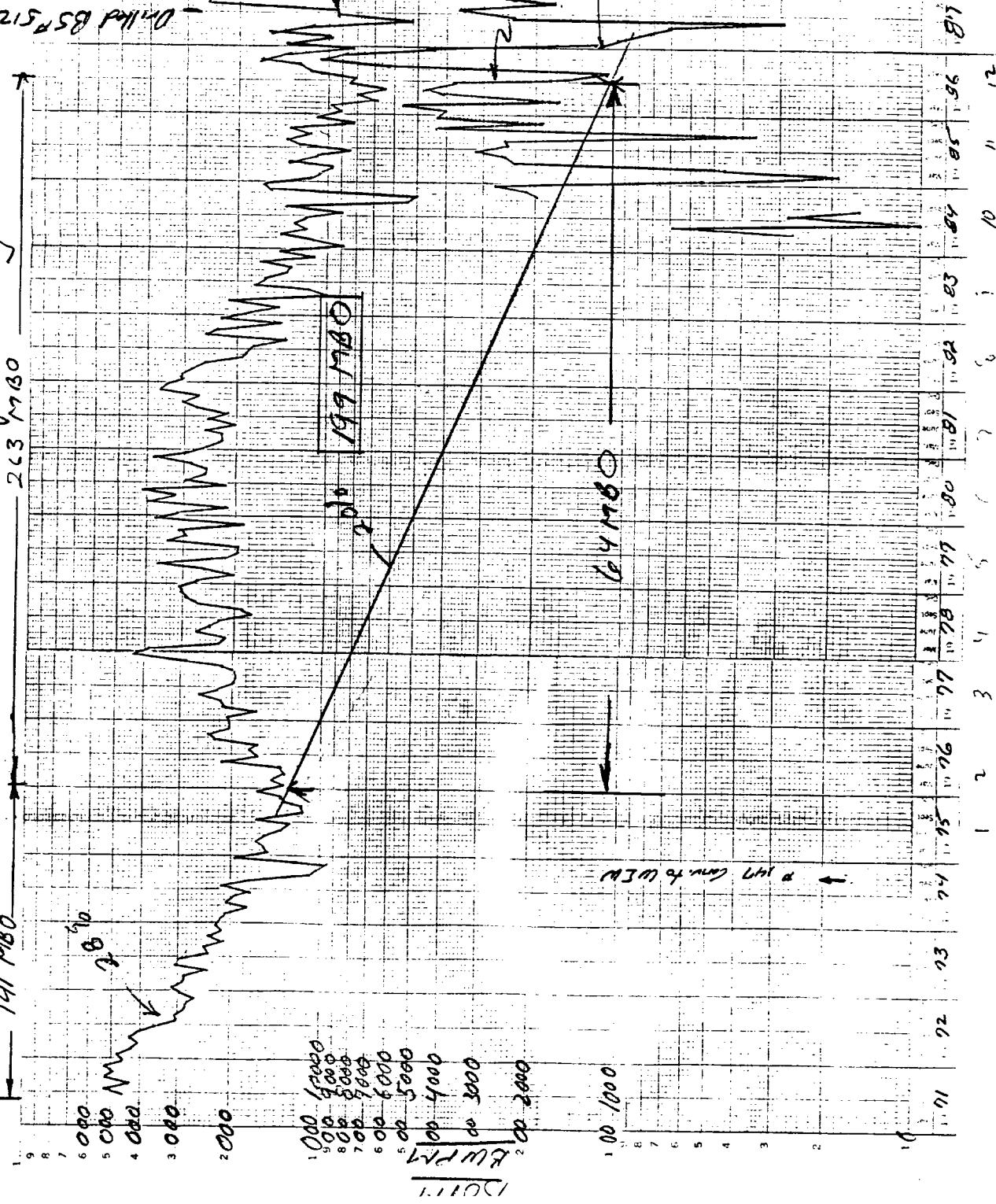


Primary & Secondary
263 MBO



12/3/66 Study
Vacuum (Tobolsk) from Field
170 bbls O.P. Organization
Circles State to 165 D 13 MTS
Moy Pdt = 404 MBO, 9/1/68
Moy Pdt = 7/71

