASE NO.

573/

APPlication, Transcripts, Small Exhibits,

ETC.

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BEFORE THE  NEW MEXICO OIL CONSERVATION COMM:  Santa Fe, New Mexico  August 18, 1976	ISSION	
EXAMINER HEARING		
IN THE MATTER OF:  Application of Texaco, Inc. for down-hole commingling, Lea County, New Mexico.	) ) ) ) )	CASE 5731
BEFORE: Richard L. Stamets, Examiner		

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General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

#### APPEARANCES

TRANSCRIPT OF HEARING

For the New Mexico Oil Conservation Commission:	William F. Carr, Esq. Legal Counsel for the Commission State Land Office Building Santa Fe, New Mexico
For the Applicant:	William Booker Kelly, Esq. WHITE, KOCH, KELLY & McCARTHY Attorneys at Law

220 Otero Street

Santa Fe, New Mexico

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#### I N D E X

DONALD CRAIG	
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Texaco's Exhibit Two, Data Sheet	5	8
Texaco's Exhibit Three, Present Completion	6	8
Texaco's Exhibit Four, Proposed Completion	6	8
Texaco's Exhibit Five	-	-
Texaco's Exhibit Six, Performance Curve	7	8

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MR. STAMETS: We will call next Case 5731.

MR. CARR: Case 5731, application of Texaco, Inc. for downhole commingling, Lea County, New Mexico.

MR. STAMETS: Call for appearances.

MR. KELLY: Booker Kelly of White, Koch, Kelly and McCarthy appearing for the applicant. I have one witness and ask that he be sworn.

(THEREUPON, the witness was duly sworn.)

#### DONALD CRAIG

called as a witness, having been first duly sworn, was examined and testified as follows:

#### DIRECT EXAMINATION

BY MR. KELLY:

- Q. Would you state your name, by whom employed and in what capacity?
- A. My name is Donald Craig, I'm employed by Texaco as District Production Engineer in Hobbs.
- Q Have you previously qualified as an expert witness in the field of petroleum engineering before this Commission?
  - A. No, I have not.
- Q Will you give the Examiner a brief summary of your educational and professional background?
  - A. I graduated from Texas Tech with a degree in

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chemical engineering and for the past two years I have been with Texaco in various positions as a petroleum engineer.

- Do you have actual supervision and experience over
  the subject application?
  - A. Yes, I do.

MR. KELLY: Are the witness's qualifications acceptable?

MR. STAMETS: What was the date of your degree from Texas Tech?

THE WITNESS: 1972.

MR. STAMETS: Are you familiar with the area of this application and the engineering of the application?

engineer of the Monument area which covers this lease for a period of three months and I have been in the position of District Production Engineer, in that position for about five months which is covering the whole Hobbs district.

MR. STAMETS: Your experience with Texaco has been in petroleum engineering?

THE WITNESS: Yes, sir, it has.

MR. STAMETS: The witness is considered qualified.

- Q. (Mr. Kelly continuing.) Mr. Craig, referring to what has been marked as Exhibit Number One would you please state what Texaco seeks by this application?
  - A. Texaco seeks by this application to downhole

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Tubb-Drinkard in No. 6 on the C. H. Lockhart Federal Lease which is designated by the yellow line. This plat shows offset production in the producing zones with one exception which was omitted from the map, the No. 5 which is north and west of the subject well designated by the arrow. It is also completed in the Elinebry.

- Q. Is that a downhole commingled well?
- A. Yes, it is. It is downhole commingled in the Tubb-Drinkard and the Blinebry.
  - Q. Similar to what you are seeking here?
  - A. Yes, sir.
  - Q. What is the present status of the subject well?
- A. The present status of the subject well is a down-hole commingled Tubb-Drinkard production only. We are seeking to recomplete in the Blinebry.
- Q. Now, referring to your data sheet, Exhibit Number Two, would you briefly explain this?
- A. Briefly, the well is currently a Tubb-Drinkard producer. We are proposing to recomplete in the Blinebry interval. Estimated production from the Blinebry is twenty barrels a day. We arrived at this particular estimated producing rate from offset producing wells. We have recently recompleted another well in the Blinebry and received a similar producing rate.

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The estimated bottom-hole pressures of this particular well are derived from offset bottom-hole pressures that we have obtained in these particular zones.

- The characteristics of the three zones are quite similar?
  - A. Yes, sir, they are.

Also, through this downhole commingling we will obtain thirty-eight thousand barrels of primary reserves from this Blinebry interval, along with an additional three thousand four hundred barrels from the Tubb interval and six hundred and ninety-nine barrels from the Drinkard interval which would not otherwise be economically producible.

- Q. Is there common royalty throughout this lease?
- A. Yes, there is.
- Q. Now, turning to Exhibit Number Three, would you explain that to the Examiner?
- A. Exhibit Number Three is the present completion of this particular well. We are producing the Drinkard below a Model D packer through a perforated nipple and it's up commingled with the Tubb, the producing interval above.
- Q And Exhibit Number Four is your proposed completion, is that correct?
- A. Yes, sir. We will mill out the Model D packer over the Drinkard and downhole commingle all three zones.
  - Q. Based upon your offset production in your Blinebry dd

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you feel it would be economically viable to drill a separate well to get that production?

- A. No, I do not.
- Now, Exhibit Number Six is a performance curve on the Tubb Pool. Does that indicate that you are closely approaching the economic limits?
- A. Yes, sir, we would have already exceeded the ecomomic limit if the Tubb and Drinkard had not been downhole commingled but the Tubb is below the economic limit now?
- Q And the same holds true, I take it, of the Drinkard which is shown on Exhibit Number Six?
  - A. Yes, sir.
- Q. Do you have a recommendation to the Commission as to an allocation of production from the three zones if this application should be granted?
- A. Yes, sir, I would propose that the production split be based on production, the current producing rates from the Tubb-Drinkard and the estimated producing rate from the Blinebry zone.
  - Q Can you give that in figures?
- A. Yes, sir. That production split would be eightyfour percent from the Blinebry, thirteen percent from the
  Tubb and three percent from the Drinkard.
- Q. All right. In your opinion would the granting of this application prevent waste by allowing you to recover

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these hydrocarbons that would otherwise be left in place?

- A. Yes, it would.
- Do you feel that there is any adverse effect on correlative rights by granting this application?
  - A. No, sir.
- Q. Were Exhibits One through Six prepared by you or under your supervision?
  - A. Yes, sir.

MR. KELLY: At this time I would move the introduction of Texaco's Exhibits One through Six.

MR. STAMETS: These exhibits will be admitted.

(THEREUPON, Texaco's Exhibits One through
Six were admitted into evidence.)

MR. KELLY: I have nothing further on direct.

#### CROSS EXAMINATION

BY MR. STAMETS:

- Q. Mr. Craig, I wonder if it might not be better to base the division of production on well tests following completion of this Blinebry zone, wouldn't you have a better idea of what it actually will produce?
  - A. That will be satisfactory.
- Q. On the other wells that you have completed in the Blinebry, has there been any problem with production, has the production declined in a different manner than you thought it

# would?

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Oh, no, sir, not on the basis of the bottom-hole pressures that we see in this particular area now. We recently recompleted No. 5. I say recently, it was 1974. The current downhole commingled producing rate of these three zones is now currently eleven barrels a day.

- Have you experienced any particular production difficulty with that well?
  - No, sir, we have not.
  - And the oils are compatible?
- Yes, sir, they are. Whey are all sweet crudes with a gravity of thirty-seven point eight.

MR. STAMETS: Any other questions of the witness? He may be excused.

(THEREUPON, the witness was excused.)

MR. STAMETS: Anything further in this case? We will take the case under advisement.

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#### REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

I do hereby certify that the foregoing is a complete readed of the proceedings in

the Examer hearing of Case No. 573/ Acard by He en 8 19/6

Hew Mexico 011 Conservation Commission



DIRECTOR

JOE D. RAMEY

Other

#### **OIL CONSERVATION COMMISSION**

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE

87501

LAND COMMISSIONER
PHIL R. LUCERO
September 1, 1976



STATE GEOLOGIST EMERY C. ARNOLD

Mr. Booker Kelly	CASE NO. 5/31 ORDER NO. R-5272
White, Koch, Kelly & McCarthy Attorneys at Law Post Office Box 787 Santa Fe, New Mexico 87501	Applicant:
	Texaco Inc.
Dear Sir:	
Enclosed herewith are two co Commission order recently en	pies of the above-referenced tered in the subject case.
Yours very truly,  JOE D. RAMEY  Director	
JDR/fd	
Copy of order also sent to:	
Hobbs OCC × Artesia OCC ×	·
Aztec OCC	

### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE NO. 5731 Order No. R-5272

APPLICATION OF TEXACO INC. FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 18, 1976, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>31st</u> day of August, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Texaco Inc., is the owner and operator of the C. H. Lockhart Federal Well No. 6 located in Unit G of Section 18, Township 22 South, Range 38 East, NMPM, Lea County, New Mexico.
- (3) That said well is currently completed to produce from the Tubb and Drinkard Pools.
- (4) That from the Tubb and Drinkard zones, the subject well is capable of low rates of production only.
- (5) That the applicant proposes to recomplete said well in such a manner as to also produce from the Blinebry zone.
- (6) That from the Blinebry zone, the subject well is projected to be capable of low rates of production only.
- (7) That the applicant seeks authority to commingle Blinebry, Tubb and Drinkard production within the wellbore of the above-described well.
- (8) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

-2-Case No. 5731 Order No. R-5272

- (9) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shutin for an extended period.
- (10) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time the subject well is shut-in for 7 consecutive days.
- (11) That in order to allocate the commingled production to each of the commingled zones in the subject well, the operator, upon completion of the well, should consult with the supervisor of the Hobbs district office of the Commission to determine an allocation formula.

