



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

11-2-S7

POLICY & REGULATIONS
DEPARTMENT OF MINERALS
NEW MEXICO

GARREY CARRUTHERS
GOVERNOR

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

f- 8325-A

RE: Proposed:

MC

DHC

NSL

NSP

SWD

X

WFX

PMX

Gentlemen:

I have examined the application for the:

Sage Energy Co. John Etchegaray Jr. "A" #3-E 27-145
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Commercial should go to hearing
OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no
- II. Operator: SAGE ENERGY COMPANY
Address: P. O. Drawer 3068, Midland, Texas 79702
Contact party: Jay H. Hardy Phone: 915 683 5271
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? yes no
If yes, give the Division order number authorizing the project R 8505.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Jay H. Hardy Title Vice President

Signature: Jay H. Hardy Date: October 31, 1989

- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Attachment for Section VI, VIII, X and XI have been previously submitted with an application dated June 19, 1987 for approval of New Mexico "30" State No. 1 Waterflood project, Lea County, New Mexico Application L-9940 approved 9-4-87.
- DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

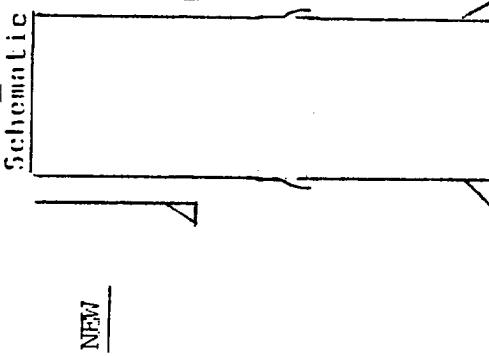
INJECTION WELL DATA SHEET

SIDE 1

SAGE ENERGY COMPANY
OPERATOR
WELL NO. 2
FOOTAGE LOCATION

John Etcheverry, Jr. "A"
LEASE

Unit Letter "E", 2080' FNL and 560' FWL of Section 29, Township 14S, R-34-E, Lea County, New Mexico
SECTION
TOWNSHIP
RANGE

SchematicTabular DataSurface Casing

Size 12 3/4" "

Cemented with 425 sx.
TOC 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 sx.
TOC surface feet determined by visual

Hole size _____

Long string

cut 4 1/2" csg at 5580'

Size 4 1/2" "

Cemented with 375 sx.
TOC 8288 feet determined by calculations

Hole size 7 7/8"

PBD 5498'
Total depth 10,500

Injection interval

10 sx at 5922'
0 sx at 7990'
IBP 10,355' = 4 sx
perf. 10,402 - 70

4 1/2" at 10,500' with
10,402' (perforated or open-hole, 10,470' indicate which) feet

INJECTION WELL DATA SHEET -- SIDE 2

Tubing size 2 7/8" lined with Internal Plastic Coating (material) set in a
Baker Model "P" (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" (Penno Penn)
2. Name of Field or Pool (if applicable) Tres Papalotes Penn West
- *3. Is this a new well drilled for injection? / 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 (sacks 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

* Cheverry "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.

