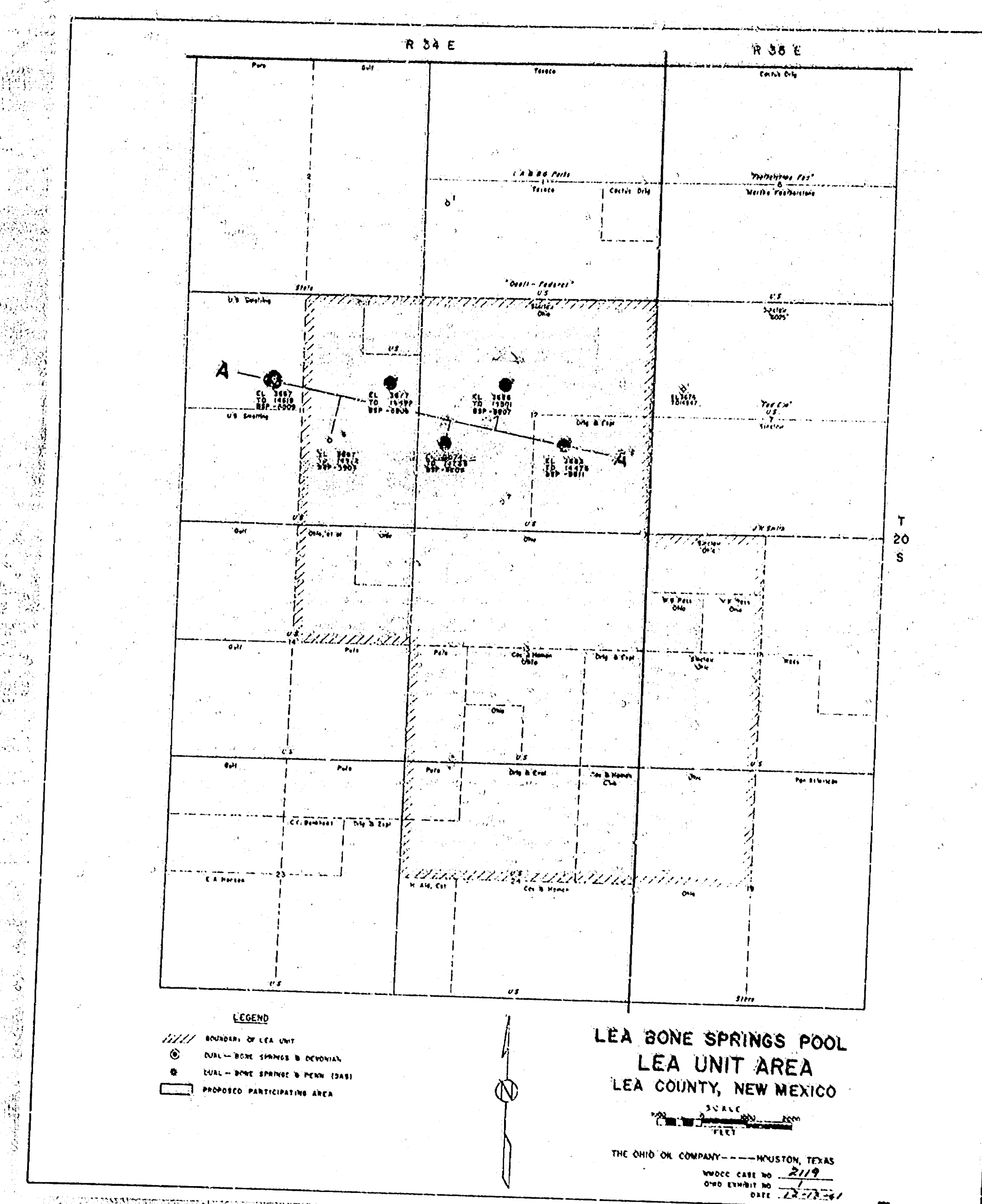