263 MBO-P.S.
- 64 MBO-P.
109 MBO-S.
2 Moti Sotk change on Water
from 100 to 100 Barrels

50% = $\frac{199}{215} = 0.91$

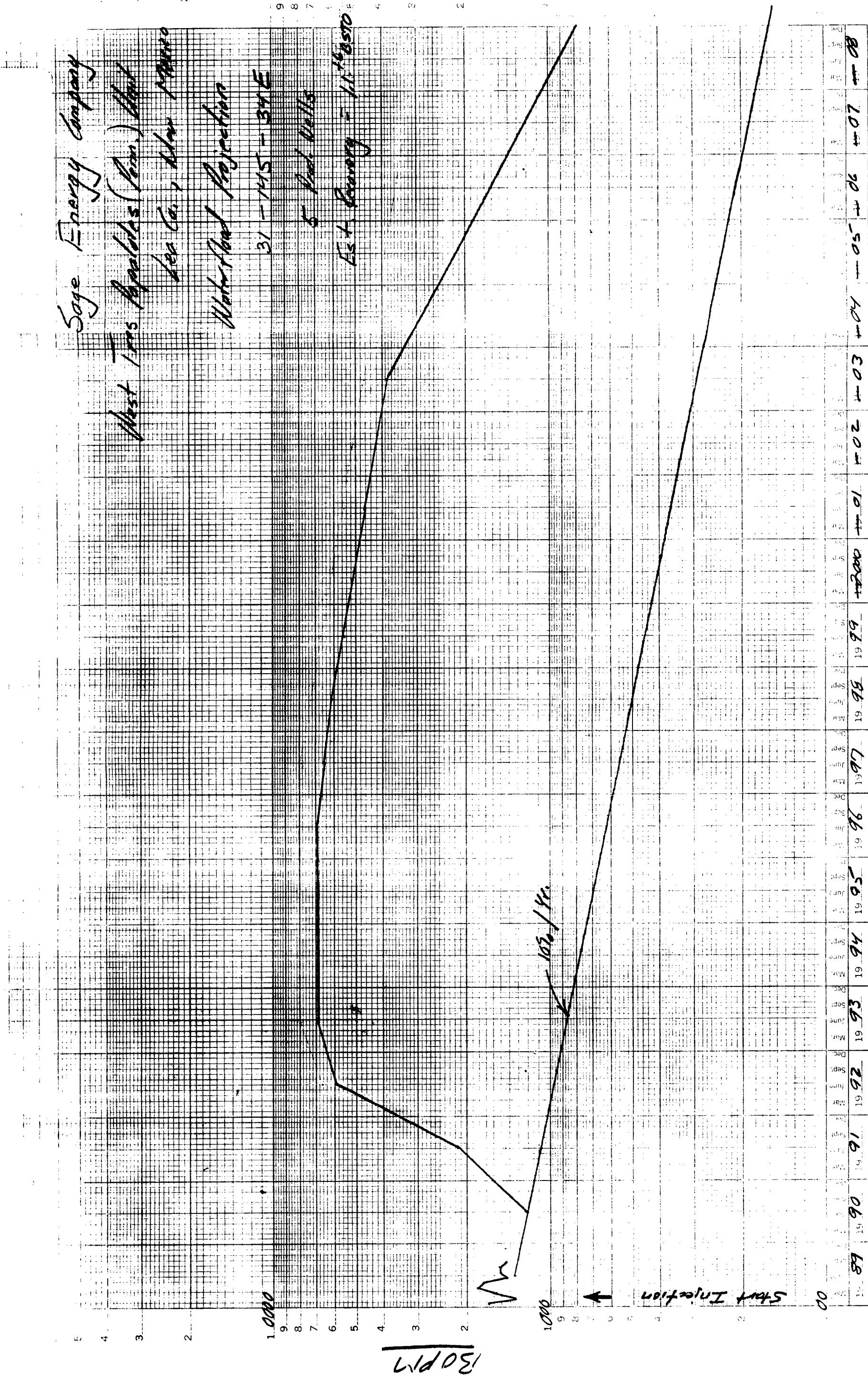
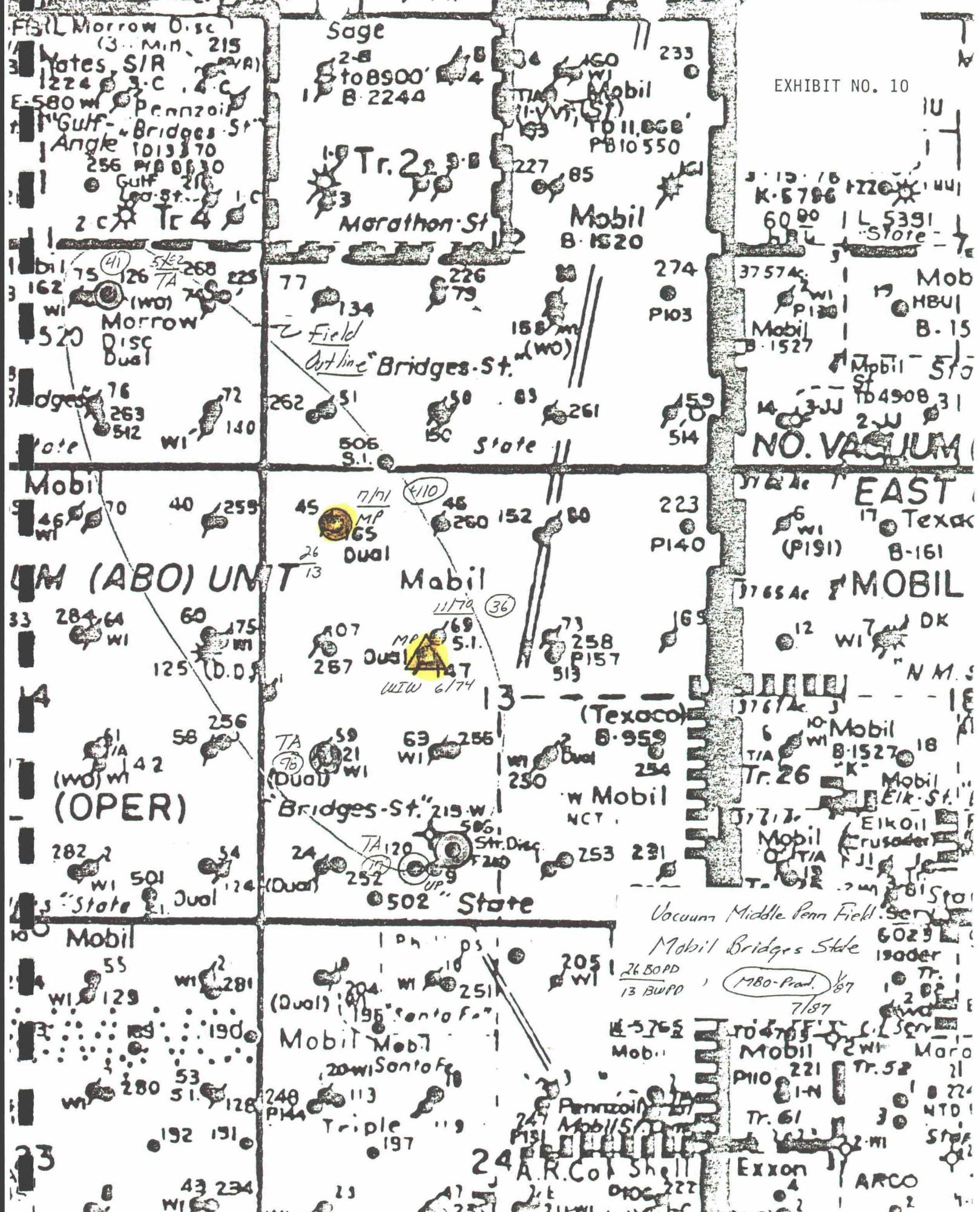