State	State	State	State	State
Yates Pet., et al. LG 2670 Trice V-649	(Gulf) et al. Oleum Prod. (trical) B-10363	John Huber, C Justice K-6231	Texaco Mogul Oil 10000	Yates Pet., et al. TD 10374 Troy C. Fort, S.E.M.I.
Yates Pet., et al. LG 2670 Trice V-649	"Lazy J.S." Texaco, Inc. (Amerada)	Huber-St. TD 10374	William Sanders' Troy C. Fort, S.E.M.I.	Skelly Chevron Woods Pet. T.H. McConnell F440
Yates Pet., et al. LG 2670 Trice V-649	E-2426	T.P.C.O. State TD 10080 V-9380	Keohane Inc., M.I. R.M. Hilburn(S)	Enron 2-1-93 5-4-312
Yates Pet., et al. LG 2670 Trice V-649	"Amerada-St." State	Troy C. Fort, S.E.M.I.	U.S. MI Troy C. Fort, S.E.M.I.	Enron 2-1-93 5-4-312
MWJ LG 2612	(Mobil) LG 2265	Tahoe Tahoe St. Yates Pet., et al. LG 2265 O. V-9380 (D.D.) Superior St.	Yates Pet. LG-2350	T.H. McConnell Enron 2-1-93 5-4-312
457= 10 III Tahoe Tahoe Corp. J.M. Huber Corp. Superior-St.	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 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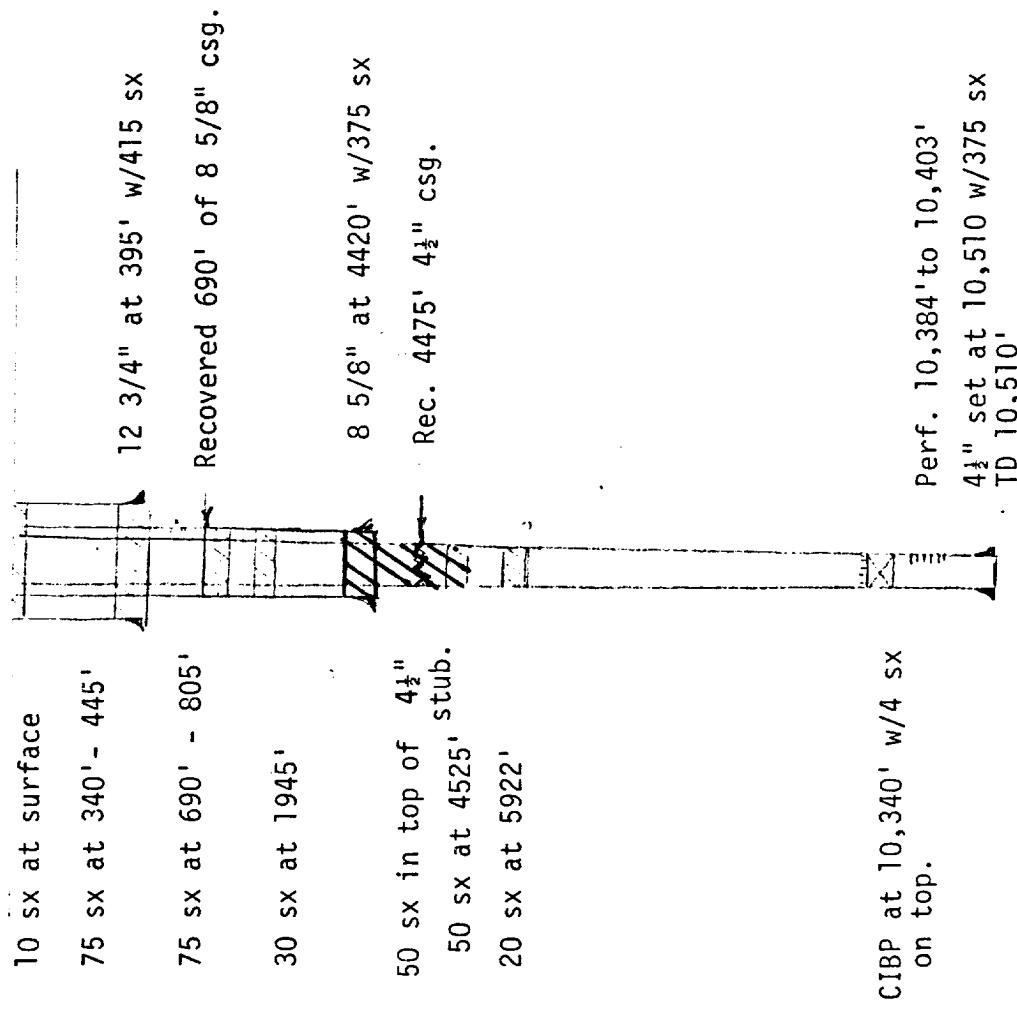
AREA OF REVIEW JOHN ETCHEVERRY NO. 2-A INJECTION WELL

OPERATOR	LOCATION	TYPE COMPLETION	DATE	PB/ID	CASTING 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
Newbourne 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
Newbourne 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	
Newbourne 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	
Newbourne 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 Marie No. 1	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	

PLUGGED WELL DATA

Operator Name	Mewbourne Oil Company	Lease Name	Shell State	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



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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name	
Shell-State	
9. Well No.	
1	
10. Field and Pool, or Wildcat	
Tres Papalotes	
Permo-Penn	
12. County	
Lea	