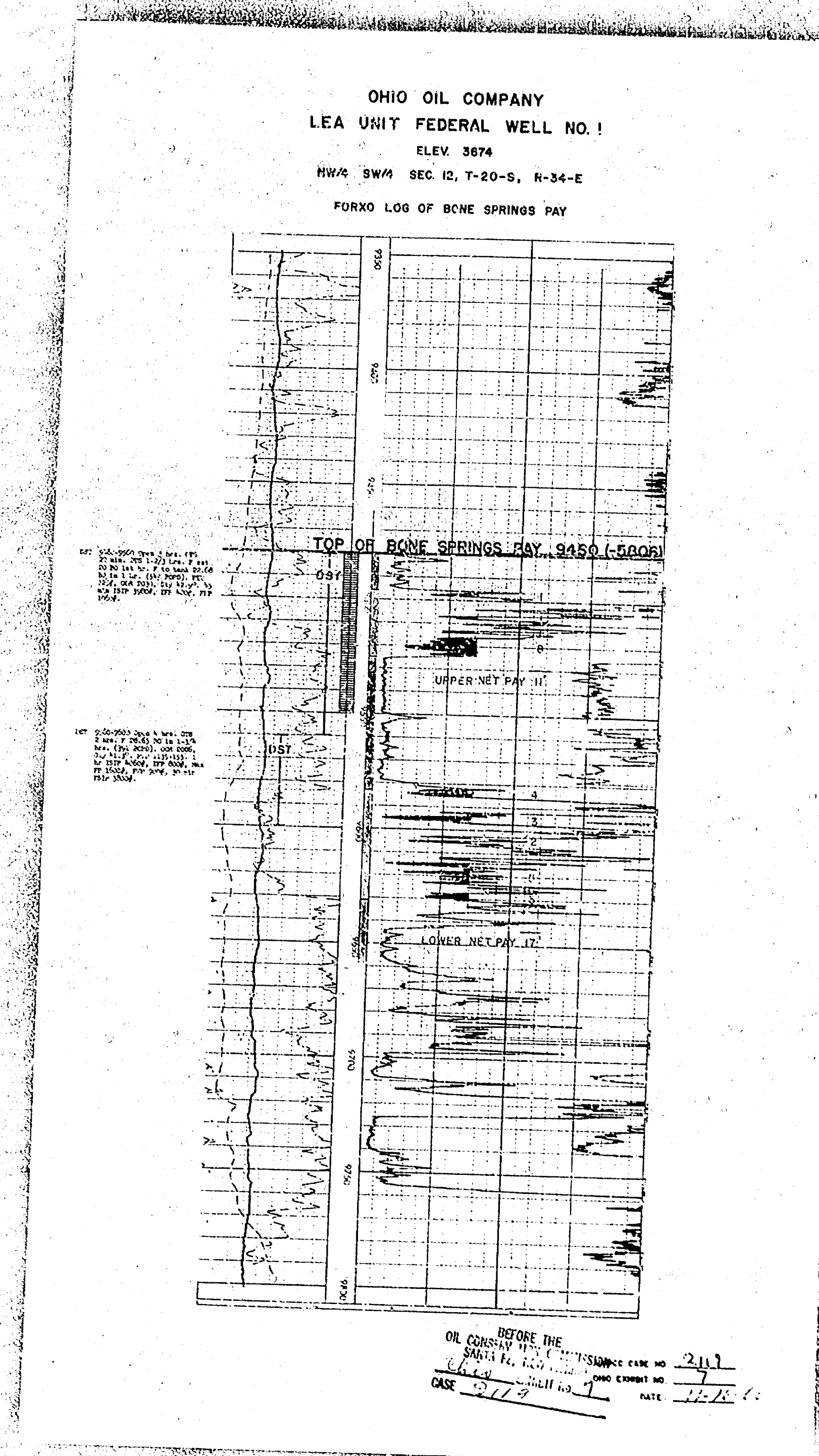


