

CIL CCP	Case No.
6070	6069
Submitted by	JR Core
Hearing Date	20 Oct 77

The proposed East Blinebry-Drinkard units, if approved, will unitize the Blinebry and Drinkard reservoirs of the unit area. Sandwiched between these two reservoirs is the Tubb formation which is productive of gas. Also immediately underlying the Drinkard is found the Wichita Albany-Abo formation which is an established source of supply of oil and gas from the unit area.

In the case of the Eubanks lease (Tract 13 to the Unit) some 46.5% of the known reserve is credited to the Tubb formation and 21.4% credited to the Abo formation. Therefore, we find 67.9% of the proven and productive reserve in formations which are adjacent to the proposed unitized formations and recoverable from bore holes that are also necessary for prosecution of the proposed plan of operation of the units.

The Unit Operating Agreements for which approval is being considered here provides through Paragraph 11.1 on page 17 that the operators of each 40 acre tract of the proposed unit contribute a usable well bore for that tract or be assessed an amount of money up to \$200,000 for each such well bore not so contributed. There is no provision for the Unit Working Interest Owners or its operators to compensate the contributing Working Interest Owners for loss of access to usable well bores in existence at the time of unitization that have been designed and planned for unitization in the recovery of Tubb or Abo reserve underlying the tracts included in this Unit.

The Eubanks lease contains four (4) well bores providing access to Blinebry, Tubb, Drinkard and Abo formations. If the terms of the Unit Operating Agreement are approved as they are presented here the Working Interest Owners of Tract 13 will be denied existing bore hole access to 67.9% of these proven and productive reserve or be assessed a major economic penalty. It is evident from this that the Unit Operating Agreement contains provisions allowing the Unit interest to confiscate valuable property without compensation.

It should also be pointed out that proven and producing natural gas reserves represented by the Tubb formation underlying the Eubanks (Tract 13) lease, as well as others of the area, are dedicated to El Paso Natural Gas Company through a Certificate of Necessity granted by the Federal Power Commission. If this access to producing Tubb gas is denied or damaged the owners of this lease will be faced with the obligation of providing a new bore hole through which the so dedicated gas may be delivered.

The economic implication of the proposed bore hole delivery or economic penalty requirement results in severe economic penalties to the owners of the Eubanks (Tract 13) lease, as well as assessable liability for loss of reserves dedicated to an interstate market under the rules of the Federal Power Commission.

Futhermore, the loss of bore hole accessibility will require major capital expenditures to recover known Abo reserves. These penalties alone could be severe enough to prohibit the recovery of known reserve and thereby cause the loss of valuable oil and gas reserves.

It is evident that the owners of leases occupying the eastern one half of the proposed unit are operating properties that are near economic limit of primary recovery from the Blinebry and Drinkard formations. We concur that these operators should consider some form of enhanced recovery to force the production of the natural resources known to remain in those formations. Those leases in the western portion of the unit are producing at rates substantially greater than the economic limit of primary production. At present rates of decline, some five to ten years will be required for the western wells to reach the present level of production experienced by the eastern wells.

The eastern portion of the proposed units do not appear to represent the significant volumes of Tubb or Abo reserves that are known to exist in the western portion of the area in question. Therefore, the economic loss of access to valuable natural resources in that eastern portion of the area may not be as great as that of the western part of the unit area.

Therefore, if applicable any attempt at conducting an enhanced recovery program should by all reasonable logic be confined to the eastern portion of the proposed unit area and prosecuted to a point that would prove without doubt that such methods of recovery are truly applicable and efficient before consideration is given to expansion of the unit operating area and methods of recovery are allowed to expand into the western area of significant remaining primary reserves and resources contained in Tubb and Abo formations.

The plan of operation for the proposed unit area as considered here is founded upon sound techniques that have been successful in other reservoirs. The only similar operation in the area of the proposed unit, however, is that of Gulf Oil Corporation in their Central Drinkard Unit.

The Central Drinkard Unit occupies an area, the center of which is four miles southwest from that of the proposed unit area. The Central Drinkard Unit is of comparable size to that of the Units being considered here. This size being 2,600 acres with 53 producing wells and 3,080 acres with 60 proposed producing wells respectively.