#### IT IS THEREFORE ORDERED:

- (1) That the applicant, Texaco Inc., is hereby authorized to commingle Blinebry, Tubb, and Drinkard production within the wellbore of the C. H. Lockhart Federal Well No. 6, located in Unit G of Section 18, Township 22 South, Range 38 East, NMPM, Lea County, New Mexico.
- (2) That upon completion of said well to produce from the Blinebry, Tubb, and Drinkard formations, the applicant shall consult with the supervisor of the Hobbs district office of the Commission to determine the proper formula for allocation of oil and gas production to each zone open in the well.
- (3) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

This It. Tereco-

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

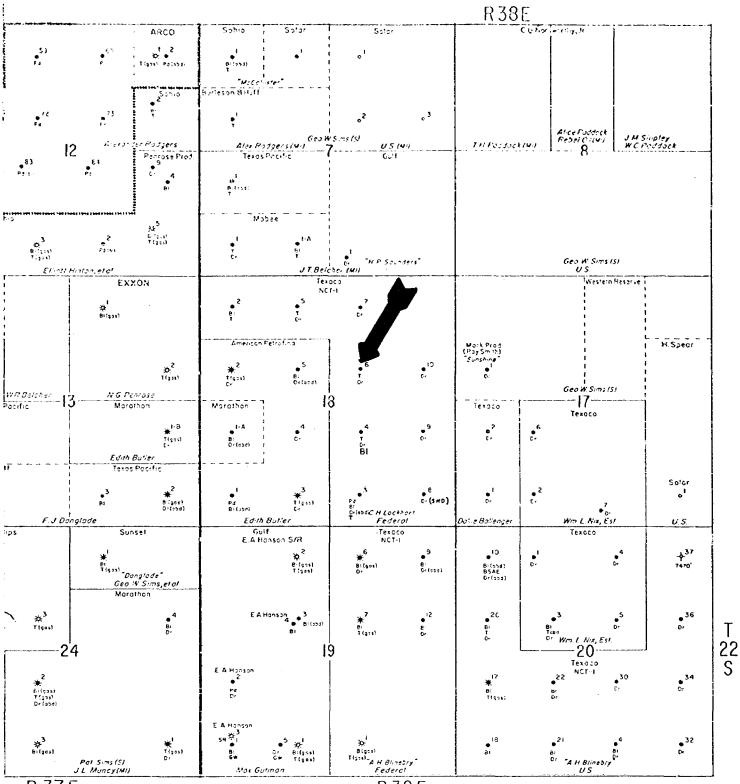
PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

Member & Secretary JOE D. RAMEY

SEAL

tr/



R 37 E

R 38 E

#### ABBREVIATIONS

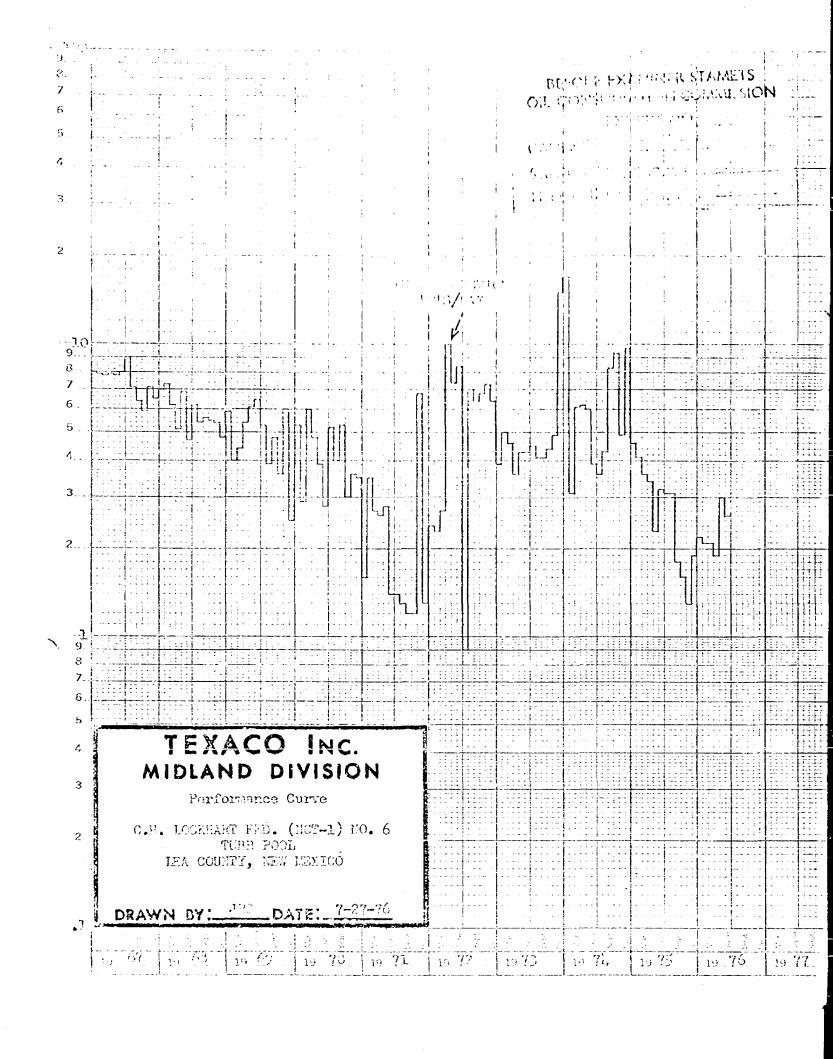
BEE - BRUNSON ELLENBLAGER EAST BGW - BRUNSON GRAVITE WASH BGWE - BRUNSON GRAVITE WASH EAST BI - BLINEBRY BME - BRUNSON MIKEE EAST BSE - BRUNSON SAN ANCRES EAST OF - DRINKARD

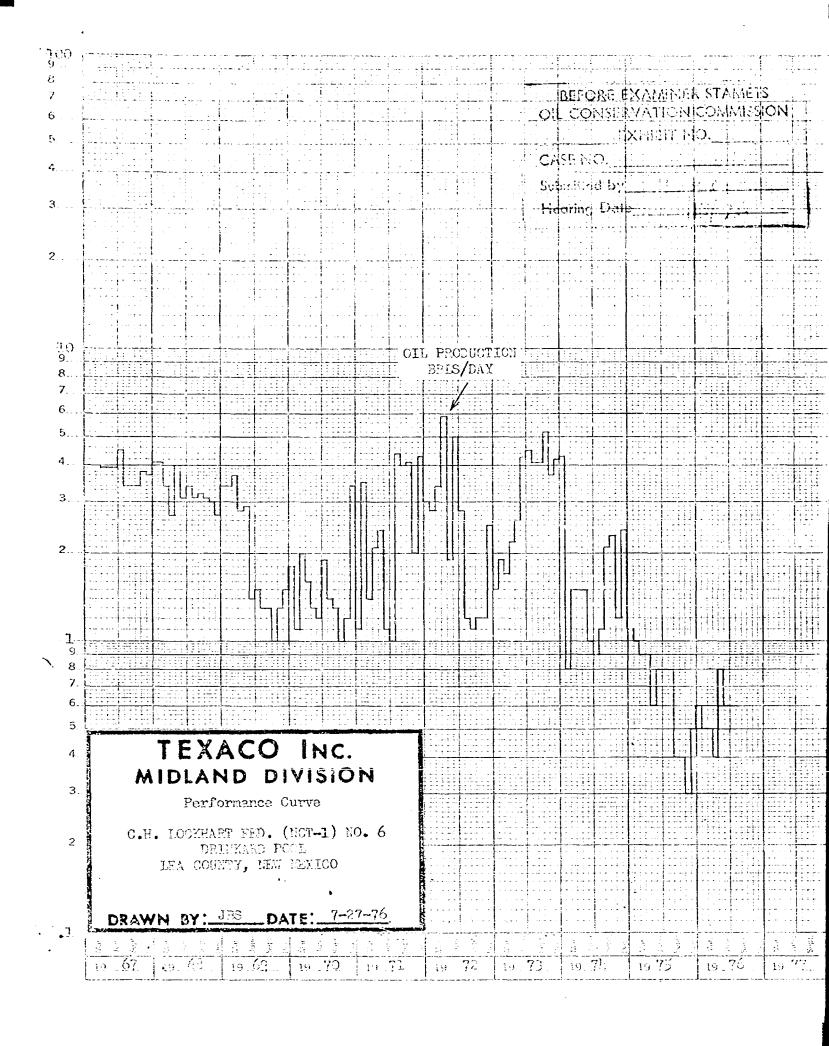
GW - GRANIE WASH (UNDESIGNATED)
LM7RO - LANGLIE MATTIX 7 RWESS QUEEN
Pd - PADDOCK
Ps - PENROSE SKELLY GRAYBURG
SA - SANTA ROSA (UNDESIGNATED)
T - TUSE

TEXACO INC. MIDLAND DIVISION

BLINEBRY FIELD AREA S.E.LEA COUNTY, NEW MEXICO 

DRAWN SY. FMR





# BEFORE EXAMINER STAMETS DATA SHEET FOR MELLBORE COMMINGLINGOIL CONSERVATION COMMISSION

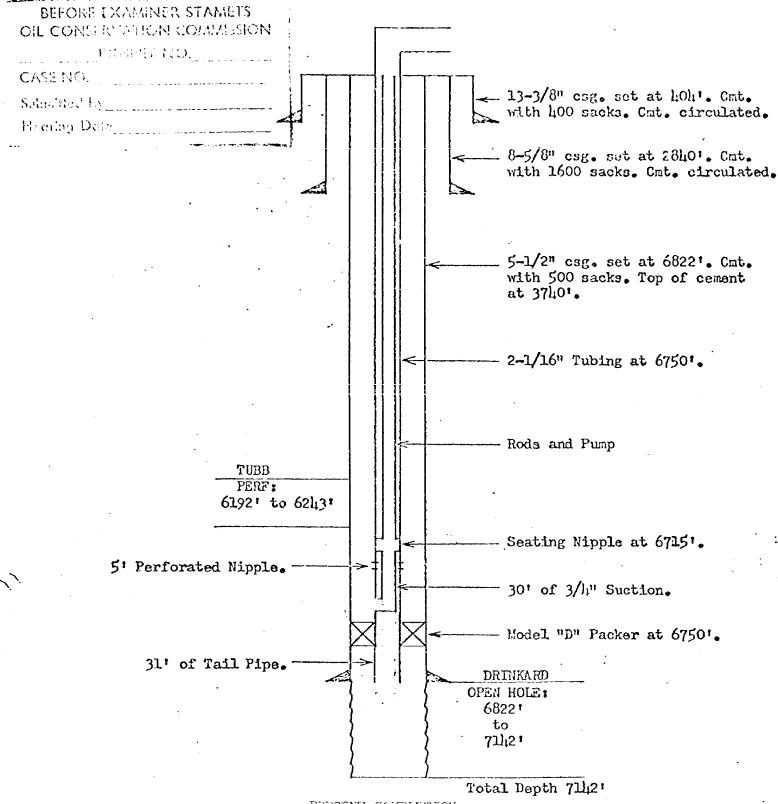
	ONTA SUCET F	ON BELLEONE COMBIN	EXHIBIT NO
Operator: TEXACO INC.			CASE NO.
		Submitted by	
Address: P. O. Box 728 - Hobbs, New Mexico 88240  Lease and Well No.: C. H. Lockhart Federal (MCT-1) Mell No.:		Hearing Date	
		•	0
Location: Unit G; 1980' Lea County, N		f Section 18, Towns	hip 22-S, Range 38-E,
WELL DATA	Pool	Pool	Pool
Name of Pool	Blinebry	Tubb	Drinkard
Producing Method	Pump	Pump	Pump
Edb.	500 (Est.)	900 (Est.)	500 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	37.8 (Est.)	37.8	37,8.
GOR Limit	6000	2006	6000
Completion Interval	Proposed 5618'-5804'	6192'-6243'	6822'-7142'
Current Test Date		June 28, 1976	June 29, 1976
011	20 (Est.)	3	1
Water	1 (Est.)	0	0
GOR	13,700 (Est.)	19,267	19,300
Colling Pates of Court			
Selling Price of Crude \$/88L.	40 ev	12.22	12.22
Dally Income - \$/Day		36.67	12.22
Tubb & Drinkard are down	nhole commingled (1	2-10-73) Order DHC-	135
COMMINGLED DATA:			÷
Gravity of Commingled C	rude 37.8		
Selling Price of Commin	gled Crude - \$/88L.	12.22	
Daily Income - \$/Day	293.33		
**************************************		_	

Met (Gain) xxxxxxxxxxx from Wellbore Commingling - \$/Day 244.44 (Production Increase of 20 BOPD)

based on current producing rates.