Case No.
2119

Large Exhibits







COMPARATIVE ECONOMICS FOR DEVELOPMENT OF 100,000 ACRES OF OIL	
40-ACRE SPACING VS. 80-ACRE SPACING	
Minimum Area Expected to be Productive	800 Acres
Wells Required with 40 Acre Spacing	20 Wells
Wells Required with 80 Acre Spacing	10 Wells
Investment \$125,000 per well	
For 40 Acre Spacing (20 Wells)	\$4,500,000
For 80 Acre Spacing (10 Wells)	\$2,500,000
Investment for Dual Completion \$25,000 per Well	
For 40 Acre Spacing (20 Wells)	\$500,000
For 80 Acre Spacing (10 Wells)	\$250,000
Ultimate Reserves	
Oil	125,800 bbls.
Gas @ 2000 cu. ft. per bbl.	2,516,000 MCF
W.I. Net Operating Income Per Gross Bbl. of Oil	
Produced Including Income from Gas Produced With Oil	
Value	\$ 2.77
Bbl. of oil	0.50
2000 cu. ft. of gas	0.50
Total Gross Value	\$ 3.77
Costs	
Severance & Advalorem Taxes	\$0.21
Royalty	0.37
Lifting Costs	0.25
Net Operating Income per Gross Bbl.	\$ 3.00
W.I. Total Net Operating Income	\$1,797,520
125,800 bbl. @ \$14.29/bbl.	\$1,812,480
Net Loss for 40-Acre Spacing	\$157,624
Net Loss per Well	\$7,881
Net Loss for 80-Acre Spacing	\$50,000
Net Loss per Well	\$5,000
Net Profit for Dual Completion for 40-Acre Spacing	\$1,297,520
Net Profit per Well	\$64,876
Profit to Investment Ratio	0.50 to 1
Net Profit for Dual Completion for 80-Acre Spacing	\$1,547,520
Net Profit per Well	\$154,752
Profit to Investment Ratio	5.99 to 1
ENRCC Case No. 2119	
Ohio Exhibit No. 10	
Date 1/16-66	
DR 770	REPOR. INT.
FILED	FILED
DATE 2/11/77	



RECOVERABLE OIL RESERVE
15A BONE SPRINGS POOL

BOLOMITY INTERVAL: Basic Data

Porosity - 2.0% (core analysis #2 well)
Permeability - 1.39 md (core analysis #2 well)
Net Pay - 28 ft. (core #2 well)
Water Saturation - 35% (estimated)
Recovery Factor - 20% (estimated)
Formation Volume Factor - 1.95 (estimated)

Volumetric Calculation

$7758 \text{ bbl/Acre-Foot} \times \text{Porosity} \times (1 - \text{Water Saturation}) \times \text{Net Pay} \times \text{Recovery Factor}$
Formation Volume Factor
 $(7758)(0.020)(0.65)(28) = 476 \text{ bbl/acre}$
1.95

SAND INTERVAL: Basic Data

Porosity - 10.5% (core analysis #2 well)
Permeability - 0.25 md (core analysis #2 well)
Net Pay - 19 ft. (core analysis #2 well)
Water Saturation - 35% (estimated)
Recovery Factor - 10% (estimated)
Formation Volume Factor - 1.95 (estimated)

Volumetric Calculations

$7758 \text{ bbl/Acre-Foot} \times \text{Porosity} \times (1 - \text{Water Saturation}) \times \text{Net Pay} \times \text{Recovery Factor}$
Formation Volume Factor
 $(7758)(0.105)(0.65)(19) = 540 \text{ bbl/acre}$
1.95

TOTAL BONE SPRINGS INTERVAL:

Zone Total = 476 + 540 = 1016 bbl/acre

NOOCO Case No. 244 BEFORE THE
OIL COMMISSION
Case Exhibit No. 9 LIT. 1-3-60
Date 11-16-60 Chas. J. 2117
CJC

CORE ANALYSIS
15A UNIT WELL NO. 2
BONE SPRINGS PAY
LOWER MIDDLE INTERVAL 9607-9618
PERMEABILITY EQUAL TO OR GREATER THAN 0.1 MILLIDARBY