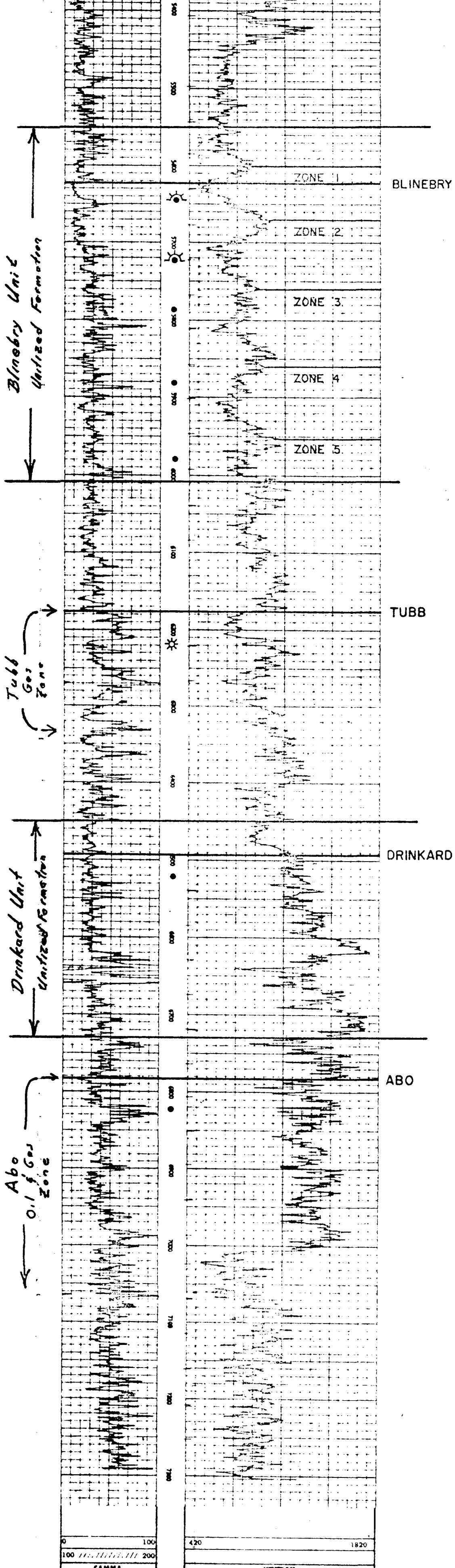
The Central Drinkard Unit should have been expected to have performed in a manner similar to that expected for the proposed East Blinebry-Drinkard Units. Yet in some five years of operation it has performed to an extent of only 25.5% of that hoped for in the area under consideration. This failure of effectiveness of the Central Drinkard Unit further emphasizes the advisability of slow orderly development of such a program from a pilot flood operation only as sound results can dictate.

If the proposed unit operations are successful to an extent of twice that thus far indicated by the Central Drinkard Unit a severe economic as well as natural resource loss for the area will result.

FIGURE 3

ATLANTIC RICHFIELD COMPANY  
**ROY BARTON NO. 3**  
1980' FNL, 660' FEL, SEC. 23  
T-21-S, R-37-E  
LEA COUNTY, NEW MEXICO  
EL. 3455'  
T.D. 7993'

CIL CONSTRUCTION CO., INC.  
Case No. 6069  
Submitted by  
Hearing Date  
J.R. Core  
20 Oct 77



**CONE ET AL - EUBANKS LEASE**  
**ECONOMIC POTENTIAL SUMMATION**  
**PRIMARY AND UNITIZED OPERATION**

SEARCHED	INDEXED
SERIALIZED	FILED
JULY 1968	
J. R. COPE	
READING DATE 20-6-72	

Bbl	McF	Value
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Continued Primary Operation

Remaining Reserve			
Blinebry	83,065	2,492,000	\$1,941,353
Drinkard	38,340	268,000	533,249
Tubb	49,870	3,955,000	3,578,300
Abo	102,900	668,000	1,646,810
	274,175	7,383,000	\$7,699,712
Cost to recover 240 mo. @ \$2,100			(504,000)
Net Value			\$7,195,712

Proposed Unitized Operation

Remaining Reserve			
Blinebry Phase I	79,220	658,531	\$1,270,860
Drinkard Phase I	35,713	296,868	572,912
Blinebry Phase II	372,397	604,372	4,273,775
Drinkard Phase II	413,593	671,229	4,746,556
	900,923	2,231,000	\$10,864,103
Cost to develop			(498,917)
Cost to recover 240 mo.			(\$ 1,862,288)
Net Value			\$ 8,502,898