SUNDY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE APPLICATION FOR PERMIT - 11 (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER <input type="checkbox"/>
2. Name of Operator Mewbourne Oil Company		
3. Address of Operator P. O. Box 7698, Tyler, Texas 75711		
4. Location of Well UNIT LETTER P FEET FROM THE South LINE AND 560 FEET FROM		
THE East LINE, SECTION 30 TOWNSHIP 14-S RANGE 34-E NMPM.		
15. Elevation (Show whether DF, RT, GR, etc.) 4143' GL		

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	<input type="checkbox"/>
OTHER <input type="checkbox"/>	<input type="checkbox"/>	OTHER <input type="checkbox"/>	<input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. 12-13-84 Set CIBP at 10,340' and capped with 4 sxs cement.
2. 12-14-84 Circulated hole with mud. Pulled out of hole and set 20 sx cement plug. Pulled out to 5922' and set 20 sx cement plug. Cut off csg at 4475'.
3. 12-15-84 Set 50 sx cement at 4525'.
4. 12-19-84 Spotted 30 sx cement plug at 1945'. Went in hole with tubing to 805'. Spotted 50 sx plug in top of 8-5/8" stub.
5. 12-20-84 Tagged 8-5/8" stub plug at 690'. Spotted 75 sx cement plug at 445'.
6. 12-21-84 Tagged cement plug at 340'. Cut off wellhead and set 10 sx surface plug and erected dry hole marker.

