

5596

PATRICK H. LYONS
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

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COMMISSIONER'S OFFICE

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www.nmstatelands.org

May 5, 2003

RECEIVED

MAY 06 2003

OIL CONSERVATION
DIVISION

Tipton Oil & Gas Acquisitions
P.O. Box 1234
Lovington, New Mexico 88260

Attn: Mr. Clay Tipton

Re: 2003 Plan of Development
Double L Queen Unit
Chaves County, New Mexico

Dear Mr. Tipton:

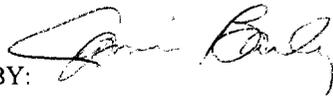
The Commissioner of Public Lands has, of this date, approved the above-captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the unit area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

PATRICK H. LYONS
COMMISSIONER OF PUBLIC LANDS

BY: 
JAMI BAILEY, Director
Oil, Gas and Minerals Division
(505) 827-5744

PL/JB/cpm
xc: Reader File

OCD

BLM

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**New Mexico State Land Office
Commissioner of Public Lands
Ray Powell, M.S., D.V.M.**

COMMERCIAL RESOURCES

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MINERAL RESOURCES

Phone (505) 827-5744
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ROYALTY MANAGEMENT

Phone (505) 827-5772
Fax (505) 827-4739

SURFACE RESOURCES

Phone (505) 827-5793
Fax (505) 827-5711

April 10, 2002

Tipton Oil & Gas Acquisitions
P.O. Box 1234
Lovington, New Mexico 88260

Attn: Ms. Debbie McKelvey

Re: 2002 Plan of Development
Double L Queen Unit
Chaves County, New Mexico

Dear Ms. McKelvey:

The Commissioner of Public Lands has, of this date, approved the above-captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the unit area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY:


JAMI BAILEY, Director
Oil, Gas and Minerals Division
(505) 827-5744

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**New Mexico State Land Office
Commissioner of Public Lands
Ray Powell, M.S., D.V.M.**

April 10, 2002

Tipton Oil & Gas Acquisitions
P.O. Box 1234
Lovington, New Mexico 88260

Attn: Ms. Debbie McKelvey

Re: Resignation/Designation of Successor Unit Operator
Double L Queen Unit
Chaves County, New Mexico

Dear Ms. McKelvey:

We are in receipt of your resignation/designation of successor unit operator, wherein Saga Petroleum Limited Liability Company has resigned as unit operator of the Double L Queen Unit and designated Tipton Oil & Gas Acquisitions as the successor unit operator.

The Commissioner of Public Lands has this date approved the resignation of wherein Saga Petroleum Limited Liability Company and the designation of Tipton Oil & Gas Acquisitions as the successor unit operator of this unit.

This change in operators is effective August 1, 2001. In accordance with this approval, Tipton Oil & Gas Acquisitions is now responsible for all operations and the reporting of all production from the unit.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: 
JAMI BAILEY, Director
Oil/Gas and Minerals Division
(505) 827-5744

RP/JB/cpm

xc: Reader File Saga Petroleum Limited Liability Company OCD- -Roy Johnson TRD BLM

EXHIBIT SUMMARY
McCLELLAN OIL CORPORATION
PROPOSED DOUBLE "L" UNIT
CHAVES COUNTY, NEW MEXICO

<u>Exhibit No.</u>	<u>Item</u>
I	Engineering Committee Report 10-1-73
II	Reservoir Performance Curve, Unit
III	Reservoir Performance Curve, MOC
IV	Economic Limit Determination, Old
V	Economic Limit Determination, New
VI	Status of Primary Production
VII	Future Primary Reserve Allocation
VIII	Immediate Net Income Loss, MOC
IX	Recommendations

From 12-3-73
Complete

PROPOSED
DOUBLE L QUEEN FIELD UNIT
CHAVES COUNTY, NEW MEXICO

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION
EXHIBIT NO. <u>I</u>
CASE NO. <u>5596</u>
Submitted by <u>McClellan et al</u>
Hearing Date <u>12-3-75</u>

SECOND EDITION ENGINEERING COMMITTEE REPORT
OCTOBER 1, 1973

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MAP NO. 1	- Location Map Chaves County
2	- Lease Map & Tentative Pattern
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PROPOSED DOUBLE L QUEEN FIELD
CHAVES COUNTY, NEW MEXICO

INTRODUCTION

The Double L Queen Field is located in Township 14 and 15 South and Range 29 and 30 East which is 15 miles north of Loco Hills in southeastern Chaves County, New Mexico.

Production from the field was first secured in April 1969 from Dalport's Spurck State Lease. The field developed rapidly thereafter with peak production reached in August 1970 with a monthly average of 1439 barrels per day. Production as of November 1972 averaged 606 barrels per day and cumulative production as of 12/1/72 is 1,123,912 barrels. There have been eleven dry holes drilled during the process of outlining the field and there are presently 55 wells in the field usable for flood purposes.

Completion practices did not vary widely from well to well in the field. Most wells were completed by setting either 4 1/2 or 5 1/2 inch casing through the formation and cementing. The casing then being perforated for completion and sandfraced with an average of some 20,000 gallons of treating fluid and 25,000 pounds of sand.

Crude oil is approximately 36.5^o API and proceeds to the producer at this time are approximately \$3.77 per barrel after deducting taxes. The purchaser is Navajo Refining Co.

There are approximately 2790.27 surface acres in the properties being considered for inclusion in the flood.

First, discussion toward unitization was had at an operators meeting held June 9, 1970 in Dallas and efforts to unitize have continued since that time, the last meeting being held in Midland on September 12, 1973.

SUMMARY & CONCLUSIONS

The engineering committee anticipates that:

- (1) Secondary oil can be produced at a ratio of 1.14 to that of estimated ultimate primary which would yield approximately 1,865,000 barrels of additional oil.
- (2) The life of the flood would extend over a period of approximately 10 years.
- (3) A total profit of \$4,701,501 before Federal Income Taxes would be gathered over the life of the flood.
- (4) An effort to unitize the field should be made using an acceptable formula including a portion of the enclosed parameters.
- (5) Continued operation on a primary basis would result in remaining profits before Federal Income Taxes of \$4,701,501 before reaching the economic limit.

SECONDARY RESERVES

The nearest Queen Sand flood is that of the Sulimar field which is directly south of this property and operated by Jack McClellan. The Sulimar flood is relatively new as water injection was started in January of 1972. The lowest production rate obtained from the Sulimar area was approximately 3900 barrels in February 1972 and has increased to an indicated monthly rate of 11500 barrels over the first few days of November, 1972. Premature water breakthrough has not been a problem. The purpose of the above is to indicate that floodable Queen Sand is located in the immediate vicinity of the proposed Double L Unit. It is, of course, well known that there have been many successful Queen Sand floods over a portion of New Mexico and Western Texas.

Secondary reserves and associated water requirements have been calculated in the following manner.

BASIC DATA:

- 55 wells on 40 acre spacing, 2,200 proration acres.
- Volume = 10,077 acre feet. (V) Average t = 4.16 feet
- Porosity = .21 (ϕ)
- Connate water = .35 (Sw, estimated from Sulimar report)
- Initial reservoir pressure = 730 psi @ D = 1,950 feet
- Boi = 1.13 Vol/Vol Bo flood start = 1.07 Vol/Vol (200 psi)
- Rt = 94° F (estimated at 80' / °F)
- Crude Gravity = 34° API
- Primary Recovery (Decline Curve) = 1.470 MMB

PORE VOLUME

Vp = 7,758 .V. ϕ
 Vp = 7,758 10,077 .21 = 16.417 MMB

ORIGINAL OIL IN PLACE

$$N = V_p(1-S_w)/B_{oi} = 16.417 (1-.35)/1.13 = 9.444 \text{ MMB}$$

PRIMARY RECOVERY EFFICIENCY - Percent of oil in place

$$E_p = N_p/100N = 1.470/9.444 = 15.56\%$$

REMAINING PRIMARY RECOVERY, 9-1-72

$$\begin{aligned} \text{Ultimate Primary} &= 1,470 \text{ M Bbl} \\ \text{Cumulative 12-1-72} &= \underline{1,124} \end{aligned}$$

$$\text{Remaining Primary} = 346$$

OIL SATURATION AT FLOOD START

Assume water injection starts at pr = 200 psi on 1-1-74 with cumulative recovery = 1.277 MMB.

$$S_{os} = \frac{(N-N_p)}{V_p} \quad B_o = \frac{(9.444 - 1.277)}{16.417} \cdot 1.07 = .532$$

GAS SATURATION AT FLOOD START

$$S_g = 1 - S_{os} - S_w = 1 - .532 - .350 = .118$$

THEORETICAL FILL UP VOLUME

$$W_f = S_g \cdot V_p = .118 \cdot 16.417 = 1.937 \text{ MMB}$$

Assume 50% of injection is effective requirement = 3.874 MMB

INJECTION RATE

From Sulimar Pool experience average injection rate is assumed to be 300 B/D/well during fill-up.

FILL-UP TIME

For 25 injection well depletion plan injection volume = 225 MB/month
 $T = 3.874/225 = 17.2$ months after start of full scale injection.
 (Use 18 mo. @ 7,000 E/D)

WATERFLOOD RECOVERY - From Flood Start

Caprock Queen residual oil after flooding was 58.6% Vphc
 Assume floodable portion of Double "L" is same.

$$S_{or} = .586 \cdot (1-S_w) = .38$$

$$H_f = V_{pc} (S_{os} - S_{or}) / B_o$$

V_{pc} = pore volume contacted by flood.

V_{pc} = 80% of total pore volume from preliminary examination of injection pattern.

$$N_f = 16,417 (.80) (.532 - .380) / 1.07$$

$$N_f = 1.865 \text{ MB}$$

SECONDARY RECOVERY

$$N_s = N_f - N_p \text{ (remaining)}$$

$$N_s = 1,865 - (1,470 - 1,277) = 1,672 \text{ MB}$$

ULTIMATE RECOVERY: RECOVERY FACTOR

$$N_u = 1,672 + 1,470 = 3,142 \text{ MB (1430 B/ac or 311.8 B/acft)}$$

$$\text{Recovery Factor} = 1.672/1.470 = 1.14 \text{ Secondary/Primary}$$

PEAK RATE

With an "effective" injection of 125 MB/month the peak producing rate is expected to be about 25% of injection rate or 30 MB/Mo.

This is 75% of the 40 MB/Mo. primary producing rate experienced and is considered reasonable. (Average for 28 wells = 35.7 B/well/day)

WATER REQUIREMENT

Total water injected is expected to be 0.8 pore volume or 13 million barrels. Raw water necessary for fill-up is expected to be 3.874 MMB and oil replacement at twice the produced volume will be 3.4 MMB for a total of 7.3 MMB.