EXHIBIT NO. 10



PROJECTION OF ESTIMATED PRODUCTION AND REVENUE
AS OF
7-1-69

SAGE ENERGY COMPANY INTEREST
INITIAL WORKING INTEREST 1.000000
INITIAL REVENUE INTEREST 0.849575

EXHIBIT NO. 13

LEASE NAME : TRES PAPALOTES WF
FIELD NAME : TRES PAPALOTES, W
CNTY STATE : LEA, NM
OPERATOR : SAGE ENERGY CO

PROBABLE RESERVES

PERIOD ENDINGS	GROSS OIL/COND M ³	NET OIL/COND M ³	GROSS GAS MMF	NET GAS MMF	GROSS REVENUE			PROD+AV TAXES M\$	NET INVESTMENT M\$	OPERATING EXPENSE M\$	NET REVENUE M\$	CUM P.W. 10.0000 M\$
					INCL GAS	TOTAL GAS	TAXES					
7- 1-90	2.000	0.000	0.000	0.000	0.000	0.000	0.0	0.0	1498.9	175.2	-1674.1	-1535.1
7- 1-91	13.024	10.497	0.000	0.000	195.0	195.0	15.8	0.0	185.7	6.5	-1540.7	
7- 1-92	59.494	47.952	0.000	0.000	949.1	949.1	78.4	0.0	196.8	693.9	-995.9	
7- 1-93	72.000	58.032	0.000	0.000	1276.7	1276.7	103.2	0.0	208.6	964.9	-302.7	
7- 1-94	72.350	58.032	0.000	0.000	1344.6	1344.6	108.7	0.0	221.1	1014.8	358.1	
7- 1-95	72.000	58.032	0.000	0.000	1415.0	1415.0	114.4	0.0	234.4	1066.2	980.3	
7- 1-96	72.000	58.032	0.000	0.000	1499.9	1499.9	121.3	0.0	248.5	1130.1	1597.6	
7- 1-97	71.219	57.403	0.000	0.000	1572.3	1572.3	127.1	0.0	263.4	1131.8	2175.6	
7- 1-98	65.956	53.159	0.000	0.000	1563.1	1563.1	124.8	0.0	279.2	1139.2	2682.5	
7- 1-99	60.396	48.670	0.000	0.000	1497.9	1497.9	121.1	0.0	295.9	1060.9	3119.6	
7- 1-0	55.307	44.577	0.000	0.000	1454.0	1454.0	117.6	0.0	313.7	1022.7	3495.	
7- 1-1	50.646	40.821	0.000	0.000	1411.3	1411.3	114.1	0.0	332.5	964.7	3818.	
7- 1-2	46.378	37.381	0.000	0.000	1369.9	1369.9	110.8	0.0	352.4	906.7	409.5	
7- 1-3	42.470	34.231	0.000	0.000	1329.8	1329.8	107.5	0.0	373.6	848.7	4327.	
7- 1-4	38.891	31.346	0.000	0.000	1253.8	1253.8	101.4	0.0	384.5	767.9	4520.	
SUBTOTAL	791.779	638.174	0.000	0.000	18132.6	18132.6	1498.9	6055.5	11101.8	4520.		
REMAINING	275.221	229.828	0.000	0.000	8873.1	8873.1	717.5	0.0	4600.9	3554.8	6237.3	
TOTAL OF 27.0 YRS	1067.000	860.002	0.000	0.000	27035.5	27035.5	2183.7	1498.9	3666.3	14656.6	5141.5	
CUM PROD	24.000	20.000	0.000									
ULTIMATE	1067.000	0.000										

INITIAL PRICES BEFORE PRODUCTION TAXES: 18.5000 \$/BBL - 0.0000 \$/MMCF
MAXIMUM COMPLETIONS: 5 OIL - 0 GAS INITIAL OPRG COST 15000 \$/M³
PRESENT WORTH PROFILE
FOR 8.00 PCT, PRESENT WORTH IS M\$ 6237.3
FOR 12.00 PCT, PRESENT WORTH IS M\$ 4261.0
FOR 15.00 PCT, PRESENT WORTH IS M\$ 3237.7
FOR 20.00 PCT, PRESENT WORTH IS M\$ 2065.2
FOR 25.00 PCT, PRESENT WORTH IS M\$ 1503.9