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

Raymond Thompson TITLE Gas Control Supervisor DATE January 14, 1985

R. L. Miller TITLE OIL & GAS INSPECTOR

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

DATE 4-1-85

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NOV 1 1989

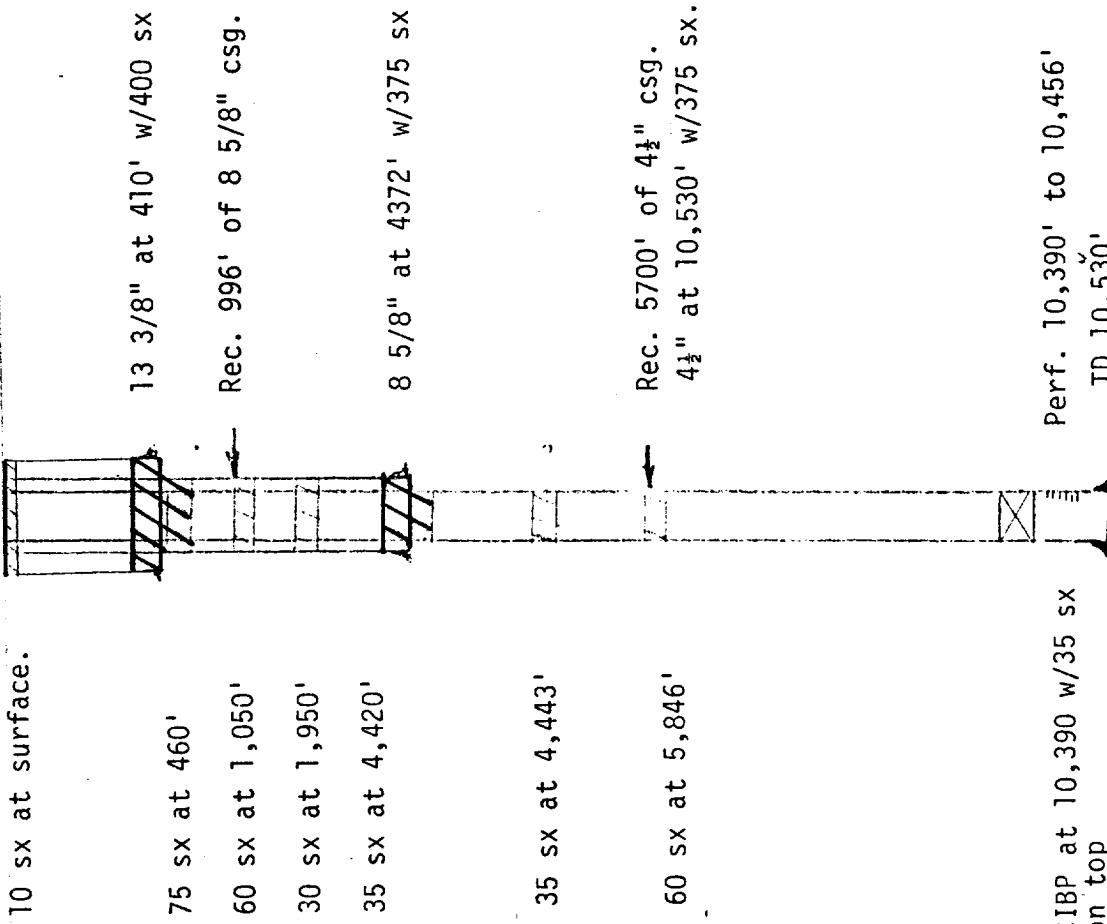
OCD
HOBBS OFFICE

PLUGGED WELL DATA

Operator Name Newborne Oil Company Lease Name "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.

TABULAR DATA

Surface Casing: Size 13 3/8" set at 410'
 Cemented with 400 sx sx. TOC Surface
 Feet determined by visual. Hole Size 17 $\frac{1}{2}$.

Intermediate Casing:
 Size 8 5/8" set at 4372'
 Cemented with 375 sx. TOC 3000'
 Feet determined by calculations. Hole size 11".

Long String:
 Size 4 $\frac{1}{2}$ " set at 10,530'
 Cemented with 375 sx. TOC 8285'
 Feet determined by calculations. Total Depth 10,530'.

Producing Intervals; perforated or open hole
10,390 feet to 10,456 feet.

Perf. 10,390' to 10,456'
 CIBP at 10,390' w/35 sx on top
 TD 10,530'

DISTRIBUTION	
SANTA FE	
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U.S.G.S.	
LAND OFFICE	
OPERATOR	

EXICO OIL CONSERVATION COMM

Supplements Old
C-102 and C-103
Effective 1-1-65

SA. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fed <input type="checkbox"/>
S. State Oil & Gas Lease No. NM 3352

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL ON TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL GAS WELL OTHER

1. Name of Operator

NEWBOURNE OIL COMPANY

2. Address of Operator

P. O. Box 7698, Tyler, TX 75711

3. Location of Well

UNIT LETTER H 2080 FEET FROM THE North LINE AND 560 FEET FROM

THE East LINE, SECTION 30 TOWNSHIP 14S RANGE 34E NWPM.

15. Elevation (Show whether DF, RT, GR, etc.)
4143 GL

7. Unit Agreement Name

8. Firm or Lease Name
Shell "A" State

9. Well No.
1

10. Field and Pool, or Wildcat
Tres Papalotes-Wes

12. County
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK
TEMPORARILY ABANDON
PULL OR ALTER CASING

PLUG AND ABANDON
CHANGE PLANS

REMEDIAL WORK
COMMENCE DRILLING OPS.
CASING TEST AND CEMENT JOB
OTHER

ALTERING CASING
PLUG AND ABANDONMENT

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

On November 3, 1978 plugged well as follows:

Set Cast Iron Plug at top perforations - 10,390', with 35 sax cement on top.
25 sx plug at 5846'
35 sx plug at 5846'
35 sx plug at 4443'
35 sx plug at 4420'
30 sx plug at 1950'
60 sx plug at 1050'
75 sx plug at 460'
10 sx at top with marker.

4-1/2" casing was shot off at 5700' and the 5700' were pulled.
8-5/8" casing was shot off at 995' and 995' were pulled.