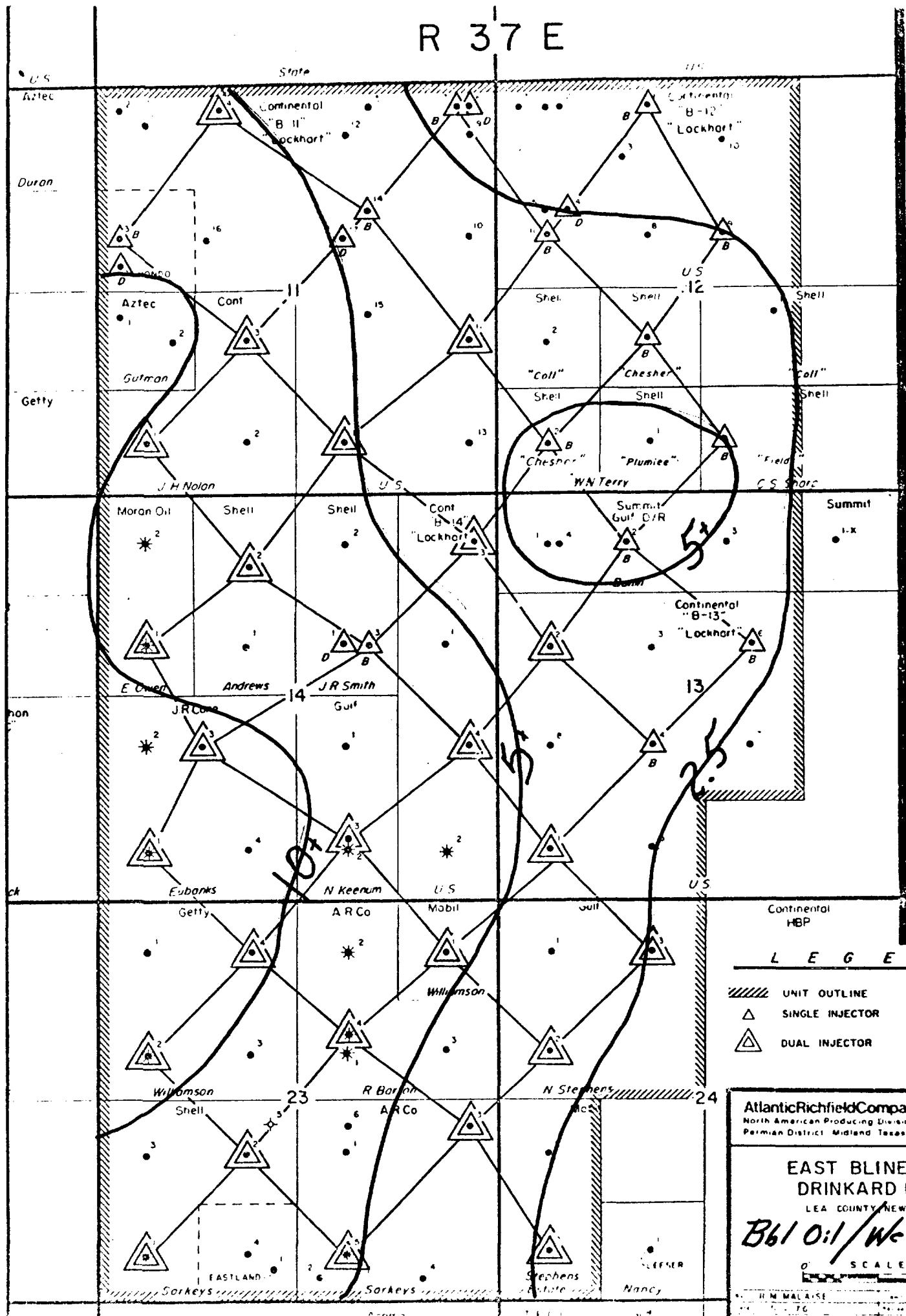
Net Increased Value by Unitization			
Risk due to failure to recover 37%	(333,324)	(825,470)	\$1,307,186 (\$3,337,553)
Net Increased (Decreased) in- cluding risk	567,581	1,405,530	(\$2,030,367)
Tubb Reserve	49,870	3,955,000	\$3,578,300
Abo Reserve	102,900	688,000	1,646,810
Cost to Develop			(600,000)
Cost to Operate 240 mo. @ \$600			(144,000)
			\$2,450,743
Risk of loss due to water flood operation 50%			(\$2,612,500)
			(\$ 161,757)