ECONOMICS

The economic analysis which follows has been determined using figures which are thought reasonable for the depth and area.

OPERATING COSTS

Average Operating Costs are expected to be \$2,500/well/year, including district level overhead.

Raw water required for fill-up and make-up is estimated to cost 2.75¢/ barrel.

Handling of produced and make-up water is estimated to cost 0.5¢/barrel (Includes plant operating expense)

Workover Cost at \$500/well/year - first 3 years.

INVESTMENTS - FLOOD INSTALLATION

Well conversion expense @ \$2,000/well, 25 wells	=	\$50,000
Water Plant - designed to handle 7,500 B/D	=	37,500
Injection Lines & System, \$2,500/well, 25 wells	=	62,500
Water Return System. 5 miles @ \$10,000/mile	=	50,000
Relocate Batteries & Consolidate \$3,000/prod. well	=	<u>75,000</u>
		\$275,000

ECONOMIC LIMIT OF OPERATIONS

SECONDARY

During the final stages of operation the operated wells will decline, however, equally compensating increase in lifting cost is assumed. The economic limit of operation is considered to be 3 Bbl./Well/Day for 50 wells.

PRIMARY

Economic limit is considered to be 3 Bbl./Well/Day with 50 wells operating.

ECONOMIC ANALYSIS - WATERFLOOD, Unit Effective 1-1-74

Oil Price = \$4.05/Bbl. Gas Price 10.5¢/MCF

Production Tax - Oil = 28¢/Barrel ; Gas = .060 \$/\$ Gross

INCOME:

Gross Oil	1,865.0 MB	@ \$4.05	=	\$7,553,250
Gross Gas	3,431.0 MMCF	@ 10.5¢	=	<u>360,255</u>
Total				7,913,505
Net Income After .125 Royalty			=	6,924,316
Less Production Tax (Oil & Gas)			=	<u>543,815</u>
Total WI Income				\$ 6,380,501

EXPENSE:

Investment	\$275,000	
Workover	78,000	
Well Operation	1,060,000	
Water Cost	201,000	
Water Handling	65,000	\$1,679,000

Profit BFIT \$4,701,501

ECONOMIC ANALYSIS - Remaining Primary (From 1-1-74)INCOME:

Gross Oil	193.0 MB	@ \$4.05	\$	781,650
Gross Gas	2,402.0 MMCF	@ 10.5¢		<u>252,210</u>
Total				1,033,860
Net Income After .125 Royalty				904,627
Less Production Tax (Oil & Gas)				<u>69,172</u>
Total W.I. Income			\$	835,455

EXPENSEWell Operation \$ 177,000

Profit BFIT \$ 658,455

DOUBLE "L" QUEEN FIELD
UNITIZED - SECONDARY RECOVERY

YEAR	OIL MB	GAS MMCF	WELLS OPERATED	WELL OPERATION	OPERATING EXPENSE \$M		WORKOVERS	TOTAL	TANG \$M	INSTANG \$M
					RAW WATER	PRODUCED WATER				
1974	101.9	1,019	52	STZ 130.0	68.8	0.5	32.0	312 231.3	155.0	120.0
1975	288.5	967	52	STZ 130.0	66.0	2.5	26.0	312 224.5		
1976	360.0	360	52	130.0	22.3	5.5	20.0	312 177.8		
1977	312.0	312	50	125.0	16.5	6.5		300 148.0		
1978	240.0	240	48	120.0	11.0	8.0		228 139.0		
1979	180.0	180	46	115.0	8.2	9.0		276 132.2		
1980	138.0	126	40	100.0	5.5	9.0		240 114.5		
1981	104.4	102	36	90.0	2.7	9.0		216 101.7		
1982	79.2	75	35	87.5	0	9.0		710 96.5		
1983	61.0	50	13	32.5	0	6.0		78 38.5		
	1,865.0	3,431		1,060.0	201.0	65.0		1,404.0	155.0	120.0

INVESTMENT \$M

	Tang	Intang
Well Conversions	50.0	--
Water Plant	37.5	--
Injection Lines	37.5	25.0
Produced Water Return	30.0	20.0
Battery Relocation		75.0
	155.0	120.0

DOUBLE "L" QUEEN
CONTINUED PRIMARY

<u>YEAR</u>	<u>OIL MB</u>	<u>GAS MMCF</u>	<u>WELLS OPERATED</u>	<u>OPERATING EXPENSE (\$M)</u>
1974	120.0	1494.0	50	125.0
1975	<u>73.0</u>	<u>908.0</u>	50	<u>52.0</u>
	193.0	2402.0		177.0

GEOLOGY

The Queen Sand which is Permian in Geologic Age is encountered in this field at a depth of approximately 1950 feet. The field is a large stratigraphic trap caused by loss of porosity and permeability updip to the west, forming a concave-eastward pinchout line. This field is a terrace with southeast dip of 40' to 60' per mile. A gas-oil contact is at +1937, and GOR's have increased along this contact due to the large gas cap. This gas contains 60-65% nitrogen.

The oil-water contact is erratic and tilts down to the north. In the southern part of the field, water is at +1915, but in the northeastern portion of the field it is at +1895. No effective water drive has been determined for the field, as the drive mechanism is due to expansion of the gas cap and solution gas. Updip and downdip margins of the field are delineated by loss of porosity.

The pay is gray-brown, fine-grained to very fine-grained, fairly well sorted, subrounded quartz sand. Average core data is as follows:

Net pay (over 5 md) 6.2'	Oil Saturation 17.3%
Porosity 21.0%	SW Saturation 42.7%
Permeability 121 md	Formation Vol. Factor 1.2

Thickest pay is found in the SW 1/4 Sec. 31, 14S-30E, NW 1/4 Sec. 6, 15S-30E, the east-central portion of Sec. 12, 15S-29E, and NW 1/4 Sec. 18, 15S - 30E.

From Gamma Ray Neutron logs accurate net pay thickness is hard to determine as the Queen interval is characterized by two different sands. One is a non-productive "red" sand which is not permeable. The productive sand is "gray" and it is hard to differentiate between the two without cores or an accurate sample analysis. All available information

was used to determine net sand to the best ability of those concerned.

WATER AVAILABILITY

It appears that the only readily available water supply is that furnished by Double Eagle Corporation of New Mexico. This company has laid a line into the Sulimar field and is furnishing water for that flood. It is understood that Sulimar is paying 2.75¢ for the water delivered to one central point and this is the figure used for the economic analysis. The general manager of Double Eagle was recently contacted and indicated that extra capacity should be available for the Double L Flood. The Double L flood should require more water over the life of the flood than Sulimar and it might be possible to negotiate a better price.

FLOOD PATTERN

A map is included which indicates possible injection wells. It will be necessary to surround the field with wells in order to establish a proper drive especially in view of the fact the gas cap to the West will have to be blocked. The wells shown are tentative as final determination will be made at a later date.

PARAMETERS
DOUBLE L QUEEN FIELD
CHAVES COUNTY, NEW MEXICO

	CUMULATIVE PRODUCTION 12/1/72	6/1-12/1/72		PERCENT PERIOD PRODUCTION	REMAINING PRIMARY	PERCENT REMAINING PRIMARY	ULTIMATE PRIMARY
		PERCENT CUM. PRODUCTION	PERIOD PRODUCTION				
Amoco Production Co.							
Falgout A	1,673	.149	323	288	1,000	.288	2,673
Lusk A	61,133	5.439	3,083	2,740	4,016	1.158	65,149
State EK	73,368	6.528	11,391	10,125	33,180	9.566	106,548
	<u>136,174</u>	<u>12.116</u>	<u>14,797</u>	<u>13,153</u>	<u>38,196</u>	<u>11.012</u>	<u>174,370</u>
Dalport							
Amco Federal	171,057	15.220	12,503	11,114	50,000	14.416	221,057
Rob	48,785	4.341	5,145	4,573	13,400	3.863	62,185
Spurck State	170,602	15.179	10,598	9,420	31,250	9.010	201,852
Sunset State	66,899	5.952	5,279	4,692	35,940	10.362	102,839
	<u>457,343</u>	<u>40.692</u>	<u>33,525</u>	<u>29,799</u>	<u>130,590</u>	<u>37.651</u>	<u>587,933</u>
Exxon							
De Smet Fed.	45,532	4.052	3,453	3,069	8,500	2.451	54,032
Hesse Federal	32,865	2.924	2,759	2,452	5,700	1.643	38,565
Florence Lusk	168,247	14.970	14,056	12,494	52,000	14.992	220,247
	<u>246,644</u>	<u>21.946</u>	<u>20,268</u>	<u>18,015</u>	<u>66,200</u>	<u>19.086</u>	<u>312,844</u>
Jack McClellan							
Elyse	56,901	5.063	5,751	5,112	23,000	6.631	79,901
Lois State	35,660	3.173	4,620	4,107	14,800	4.267	50,460
Lisa B. Federal	65,087	5.791	16,310	14,497	39,600	11.417	104,687
Sun State	17,781	1.582	2,150	1,911	3,100	.894	20,881
Sue Federal	28,089	2.499	1,722	1,531	2,500	.721	30,589
Barbara Federal	7,304	.650	1,068	949	3,700	1.067	11,004
Marion	--	--	--	--	--	--	--
Mary Jane Fed.	46,375	4.126	7,130	6,338	14,740	4.250	61,115
	<u>257,197</u>	<u>22.884</u>	<u>38,751</u>	<u>34,445</u>	<u>101,440</u>	<u>29.247</u>	<u>358,637</u>
..olfson							
Amerada Fed.	4,109	.365	1,005	893	1,300	.375	5,409
Roark & Hooker							
Sun State	9,886	.880	3,569	3,172	8,120	2.341	18,006
Corrine Grace							
State	12,559	1.117	588	523	1,000	.288	13,559
TOTALS	1,123,912	100.000	112,503	100,000	346,846	100.000	1,470,758

PARAMETERS
DOUBLE L QUEEN FIELD
(CONTINUED)