**BEFORE EXAMINER STAMETS** OIL CONSERVATION COMMISSION \_\_\_\_BKGASERO. CASE NO. Seleminad by 112 Homing Date 13-3/8" cag. set at hold. Ont. sith hoo sacks. Out. circulated. 3-5/3" eag. set & 28h0t. Cart. vith 1600 cacks. Ont. circulated. 5-1/2" csg. set at 68221. Cut. with 500 sacks. Top of cement at 37h01. -2-1/16" Tubing at 6900!. BLINEBRY Perf: 56181-580L1 TUBB Perf: 6192'-62l;31 DRINKARD OFEN HOLE: 68221-71/121 Total Doubh 71121 PROPOSED COMPLETION

THE ACTUAL TERMS OF THE ACTUAL TO ACTUAL TO ACTUAL TO ACTUAL TO ACTUAL TO ACTUAL TERMS OF THE ACTUAL TERMS



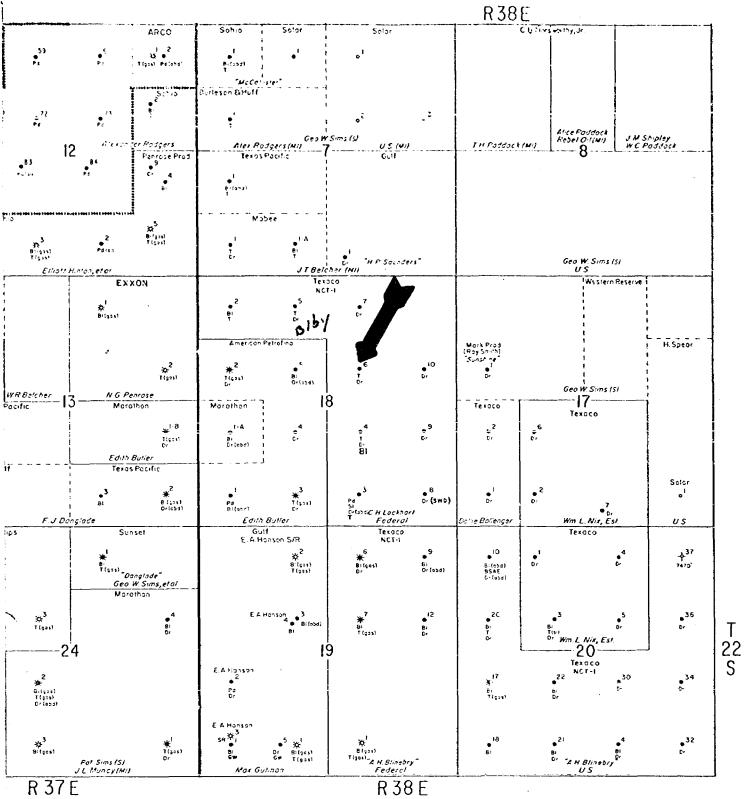
PRESENT COMPLETION

TEXACO INC.
C.H. LOCKHART (NGT-1) WELL NO. 6 TUBB AND DRINKARD POOLS LEA COUNTY, NEW MEXICO

## OIL CONSERVATION COMMISSION Hobbs DISTRICT

Case 5 731

OLL CONSERVATION COMMISSION BOX 2088	DATE July 30, 1976
SANTA FE, NEW MEXICO	RE: Proposed MC Proposed DHC X Proposed NSL Proposed SWD Proposed WFX Proposed PMX
Gentlemen:	
I have examined the application dated $_{ m July}$	y 28, 1976
for the Texaco, Inc. C.H. Lockhart Federal() Operator Lease and Wel	NCT-1) #6-G 18-22-38 1 No. Unit, S-T-R
and my recommendations are as follows:	
O.K Jerry Sexton	
OIL CONSERVATION COMM.	Yours very truly,



ABBREVIATIONS

BEE - BRUNSON ELLENBURGER EAST
BOW - BRUNSON GRANTE WASH
BOWE - BRUNSON GRANTE WASH EAST
BI - BLINEBRY
BUE - BRUNSON MIKEE EAST
BE - BRUNSON SAN ANDRES EAST
OF - DRINKARD

GW - GRANTE WASH (UNDESIGNATED)
LM7RQ - LANGLIE MATTIX 7 RIVERS QUEEN
P3 - PADDOCK
P5 - PENROSE SKELLY GRAYBURG
S4 - SANTA ROSA (UNDESIGNATED)
T - TUES

TEXACO INC. MIDLAND DIVISION

BLINEBRY FIELD AREA S.E LEA COUNTY, NEW MEXICO

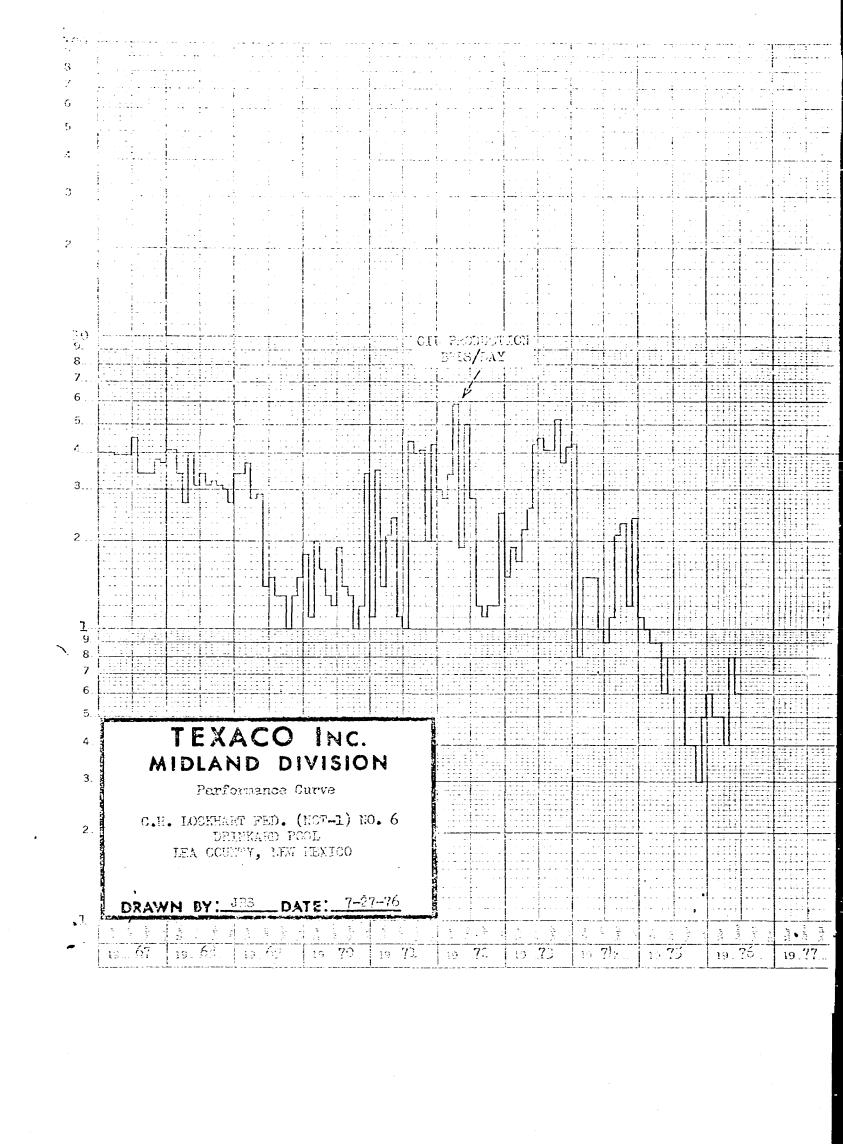
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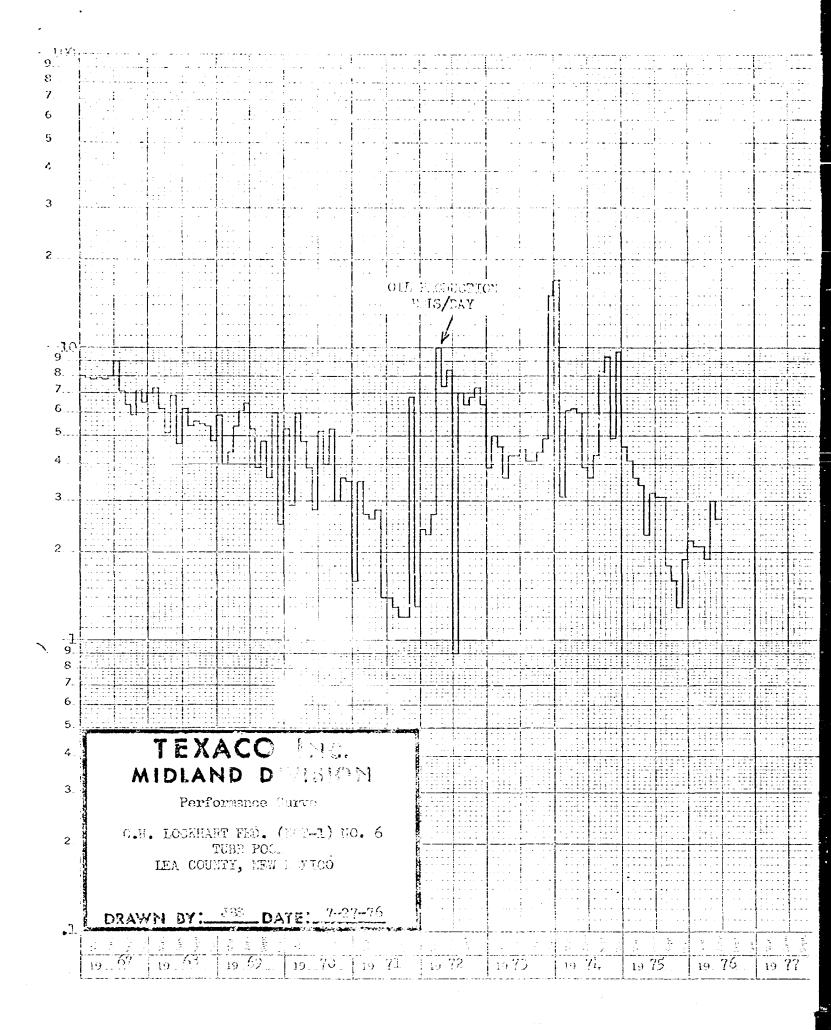
#### DAYA SHEET FOR MELLBORE COMMINGLING

Openator: TEXACO INC.			
Address: P. O. Box 728	B - Hobbs, New Mexi	co 88240	
Lease and Well No.: C.	H. Lockhart Federa	il (UCT-1) Hell Ho.	6
		Section 18, Towns	hip 22-S, Range 38-E,
Lea County, No WELL DATA	Pool Pool	Pool	<u> </u>
Name of Pool	Blinebry	Tubb	Drinkard
Producing Method	Pump	Pump	Pump
BAB	500 (Est.)	900 (Est.)	500 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	37.8 (Est.)	37.8	37.8
GOR Limit	6000	2000	6000
Completion interval	Proposed 5618'-5804'	6192'-6243'	6822'-7142'
Current Test Date	N -0	June 28, 1976	June 29, 1976
. 011	20 (Est.)	3	1
Water	1 (Est.)	0	0
GOR	13,700 (Est.)	19,267	19,300
Selling Price of Crude -		12.22	12.22
Dally Income - \$/Day	***	36.67	12.22
Tubb & Drinkard are downl	nole commingled (12	2-10-73) Order DHC-	<b>13</b> 5
Gravity of Commingled Cr	ude 37.8		
Salling Price of Comming	Lad Crudo - \$700	12 22	

Met (Gain) \*\*\*XXXXXXXX from Wellbore Commingling - \$/Day 244.44 (Production Increase of 20 BOPD) based on current producing rates.