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L E G E N D

 UNIT OUTLINE  
 SINGLE INJECTOR  
 DUAL INJECTOR

B BILBERRY  
INJECTOR  
  
D DRINKARD  
INJECTOR

**Atlantic Richfield Company**  
North American Producing Division  
Permian District Midland Texas

**EAST BLINBRY &  
DRINKARD UNITS**

LEA COUNTY, NEW MEXICO

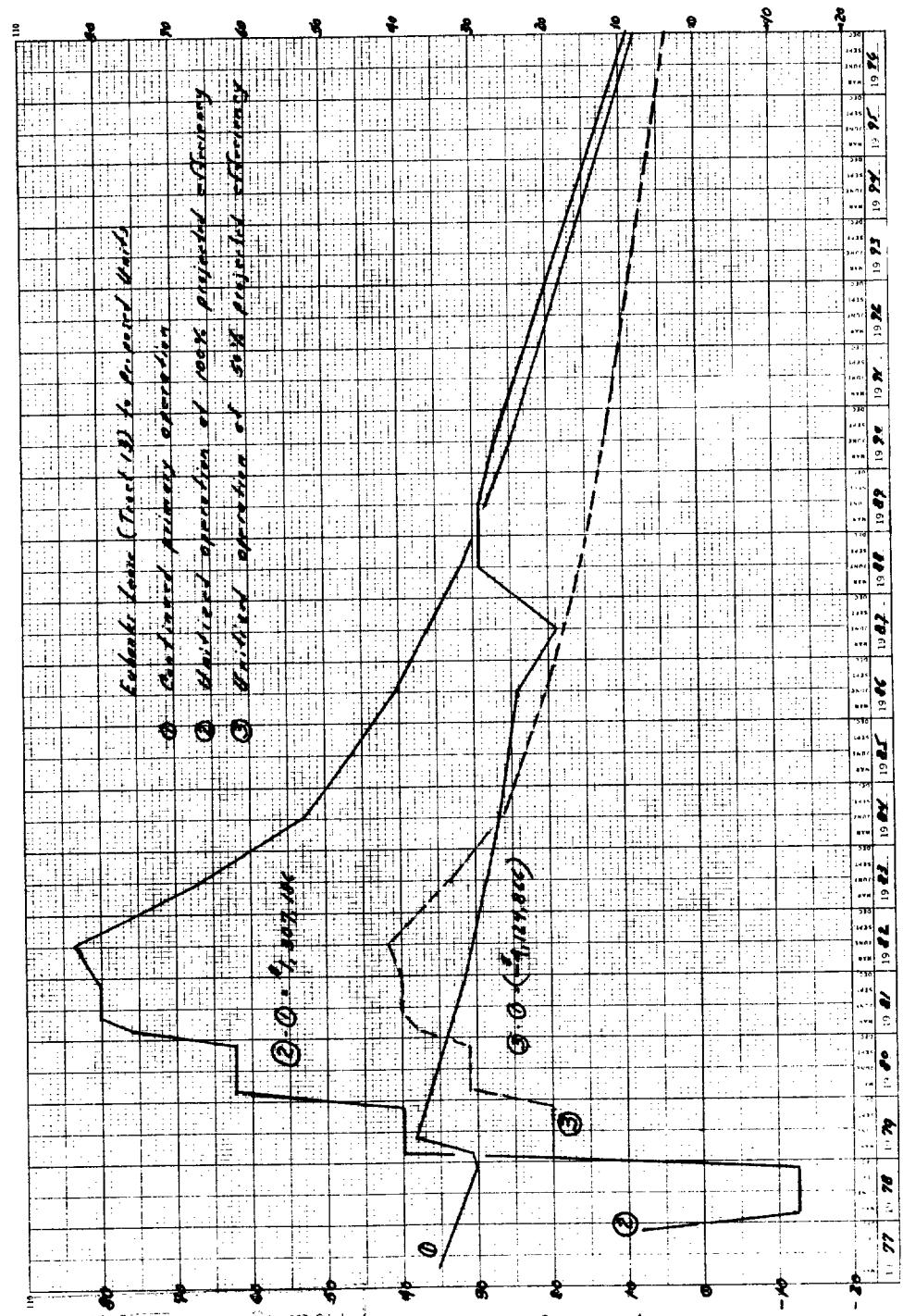
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**ANSWER**