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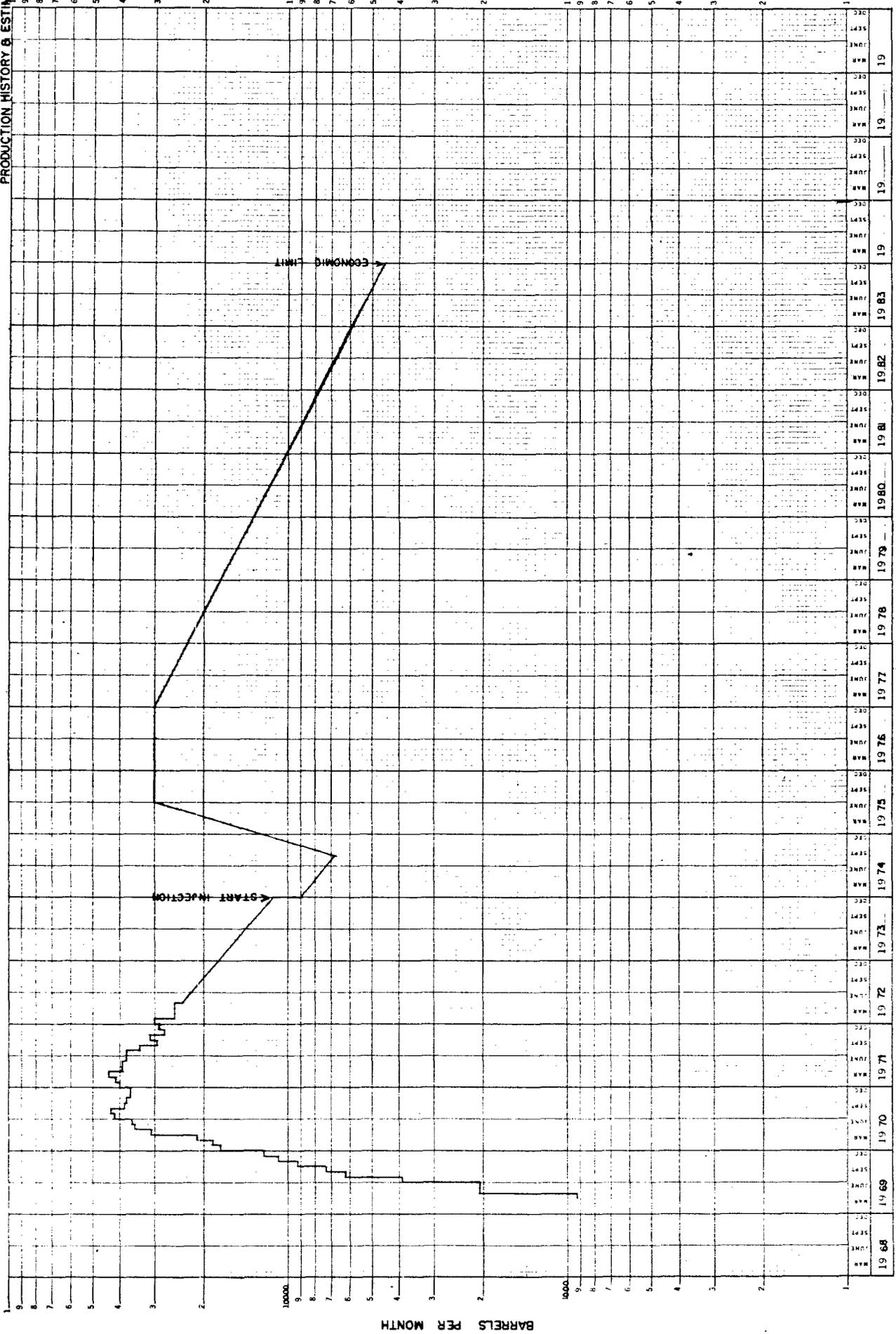
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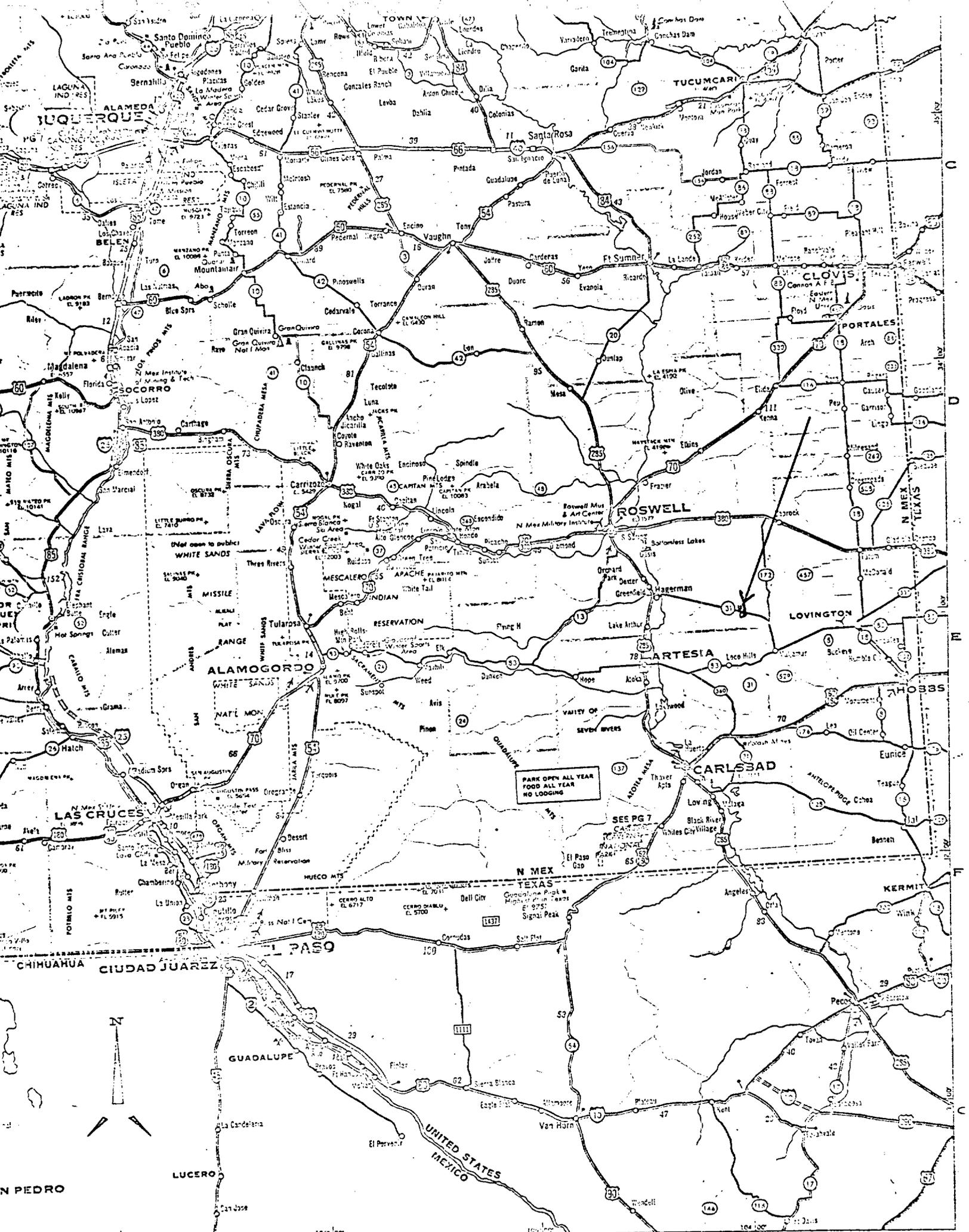
	PERCENT ULTIMATE PRIMARY	NO. WELLS USEABLE	PERCENT WELLS USEABLE	NO. WELLS PRORATION SCHEDULE	ACRE FEET	PERCENT ACRE FEET
Amoco Production Co.						
Falgout A	.182	1	1.818	1	146.2	1.450
Lusk A	4.430	3	5.454	2	434.5	4.312
State EK	7.244	5	9.092	5	441.0	4.376
	<u>11.856</u>		<u>16.364</u>		<u>1,021.7</u>	<u>10.138</u>
Dalport						
Amco Federal	15.030	5	9.092	5	1,556.1	15.442
Rob	4.228	3	5.454	3	626.1	6.213
Spurck State	13.724	11	20.000	9	1,921.6	19.069
Sunset State	6.992	2	3.636	2	542.2	5.380
	<u>39.974</u>		<u>38.182</u>		<u>4,646.0</u>	<u>46.104</u>
Humble						
De Smet Fed.	3.674	2	3.636	1	426.7	4.234
Hesse Federal	2.622	2	3.636	1	261.6	2.596
Florence Lusk	14.975	4	7.274	4	1,450.6	14.395
	<u>21.271</u>		<u>14.546</u>		<u>2,138.9</u>	<u>21.225</u>
Jack McClellan						
Elyse	5.433	2	3.636	2	269.4	2.673
Lois State	3.431	1	1.818	1	230.1	2.283
Lisa B. Federal	7.118	4	7.274	4	576.4	5.719
Sun State	1.420	1	1.818	1	195.7	1.942
Sue Federal	2.080	2	3.636	2	295.9	2.936
Barbara Federal	.748	1	1.818	1	96.1	.954
Marion	---	1	1.818	0	2.5	.025
Mary Jane Fed.	4.155	2	3.636	2	299.5	2.972
Section I3	<u>24.385</u>		<u>25.454</u>		<u>4.9</u>	<u>.049</u>
					<u>1,970.5</u>	<u>19.553</u>
Wolfson						
Amerada Fed.	.368	1	1.818	1	36.5	.362
Section 3I					10.5	.104
Section 6					6.5	.065
					<u>53.5</u>	<u>.531</u>
Roark & Hooker						
Sun State	1.224	1	1.818	1	83.9	.833
Corrine Grace						
State	.922	1	1.818	1	162.8	1.616
TOTALS:	100.000	55	100.000	49	10,077.3	100.000

PARAMETERS
DOUBLE L QUEEN FIELD
(CONTINUED)

	6 MONTHS PERIOD <u>TOTAL INCOME</u>	PERCENT <u>PERIOD INCOME</u>
Amoco Production Co.		
Falgout A	\$3,268.36	0.786
Lusk A	10,517.86	2.529
State EK	<u>47,293.47</u>	<u>11.371</u>
	61,079.69	14.686
Dalport		
Amco Federal	44,435.34	10.684
Rob	18,705.45	4.498
Spurck State	40,548.01	9.749
Sunset State	<u>20,475.05</u>	<u>4.923</u>
	124,163.85	29.854
Humble		
De Smet Fed.	11,676.29	2.808
Hesse Federal	9,744.13	2.343
Florence Lusk	<u>49,963.44</u>	<u>12.013</u>
	71,383.86	17.164
Jack McClellan		
Elyse	19,416.87	4.669
Lois State	16,529.63	3.974
Lisa B. Federal	57,896.57	13.921
Sun State	7,338.03	1.764
Sue Federal	6,213.24	1.494
Barbara Federal	5,741.76	1.381
Marion	---	---
Mary Jane Fed.	<u>24,216.32</u>	<u>5.823</u>
	137,352.42	33.026
Wolfson		
Amerada Fed.	5,532.60	1.330
Roark & Hooker		
Sun State	12,239.60	2.943
Corrine Grace		
State	4,148.16	0.997
TOTALS:	415,900.18	100.000

DOUBLE L. QUEEN FIELD
 CHAVES CO. NEW MEXICO
 PRODUCTION HISTORY & ESTIMATE





PARK OPEN ALL YEAR
FOOD ALL YEAR
NO LODGING



AMOCO

MCLELLAN



SCHNEIDER

ROARK
• 1

SCHNEIDER



DALPORT



MCLELLAN



FALGOUT

SOMICO STATE

PAN AMM

25

• 2

• 3



• 5

DALPORT

• 11



• 12

MCLELLAN



• 10

SPURCK



DALPORT

36

DALPORT



• 7



• 2



• 3



MCLELLAN



• 5



• 8

• 3

• 4

SPURCK STATE

AMCO FED.