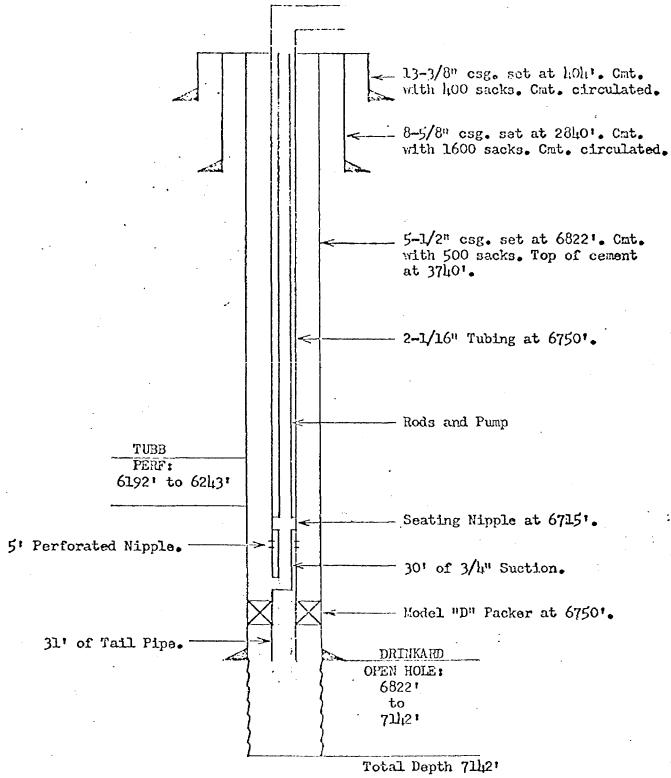
Dai! Income - \$/Day 293.33





13-3/8" csg. set at hOh!. Cat. with hOO sacks. Ont. circulated. 8-5/8" erg, set at 28h01. Cmt. with 1600 sacks. Cmt. circulated. 5-1/2" cag. set at 6822". Out. with 500 sacks. Top of coment at 3700. 2-1/16" Tubing at 6900'. BIJNESRY Perf: 5618:-58011 TUBB Perf: 61921-621:31 DRINKARD 253 OPEN HOLE: 68221-711:21 Total Double 71/21

PROPOSED COUPLETION
THRESO INC.
C.H. LOCKHAPT (NOTAL) SHILL NO. 6
THER, PRINKAPD MED BLIMENRY POOLS
LEA COUNTY, THE TEXTOO



PRESENT COMPLETION

TEXACO INC.

C.H. LOCKHART (NGT-1) WELL NO. 6

TUBB AND DRINKARD POOLS

LEA COUNTY, NEW LEXICO

Dockets Nos. 24-76 and 25-76 are tentatively set for hearing on September 1 and 15, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 18, 1976

9 A.M. - OIL CONSERVATION COMMISSION COMFERENCE ROOM. STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for September, 1976, from seventeen prorated pools in Iea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
  - (2) Consideration of the allowable production of gas for September, 1976, from four prorated pools in San Juan, Rio Arriba, and Sandeval Counties, New Mexico.

CASE 5731:

Application of Texaco, Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Blinebry, Drinkard, and Tubb production in the wellbore of its C. H. Lockhart Federal Well No. 6 located in Unit G of Section 18, Township 22 South, Range 38 East, Lea County, New Mexico.

Application of General American Oil Company for extension of time for temporary abandonment, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks extension of time for temporary abandonment of certain wells in Eddy County, New Mexico, said wells being described as follows:

Township 16 South, Range 29 East:

Brewer Nos. 19 and 28 in Section 12; Brewer Nos. 11, 12, 14, 24, and 25 in Section 13; Brewer Nos. 3, 4, 5, 17, 18, 20, 21, 23, and 27 and Bosworth Nos. 1, 2, 3, and 4 in Section 14; and Nunlee Nos. 4, 5, and 6 in Section 35;

Township 16 South, Range 30 East: Sivley No. 3 in Section 8;

Township 17 South, Range 29 East:
Keely "C" Nos. 10, 12, 18, 20, 25, and 37 in Section 25; Grayburg D. U. No. 5 in Section 25;
Keely "B" No. 15 in Section 26; Green "A" Nos. 1 and 4 in Section 29; and State B1778 Nos. 1
and 3 and State B4458 No. 2 in Section 36;

Township 17 South, Range 30 East:
Burch "A" Nos. 23 and 24 in Section 19; Dexter "E" No. 2 in Section 20; Parke "E" No. 2 in Section 22; Maddren "B" Nos. 6 and 9 in Section 27; Beeson A No. 2 in Section 28; Beeson "F" No. 9 in Section 29; Grayburg D. U. Nos. 4 and 6 in Section 30; Beeson "F" Nos. 1, 3, 4, 5, 6, 12, 13, 14, and 16 in Section 31; State B4108 No. 1 in Section 32; and Arnold "D" Nos. 8 and 9 in Section 34.

Three of the above wells are undesignated and the others are variously located in the High Lonesome, West Square Lake, Grayburg Jackson, Loco Hills, and West Henshaw Premier Pools.

- CASE 5732: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks authority to commingle Morrow and Strawn production in the wellbore of its Roden Federal GD Well No. 1 located in Unit I of Section 23, Township 19 South, Range 24 East, Eddy County, New Mexico.
- Application of Yates Petroleum Corporation for an unorthcdox location, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of its

  Jackson GM Well No. 1 to be drilled at a point 660 feet from the South line and 1650 feet from
  the West line of Section 24, Township 17 South, Range 25 East, Eddy County, New Mexico, to test
  the Morrow formation, the W/2 of said Section 24 to be dedicated to the well.
- Application of Yates Petroleum Corporation for an unorthodox location, Eddy County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of its Federal GL Well No. 1 to be drilled at a point 660 feet from the South and West lines of Section 33, Township 17 South, Range 25 East, Eddy County, New Mexico, to test the Morrow formation, the S/2 of said Section 33 to be dedicated to the well.
- CASE 5724: Application of Yates Petroleum Corporation for an oil treating plant permit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority for the construct— and operation of an oil treating plant for the purposes of treating and reclaiming sediment oil at a site in the SE/4 of Section 25, Township 18 South, Range 25 East, Eddy County, New Mexico.



July 28, 1976

TEXACO INC.
DRAWGR:728
1101089 NEW MEXICO 88240

IN TIGH 2.9 1976 利 III. CONSTRUCTION COMM.

New Mexico 0il Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501 Santa Fe

RE: REQUEST FOR EXAMINER HEARING
Application for Downhole Commingle
C. H. Lockhart Federal (NCT-1) No. 6

Blinebry, Drinkard and Tubb Pools

Lea County, New Mexico

#### Gentlemen:

It is requested that an examiner hearing be scheduled to consider TEXACO's application to downhole commingle the Blinebry, Drinkard and Tubb Pools in the C. H. Lockhart Federal (NCT-1) Well No. 6 located in Unit G of Section 18, Township 22 South, Range 38 East, Lea County, New Mexico.

Please find enclosed three copies of exhibits required for hearing application.

All offset operators and the USGS are being notified of this application by copy of letter.

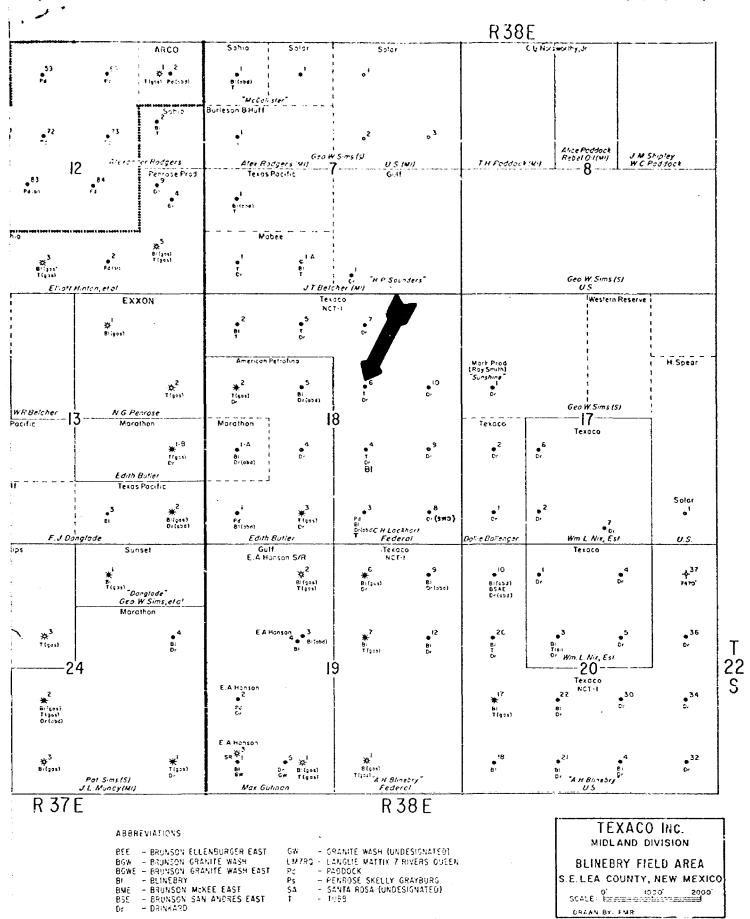
Yours very truly,

J. V. Gannon

District Superintendent

JBS:las Enclosures

NMOCC - Hobbs USGS - Hobbs Offset Operators



#### DATA SHEET FOR MELLEGRE COMMINGLING

Operator: TEXACO INC.