LOCATION: 31-14S-34E
INCENTIVE WF RESERVES BASED ON VACUUM MIDDLE PENN WF (MOBILE)

INTERESTS & RESERVES FOR SAGE WELLS ONLY (25% OF TOTAL TP & PROD)
NETHERLAND, SEWELL & ASSOCIATES, INC. - DALLAS

TABLES

1 and 2

Table N0.1
Part I
Tract Unit Participation - Tract Basis

Tract	Lease/Wells	Owner	Type	Gross WI	Net NRI	Tract Participation (100% Ultimate)	Unit Participation Expense	Unit Participation Revenue
1	New Mexico State 30 #1	Sage State of New Mexico	WI RI	1.0000000	.8025000 .1875000	.1527267 .1527267	.1527267 -0-	.1225631 .0286363
		Sage	ORR	-	.0100000	.1527267	-0-	.0015273
	TOTAL			1.0000000	1.0000000	.1527267	.1527267	.1527267
2	New Mexico State 1, 2, 3	Sage State of New Mexico	WI RI	1.0000000	.7500000 .1250000	.5640217 .5640217	.5640217 -0-	.4230163 .0705027
		Sage	ORR	-	.1250000	.5640217	-0-	.0705027
	TOTAL			1.0000000	1.0000000	.5640217	.5640217	.5640217
3	State of New Mexico, V-2160	Sage State of New Mexico	WI RI	1.0000000	.8233333 .1666667	.0- .0-	.0- .0-	.0- .0-
		Sage	ORR	-	.0100000	.0- .0-	.0- .0-	.0- .0-
	TOTAL			1.0000000	1.0000000			
4	State of New Mexico, V-1791	Sage State of New Mexico	WI RI	1.0000000	.8233333 .1666667	.0561122 .0561122	.0561122 -0-	.0461991 .0093520
		Sage	ORR	-	.0100000	.0561122	-0-	.0005611
	TOTAL			1.0000000	1.0000000	.0561122	.0561122	.0561122

EXHIBIT "C"

Part I Tract Unit Participation - Tract

Tract	Lease/Wells	Owner	Type	Gross WI	Net NRI	Tract Participation (100% Ultimate)	Unit Participation Expense	Unit Participation Revenue
5	John Etcheverry #1	Sage	WI	1.0000000	.7718750	.1798006	.1798006	.1387836
	John Etcheverry	RI	-	.1015626	.1798006	-0-	-0-	.0182610
	Adella P. Tindale	RI	-	.0429687	.1798006	-0-	-0-	.0077258
	Josephine Selvage	RI	-	.0429687	.1798006	-0-	-0-	.0077258
	FDIC-A/C P. Metts	ORR	-	.0075000	.1798006	-0-	-0-	.0013485
	J.M. Huber Corp.	ORR	-	.0156250	.1798006	-0-	-0-	.0028094
	Sage	ORR	-	.0100000	.1798006	-0-	-0-	.0017980
	Sage	ORR	-	.0075000	.1798006	-0-	-0-	.0013485
TOTAL				1.0000000	.179800000	.1798006	.1798006	.1798006
6	John Etcheverry "A" #2	Sage	WI	1.0000000	.8125000	.0473388	.0473388	.0384628
	John Etcheverry	RI	-	.1015626	.0473388	-0-	-0-	.0048078
	Adella Tindale	RI	-	.0429687	.0473388	-0-	-0-	.0020341
								.0473388
	TOTAL				1.0000000	1.0000000	1.0000000	1.0000000

Table No. 2
Part II
Tract & Unit Participation - Owner Basis

Tract	Owner	Type	Gross WI	Net NRI	Tract Participation (100% Ultimate)	Unit Participation Expense	Unit Participation Revenue
1)	Sage	WI	1.0000000	.8025000	.1527267	.1527267	.1225631
2)	Sage	WI	1.0000000	.7500000	.5640217	.5640217	.4230163
3)	Sage	WI	1.0000000	.8233333	-0-	-0-	-0-
4)	Sage	WI	1.0000000	.8233333	.0561122	.0561122	.0461991
5)	Sage	WI	1.0000000	.7718750	.1798006	.1798006	.1387836
6)	Sage	WI	1.0000000	.8125000	.0473388	.0473388	.0384628
5)	Sage	ORR	-0-	.0075000	.1798006	-0-	.0013485
1)	Sage	ORR	-0-	.0100000	.1527267	-0-	.0015273
3)	Sage	ORR	-0-	.0100000	-0-	-0-	-0-
4)	Sage	ORR	-0-	.0100000	.0561122	-0-	.0005611
5)	Sage	ORR	-0-	.0100000	.1798006	-0-	.0017980
2)	Sage	ORR	-0-	.1250000	.5640217	-0-	.0705027
		Total					.8447625
5)	John Etcheverry	RI	-0-	.1015626	.1798006	-0-	.0182610
6)	John Etcheverry	RI	-0-	.1015626	.0473388	-0-	.0048078
		Total					.0230688

EXHIBIT "C"