ELYSE

GRACE

HUMBLE

PAN AMM

* 2

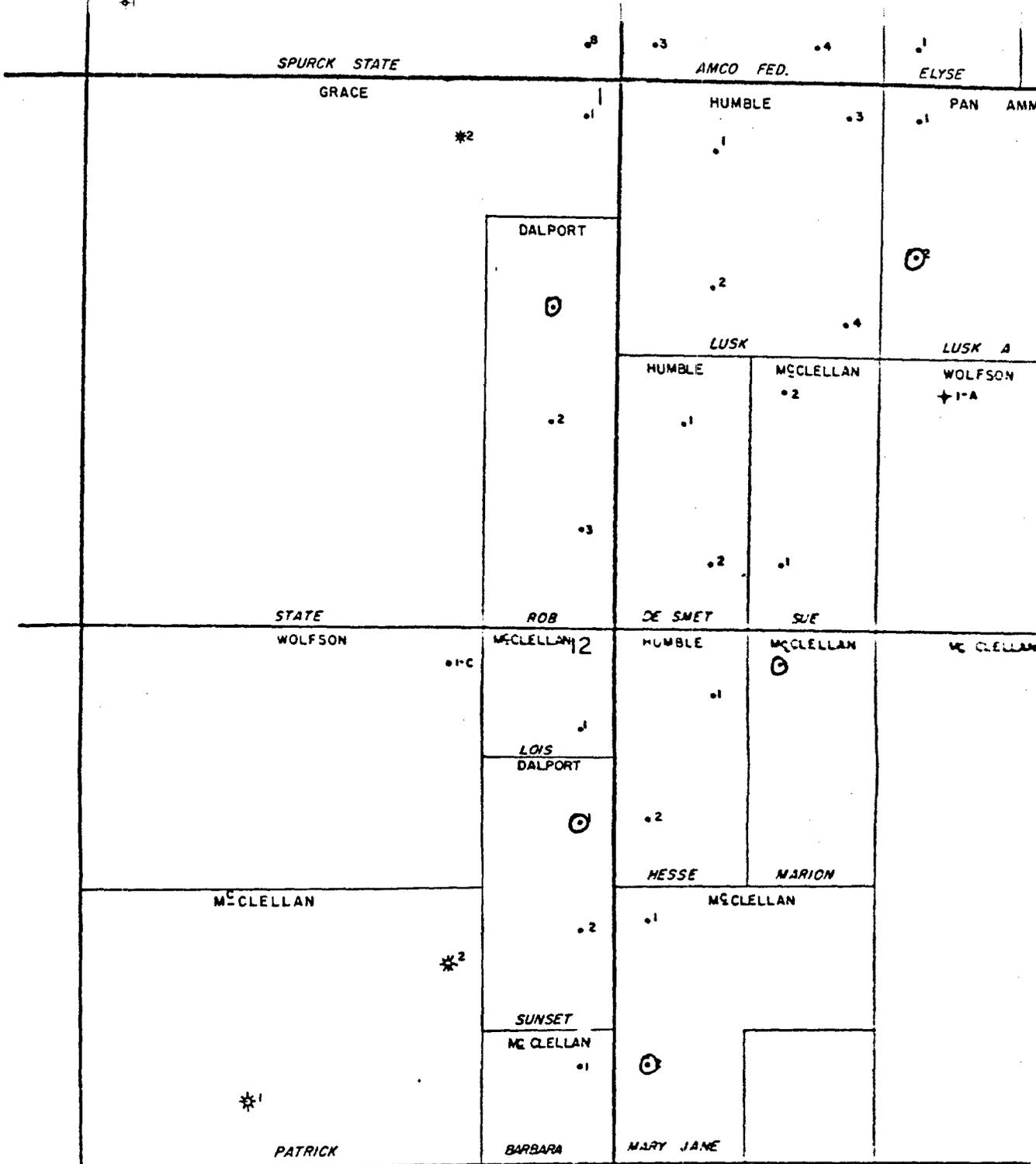
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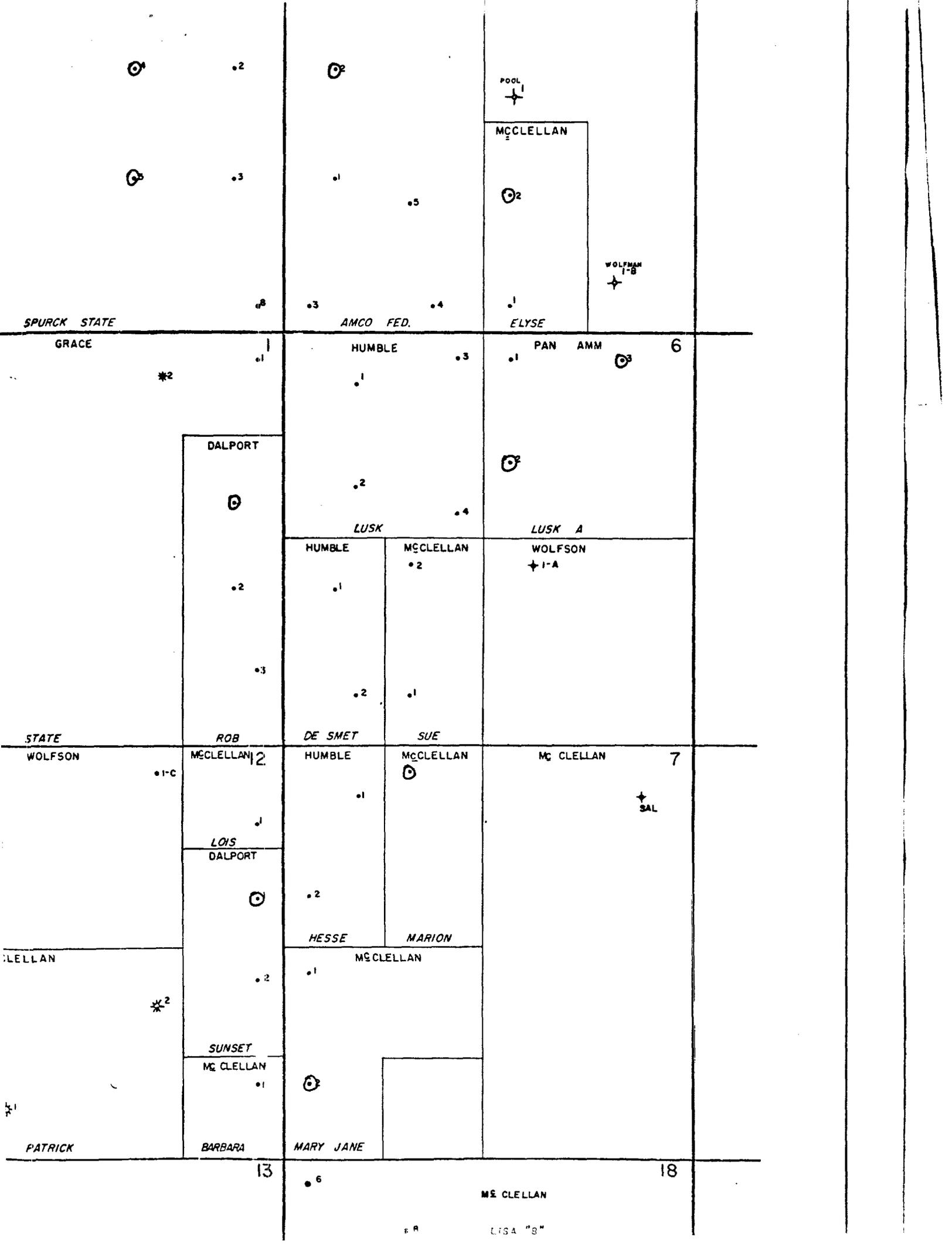
DALPORT



1000'

10

BURK ROYALTY CO.
 DOUBLE L QUEEN FIELD
 T 14 S, R 29 E
 CHAVES CO, NEW MEXICO
 SCALE 1" = 1000'



SPURCK STATE

GRACE

*2

DALPORT

⊙

STATE

WOLFSON

*1-C

ROB

MCCLELLAN 2

LOIS

DALPORT

⊙

MCCLELLAN

*2

SUNSET

MCCLELLAN

PATRICK

BARBARA

13

AMCO FED.