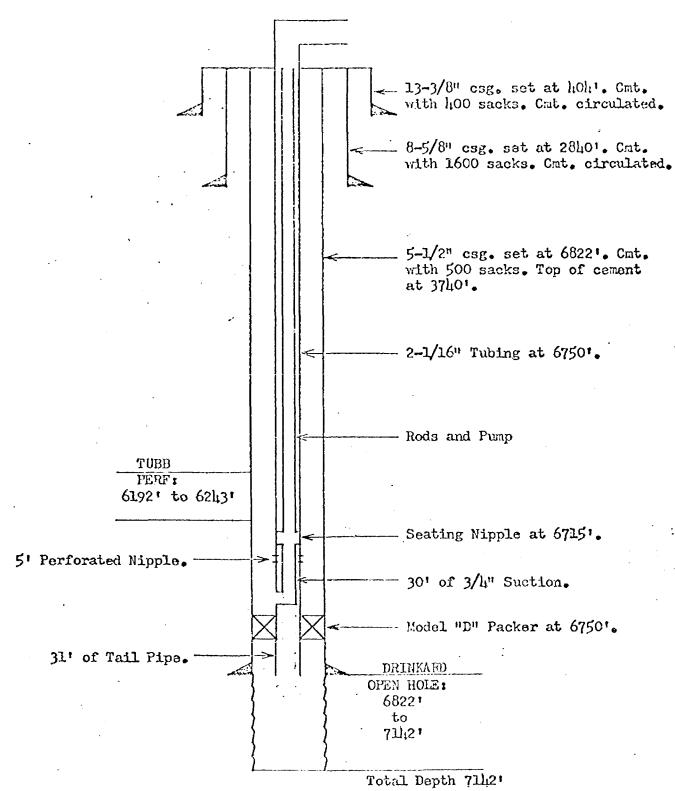
Address: P. O. Box 728 - Hobbs, New Mexico 83240

Lease and Well No.: C. H. Lockhart Federal (MCT-1) Mell No. 6

Location: Unit G; 1980' Fill & 1980' FEL of Section 18, Township 22-S, Range 38-E, Lea County, New Mexico

MELL DATA	ew Hexico		
ARCE DATA	Pool	Pool	Pool
Name of Pool	Blinebry	Tubb	Drinkard
Producing Method	Pump	Pump	Pump
CHP	500 (Est.)	900 (Est.)	500 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	37.8 (Est.)	37.8	37.8
GOR Limit	6000	2000	6000
Completion Interval	Proposed 5618'-5804'	6192'-6243'	68221-71421
Current Test Date	a w	June 28, 1976	June 29, 1976
110	20 (Est.)	3	1
Water	1 (Est.)	0	0
GOR	13,700 (Est.)	19,267	19,300
Collin Datas of Cauda			
Selling Price of Crude \$/BBL.		12.22	12.22
Dally Income - \$/Day		36.67	12.22
Tubb & Drinkard are down	hole commingled (1	2-10-73) Order DHC-	·135
COMMINGLED DATA:			<u>:</u>
Gravity of Commingled C	rude 37.8		
Selling Price of Commin	gled Crude - \$/BBL	12.22	
Daily Income - \$/Day	293,33		

Het (Gain) xxxxxxxxxx from Wellbore Commingling - \$/Day 244.44 (Production Increase of 20 BOPD) based on current producing rates.



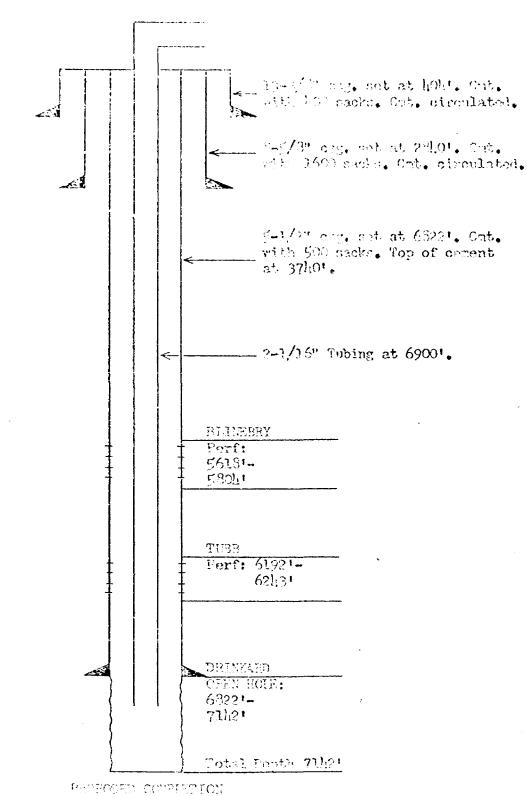
PRESENT COMPLETION

TEXACO INC.

C.H. LOCKHART (NCT-1) WELL NO. 6

TUBB AND DRINKARD POOLS

LEA COUNTY, HEW ESEXUCO



THE PROPERTY OF THE SOLUTION O

MIST OF OFFSET OPERATORS

TOWARD Inc.
C. B. Lockhart Tadaval NCT-1 Hall Ho. 6
Loc Cowney, New Maxica

American Potrofina Company of Texas Drawer B Artesia, New Mexico 88210

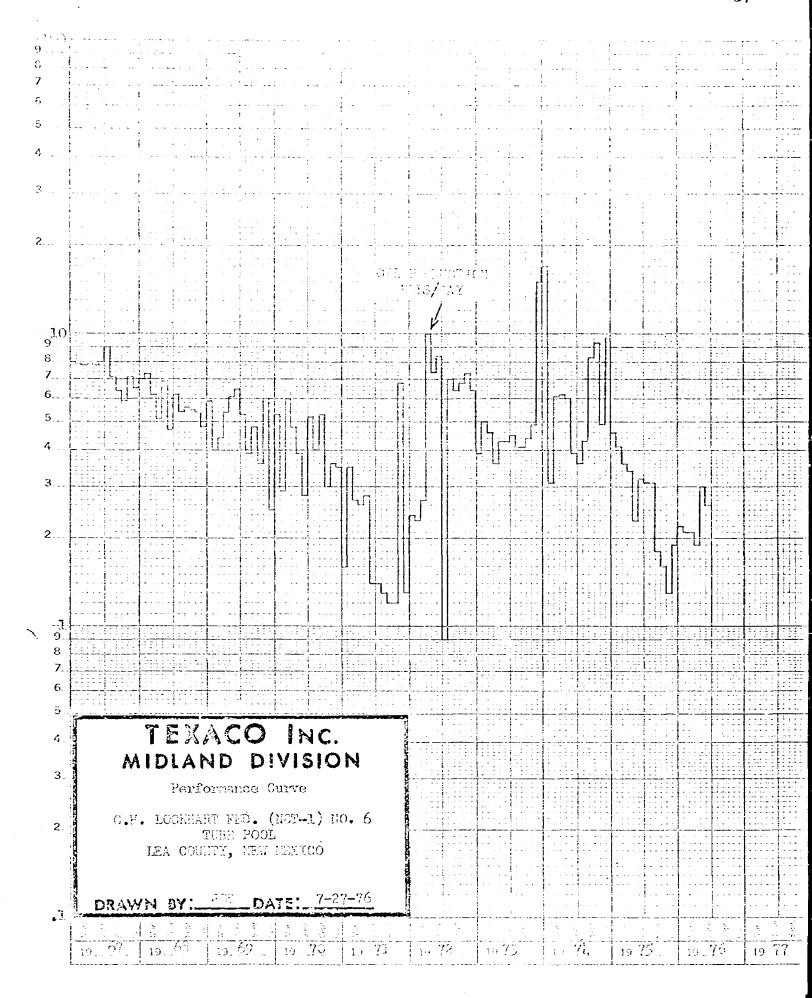
Gulf Gil Corp. - Hobbs Area P.O. Box 679 Hobbs, New Mexico 33240

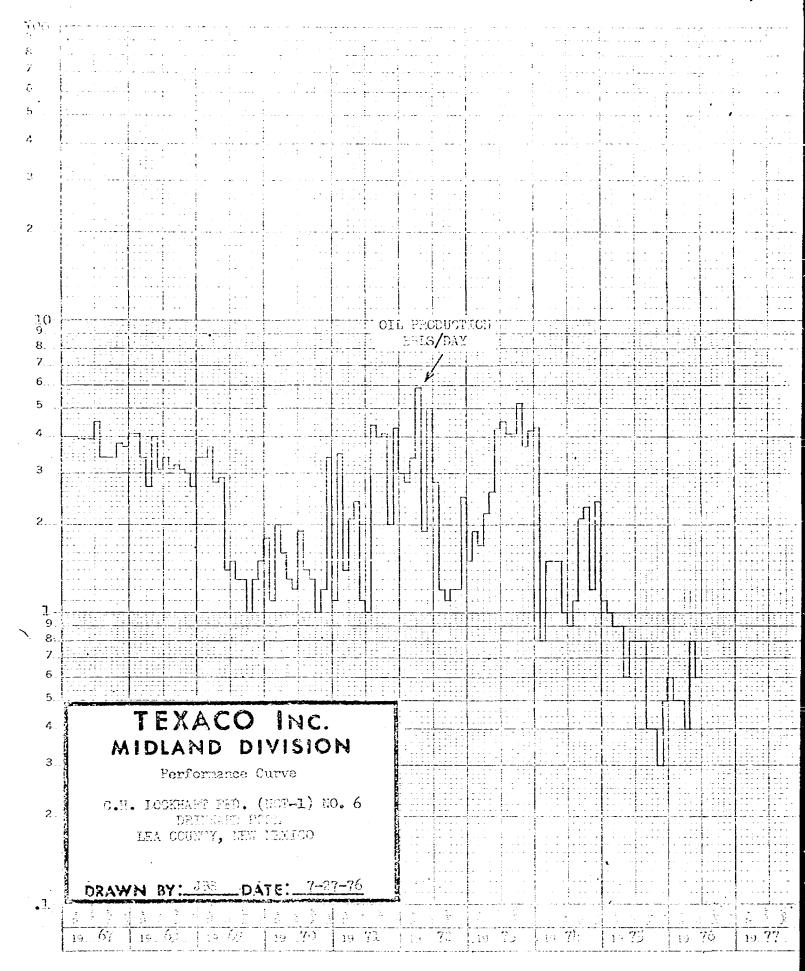
Exxon
P.O. Box 2100
Hobbs, New Maxico 83240

Mabes Petroleus Corp. 201 1st Savings Building Midland, Texas 79701

Mark Production 330 Citizans Bank Suilding Tyler, Texas 75701

Penrose Production Company P.O. Box 938 Eunice, New Mexico 88231





#### NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

		Por		ubb &	Drinkard				Coc	enty	Lea				,
, New	ilexi,	co 8	8240					Set	[] telute:		Солд	eletion [		Spe	rated XXI
WELL		LOC	ATION		DATEOF	[2]	CHOKE	TEG.						<del></del>	GAS - OIL
110.	U	s	Т	R	7 857		! 1	1 1		POURS	BPLS.	CENT	BDLS.		RATIO CU.FT/BBL
6	G	18	22 <b>-</b> S	33-E			-								
<u>;</u> {					6-28-76	Р			4	24	0	37.8	3	57.8	19250
					6-29-76	Р		1	1	24	0	37.8	1	19.3	19300
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r	WELL NO.	WELL NO. U	, Hew Hexico 88	WELL LOCATION NO. U S T	Tubb &  New New No. U s T R  -	Tubb & Drinkard  Tubb & Drinkard  Tible Well Location Date of Test  6 G 18 22-S 33-E  6-28-76	Tubb & Drinkard  TYPE TEST  WELL LOCATION DATE OF STREET  6 G 18 22-S 33-E  6-28-76 P	Tubb & Drinkard  TYPE OF TEST - (X)  WELL LOCATION DATE OF CHOKE  NO. U S T R TEST SIZE  6 G 18 22-S 33-E  6-28-76 P	Tubb & Drinkard    TYPE OF   TEST - (X)   Set.	Tubb & Drinkard  TYPE OF TEST - (X) Schedules  WELL LOCATION DATE OF CHOKE TEG. DAILY ALLOWALLOW ABLE  6 G 18 22-S 33-E 6-28-76 P 4	Tubb & Drinkard  TYPE OF TEST - (X) Schedules []  WELL LOCATION DATE OF CHOKE TEG. DAILY ALLOW- OF ALLOW-	Tubb & Drinkard   Lea   Lea			

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 we'll is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that we'll 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 pala and a temperature of 60° F. Specific gravity base will be 0.60.