1991-054

**16** **10-1015**



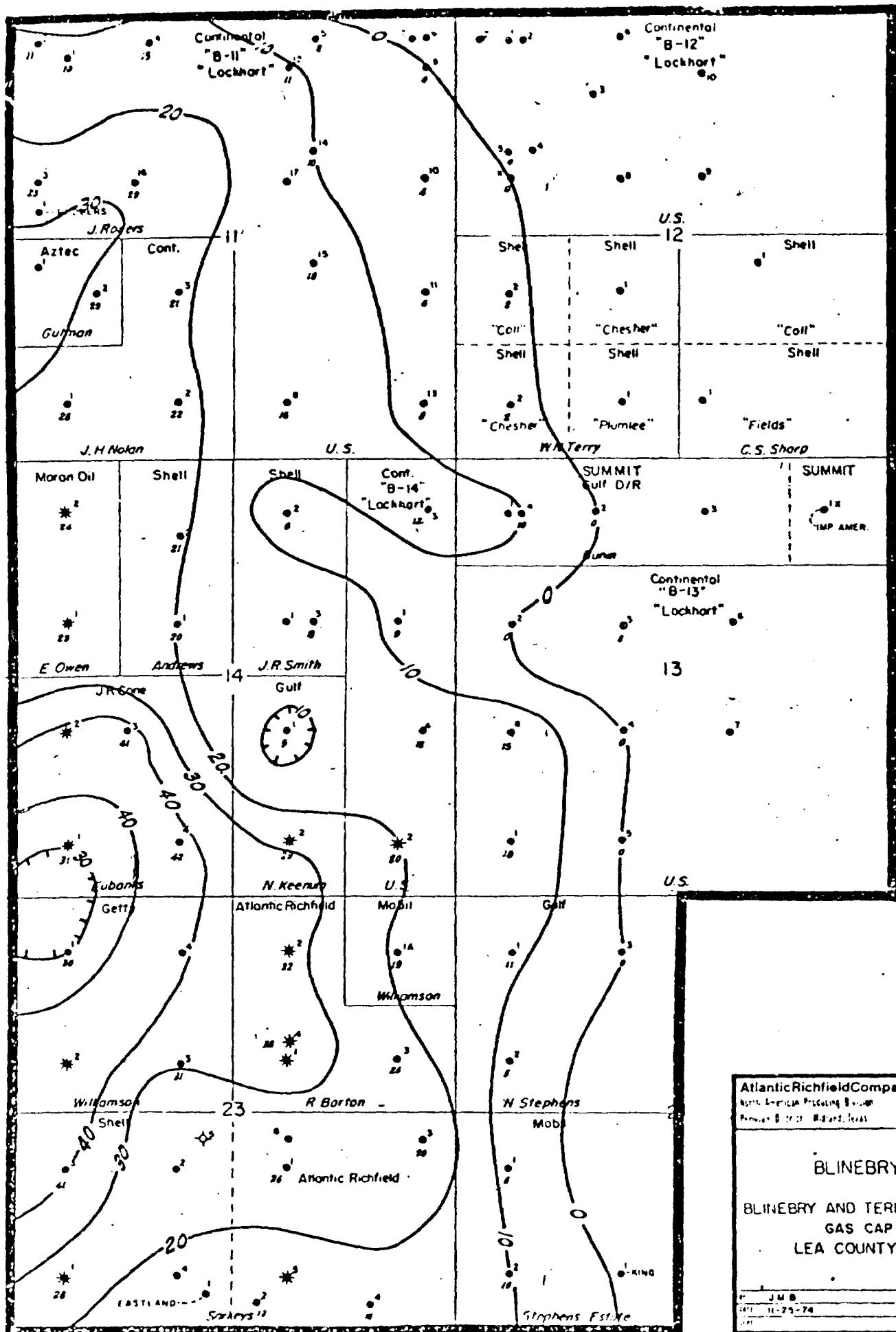


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Atlantic Richfield Company  
North American Refining Division  
Pittsburgh, PA 15222 - Midland, Texas