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

SIGNED Mayjane Ltz

TITLE Production Clerk

DATE 11/30/78

APPROVED BY Eddie Leay

TITLE OIL & GAS INSPECTOR

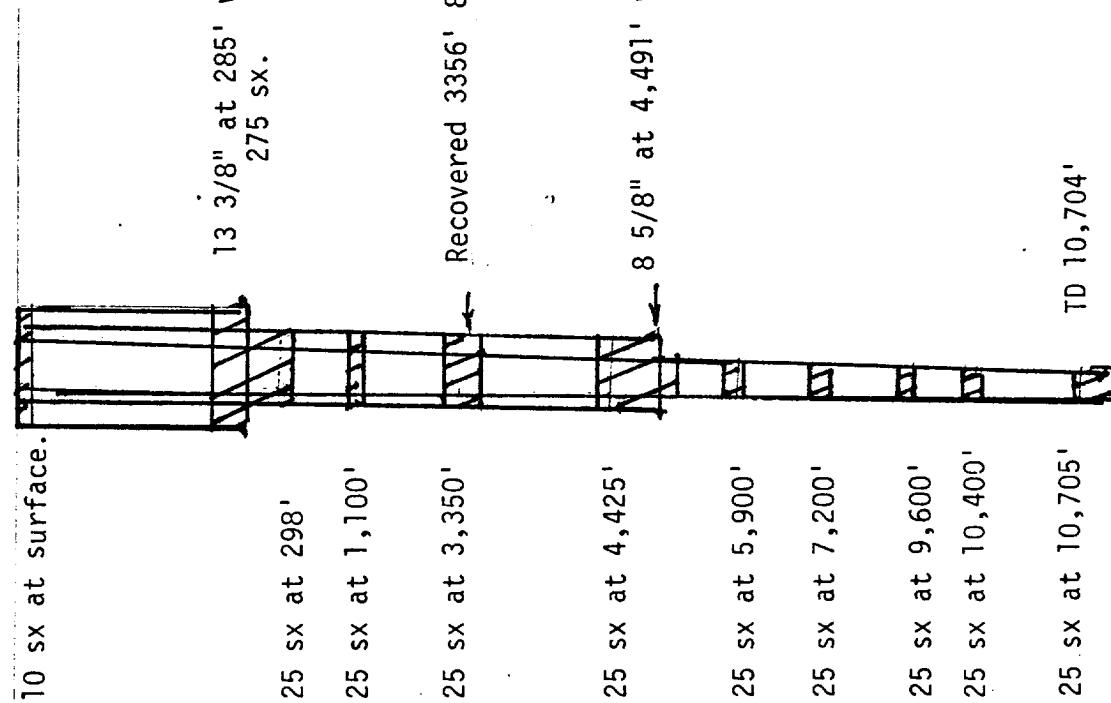
DATE

MAR 1 1981

CONDITIONS OF APPROVAL, IF ANY:

PLUGGED WELL DATA

Operator Name Tex.-Crude/Sinclair O&G Co. Lease Name Machris-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

SCHEMATICTABULAR DATA

Surface Casing:	Size <u>13 3/8"</u>	set at <u>285'</u>
Cemented with	<u>275</u>	sx. TOC <u>Surface</u>
Feet determined by	<u>visual</u>	Hole Size <u>17 1/2"</u>
<u>Intermediate Casing:</u>		
Size	<u>8 5/8"</u>	set at <u>4491'</u>
Cemented with	<u>350</u>	sx. TOC <u>3651'</u>
Feet determined by	<u>Calculations</u>	Hole size <u>11"</u>
<u>Long String:</u>		
Size	<u>None</u>	set at _____
Cemented with	<u></u>	sx. TOC <u></u>
Feet determined by	<u></u>	Hole size <u></u>
Total Depth	<u>10,704'</u>	
Producing Intervals; perforated or open hole		
feet to	<u>NA</u>	feet.

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PRORATOR OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office, see per Commission Rule 1106)

Name of Company	Address				
Texas Crude Oil Company-Sinclair Oil & Gas Co.	205 W. J Tower, Midland, Texas				
Lease	Well No.	Unit Letter	Section	Township	Range
Machris State	1-30	A	30	14-S	34-E
Date Work Performed	Pool	County			Lea
See Below	Wildcat				
THIS IS A REPORT OF: (Check appropriate block)					
<input type="checkbox"/> Beginning Drilling Operations	<input type="checkbox"/> Casing Test and Cement Job	<input type="checkbox"/> Other (Explain):			
<input checked="" type="checkbox"/> Plugging	<input type="checkbox"/> Remedial Work				

Detailed account of work done, nature and quantity of materials used, and results obtained.

Cement plugs spotted 5-14-62 as follows:

25 sx @ 10,705'
25 sx @ 10,400'
25 sx @ 9,600'
25 sx @ 7,200'
25 sx @ 5,900'
25 sx @ 4,425'

3356' of 8-5/8" casing was pulled and plugs spotted 6-9-62 as follows:

25 sx @ 3,350'
25 sx @ 1,100'
25 sx @ 298'
10 sx @ top of surface.

Steel marker placed in top. Pits will be filled and location cleaned and leveled when pits are dry.