Report cosing pressure in lieu of tobing pressure for any well producing through cosing.

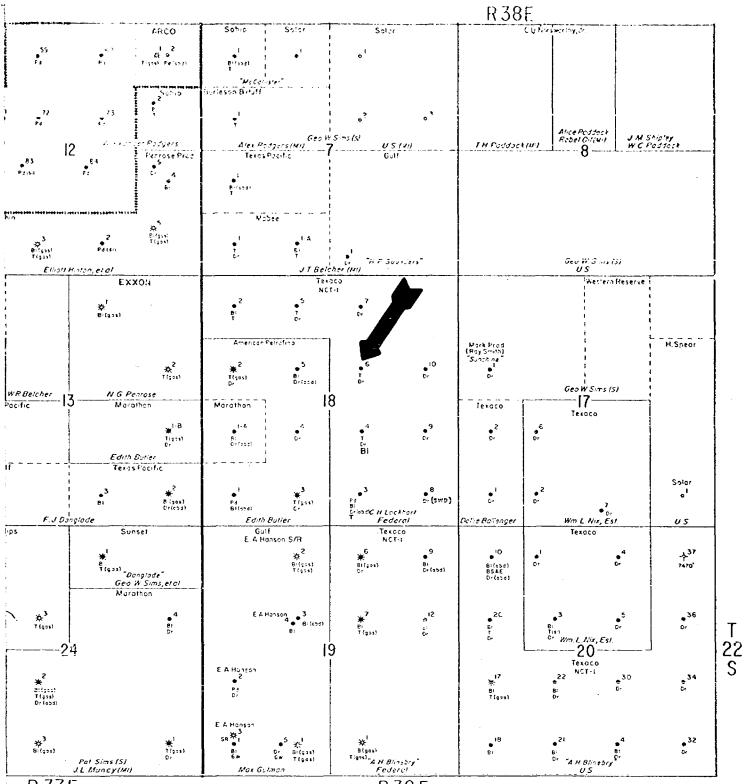
Mall original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

(Signature)

Assistant District Superintendent

(Title) July 28, 1976



R 37E

R 38 E

#### ABBREVIATIONS

BEE - BRUNSON ELLENBURGER EAST BOW - BRUNSON GRAVITE WASH BOWE - BRUNSON GRAVITE WASH EAST BY - BLINEBRY BME - BRUNSON MIKEE EAST BSE - BRUNSON SAN ANDRES EAST OF - DRIVAGED GW - GRANTE WASH (UNDESIGNATED)
LM7RO - LANGLIE MATTIX 7 RIVERS QUEEN
P4 - PAGGOCK
P5 - PENROSE SKELLY GRAYBURG
S4 - SANTA ROSA (UNDESIGNATED)
T - TUBB

TEXACO INC. MIDLAND DIVISION

BLINEBRY FIELD AREA S.E.LEA COUNTY, NEW MEXICO

o' 1000' 2000' SCALE: terremental

ORANG BY, FUR

## DATA SHEET FOR WELLEGRE COMMINGLING

Operator: TEXACO INC.

Address: P. O. Box 728 - Hobbs, New Maxico 88240

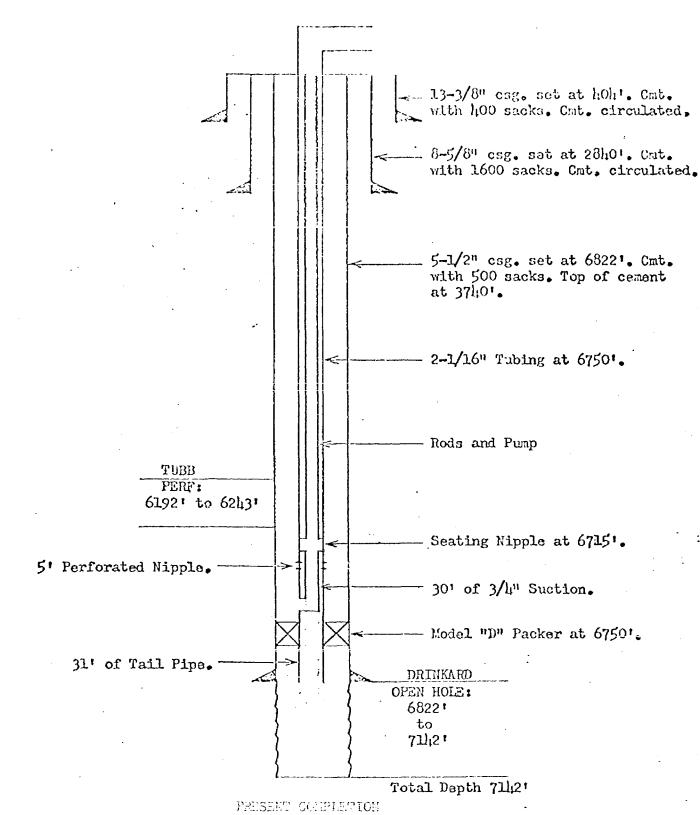
Lease and Wall No.: C. H. Lockhart Federal (MCT-1) Mell No. 6

Location: Unit G; 1980' Fill & 1980' FEL of Section 18, Township 22-S, Range 38-E,

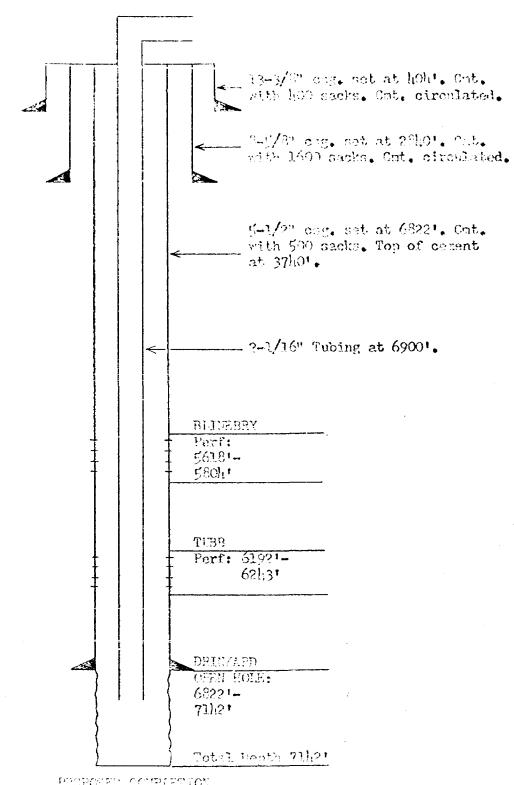
Lea County, New Mexico

Lea County, Ne	ev Mexico		
WELL DATA	Pool.	Pool	Pool
Mame of Pool	Blinebry	Tubb	Drinkard
Producing Method	Pump	Pump	Pump
BHP .	590 (Est.)	900 (Est.)	500 (Est.)
Тура Crude	Sweet	Sweet	Sweet
Gravity	37.8 (Est.)	37.8	37.8
GOR Limit	6000	2000	6000
Completion Interval	Proposed 5618'-5804'	6192'-6243'	6822'-7142'
Current Test Date	***	June 28, 1976	June 29, 1976
011	20 (Est.)	3	1
Water	1 (Est.)	0	0
GOR	13,700 (Est.)	19,267	19,300
Selling Price of Crude - \$/B3L.		12.22	12.22
Dally Income - \$/Day	es ==	36.67	12.22
Tubb & Drinkard are down	hole commingled (12	2-10-73) Order DHC-	135
COMMINGLED DATA:			<i>:</i>
Gravity of Commingled Cr	ude 37.8		
Selling Price of Comming	ted Crude – \$/8BL.	12.22	
Daily Income - \$/Day	293.33	_	

Mat (Gain) XXXXXXXX from Wellbore Commingling - \$/Day 244.44 (Production Increase of 20 BOPD) based on current producing rates.



TEXACO INC.
C.H. LOCKHART (NCT-1) WELL NO. 6
TUBB AND DRINKARD POOLS
LEA COUNTY, HEW MEXICO



PROPOSED COMPLETION

TO YACO INC.