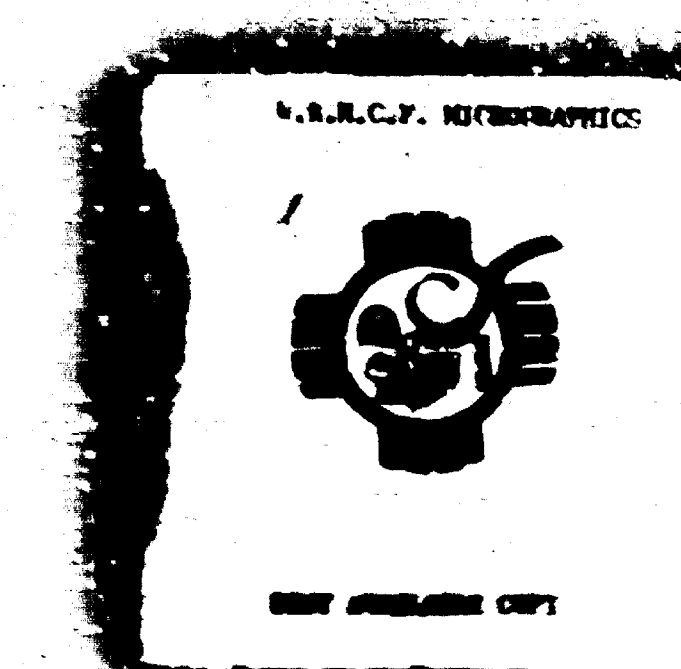
Depth Interval	Footage	Permeability md.	Porosity %
9607.6-09.1	1.5	1.0	2.8
09.1-10.8	1.7	0.2	1.4
13.7-15.6	1.9	1.8	2.4
15.6-17.0	1.4	10.0	2.7
17.0-18.0	1.0	0.2	2.9
21.0-22.5	1.5	23.0	5.9
22.5-23.7	1.2	6.5	3.1
23.7-25.2	1.5	2.8	2.3
25.2-26.3	1.1	2.3	3.3
26.3-29.5	3.2	2.1	6.1
32.3-34.0	1.7	6.1	2.4
34.0-36.0	2.0	0.7	2.0
44.5-45.5	1.0	0.3	3.2
Net Pay	19.8 ft.		
Weighted Average	4.39 md		3.0%

2.

CORE ANALYSIS
15A UNIT WELL NO. 2
BONE SPRINGS PAY
LOWER SAND INTERVAL 9565-9607
PERMEABILITY EQUAL TO OR GREATER THAN 0.1 MILLIDARBY

Depth Interval	Footage	Permeability md.	Porosity %
9566.0-67.0	1.0	0.3	9.6
72.0-73.0	1.0	0.1	9.3
75.0-76.0	1.0	0.1	10.3
76.0-77.0	1.0	0.6	14.5
77.0-78.0	1.0	0.4	13.3
79.0-80.0	1.0	0.1	8.6
80.0-81.0	1.0	0.1	8.0
81.0-82.0	1.0	0.1	7.7
82.0-83.0	1.0	0.1	8.3
83.0-84.0	1.0	0.1	9.5
84.0-85.0	1.0	0.1	10.4
85.0-86.0	1.0	0.4	14.9
86.0-87.0	1.0	0.4	11.5
94.0-95.0	1.0	0.1	6.0
95.0-96.0	1.0	0.1	7.5
96.0-97.0	1.0	0.1	8.0
97.0-98.0	1.0	0.4	12.5
98.0-99.0	1.0	0.6	12.8
99.0-100.0	1.0	0.4	10.8
Net Pay	19.0 ft.		
Weighted Average	0.25 md		10.2%

3.