HUMBLE

.1

.2

LUSK

HUMBLE

.1

.2

DE SMET

HESSE

.1

⊙

MARY JANE

.6

.5

.4

.4

MCCLELLAN

.2

.1

SUE

MARION

MCCLELLAN



POOL 1
+

MCCLELLAN

⊙2

WOLFMAN
1-B
+

.1
ELYSE

PAN AMM

6

⊙

LUSK A

WOLFSON

+ 1-A

MCCLELLAN

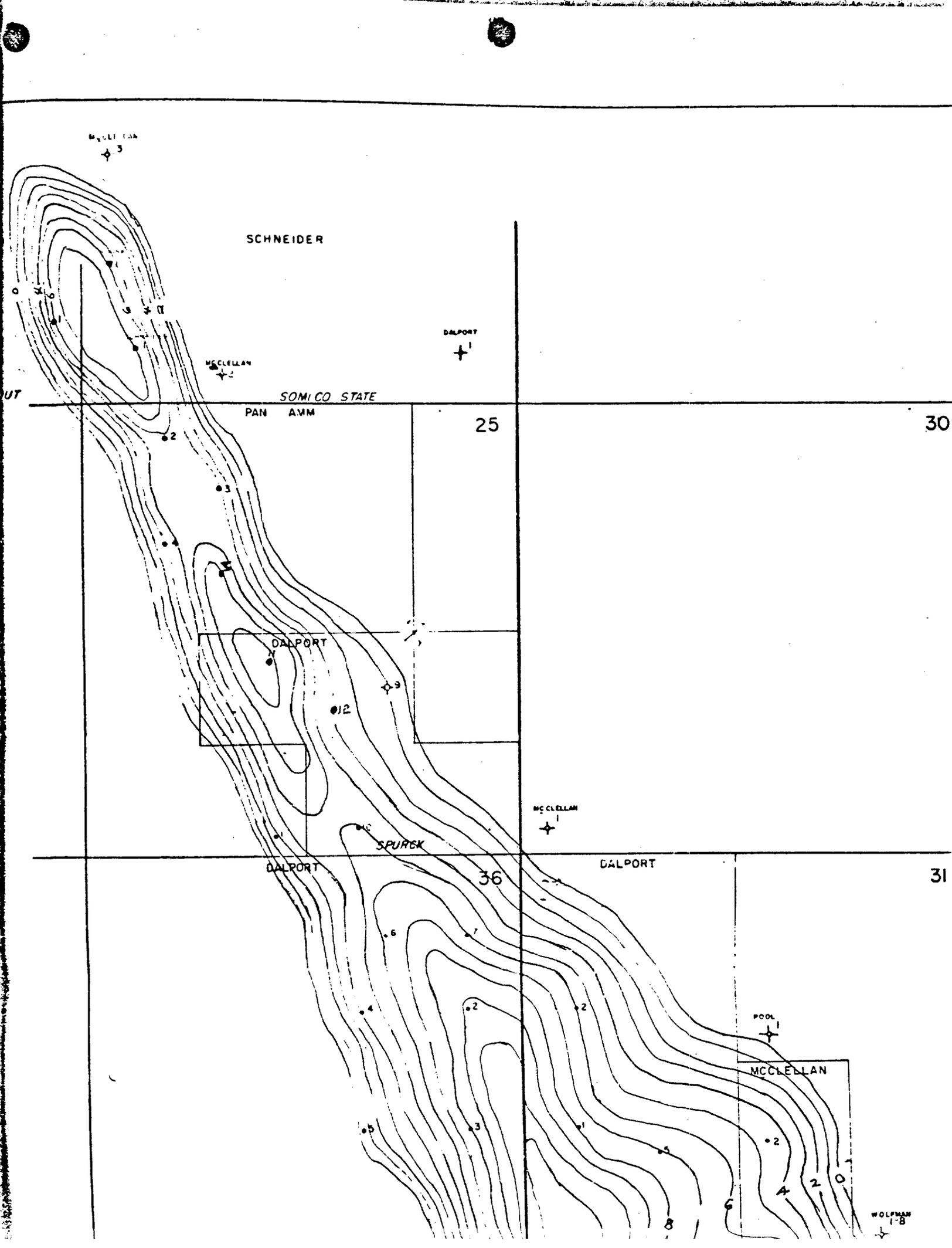
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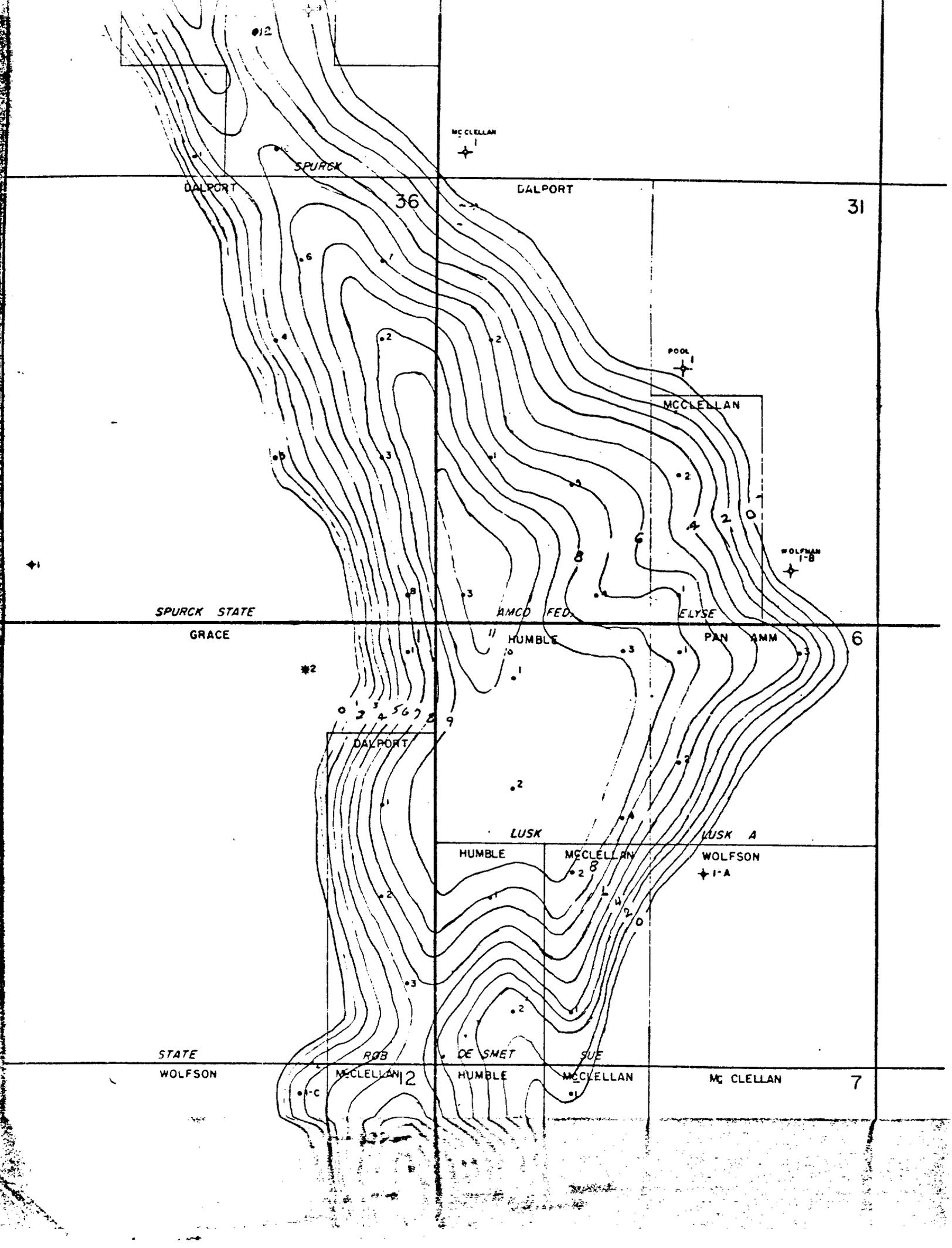
+
SAL

18

MCCLELLAN

LISA "B"





12

MCCLELLAN

SPURCK

DALPORT

DALPORT

36

31

POOL

MCCLELLAN

WOLFMAN
1-B

SPURCK STATE

AMCO FED.