Witnessed by	Position	Company
--------------	----------	---------

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

DF Elev.	TD	PBTD	Producing Interval	Completion Date
----------	----	------	--------------------	-----------------

Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth
-----------------	--------------	---------------------	------------------

Perforated Interval(s)

Open Hole Interval	Producing Formation(s)
--------------------	------------------------

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

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

Approved by	Name
-------------	------

Title	Position
-------	----------

Date	Company
------	---------

Division Superintendent

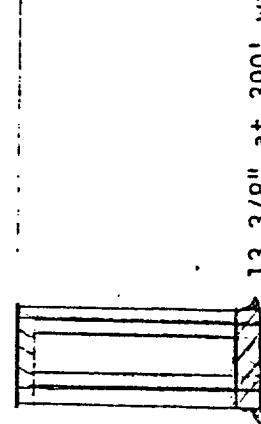
Texas Crude Oil Company

PLUGGED WELL DATA

Operator Name Mark Production Co-Mewborne Oil Lease Name John Etcheverry, Jr. "A" Well No. 1 Troy N. Nisbett
 Footage Location 1980 FNL and 1830 FWL 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'

25' sx at 4400'

25' sx at 5902'

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 None

Feet determined by None. Hole size "
 Total Depth 10,515'

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

25' sx at 8005'

25' sx at 9485'

35' sx at bottom

TD 10,515'

Corrected 8/6/59

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5b. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER -	7. Unit Agreement Name
2. Name of Operator Mark Production Company	8. Farm or Lease Name John Etcheverry, Jr. "A"
3. Address of Operator 1108 Simons Building, Dallas, Texas 75201	9. Well No. 1
4. Location of Well UNIT LETTER F FEET FROM THE North LINE AND 1830 FEET FROM THE West LINE, SECTION 29 TOWNSHIP 14-S RANGE 34-E N.M.P.M.	10. Field and Pool, or Wildcat Undesignated
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	15. Elevation (Show whether DF, RT, GR, etc.) 4141' GL
NOTICE OF INTENTION TO:	12. County Lea

PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER _____	PLUG AND ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> OTHER _____	REMEDIAL WORK <input type="checkbox"/> COMMENCE DRILLING OPS. <input type="checkbox"/> CASING TEST AND CEMENT JOBS <input type="checkbox"/> OTHER _____	ALTERING CASING <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/> TA <input type="checkbox"/>
--	---	--	--

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11-28-71 Drilled to 10,515' - plugged and abandoning

10 jts of 12-3/4" casing set at 390' left in hole.
114 jts of 8-5/8" casing set at 4418' left in hole.

Set 35 sack plug at bottom
Set 25 sack plug at 9485' - Wolfcamp
Set 25 sack plug at 8005' - Abo
Set 25 sack plug at 5902' - Glorieta
Set 25 sack plug at bottom of intermediate - 4400'

Planning to pull 8-5/8" casing when weather permits rig to move off location. Will place 25 sack plug on top of stub, 25 sacks at bottom of 12-3/4" casing and 10 sacks at top with a cap.

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

SIGNED <u>Hugh L. Thompson</u>	TITLE <u>Assistant Secretary</u>	DATE <u>12-2-71</u>
APPROVED BY <u>J.W. Thompson</u>	TITLE <u>EL PASO DISTRICT</u>	DATE <u>DEC 13 1971</u>
CONDITIONS OF APPROVAL, IF ANY:		

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease

State

Fee

5b. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT --" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER: Dry	7. Unit Agreement Name
2. Name of Operator Mark Production Company	8. Farm or Lease Name John Etcheverry, Jr. "A"
3. Address of Operator 1108 Simons Building, Dallas, Texas 75201	9. Well No. 1
4. Location of Well UNIT LETTER F , 1980 FEET FROM THE North LINE AND 1830 FEET FROM THE West LINE, SECTION 29 TOWNSHIP 14-S RANGE 34-E NMPM.	10. Field and Pool, or Wildcat Undesignated
15. Elevation (Show whether DF, RT, GR, etc.) 4141' GL	12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK
TEMPORARILY ABANDON
PULL OR ALTER CASING
OTHER _____