#### BLINEBRY UNIT

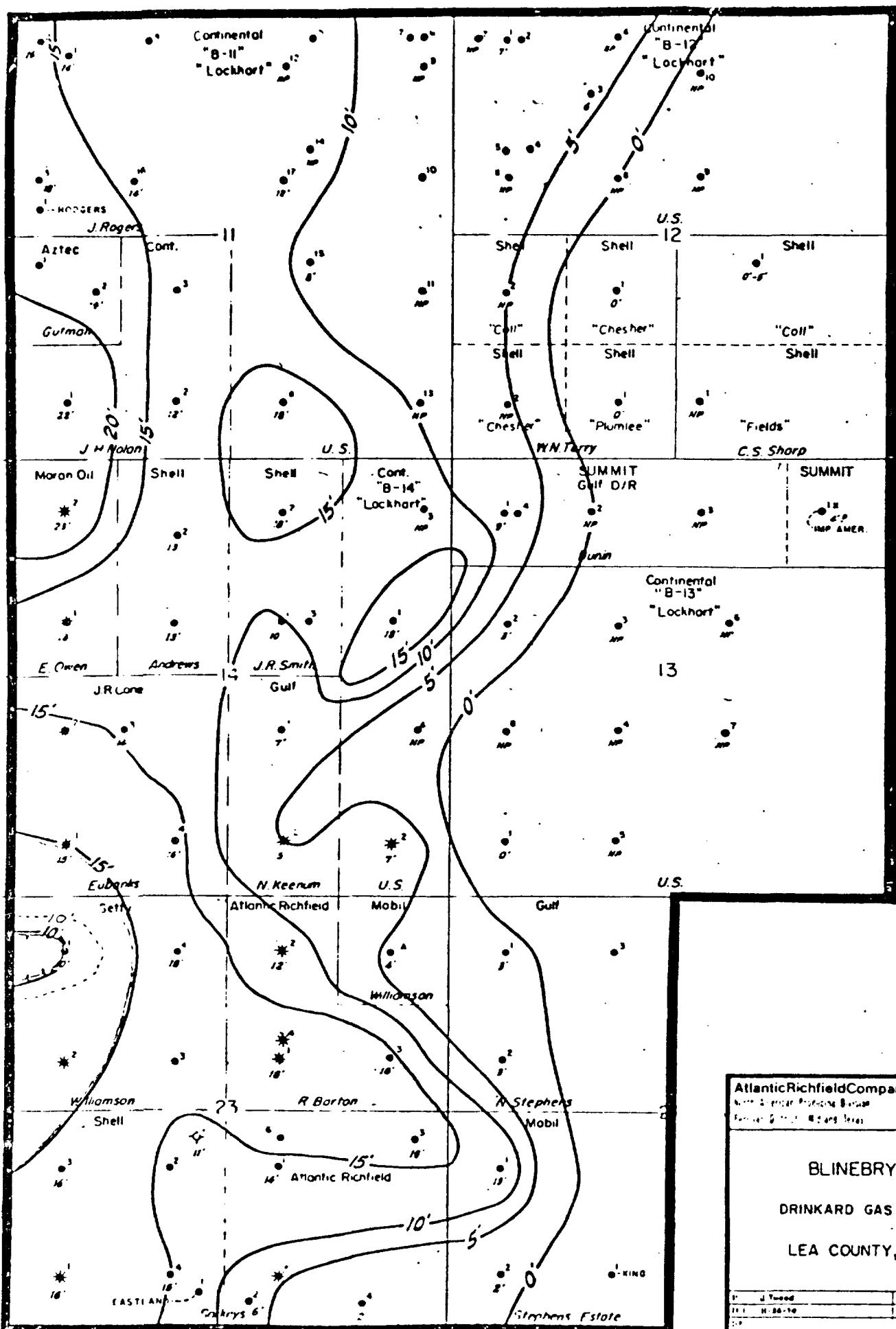
BLINEBRY AND TERRY-BLINEBRY PO  
GAS CAP ISOPACH  
LEA COUNTY, NEW MEXICO

J.M.B.	Hour C. MEERS
SAT	11-29-74
SUN	12-01-74

Added G-1000 @ Engle Co. on Hg 1-15-

DEFENDANT'S NAME	OIL COMPANY OF CALIFORNIA
Suit No.	6069
Court No.	6070
Submitted by	J R Cone
Hearing Date	20 Oct 77

R 37 E



Atlantic Richfield Company  
New Mexico Production Bureau  
Farmington, New Mexico 87401

### BLINEBRY UNIT

DRINKARD GAS CAP ISOPACH

LEA COUNTY, NEW MEXICO

1'	J. Tread	1000' C. MEETING	1000' JAN 10
10'	H. 88-10	1000' 10' Lanes	1000' 10' Lanes
20'			

Added 15' Contour @ Edge Comm 11/15/1979  
Moved 10' Contour @ Edge Comm 11/15/1979

RECEIVED THE
CIL COMMITTEE ON LAND USE
Case No. 6059
Submitted by
Hearing Date

6059 9  
J R Gove  
20 Oct 77

**EUBANKS LEASE  
OPERATING COST 1976**

	<u>Operating Cost</u>	<u># of Wells</u>	<u>\$ per Well</u>
January	\$ 3,666.52	7 Wells	\$ 523.79
February	1,855.00	" "	265.00
March	2,020.92	" "	288.70
April	25,213.28	" "	3,601.90
May	18,038.46	" "	2,576.92
June	2,702.74	" "	386.11
July	2,023.38	" "	289.05
August	1,960.75	" "	280.11
September	1,273.65	" "	181.95
October	2,507.31	" "	358.19
November	1,437.79	" "	205.40
December	<u>1,837.85</u>	" "	<u>262.55</u>
TOTALS	\$64,537.65	7 Wells	\$9,219.67