C.H. LONGBURY (TOTAL) VEHI BO. 6

TORY, DEINKARD IND REMEMBER ROOLE
INA COUNTY, NEW LEXICO

HIST OF OFFSOT OPERATORS

TEMACO Inc.
C. H. Lockhart Federal MCT-1 Hell Ho. 6
Lea County, New Hexico

American Petrofina Company of Texas Drawer D Artemia, New Mexico 88210

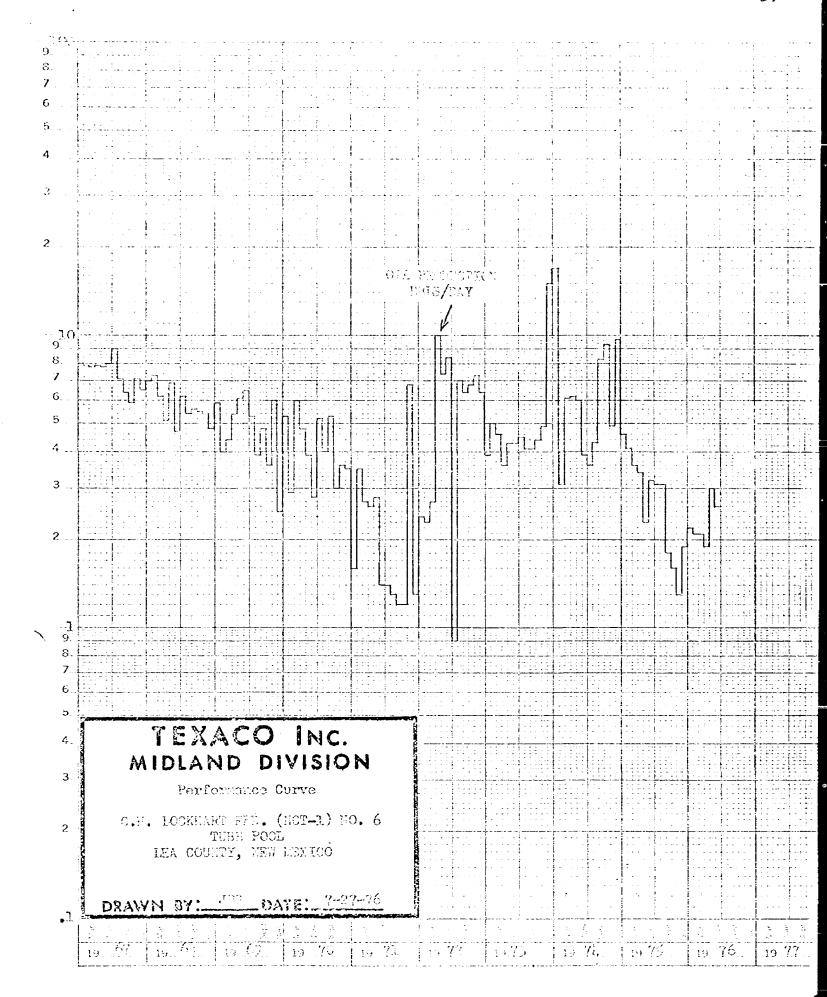
Culf Cil Corp. - Hobbs Area P.O. Box 670 Hobbs, New Mexico 33240

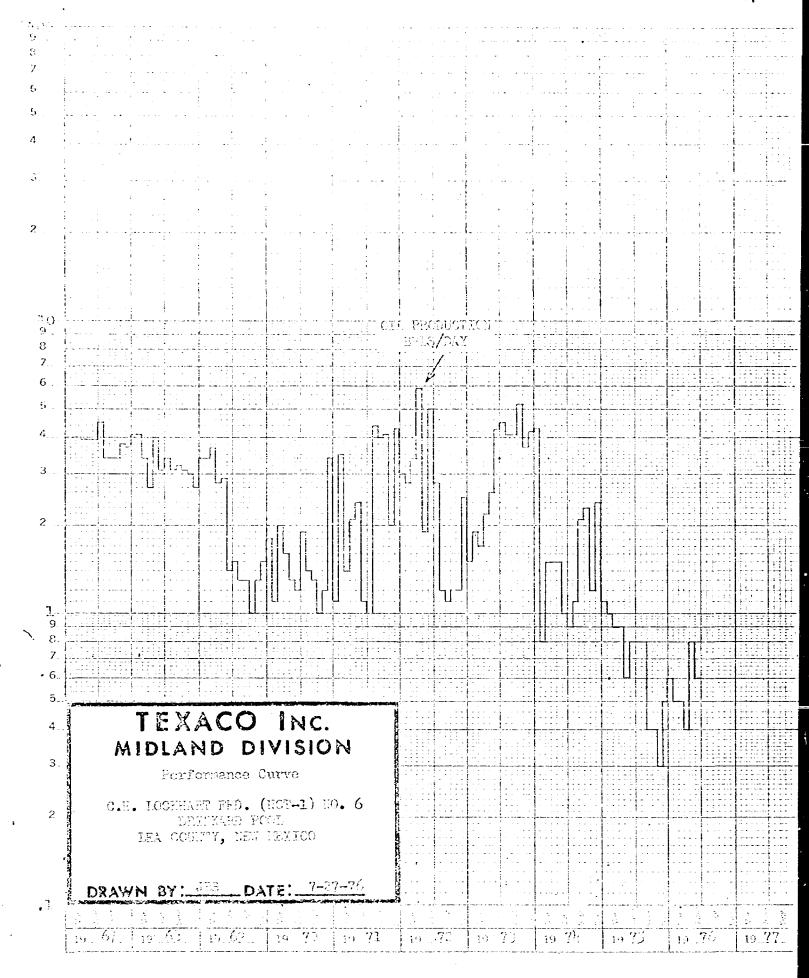
Exvon P.O. Box 2100 Hobbs, New Mexico 83290

Mabee Petroleus Corp. 201 1st Savings Building Midland, Texas 79701

Mark Production 330 Citizens Bank Suilding Tyler, Texas 75701

Penrose Production Company P.O. Box 938 Eunice, New Mexico 83231





		Pox					County									
0. Rox 728 - Hobbs, New Mexico 88240					TYPE OF TEST = (X)   Scheruled				esuled []	Completion Decid XX					estat 💢 💢 ]	
WELL		<del></del>	1	T !	:							WALLE.	<del></del> ::		GAS	GAS RATIO
NO.	<u> </u>	S	T	R	TEST		-	SIZE	PKE35.	ABLE	P6095	B645.			M.C.F.	CU.FT/95L
6	G	18	22 <b>-</b> S	38-E				.								
					6-28-76	5	P			4	24	0	37.8	3	57.8	19250
					6-29-76	5	Р			1	24	0	37.8	1	19.3	19300
<u> </u>																
	-														A constraint of the constraint	
	WELL NO.	WELL V	New Mexico 88   No.   U   S   S   S   S   S   S   S   S   S	New Maxico 88240	Tubb &	Tubb & Drinkard	Tubb & Drinkard   Ty   Trest	Tubb & Drinkard   Type   Test	New Mexico 88240	Tubb & Drinkard	Tubb & Drinkard	Tubb & Drinkard	Tubb & Drinkard   Lea	Tubb & Drinkard   Lea	Tubb & Brinkard	Tubb & Drinkard   Lea

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

During gna-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.

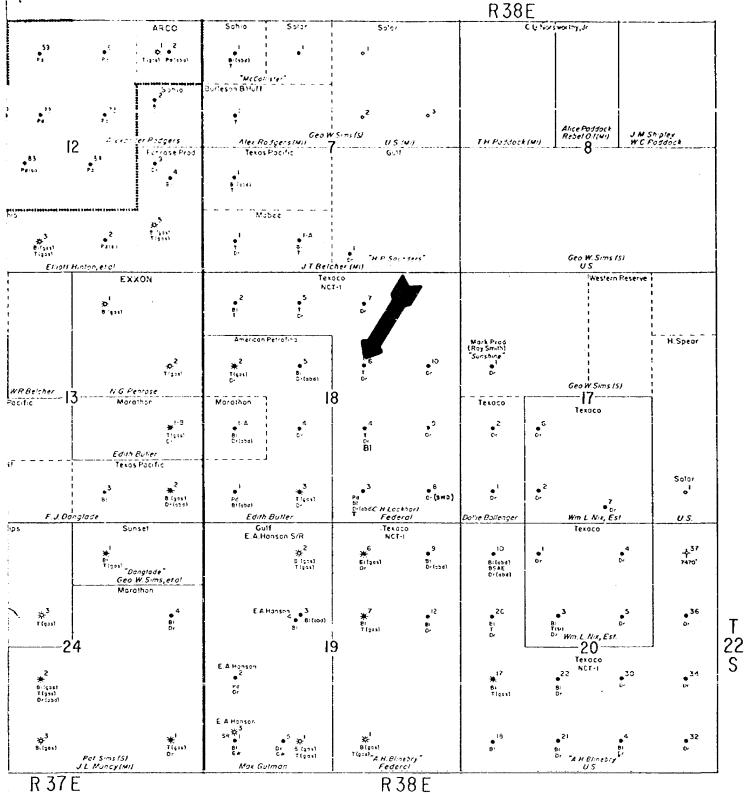
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriete pool rules.

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

(Signature)

Assistant District Superintendent

*cride)* July 28, 1976



ABBREVIATIONS

BEE - BRUNSON ELLENBURGER EAST
BOW - ERUNSON GRANITE WASH
BOWE - BRUNSON GRANITE WASH EAST
BY - BLINEBRY
BNE - BRUNSON MIKEE EAST
BSE - ERUNSON SAN ANDRES EAST
OF - DRINKARD

GW - GRANITE WASH (UNDESIGNATED)

EM7RQ - LANGLIE MATTIX 7 RIVERS QUEEN
PS - PADDOCK
PS - PENROSE SKELLY GRAYBURG
SA - SANTA ROSA (UNDESIGNATED)
T - TUS9

TEXACO INC. MIDLAND DIVISION

BLINEBRY FIELD AREA S.E.LEA COUNTY, NEW MEXICO

DRAAN BY FMR

## DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO INC.

Address: P. (

P. 0. Box 728 - Hobbs, New Mexico 88240

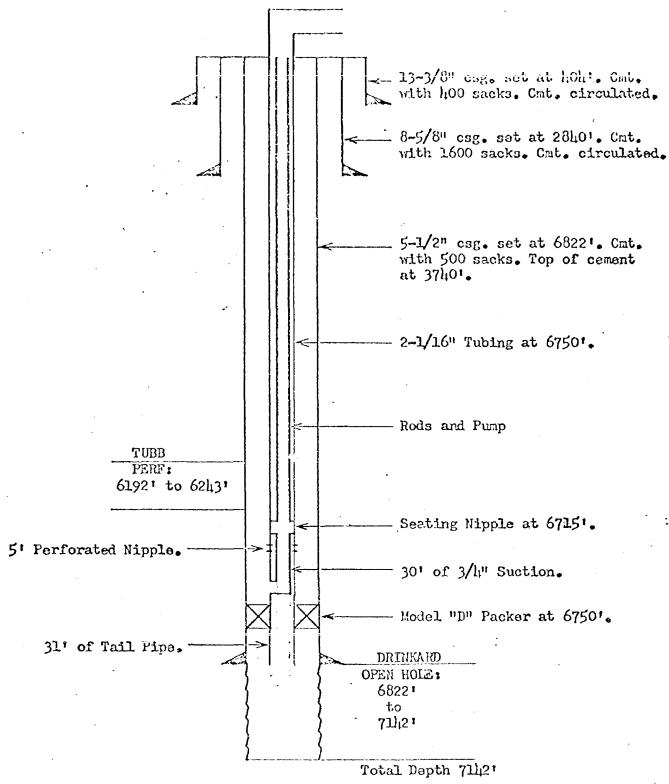
Lease and Weil No.: C. H. Lockhart Federal (MCT-1) Mell Me. 6

Location: Unit 6; 1980' Fill & 1980' FEL of Section 18, Township 22-S, Range 38-E,