ELYSE

GRACE

HUMBLE

PAN AMM

6

#2

DALPORT

LUSK

HUMBLE

MCCLELLAN

WOLFSON

STATE

WOLFSON

RQB

DE SMET

SUE

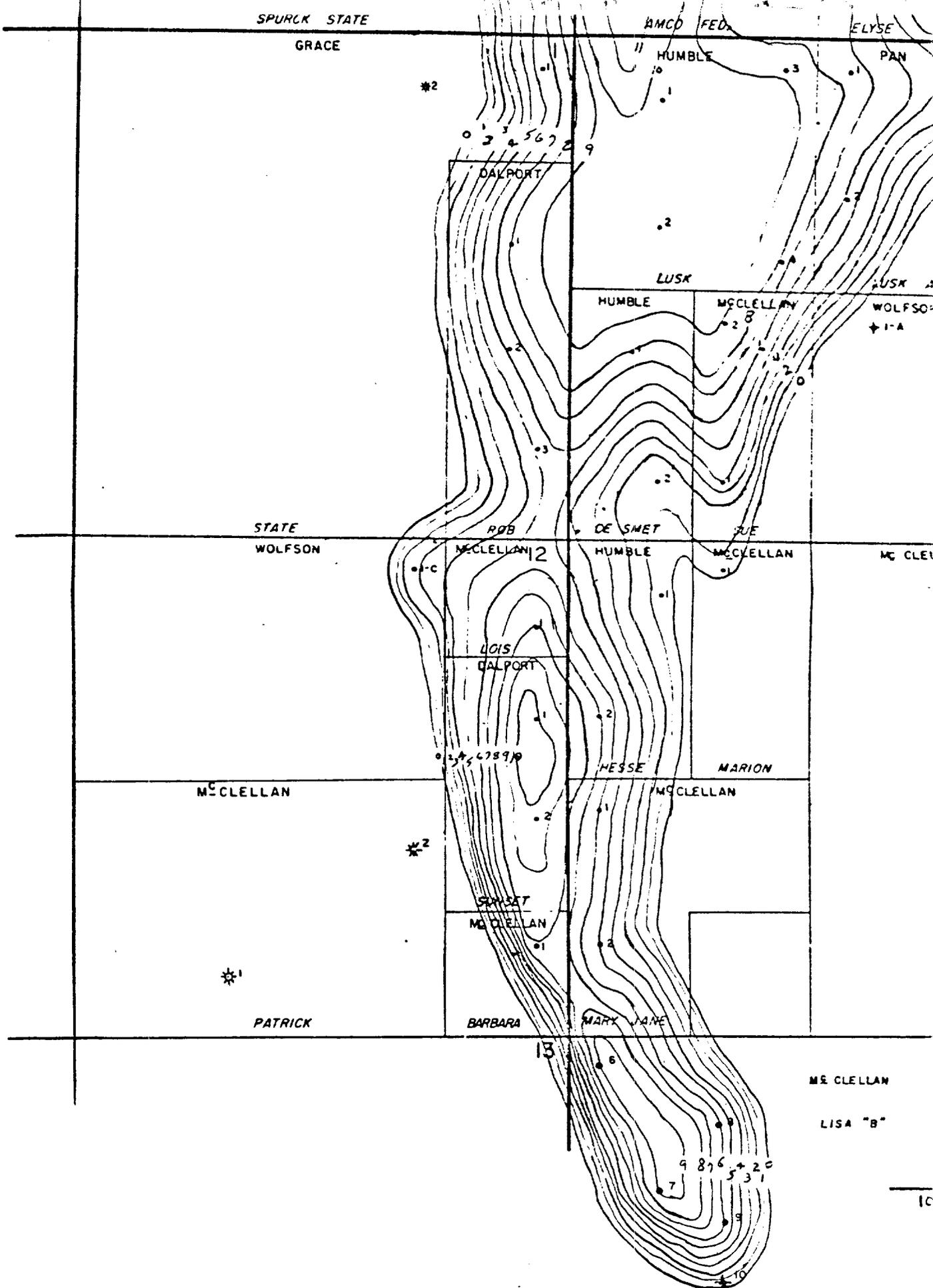
MCCLELLAN

HUMBLE

MCCLELLAN

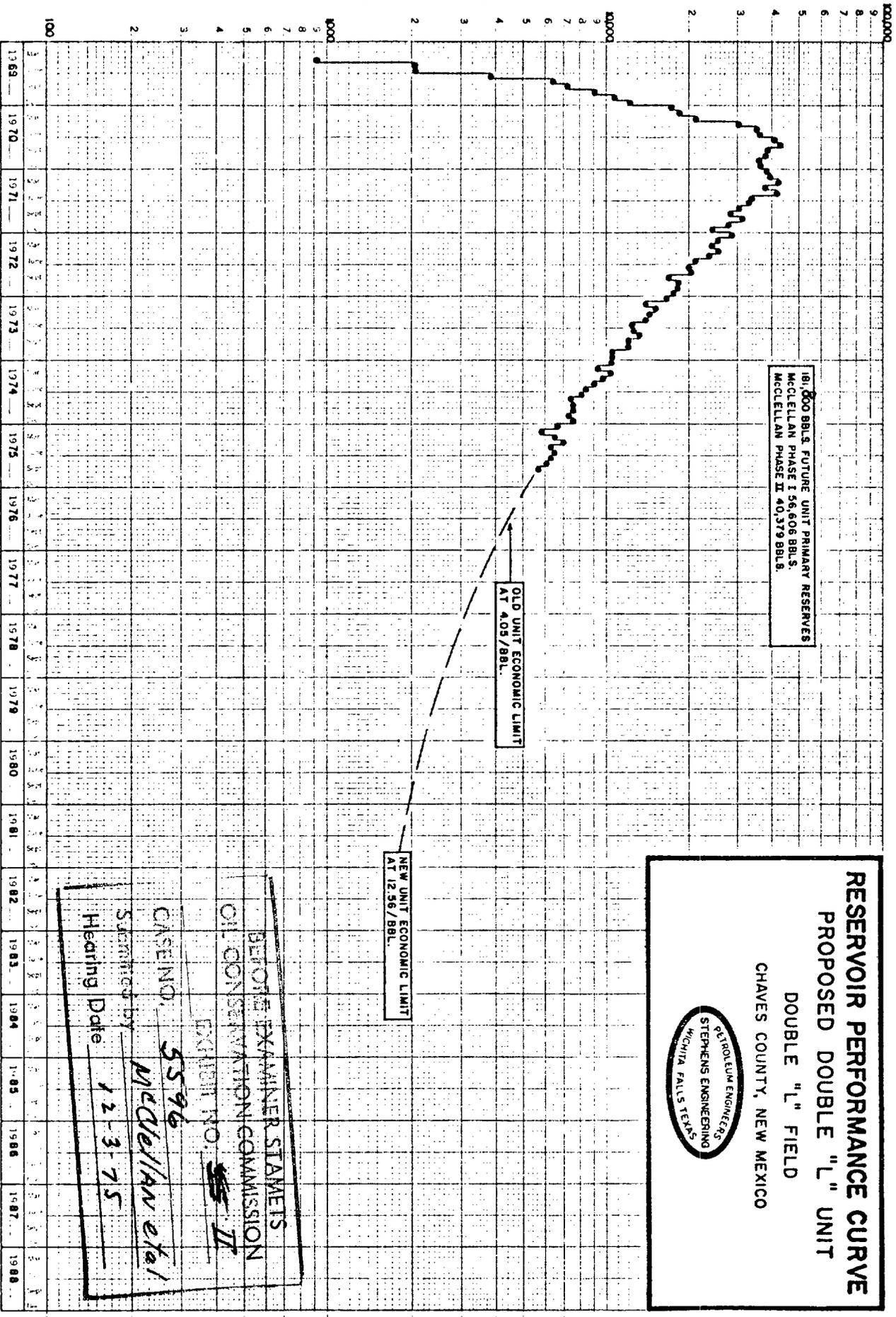
MCCLELLAN

7



BURK ROYALTY CO.
 DOUBLE L QUEEN FIELD
 T 14 S, R 29 E
 CHAVES CO., NEW MEX.

OIL PRODUCTION — BARRELS PER MONTH



181,000 BBL. FUTURE UNIT PRIMARY RESERVES
 McCLELLAN PHASE I 56,606 BBL.
 McCLELLAN PHASE II 40,379 BBL.

OLD UNIT ECONOMIC LIMIT
 AT 405/BBL.

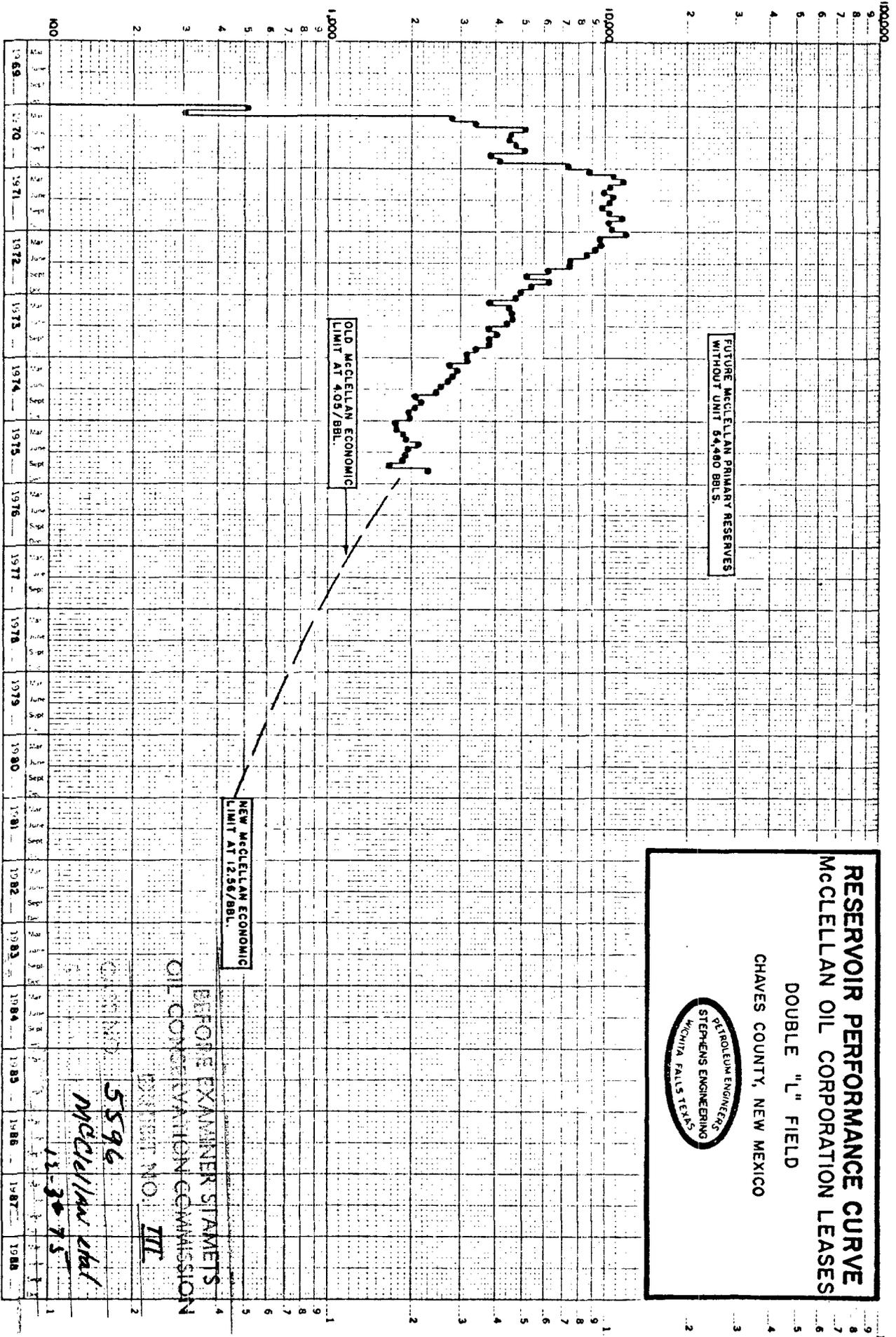
NEW UNIT ECONOMIC LIMIT
 AT 12.56/BBL.

RESERVOIR PERFORMANCE CURVE
PROPOSED DOUBLE "L" UNIT
 DOUBLE "L" FIELD
 CHAVES COUNTY, NEW MEXICO


 STEPHENS ENGINEERING
 WICHITA FALLS, TEXAS

BEFORE EXAMINER STATEMENTS
 OIL CONSERVATION COMMISSION
 EXHIBIT NO. 55-96
 CASE NO. 55-96
 Submitted by McClellan et al
 Hearing Date 12-3-75

OIL PRODUCTION — BARRELS PER MONTH



FUTURE McCLELLAN PRIMARY RESERVES WITHOUT UNIT 54,480 BBL.

OLD McCLELLAN ECONOMIC LIMIT AT 4,057/BBL.

NEW McCLELLAN ECONOMIC LIMIT AT 12,567/BBL.

RESERVOIR PERFORMANCE CURVE
McCLELLAN OIL CORPORATION LEASES
 DOUBLE "L" FIELD
 CHAVES COUNTY, NEW MEXICO

PETROLEUM ENGINEERS
 STEPHENS ENGINEERING
 WICHITA FALLS, TEXAS

BEFORE EXAMINER STATES
 OIL CONSERVATION COMMISSION
 EXHIBIT NO. III
 5596
 McClellan et al
 11-30-75

EXHIBIT IV

ECONOMIC LIMIT DETERMINATION
DOUBLE "L" FIELD WELL
CHAVES COUNTY, NEW MEXICO
AS OF APRIL 4, 1973

Data:

1. Economic Limit, Primary: 3 barrels of oil per day per well*
2. Price of oil after taxes: \$3.95 per barrel*
3. Working Interest Ownership: 0.81 (Estimated)
4. Calculations:
 $3 \text{ BO/Day/Well} \times 30.4 \text{ Days/Mo} = 91.2 \text{ B/W/Mo.}$
 $91.2 \text{ B/W/Mo.} \times .81 = 73.9 \text{ B/W/Mo. to W.I.}$
5. Income to W.I. at \$3.95/Barrel
 $73.9 \text{ B/W/Mo.} \times \$3.95/\text{B} = \$291.91/\text{W/Mo.}$

* Source - Second Edition
Engineering Committee Report
Double "L" Queen Field Unit

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION
EXHIBIT NO. <u>IV</u>
CASE NO. <u>5596</u>
Submitted by <u>McClellan et al</u>
Hearing Date <u>12-3-75</u>

EXHIBIT V

ECONOMIC LIMIT DETERMINATION
DOUBLE "L" FIELD WELL
CHAVES COUNTY, NEW MEXICO
AS OF NOVEMBER 1, 1975

Data:

1. Average Operating Expense, per well/mo.
Note: Based on average well in 13 well Double "L"
operation during past four months. Includes
labor and Administrative Overhead. \$291.91
2. Price of Oil after taxes: \$11.74
Note: Includes Gas at 0.10/Bbl.
3. Working Interest Ownership: 0.81 (Estimated)
4. Calculation:

$$\frac{\$291.91/\text{Well}}{.81} = \$360.38 \quad 100\% \text{ Income From Well}$$

$$\frac{\$360.38}{\$11.74/\text{Bbl.}} = 30.70/\text{Bbls}/\text{Month}/\text{Well}$$

or 1.02 Bbls/Day/Well

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION	
EXHIBIT NO.	<u>V</u>
CASE NO.	<u>5596</u>
Submitted by	<u>McClellan et al</u>
Hearing Date	<u>12-3-75</u>

EXHIBIT VI

STATUS OF PRIMARY PRODUCTION
PROPOSED DOUBLE "L" UNIT
CHAVES COUNTY, NEW MEXICO

	Barrels
1. Cumulative Oil Production to 1-1-75:	1,404,080
Oil Production 1-1-75 to 11-1-75	63,686
Sub Total	<u>1,467,766</u>
Estimated November, 1975 production	6,000
Sub Total	<u>1,473,766</u>
Estimated December, 1975 production	5,500
Estimated Production as of 1-1-76	<u>1,479,266</u>
2. Total Production necessary to reach Phase II Ownership	1,470,758

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. VI
CASE NO. 5596
Submitted by McClellan et al
Hearing Date 12-3-75

EXHIBIT VII

FUTURE PRIMARY RESERVE ALLOCATION SUMMARY
McCLELLAN OIL CORPORATION GROUP
PROPOSED DOUBLE "L" FIELD UNIT
CHAVES COUNTY, NEW MEXICO

1. Present McClellan Operation*: 54,480+Bbbls.
See Exhibit III*
2. Under Immediate Unitization as of January 1, 1976
as proposed by Burk Royalty:

Future Unit Primary Reserves	181,800 Bbbls.
McClellan Reserve Allocation Phase II of 0.222105	40,379 Bbbls.
3. Difference: 14,101 Bbbls.
4. Cost to McClellan Group:
 $\$11.75/\text{Bbl.} \times 0.81 \times 14,101 \text{ Bbbls.} = \$134,206$
5. Increases to other operators: Estimated

Exxon	+\$ 33,551
Dalport and Burk	+\$100,655
6. Note:
(a) Other operators hurt include:
 1. Amoco
 2. Roark & Hooker
 3. Cleary
(b) Other operators helped include:
 1. Corine Grace

* Without Unitization

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	<u>VII</u>
CASE NO.	<u>5596</u>
Submitted by	<u>McClellan et al</u>
Hearing Date	<u>12-3-75</u>

EXHIBIT VIII

IMMEDIATE NET INCOME LOSS TO McCLELLAN
 PROPOSED DOUBLE "L" UNIT W/O CHANGE
 CHAVES COUNTY, NEW MEXICO

Without Unit

1. Present Monthly Income:	\$16,641
1750 Bbls. x .81 x \$11.74 =	
2. Present Monthly Expense:	
\$292/well x 13 wells =	3,796
3. Present Profit to MOC	<u>\$12,845</u>

With Unit, as proposed:

1. Estimated Monthly Income:	\$10,772
5100 Bbls. x .81 x .222105 x \$11.74 =	
2. Estimated Monthly Expenses	
50 wells x \$292/well (Est.) x .222105 =	<u>3,243</u>
3. Estimated Profit to MOC	\$ 7,529

Difference: - \$ 5,316/Mo.

Note: With changes in Unit Agreement as proposed by MOC:

(a) Income from Unit:	\$15,101
5100 Bbls. x .81 x .311365 x \$11.74 =	
(b) Expense: 50 wells x \$292/well x .311365 =	4,546
(c) Profit to MOC =	<u>\$10,555</u>

Difference from Present: - \$ 2,290

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
EXHIBIT NO. <u>VIII</u>	
CASE NO.	<u>5596</u>
Submitted by	<u>McClellan et al</u>
Hearing Date	<u>12-3-75</u>

EXHIBIT IX

RECOMMENDATIONS
PROPOSED DOUBLE "L" FIELD UNIT
CHAVES COUNTY, NEW MEXICO

1. Deny Forced Unitization on January 1, 1976 as proposed by Burk Royalty.
2. Require amendment to Unit Agreement, Page 10 to reflect true primary reserves in "A" and Ultimate Primary Recovery in "C". These reserves to be determined by Emergency Meeting Technical Sub Committee.
3. Amendment to be ratified by Working Interest (Minimum of 75%) prior to January 1, 1976.
4. Unit to become effective January 1, 1976.

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION
EXHIBIT NO. <u>IX</u>
CASE NO. <u>5596</u>
Submitted by <u>MartellAN et al</u>
Hearing Date <u>12-3-75</u>

EXHIBIT V

ECONOMIC LIMIT DETERMINATION
DOUBLE "L" FIELD WELL
CHAVES COUNTY, NEW MEXICO
AS OF NOVEMBER 1, 1975

Data:

1. Average Operating Expense, per well/mo.
Note: Based on average well in 13 well Double "L" operation during past four months. Includes labor and Administrative Overhead. \$291.91
2. Price of Oil after taxes: \$10.36
Note: Includes Gas at 0.10/Bbl.
3. Working Interest Ownership: 0.81 (Estimated)

4. Calculation:

$$\frac{\$291.91/\text{Well}}{.81} = \$360.38 \quad 100\% \text{ Income From Well}$$

$$\frac{\$360.38}{\$10.36/\text{Bbl.}} = 34.78/\text{Bbls}/\text{Month}/\text{Well}$$

or 1.14 Bbls/Day/Well

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION	
EXHIBIT NO. <u>A</u>	
CASE NO.	<u>5596</u>
Submitted by	<u>MCClellan et al</u>
Hearing Date	<u>1-7-76</u>

EXHIBIT NO. 1

SUMMARY OF PAST AND ESTIMATED FUTURE OIL PRODUCTION
DOUBLE "L" FIELD
CHAVES COUNTY, NEW MEXICO

Primary Production

<u>Operator</u> <u>Lease</u>	<u>Cum. Oil</u> <u>Production</u> <u>to 1-1-75</u>	<u>Oil Prod.</u> <u>1-1-75 to</u> <u>11-1-75</u>	<u>Future</u> <u>Primary</u> <u>As of 11-1-75</u> <u>Bbls.</u>	<u>Total</u> <u>Primary</u> <u>Recovery</u> <u>Bbls.</u>
Amoco				
Falgout A	2,070	36	0	2,106 <i>0.1-27</i>
Lusk "A"	68,599	1,895	2,604	73,098 <i>4.7-22</i>
State EK	100,823	6,955	18,120	125,898 <i>1.7-24</i>
Sub-Total	<u>171,492</u>	<u>8,886</u>	<u>20,724</u>	<u>201,102</u>
Cleary Oil Company				
Amerada "C"	6,454	541	234	7,229 <i>0.1-27</i>
Dalport				
Amco	206,031	10,276	32,520	248,827 <i>15.2-21</i>
Rob	62,705	3,876	10,500	77,081 <i>4.7-10</i>
Sp. State	200,786	6,253	9,600	216,639 <i>13.2-12</i>
Sunset St.	90,041	4,054	9,312	103,407 <i>6.2-20</i>
Sub-Total	<u>559,563</u>	<u>24,459</u>	<u>61,932</u>	<u>645,954</u>
Exxon				
De Smet	53,366	1,715	7,692	62,773 <i>3.2-27</i>
Heese	37,113	612	190	37,915 <i>2.2-22</i>
Lusk	204,552	7,568	20,160	232,280 <i>14.2-14</i>
Sub-Total	<u>295,031</u>	<u>9,895</u>	<u>28,042</u>	<u>332,968</u>
Grace				
State	12,559	0	0	12,559 <i>0.1-6-26</i>
McClellan				
Barbara	11,240	1,080	4,116	16,436 <i>1.0-23</i>
Elyse	71,006	3,588	13,068	87,662 <i>5.2-45</i>
Lisa B	94,633	5,370	17,340	117,343 <i>7.1-23</i>
Lois	47,393	2,558	8,004	57,955 <i>3.5-46</i>
Marian	734	0	0	734 <i>1.0-24</i>
M. Jane	62,715	3,981	9,576	76,272 <i>4.6-25</i>
Sue	32,540	1,013	924	34,477 <i>2.1-24</i>
S. State	21,768	903	1,248	23,919 <i>1.4-27</i>
Sub-Total	<u>342,029</u>	<u>18,493</u>	<u>54,276</u>	<u>414,798</u>
Roark & Hooker	16,952	1,220	1,320	19,492 <i>1.1-22</i>
Total	1,404,080	63,494	166,528	1,634,102

166,528 1,634,102
BEFORE EXAMINER'S TABLETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. 13
CASE NO. 5596
Submitted by McClellan et al
Hearing Date 1-7-76

Phase II Tract Participations of each Tract as shown in Exhibit "C" were determined in accordance with the following formulas:

Tract Participation during Phase I: 50% A + 50% B
Phase II: 55% C + 45% D

Where A = Ratio of the volume of oil determined to be producible after 11-1-75 from each Tract to the summation of the volume of producible oil after 11-1-75 from all Tracts being 166,528 barrels.

B = Ratio of the gross income from each Tract to the summation of the gross income from all Tracts for the period 5/1/75 to 11/1/75 being \$495,691.

C = Ratio of the volume of oil determined to be ultimately producible from each Tract to the summation of the volume determined to be ultimately producible from all Tracts being 1,634,102 barrels.

D = Ratio of the Acre-Feet of originally productive oil reservoir from each Tract to the summation of Acre-Feet from all Tracts being 10,077.3 acre feet.

Phase I shall begin on the Effective Date of this Agreement and continuing until the first day of the calendar month next following the date on which the total number of barrels of oil produced from the Unitized Formation underlying all Tracts described in the original Exhibit "B" hereof equals 1,634,102 barrels as determined from the official production reports (currently know as C-115 reports) filed with the New Mexico Conservation Commission. Phase II shall begin with the termination of Phase I and continue for the remainder of the term of this Agreement.

In the event less than all Tracts are qualified on the Effective Date hereof, the Tract Participations shall be calculated on the basis of all such qualified Tracts rather than all Tracts in the Unit Area. The total number of barrels of oil to be produced before Phase II begins shall remain at 1,634,102 barrels; however, oil produced from all Tracts within the Unit Area, qualified as well as non-qualified Tracts, shall count toward the required total of 1,634,102 barrels.