Part II

Tract & Unit Participation - Owner Basis

Tract	Owner	Type	Gross WI	Net NRI	Tract Participation (100% Ultimate)	Unit Participation Expense	Unit Participation Revenue
5)	J.M. Huber Corp.	ORR	-0-	.0156250	.1798006	-0-	.0028094
5)	FDIC- R. Metts	ORR	-0-	.0075000	.0075000	-0-	.0013485
1)	State of New Mexico	RI	-0-	.1875000	.1527267	-0-	.0286363
2)	State of New Mexico	RI	-0-	.1250000	.5640217	-0-	.0705027
3)	State of New Mexico	RI	-0-	.1666667	-0-	-0-	-0-
4)	State of New Mexico	RI	-0-	.1666667	.0561122	-0-	.0093520
	Total						.1084910
5)	Josephine Selvage	RI	-0-	.0429687	.1798006	-0-	.0077258
6)	Josephine Selvage	RI	-0-	.0429687	.0473388	-0-	.0020341
	Total						.0097599
5)	Adella P. Tindale	RI	-0-	.0429687	.1798006	-0-	.0077258
6)	Adella P. Tindale	RI	-0-	.0429687	.0473388	-0-	.0020341
	Total						.0097599
	Grand Total						1.0000000

BEFORE EXPLORATION DRILLING
Oil Conservation District
Well No. E
Case No. 2825 + 9826

AREA OF REVIEW JOHN ETCHEVERRY NO. 2-A INJECTION WELL

OPERATOR	LOCATION	TYPE COMPLETION	DATE	PB/TD	CASING PROGRAM AND CEMENT	PERFORATIONS
Sage Energy Company John Etcheverry No. 1	Sec. 29, T-14, R-34-E	Oil	8-24-71	10,535'	12 3/4" at 390' with 400 sxs 8 5/8" at 4400', with 375 sxs 4 1/2" at 10,535' with 375 sxs	10,400 to 10,418 10,440 to 10,446 10,465 to 10,475
McWhorter Oil Company Shell State No. 1	Sec. 30, T-14 R-34-E	Oil	2-2-72	10,510'	12 3/4" at 395' with 415 sxs 8 5/8" at 4420', with 375 sxs 4 1/2" at 10,510' with 375 sxs	10,384 to 10,403
McWhorter Oil Company Shell State No. 1A	Sec. 30, T-14, R-34-E	Oil	7-19-72	10,530'	13 3/8" at 410' with 400 sxs 8 5/8" at 4372', with 375 sxs 4 1/2" at 10,530', with 375 sxs	10,390 to 10,456
Texas Crude & Sinclair Oil Marchris-State No. 1 Sec. 30, T-14, T-34-E	D&A	5-16-72	10,704'		13 3/8" at 285' with 275 sxs 8 5/8" at 4491', with 350 sxs	
McWhorter Oil Company Etcheverry No. 1A	Sec. 29, T-14, R-34-E	D&A	11-28-71	10,515'	13 3/8" at 390' with 400 sxs 8 5/8" at 4418', with 375 sxs	
McWhorter Oil Company Etcheverry No. 2A	Sec. 29, T-14-S, R-34-E	Oil	10,500		12 3/4" at 431' with 425 sxs. 8 5/8" at 4400', with 375 sxs 4 1/2" at 10,500', with 375 sxs	10,402 to 10,470
Sage Energy Company New Mexico "30" State	Sec. 30, T-14, R-34-E	Oil	10,518'		13 3/8" at 43' with 450 sxs 8 5/8" at 4482', with 2000 sxs 5 1/2" at 10,561 with 380 sxs.	10,392 to 10,407
C. W. Trainer	Sec. 29, T-14-S, R-34-E	D&A	11-9-62	10,600	10 3/4" at 307' with 200 sxs 7 5/8" at 4337' with 250 sxs	
Marie No. 1						

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PLUGGED WELL DATA

Operator Name Newborne Oil Company Lease Name Shell "A" State Well No. 1
Footage Location 2080' FNL and 560' FEL Section 30 Township 14S Range 34E
County Lea Date P&A 11-30-78

SCHEMATIC

10 sx at surface.



75 sx at 460'
60 sx at 1,050'
30 sx at 1,950'
35 sx at 4,420'

TABULAR DATA

10 sx at surface.

75 at 460,

60 Sxs at 1,050'

30 sx at 1,950'

35 sx at 4,420'

35 sx at 4,443'

60 sx at 5,846' Rec. 5/00. of 4¹/₂" csg.

DE L'UNIVERSITÉ DE MONTREAL

UNIVERSITY OF TORONTO LIBRARIES
Exhibit No. G
Case No. 9825 + 9826

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CIBP at 10,390 w/35 s;
on top

Perf. 10,390' to 10,456'

TD 10,530

TABULAR DATA

Surface casing: size 13 3/8" set at 110'

Cemented with 400 sx sx. TOC Surface
Feet determined by visual. Hole Size 17

Intermediate Casing:

Size 8 5/8" Set at 4372

Cemented with 375 s.s. TOC 30000

Size 41" set at 10.530

Cemented with 375 sx. TOC 8285'

Feet determined by calculations. Hole size 7

Total Depth 10.530

Producing Intervals; perforated or open hole

10.390 feet to 10.456 feet.