RECOVERABLE OIL RESERVES
LDA DOME SPRINGS POOL

Basic Data

Porosity	=	3.34% (Core Analysis #2 & #4)
Net Pay	=	16 feet (6 well average)
Water Saturation	=	30% (estimated)
Recovery Factor	=	25% (estimated)
Formation Volume Factor	=	1.50 (estimated)

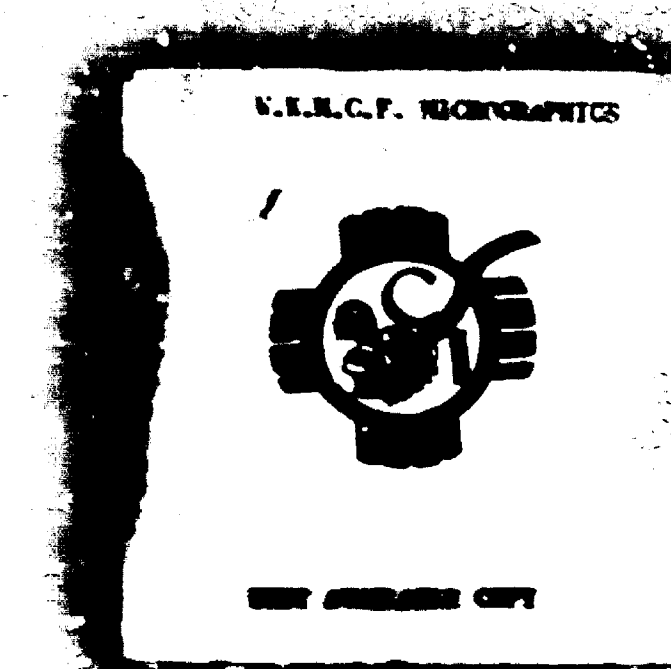
Volumetric Calculations

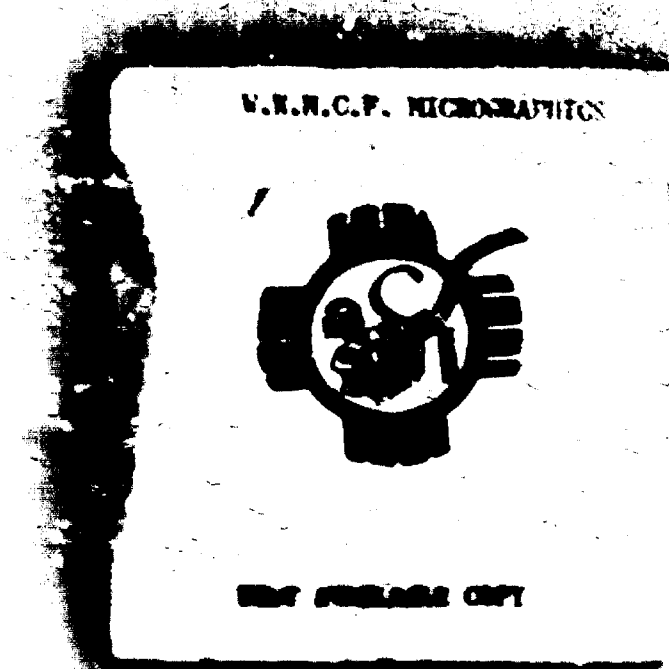
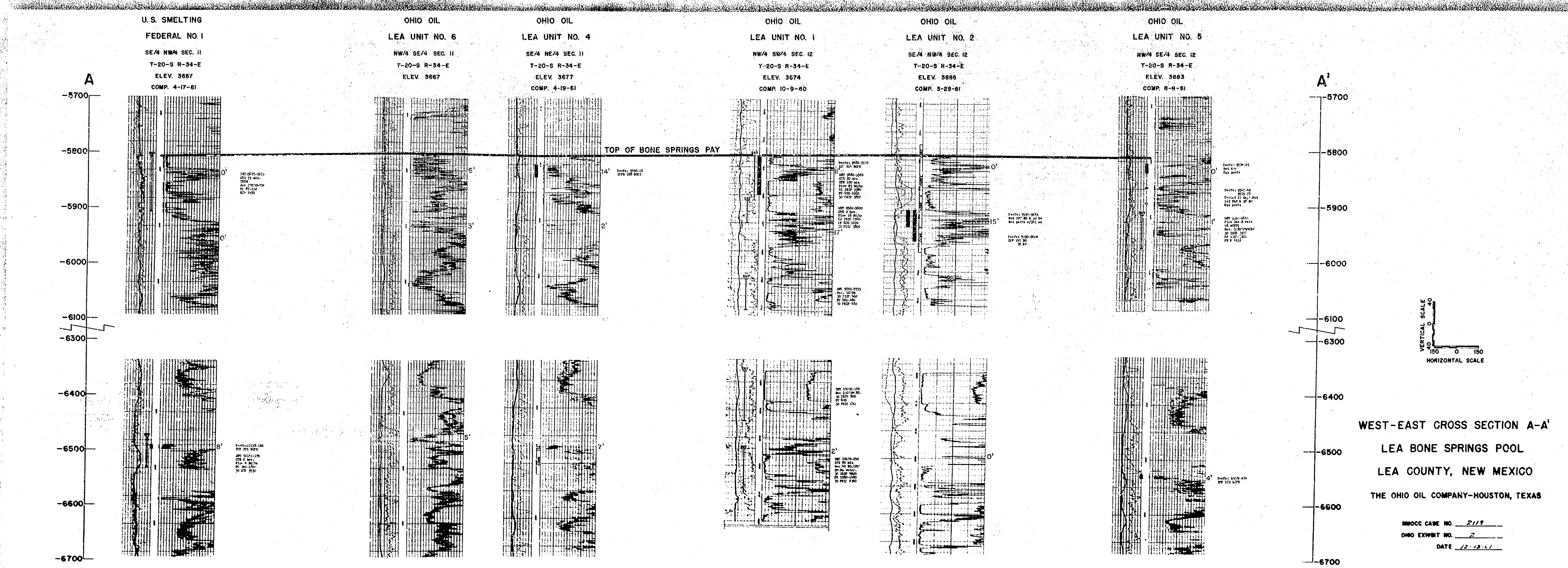
$7728 \text{ bbl/acre-ft.} \times \text{Porosity} \times (\text{1-Water Saturation}) \times \text{Net Pay} \times \text{Recovery Factor}$
 $\text{Formation Volume Factor}$