LESS: Charges  
Pumping Unit  
Lufkin C320D  
April & May: 39,279.29

Average Cost  
Per Well Per Month: \$300.70

TOTAL \$25,258.36

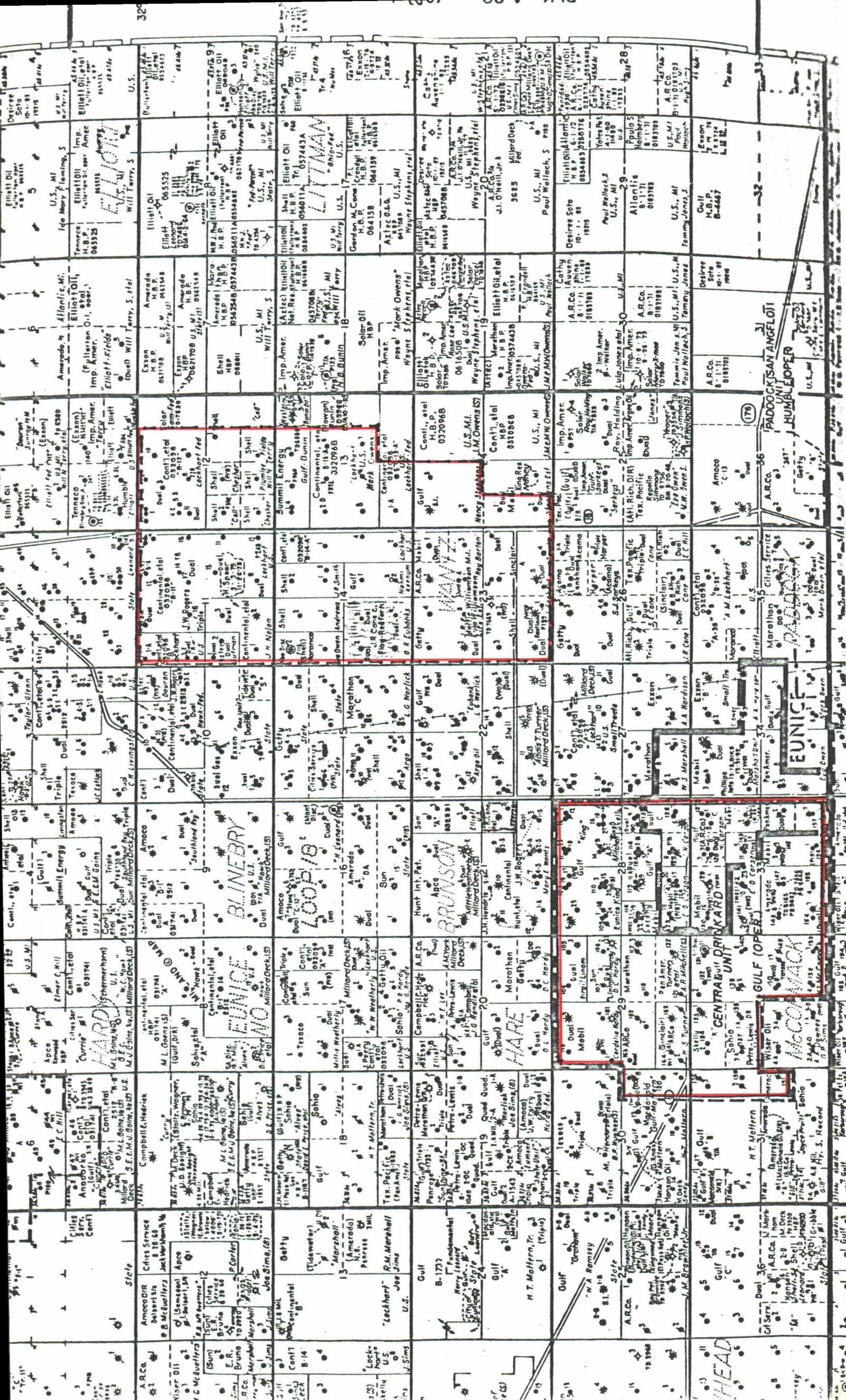
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R.C.H.  
20 Oct 77

EUBANKS LEASE  
OPERATING COST 1977

	<u>Operating Cost</u>	<u># of Wells</u>	<u>\$ per Well</u>
January	\$ 2,254.91	7 Wells	\$ 322.13
February	1,363.16	" "	194.74
March	1,777.95	" "	253.99
April	2,782.13	" "	397.45
May	2,273.82	" "	324.83
June	1,460.08	" "	208.58
July	2,790.35	" "	398.62
August	2,137.94	" "	305.42
September	<u>1,845.08</u>	<u>" "</u>	<u>263.58</u>
TOTALS	\$18,685.42	7 Wells	\$2,669.34