PLUGGED WELL DATA

Operator Name Newbourne Oil Company Lease Name Well Name Well No. 1
Footage Location 560' FSL and 560' FEL Section 30 Township T-14-S Range R-34-E
County Lea County, New Mexico Date P&A 12-21-84

SCHEMATIC

TABULAR DATA

10 sx at surface
75 sx at 340' - 445' 12 3/4" at 395' w/415 sx
75 sx at 690' - 805' Recovered 690' off 8 5/8" csg.
30 sx at 1945'
50 sx in top of 4 1/2" 8 5/8" at 4420' w/375 sx
50 sx at 4525' stub.
20 sx at 5922'

CIBP at 10,340' w/4 sx on top.
Perf. 10,384' to 10,403'
4 1/2" set at 10,510 w/375 sx
TD 10,510'

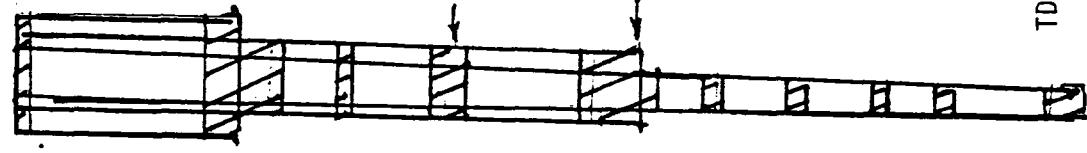
Surface Casing: Size 12 3/4" set at 395'
Cemented with 415 sx. TOC Surface
Feet determined by Visual. Hole Size 17 1/2
Intermediate Casing:
Size 8 5/8" set at 4420'
Cemented with 375 sx. TOC 2430'
Feet determined by calculations. Hole size 11"
Long String:
Size 4 1/2" set at 10,510'
Cemented with 375 sx. TOC 8288
Feet determined by calculations. Hole size 7.
Total Depth 10,510'

Producing Intervals; perforated or open hole
10,384 feet to 10,403 feet

PLUGGED WELL DATA

Operator Name Tex.-Crude/Sinclair 086Co. Lease Name Macris-State: Well No. 1
 Footage Location 660' FN and 660' FE Section 30 Township 14-S Range 34-E
 County Lea Date P&A June, 1949

SCHEMATIC



TABULAR DATA

Surface Casing: Size 13 3/8" set at 285'
 Cemented with 275 sx. TOC Surface
 Feet determined by visual. Hole Size 17 1/2"

Intermediate Casing:
 Size 8 5/8" set at 4491'
 Cemented with 350 sx. TOC 3651'
 Feet determined by Calculations. Hole size 11"

Long String:
 Size None set at _____
 Cemented with TOC sx. TOC _____
 Feet determined by _____. Hole size _____

Total Depth 10,704

Producing Intervals; perforated or open hole
NA feet to NA feet.

25 sx at 4,425' ← 8 5/8" at 4,491' with 350 sx.

25 sx at 5,900'

25 sx at 7,200'

25 sx at 9,600'

25 sx at 10,400'

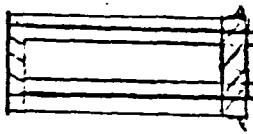
25 sx at 10,705' TD 10,704'

PLUGGED WELL DATA

Operator Name Mark Production Co-Mewborne Oil Lease Name John Etcheverry, Jr. "A"
 Footage Location 1980 FNL and 1830 FML Section 29 Township 14S Range 34E
 County Lea Date P&A 1-20-72

SCHEMATIC

10 sx at surface.



25 sx at 390'

25 sx at 1150'

8 5/8" set at 4418' with 375'

25 sx at 4400'

25 sx at 5902'

35 sx at bottom

TABULAR DATA

Surface Casing: Size 13 3/8" set at 390
 Cemented with 400 sx. TOC Surface

Feet determined by Visual. Hole Size "
 Intermediate Casing:

Size 8 5/8" set at 4418'
 Cemented with 375 sx. TOC 3500'
 Feet determined by Calculations. Hole size "

Long String:

Size None set at "
 Cemented with None sx. TOC "
 Feet determined by ". Hole size "

8 5/8" set at 4418' with 375'

Total Depth 10,515'

Producing Intervals; perforated or open hole

feet to " feet.

25 sx at 8005'

25 sx at 9485'

TD 10,515'

Corrected 8/6/89
Mark H. Knott

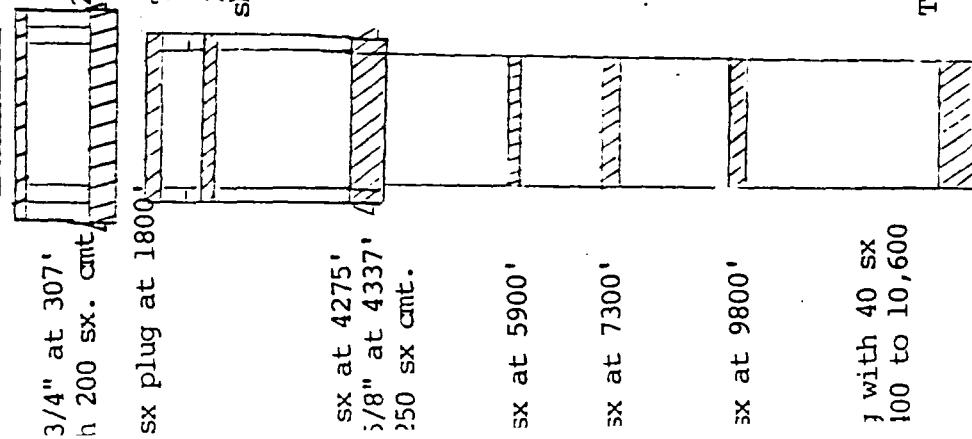
INJECTION WELL DATA SHEET

SHEET 1

C. W. Trainer
OPERATOR

Maria

LEASE

1 1980' FNL and 1980' FEL
WELL NO. FOOTAGE LOCATION29 SECTION T-14-S TOWNSHIP R-34-E
RANGESchematicTabular Data