$\frac{(7728)(.0334)(.70)(16)}{1.50} = 483 \text{ bbl/acre}$

SWDC Case No. 2118
Ohio Exhibit No. 2
Date 12-11-67

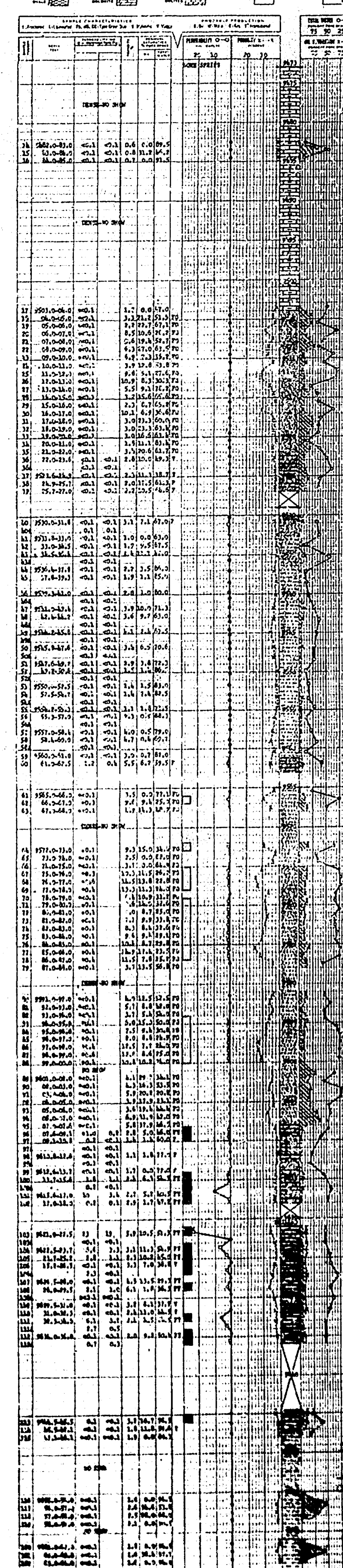
483
90
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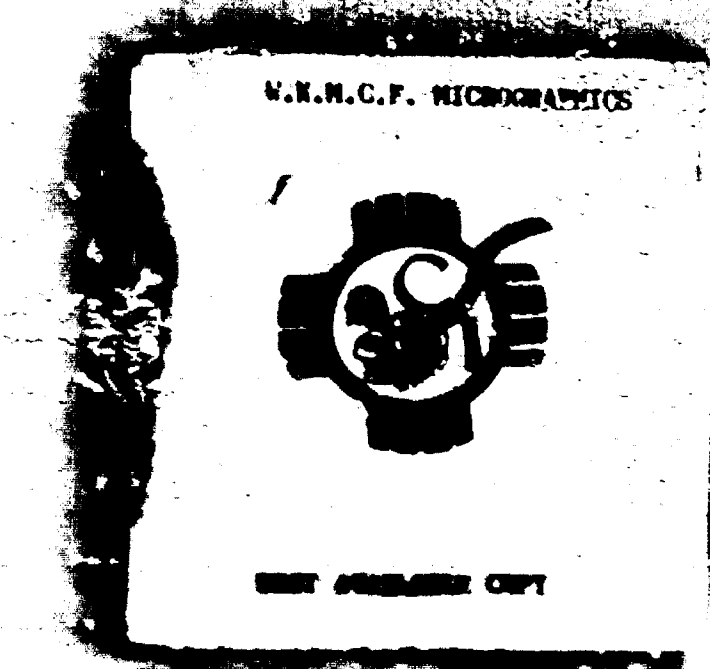