SECTION 14. TRACTS QUALIFIED FOR PARTICIPATION. On and after the Effective Date hereof the Tracts within the Unit Area which shall be

BUREAU OF LAND MANAGEMENT	
NEW MEXICO CONSERVATION COMMISSION	
DATE	11-1-76
CASE NO.	5596
APPLICANT	McClellaneta
Effective Date	1-7-76

EXHIBIT "C"
To Unit Agreement

DOUBLE L QUEEN UNIT
Chaves County, New Mexico
January 1, 1975

<u>TRACT NO.</u>	<u>TRACT PARTICIPATION %</u>	
	<u>PHASE I</u>	<u>PHASE II</u>
1	9.2788	6.5230
2	0.0000	0.0221
3	6.5708	4.1534
4	0.0000	0.0468
5	17.6758	15.3238
6	0.0000	0.0292
7	0.9823	2.4816
8	0.4485	2.4444
9	3.7435	4.0180
10	0.0000	0.0359
11	0.7637	0.4062
12	0.1763	0.7234
13	5.7429	3.9045
14	3.0963	0.9825
15	5.7674	5.9014
16	7.6392	15.8726
17	4.2917	2.9780
18	11.3272	6.2066
19	6.2703	5.3903
20	1.2436	1.0310
21	1.0652	1.6790
22	0.0000	1.1499
23	2.2161	4.4007
24	<u>11.7004</u>	<u>14.2957</u>
	100.0000	100.0000

OFFICE OF LAND SURVEYS
OIL AND GAS INTEREST COMMISSION
EXHIBIT NO. D
CASE NO. 5596
Submitted by McCullane et al
Hearing Date 1-7-76

(CONTINUED)
 EXHIBIT "E"
 To Unit Operating Agreement
 DOUBLE L QUEEN UNIT
 Chaves County, New Mexico
 January 1, 1976

<u>OPERATOR</u>	<u>TRACT</u>	<u>% PARTICIPATION PHASE I</u>	<u>% PARTICIPATION PHASE II</u>
Amoco	12	0.1763	0.7234
	18	11.3272	6.2066
	23	2.2161	4.4007
		13.7196	11.3307
Corine Grace	22	0.0000	1.1499
Dalport Oil Corp.	5	17.6758	15.3238
	15	5.7674	5.9014
	16	7.6392	15.8726
	19	6.2703	5.3903
		37.3527	42.4881
Exxon Corporation	8	0.4485	2.4444
	9	3.7435	4.0180
	24	11.7004	14.2957
		15.8924	20.7581
McClellan Oil Corporation	1	9.2788	6.5230
	2	0.0000	0.0221
	3	6.5708	4.1534
	7	0.9823	2.4816
	10	0.0000	0.0359
	13	5.7429	3.9045
	14	3.0963	0.9825
	17	4.2917	2.9780
	21	1.0652	1.6790
		31.0280	22.7600
Roark & Hooker	20	1.2436	1.0310
Cleary Oil Company	4	0.0000	0.0468
	6	0.0000	0.0292
	11	0.7637	0.4062
		0.7637	0.4822

100.0000 100.0000

BEFORE EXAMINER STAMPS
 OIL CONSERVATION COMMISSION

EXHIBIT NO. E

CASE NO. 5596

Submitted by McClellan et al

Hearing Date 1-7-76

EXHIBIT "E"
 To Unit Operating Agreement
 DOUBLE L QUEEN UNIT
 Chaves County, New Mexico
 January 1, 1976

	Unit Participation %	
	<u>PHASE I</u>	<u>PHASE II</u>
Abby Corporation	1.6427	1.0384
Amoco	13.7196	11.3307
Warren D. Barton	0.0166	0.0262
Albert J. Black	3.2089	2.2627
Burk Royalty Co.	18.9103	22.4904
Wallace G. Comer	0.0333	0.0525
Crown Central Petroleum Corporation	0.7209	0.7377
Dalport Oil Corporation	17.0006	18.5223
George Eng	0.0666	0.1049
Exxon	15.8924	20.7581
Corine Grace	0.0000	1.1499
Robert L. Graham	4.6347	3.2644
G. W. Green	0.0166	0.0262
L. C. Harris	4.7751	3.4874
Charles H. Juni	0.0333	0.0525
W. W. LaForce, Jr.	0.2663	0.4197
McClellan Oil Corporation	6.5609	4.7064
A. N. Norwood	0.1331	0.2099
Alan Q. Norwood	0.0666	0.1049
Robert M. Patterson	4.6368	3.2656
W. B. Perry, Jr.	0.0333	0.0525
Roark & Hooker	1.0881	0.9021
Tom Schneider	0.1332	0.2099
J. Penrod Toles	4.6369	3.2660
Wall Street Oil Corporation	0.1331	0.2099
Walters Amusements, Inc.	0.7209	0.7377
Cleary Oil Company	0.7637	0.4822
J. C. Monk	0.1555	0.1289
	<u>100.0000</u>	<u>100.0000</u>

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	<u>F</u>
CASE NO.	<u>5596</u>
Submitted by	<u>McClellan et al</u>
Hearing Date	<u>1-7-76</u>

10019 Coors Road, N. W.
Albuquerque, New Mexico 87114

December 2, 1975

Burk Royalty Company
800 Oil & Gas Building
Wichita Falls, Texas 76301

Re: Proposed Double "L" Waterflood
Chaves County, New Mexico

Gentlemen:

The undersigned has heretofore conditionally delivered to you a ratification and joinder of a proposed Unit Agreement dated January 1, 1975 entitled Unit Agreement, Double "L" Queen Unit, County of Chaves, New Mexico. The undersigned has also ratified the Unit Operating Agreement, conditionally, bearing the same date.

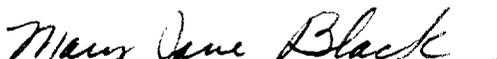
The undersigned has now determined that the participating factors used in the Unit Agreement are not fair and reasonable and as a consequence he desires to revoke the previous ratification and joinder. It would be appreciated if you would abide by my request herein and consider the interest owned by me and my wife as not being committed.

Respectfully submitted,



Albert J. Black

APPROVED:


Mary Jane Black, wife of
Albert J. Black

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION EXHIBIT NO. <u>G</u> CASE NO. <u>5596</u> Submitted by <u>McClellan et al</u> Hearing Date <u>1-7-76</u>

D. A. Nimsell, President
Jon H. Bear, V. P.
J. C. Dohner, Secy.-Treas.

Tom Darling, V. P. Eng.
Bill Duncan, V. P. Prod.

Burk Royalty Co.

Oil & Gas Building
Wichita Falls, Texas 76301

June 27, 1973

Operators Double "L" Queen Field

Gentlemen:

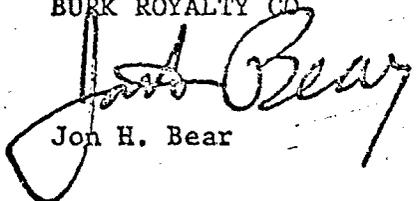
As you know, there was a Technical Sub-Committee meeting held on May 9th and May 18th for the purpose of determining acre feet by the grid method. A tabulation of the corrected acre feet was attached and a ballot sent out requesting approval of the corrected figures. Thereafter ensued considerable discussion with reference to the method in which the acre feet were corrected for varying acreage within the leases.

The acre feet have again been corrected by taking the New Mexico Land Map and using the acreage shown on the Land Map as the proper acreage for correcting relative to 40 acres. On the attached tabulation this corrected acre feet figure as well as percentage is shown.

It is hoped that this time we can again secure approval of the acre feet in order that we might progress with the unitization of this field. I have enclosed a ballot and it would be greatly appreciated if you would execute same as soon as possible and return to the writer.

Very truly yours,

BURK ROYALTY CO.


Jon H. Bear

JHB:jk
Encls.

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. <u>H</u>
CASE NO. <u>5596</u>
Submitted by <u>McClellan et al</u>
Hearing Date <u>1-7-76-</u>

DOUBLE L QUEEN
ACRE-FEET
TECHNICAL SUB COMMITTEE GRID METHOD

	<u>ACRE FEET</u>	<u>CORRECTION ACRES</u>	<u>CORRECTED ACRE FEET</u>	<u>PERCENTAGE</u>
Amoco				
Falgout A	146.2	0	146.2	1.450 ✓
Lusk A	432.4	---	434.5	4.312 ✓
#1	264.9	4025	266.6	
#3	53.8	4028	54.2	
Remaining	113.7	0	113.7	
State EK	441.0	0	441.0	<u>4.376</u> ✓
				10.138 ✓
Dalport				
Amco Federal	1,590.6	---	1,556.1	15.442
#1	324.4	3858	312.9	
#2	232.1	3852	223.5	
#3	426.7	3865	412.3	
Remaining	607.4	0	607.4	
Rob	626.1	0	626.1	6.213
Spurck State	1,921.6	0	1,921.6	19.069
Sunset State	542.2	0	542.2	<u>5.380</u>
				46.104
Exxon				
DeSmet Federal	435.4	---	426.7	4.234
#1	313.2	3914	306.5	
#2	122.2	3933	120.2	
Hessee Federal	265.1	---	261.6	2.596
#1	95.2	3944	93.9	
#2	169.9	3948	167.7	
Florence Lusk	1,468.7	---	1,450.6	14.395
#1	388.8	3894	378.5	
#2	375.0	3896	365.3	
#3	360.3	4021	362.2	
Remaining	344.6	0	344.6	
				<u>21.225</u>
Jack McClellan				
Elyse	269.4	0	269.4	2.673
Lois State	230.1	0	230.1	2.283
Lisa B. Federal	573.8	---	576.4	5.719
#6	276.3	4007	276.8	
#7	118.0	4070	120.1	
Remaining	179.5	0	179.5	

	<u>ACRE FEET</u>	<u>CORRECTION ACRES</u>	<u>CORRECTED ACRE FEET</u>	<u>PERCENTAGE</u>
Jack McClellan (Cont'd)				
Sun State	195.7	0	195.7	1.942
Sue Federal	295.9	0	295.9	2.936
Barbara	96.1	0	96.1	.954
Marion	2.5	0	2.5	.025
Mary Jane Federal	302.9	--	299.5	2.972
#1	134.5	3952	132.9	
#2	168.4	3956	166.6	
Section 13	4.9	0	4.9	<u>.049</u>
				19.553
Wolfson				
Section 31	10.5	0	10.5	.104
Section 6	6.5	0	6.5	.065
Amerada	36.5	0	36.5	<u>.362</u>
				.531
Roark & Hooker				
Sun State	83.9	0	83.9	.833
Grace				
State	162.8	0	<u>162.8</u>	<u>1.616</u>
			10,077.3	100.000

137756
 087982
 225744 - WSW
 23.2108 oil