<u>Surface Casing</u>	
Size	<u>10 3/4"</u> @ <u>307'</u> "
TOC	<u>2453'</u>
Surface size	<u>10 3/4"</u>
shot off <u>7 5/8"</u> at <u>2875'</u>	
T. cement at	<u>2453'</u>
20 sx at	<u>2755'</u> to <u>2875'</u>
sx plug at	<u>1800'</u>
20 sx plug at	<u>300'</u> to <u>320'</u>
3/4" at	<u>307'</u>
h 200 sx. cmt	
sx at	<u>4275'</u>
1/8" at	<u>4337'</u>
250 sx cmt.	
sx at	<u>5900'</u>
sx at	<u>7300'</u>
sx at	<u>9800'</u>

Cemented with 200 sx.Cemented with 250 sx.

feet determined by visual

feet determined by calculated

feet determined by visual

feet determined by visual

feet determined by visual

feet determined by visual

Injection Interval

(perforated or open-hole, indicate which) feet

INJECTION WELL DATA SHEET

SIDE I

SAGE ENERGY COMPANY
OPERATOR
John Etcheverry, Jr. "A"
LETTER

2 Unit Letter "E", 2080' FNL and 560' FWL of Section 29, Township 14S, R-14-E, Rio County, New Mexico
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP BEFORE EXAMINER STOCKED
ON CONSTRUCTION DATE

NFM
Schematic

12 3/4" at 431' w/
425 sx.

Surface Casing
Size 12 3/4" " Cemented with 425
10C surface feet determined by visual

tie back 8 5/8" csg.
538' to surface with
250 sx. circ 100 sx.

Intermediate Casing

Size 8 5/8" " Cemented with 375
10C feet determined by

Hole size

OLD
PBTID 5498'



x at 5922'

cut 4 1/2" csg at 5580'

Size 4 1/2" Cemented with 375 sx.

10C 8288 feet determined by Calculations

Hole size 7 7/8"

Total depth 10,500

perf. 10,402 - 70

Injection interval

4 1/2" at 10,500' with
10,402' feet to 10,420' (perforated or open-hole, indicate which) feet

10,500 TD 375 sx

INJECTION WELL DATA SHEET -- SIDE 2

Tubing size 2 7/8" lined with Internal Plastic Coating (material) set in a
Baker Model "R" (brand and model) packer at 10,400± feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Bough "C" (Permo Penn)
2. Name of Field or Pool (if applicable) Tres Papalotes Penn West
- *3. Is this a new well drilled for injection? /7 Yes X No
If no, for what purpose was the well originally drilled? Oil and gas exploration
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (backs of cement or bridge plug(s) used). No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None

* Etcheyerry "A" #2 was re-entered (6/89) to make a water injection well. It will be sidetracked with kick off point at 5498' and BHL 500' to North at 10,600± ft.

Well File

Exhibit II

HALLIBURTON DIVISION LABORATORY
HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

New Mexico "30" Water Source Well

To Sage

No. _____

Date 2-4-88

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. _____

Well No. _____ Depth. _____ Formation _____

County _____ Field 373 Source _____

	NM St #3	Fresh
Resistivity	.063 @ 70°	4.75 @ 70°
Specific Gravity	1.105	1.000
pH	6.2	7.4
Calcium (Ca)	6650	500 *MPL
Magnesium (Mg)	690	Nil
Chlorides (Cl)	89,000	400
Sulfates (SO ₄)	2424	50
Bicarbonates (HCO ₃)	216	204
Soluble Iron (Fe)	34	Nil

BEFORE EXAMINER STORED

Oil Conservation Division

Remarks:

Exhibit No. I

*Milligrams per liter

Case No. 9825+9826

Respectfully submitted,

Analyst: _____

HALLIBURTON COMPANY

cc:

By _____

CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

GENERAL SCALE PROGRAM
MIXING OF TWO WATERS

SAGE
NM ST #3

TEMPERATURE(F) = 100.

TYPE OF IONS CONCENTRATION(MG/L)
WATER #1 WATER #2

SODIUM	51196.	0.
CALCIUM	6650.	500.
MAGNESIUM	69.	0.
IRON(FERROUS)	16.	0.
IRON(FERRIC)	16.	0.
CHLORIDE	89000.	400.
BICARBONATE	216.	204.
CARBONATE	0.	0.
SULFATE	2424.	50.
TOTAL DISSOLVED SOLIDS	149587.	1154.