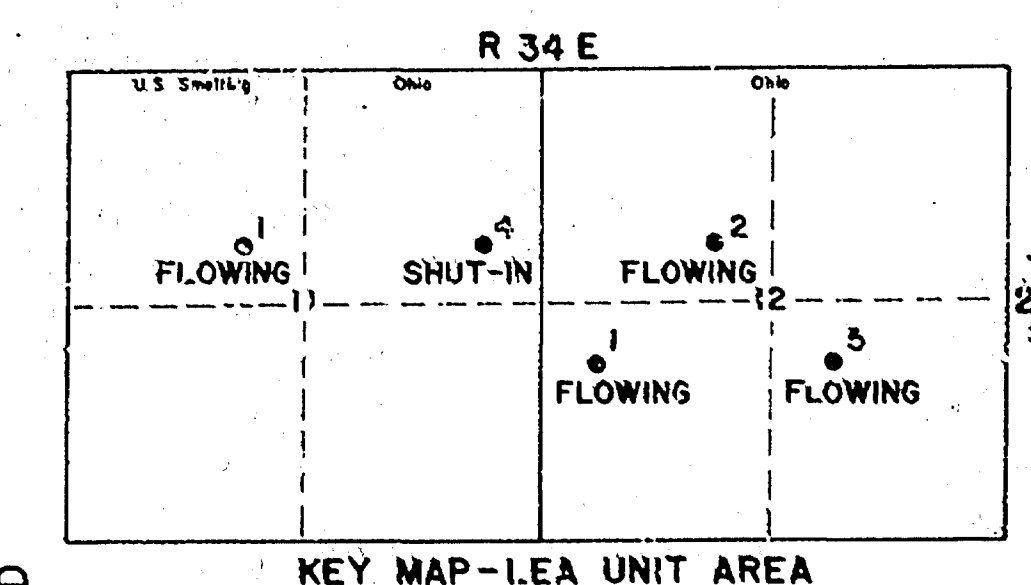
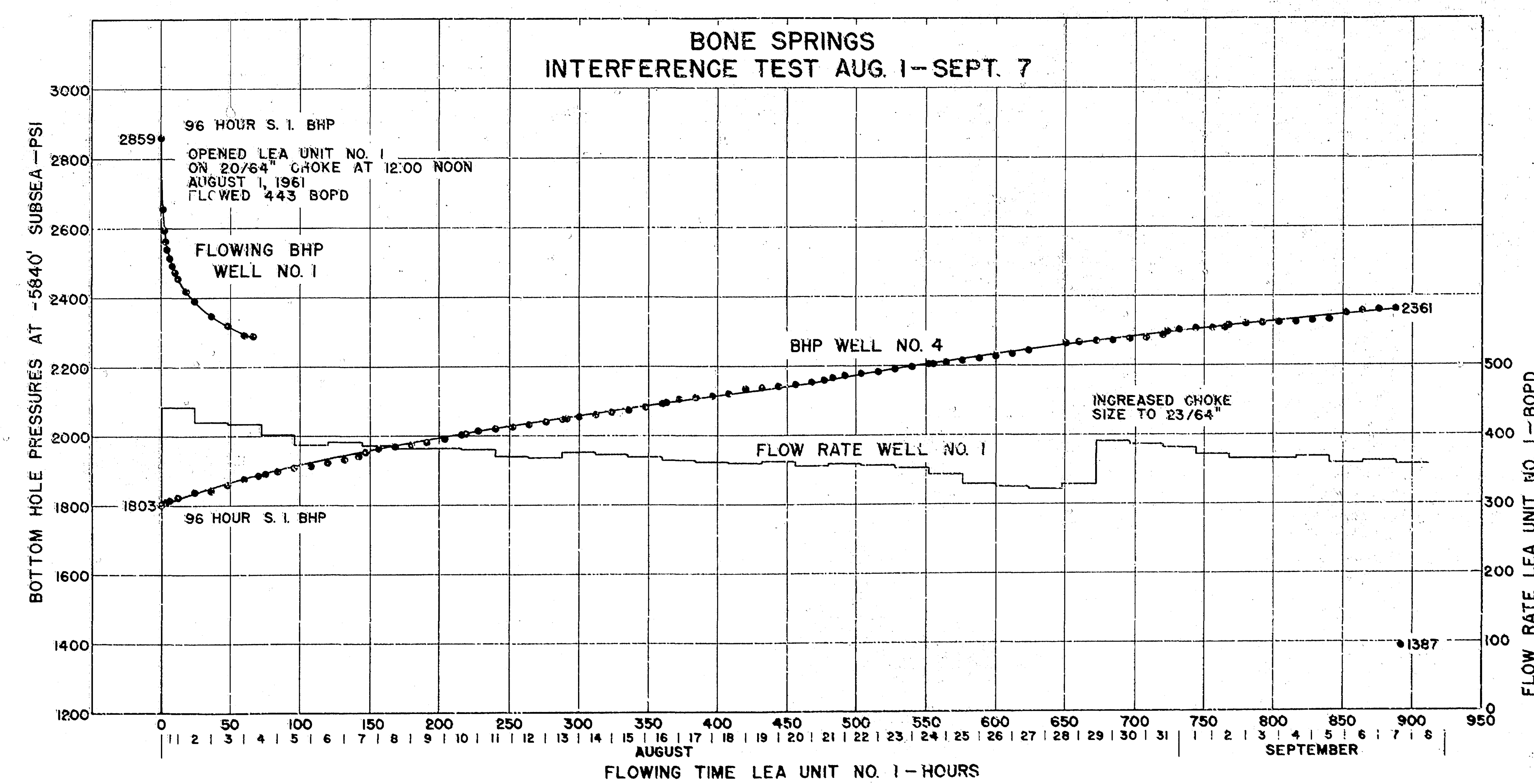
COMPLETION COREGRAPH OF BONE SPRINGS P.

DATE 11/11/2011 TIME 11:11 AM



BEFORE THE
SANTA FE, N.M.
2-1-9
INVOICE CASE NO 2119
CASH EXCHG? NO 6
DATE 11-18-





BOTTOM HOLE PRESSURE
VS.
FLOWING TIME LEA UNIT NO. 1
BONE SPRINGS INTERFERENCE TEST
LEA UNIT NO. 4 SHUT-IN
AUGUST 1 TO SEPTEMBER 7, 1961

WMOCC CASE NO. 2029
OHO EVENT NO. 1
DATE 1/2/62