Average Cost  
Per Well Per Month: \$296.59

6078  
 6069 11  
 JR Cope  
 20 Oct 77



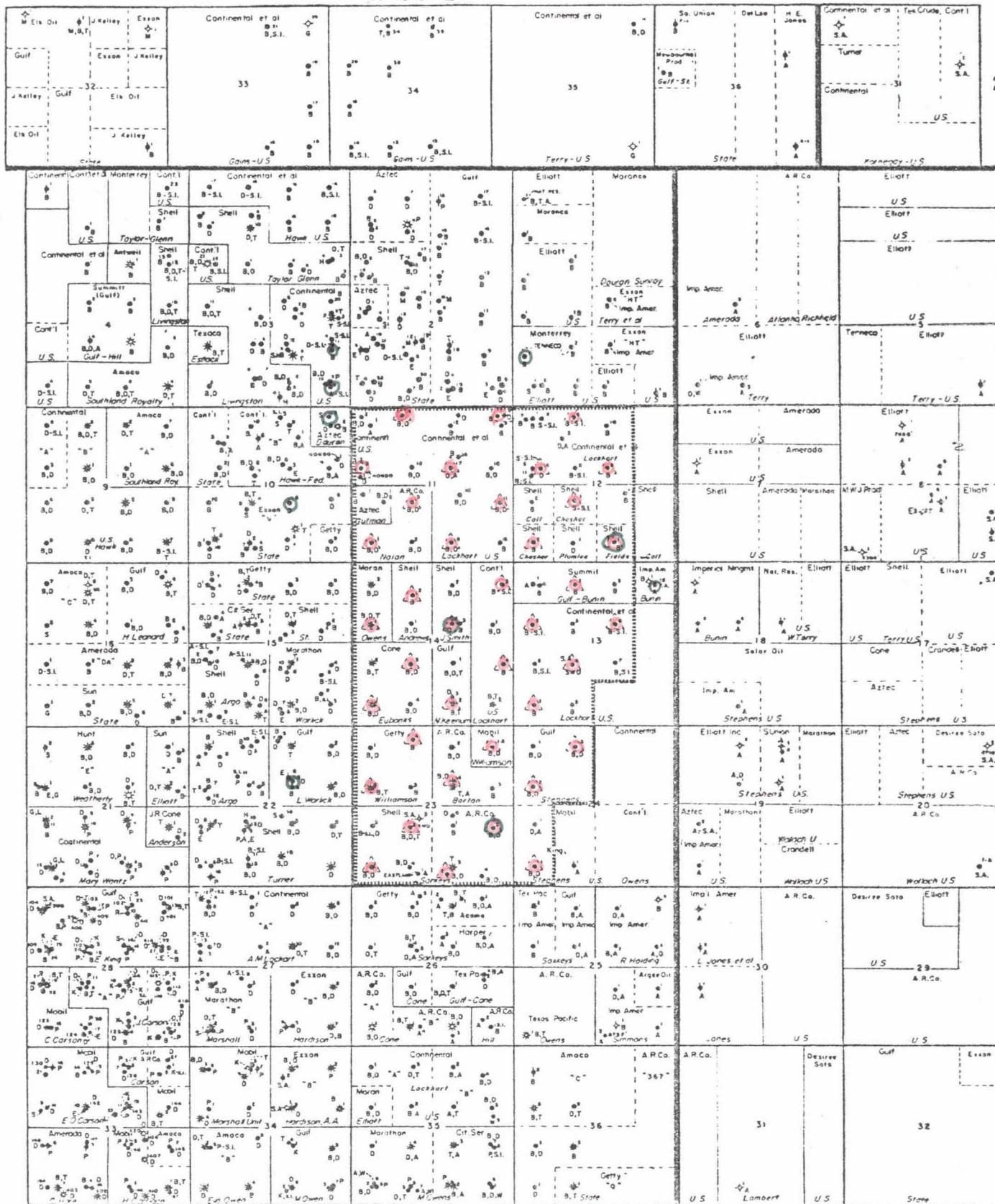
BEFORE THE  
OIL COMMISSIONER COMMISSION  
State of New Mexico

Case No. 6069 Docket No. 12  
Submitted by JR Core  
Hearing Date aoct 77

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R 39 E

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R 37 E

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ISSUEITEM UNIT OUTLINE

24 SAN ANGELO 25 WANTS ABC

P PADDICK S HARE SIMPSON

B BLINDBRY E BRUNSON ELLENBURGE

D DRINKARD W WANTZ GRANITE WASH

RECORDED IN 55750

2 QUEEN

Atlantic Richfield Company  
Corporate Headquarters

EAST BLINEBRY &  
EAST DRINKARD UNIT  
LEA COUNTY, NEW MEXICO

ZONE OF  
COMPLETION MAP

O S C A L E 400

REASON FOR

EXHIBIT I