Lea County, Hew Mexico

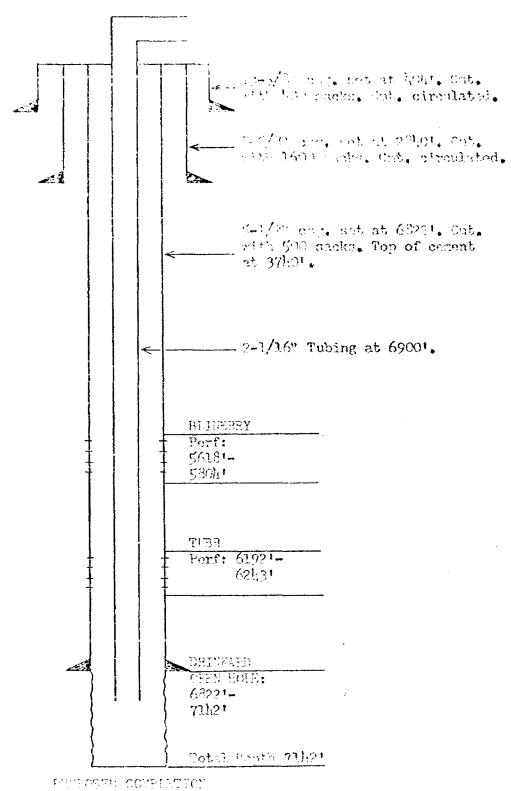
Lea County, 11	ew Mexico		
The state of the s	Pool	Pool	Pool
Name of Pool	Blinebry	Tubh	Drinkard
Producing Method	Pump	Pump	Pump
BHP .	500 (Est.)	900 (Est.)	500 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	37.8 (Est.)	37.8	37.8
GOR Limit	6000	2000	6000
Completion interval	Proposed 5618'-5804'	6192'-6243'	6822'7142'
Current Test Date		June 28, 1976	June 29, 1976
011	20 (Est.)	3	1
Water	1 (Est.)	0	0
GOR	13,700 (Est.)	19,267	19,300
Selling Price of Crude -	- -	12.22	12.22
Dally Income - \$/Day	***	36.67	12.22
Tubb & Drinkard are down	hole commingled (12	2-10-73) Order DHC-	135
COMMINGLED DATA:			•
Gravity of Commingled C	rude 37.8		
Selling Price of Comming	gled Crude - \$/BBL.	12.22	· .
Daily Income - \$/Day	293,33		

Het (Gain) xxxxxxx from Wellbore Commingling ~ \$/Day 244.44 (Production Increase of 20 BOPD) based on current producing rates.



PRESENT COMPLETION

TEXACO ING.
C.H. LOCKHART (NCT-1) WELL NO. 6
TUBB AND DRINKARD POOLS
LEA COUNTY, NEW MEXTCO



THE COURTY, NEW TEXTOR

## MIST OF OFFSET OPERATORS

TEMACO Inc.
C. H. Lockhart Federal NCT-1 Hell Ho. 6
Loc County, New Haxico

American Petrofina Company of Toxus Duawer D Artesia, New Mexico 88210

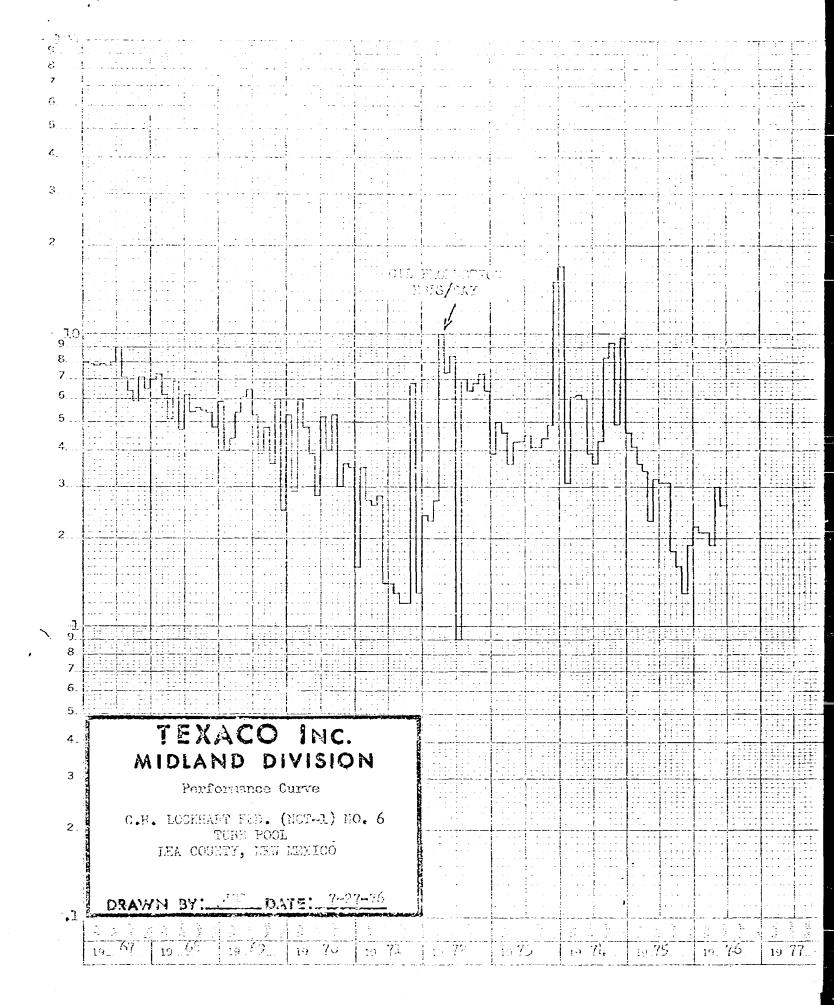
Oulf Oil Corp. - Hobbs Area P.O. Box 670 Hobbs, New Mexico 83240

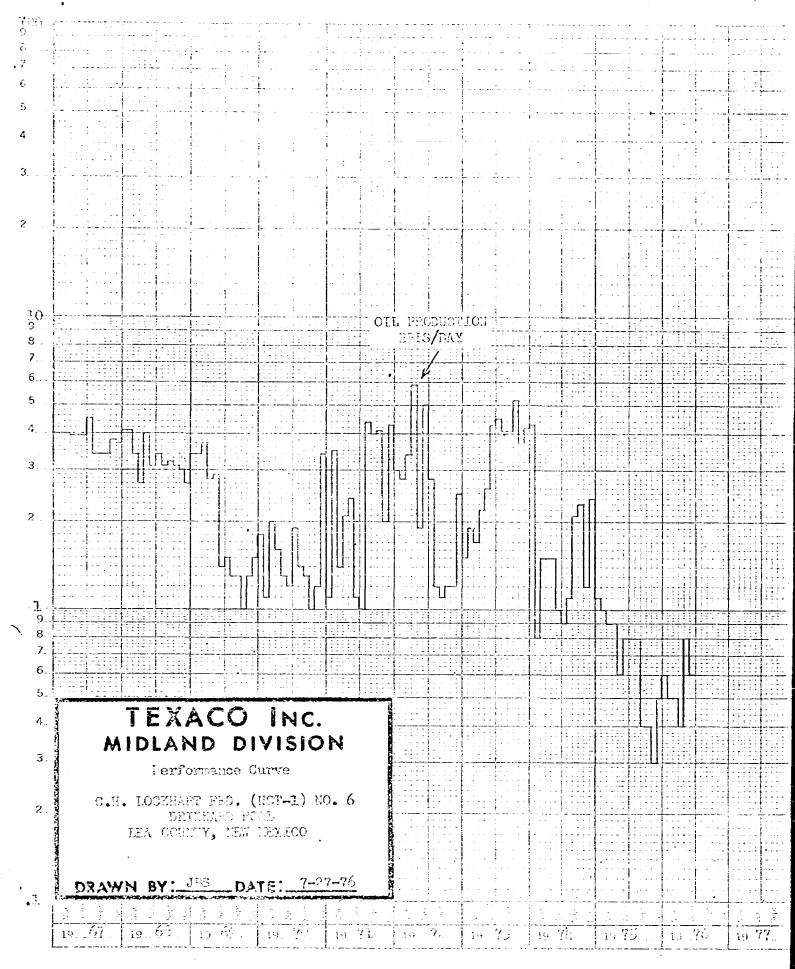
Exxon P.O. Box 2100 Hobbs, New Marcico 88240

Mabee Petroleum Corp. 201 lst Savinge Building Hidland, Texas 79701

Mark Production 330 Citizans Sank Suilding Tylar, Toxas 75701

Penrose Production Company P.O. Box 938 Eunice, New Mexico 88231





dr/

# BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:	
	CASE NO. 5731
	Order No. R- 5272
APPLICATION OF TEXACO INC.	
FOR DOWNHOLE COMMINGLING, LEA	
COUNTY, NEW MEXICO.	· ·
ORDER OF THE C	COMMISSION
BY THE COMMISSION:	Ve
•	ng at 9 a.m. on August 18
19 76, at Santa Fe, New Mexico,	before Examiner Richard L. Stamets.
NOW, on this day of a quorum being present, having coand the recommendations of the Exin the premises,	August , 1976 , the Commission, onsidered the testimony, the record, caminer, and being fully advised
FINDS:	
	having been given as required by tion of this cause and the subject
(2) That the applicant,	TEXACO Inc. , is the
	Lockhart Federal Well/, located
in Unit $\hat{G}$ of Section $18$ , $T$	Cownship 22 South , Range
38 East , NMPM, Lea	County, New Mexico.
(7) That the applicant seek	as authority to commingle
Blinebry, <del>Drinkard</del> and	Jubb Drinkard production
within the wellbore of the above-	described well.
from the Tubb and Drinker	rently a ompleted to produce d Pools.
· · · · · · · · · · · · · · · · · · ·	und Drinkard zones, the
subject well is capable of low, me	attad,
	•
(g) That the proposed commi	ingling may result in the recovery
of additional hydrocarbons from e	each of the subject pools, thereby
preventing waste, and will not vi	
(5) That The opplicant will in such a mamme the Blinebry 20	proposes to recomplete said er as to also produce from me.
	tineby zone, the subject to be capable of low only.
rates of production	n only.

-2- Case No. Order No. R
(q) That the reservoir characteristics of each of the
subject zones are such that underground waste would not be caused
by the proposed commingling previded that the well is not shut-in
for an extended period.
(10) That to afford the Commission the opportunity to assess
the potential for waste and to expeditiously order appropriate
remedial action, the operator should notify the Hobbs district
office of the Commission any time the subject well is shut-in for
7 consecutive days.
(11) That in order to allocate the commingled production to each of the commingled zones in each of the subject wells, the operator, upon completion of the wells, should consult with the supervisor of the Hobbs district office of the Commission to determine an allocation formula.
to the Bline ry zone, axa percent of the commingled production to the Drinkard
zone., and percent of the commingled production shall a liecated to the lubb zone.  IT IS THEREFORE ORDERED:
(1) That the applicant, <u>Texaco Inc.</u> , is
hereby authorized to commingle Blinebry, Tubb, and
Drinkard production within the wellbore
of the C. H. Lockhart Federal Well No. 6 , located in Unit G
of Section 18, Township 22 South, Range 38
East , NMPM, Lea County, New Mexico.
(2) That upon completion of each of said well, to produce from the Blinebry, Tubb, and Drink formations, the applicant shall consult with the supervisor of the Hobbs district office of the Commission to determine the proper formula for allocation

bе

fr sh of oil and gas production to each zone open in **urinkard** ..... De allocated to the

zone, and percent of the commingled (3) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.