PH	6.2	7.4
SPECIFIC GRAVITY	1.105	1.000

TYPE OF SCALE	AMT FORMED (GMS/L)	AMT SOLUBLE (GMS/L)	SCALE INDEX	SCALING TENDENCY
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100.0 % WATER #1 0.0 % WATER #2

CALCIUM SULFATE	4.345	3.295	1.049	POSITIVE = Yes
CALCIUM CARBONATE	-----	-----	0.169	"

90.0 % WATER #1 10.0 % WATER #2

CALCIUM SULFATE	3.919	3.484	0.435	POSITIVE "
CALCIUM CARBONATE	-----	-----	0.067	POSITIVE "

80.0 % WATER #1 20.0 % WATER #2

CALCIUM SULFATE	3.494	3.653	-0.159	NEGATIVE No
CALCIUM CARBONATE	-----	-----	-0.007	NEGATIVE "

70.0 % WATER #1 30.0 % WATER #2

CALCIUM SULFATE	3.068	3.793	-0.725	NEGATIVE "
CALCIUM CARBONATE	-----	-----	-0.075	NEGATIVE "

SAGE
NM ST #3

TYPE OF SCALE	AMT FORMED (GMS/L)	AMT SOLUBLE (GMS/L)	SCALE INDEX	SCALING TENDENCY
60.0 % WATER #1	40.0 % WATER #2			
CALCIUM SULFATE	2.643	3.896	-1.254	NEGATIVE
CALCIUM CARBONATE	-----	-----	-0.121	NEGATIVE
50.0 % WATER #1	50.0 % WATER #2			
CALCIUM SULFATE	2.217	3.948	-1.731	NEGATIVE
CALCIUM CARBONATE	-----	-----	-0.146	NEGATIVE
40.0 % WATER #1	60.0 % WATER #2			
CALCIUM SULFATE	1.792	3.928	-2.136	NEGATIVE
CALCIUM CARBONATE	-----	-----	-0.137	NEGATIVE
30.0 % WATER #1	70.0 % WATER #2			
CALCIUM SULFATE	1.386	3.813	-2.447	NEGATIVE
CALCIUM CARBONATE	-----	-----	-0.083	NEGATIVE
20.0 % WATER #1	80.0 % WATER #2			
CALCIUM SULFATE	0.941	3.532	-2.592	NEGATIVE
CALCIUM CARBONATE	-----	-----	0.082	POSITIVE
10.0 % WATER #1	90.0 % WATER #2			
CALCIUM SULFATE	0.515	2.961	-2.446	NEGATIVE
CALCIUM CARBONATE	-----	-----	0.438	POSITIVE
0.0 % WATER #1	100.0 % WATER #2			
CALCIUM SULFATE	0.090	1.581	-1.492	NEGATIVE
CALCIUM CARBONATE	-----	-----	1.197	POSITIVE

SCALE PROGRAM FOR 1 WATER

SAGE
NM ST #3
LEA
NEW MEXICO

ION	CONC. (MG/L)			
SODIUM	50004.			
POTASSIUM	0.			
CALCIUM	6350.			
MAGNESIUM	690.			
IRON	N.D.	PH		6.20
CHLORIDE	89000.	SPECIFIC GRAVITY		1.1050
BICARBONATE	216.	RESISTIVITY		0.06
CARBONATE	0.	IONIC STRENGTH		2.7841
SULFATE	2424.	TDS		148984.

TYPE OF SCALE	SOLUBILITY (PTB)	SCALE INDEX	SCALE (PTB)	SCALING TENDENCY

TEMPERATURE(F)= 80.0

CALCIUM SULFATE	1157.	0.13	364.	STRONG
CALCIUM CARBONATE	158.	-0.14	-34.	NONE

TEMPERATURE(F)= 93.3

CALCIUM SULFATE	1158.	0.13	363.	STRONG
CALCIUM CARBONATE	110.	0.05	14.	SLIGHT

TEMPERATURE(F)= 106.7

CALCIUM SULFATE	1149.	0.14	372.	STRONG
CALCIUM CARBONATE	76.	0.21	48.	SLIGHT

TEMPERATURE(F)= 120.0

CALCIUM SULFATE	1137.	0.14	384.	STRONG
CALCIUM CARBONATE	50.	0.40	74.	SLIGHT

NOTE: PTB = POUNDS PER THOUSAND BARRELS

Fresh water source

WATER ANALYSIS - HALLIBURTON SERVICES

Located NW/4 of SW/4 of Section 29, T-14-S,
R-34-E, Lea County, New Mexico.

Res. at 70° = 5.41 ohms

G. S. = 1.000

PL = 7.8

Ca ++ = 100 ppm

Ma ++ = 100 ppm

Cl - = 75 ppm

SO₄ -- = 70 ppm

Bicarb = 168 ppm

Fe = None

513 ppm

BEFORE EXAMINER STOCKER

Oil Conservation Division

Exhibit No. J

Case No. 982579826

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery.

3. Article Addressed to:

Yates Petroleum Company
105 South 4th Street
Artesian, New Mexico 88210

4. Article Number

P 248 625 558

Type of Service:

- Registered Insured
 Certified COD
 Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

10 - 31 - 89

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Feb. 1986

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery.

3. Article Addressed to:

Enron Oil and Gas Co.
P.O. Box 2267
Midland, Texas 79702

4. Article Number

P 248 625 556

Type of Service:

- Registered Insured
 Certified COD
 Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

PS Form 3811, Feb. 1986

DOMESTIC RETURN RECEIPT

BEFORE EXAMINER SIGNATURE

Gil Conservation Division

Exhibit No. K

Case No. 982519826

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery.

3. Article Addressed to:

John Etcheverry, Jr.
P.O. Box 1656
Lovington, New Mexico 88260

4. Article Number

P 248 625 557

Type of Service:

- Registered Insured
 Certified COD
 Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X

6. Signature — Agent

X

7. Date of Delivery

11 - 21 - 89

PS Form 3811, Feb. 1986

DOMESTIC RETURN RECEIPT