PLUG AND ABANDON
CHANGE PLANS
OTHER _____

REMEDIAL WORK
COMMENCE DRILLING OPNS.
CASING TEST AND CEMENT JOB
OTHER _____

ALTERING CASING
PLUG AND ABANDONMENT
OTHER

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1-1-72 Shot 8-5/8" casing off at approximately 1190' - worked casing free -

Set plug No. 1	25 sacks	@ 1150'	8-5/8" Stub
Set Plug No. 2	25 sacks	@ 390'	13-3/8" shoe
Set Plug No. 3	10 sacks	@ Surface	

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

SIGNED

Gaylord Thompson TITLE **Assistant Secretary**

DATE **1-20-72**

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

Nathan E. Clegg

TITLE

OIL & GAS INSPECTOR

DATE

MAR 6 1972

INJECTION WELL DATA SHEET

SITE 1

C. W. Trainer
OPERATOR

Maria

LEASE

1 1980' FNL and 1980' FEL
WELL NO. FOOTAGE LOCATION

29

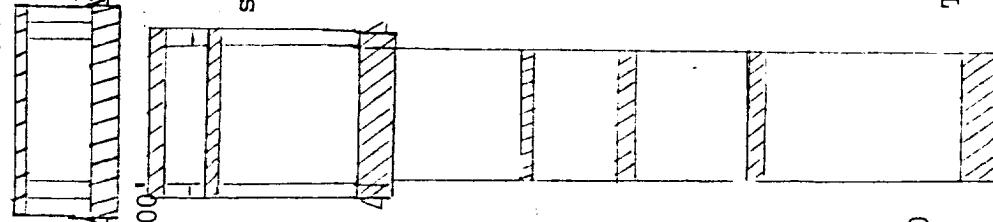
T-14-S
R-34-E

SECTION

TOWNSHIP

RANGE

Schematic



Tabular Data

Surface Casing

Size 10 3/4" @ 307'
Cemented with 200 sx.

feet determined by visual

TOC 2453'

Surface

size 10 3/4"

Intermediate Casing

Size 7 5/8" at 4337'
Cemented with 250 sx.TOC 4275'
feet determined by calculatedHole size 9 7/8"

Long string

Size "
Cemented with 250 sx.TOC 7300'
feet determined by visualHole size 6 3/4"Total depth 10,600'Injection Interval
TD 10,600' D&A
lug with 40 sx
0,400 to 10,600feet to open-hole, indicate which)
(perforated or open-hole, indicate which) feet

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PRODUCTION OFFICE	
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NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company C. W. TRAINER	Address: FEB 1, 1962 P. O. BOX 2222 HOBBS, NEW MEXICO				
Lease MARIA	Well No. 1	Unit Letter G	Section 29	Township 14-SOUTH	Range 34-EAST
Date Work Performed 12/14/62 TO 1/21/63	Pool WILDCAT	County LEA			

THIS IS A REPORT OF: (Check appropriate block)

- | | | |
|--|---|---|
| <input type="checkbox"/> Beginning Drilling Operations | <input type="checkbox"/> Casing Test and Cement Job | <input type="checkbox"/> Other (Explain): |
| <input checked="" type="checkbox"/> Plugging | <input type="checkbox"/> Remedial Work | |

Detailed account of work done, nature and quantity of materials used, and results obtained.

THIS WELL WAS PLUGGED AND ABANDONED AS FOLLOWS:

1. 40 SX. CEMENT PLUG 10,400 - 10,600
2. 20 SX. CEMENT PLUG 9,800 - 9,900
3. 20 SX. CEMENT PLUG 7,300 - 7,400
4. 20 SX. CEMENT PLUG 5,900 - 6,000
5. 20 SX. CEMENT PLUG 4,275 - 4,375 (BASE OF 7 5/8" CASING)
6. SHOT OFF 7 5/8" CASING AT 2855
7. 20 SX. CEMENT PLUG 2,775 - 2,875 (7 5/8" STUB)
8. 20 SX. CEMENT PLUG 1,800 - 1,900
9. 20 SX. CEMENT PLUG 300 - 320 (BOTTOM OF 10 3/4" CASING)
10. SET REGULATION MARKER WITH 10 SX. CEMENT.
11. LOCATION HAS BEEN CLEANED AND IS READY FOR INSPECTION.

Witnessed by C. W. TRAINER	Position OWNER - OPERATOR	Company C. W. TRAINER
--------------------------------------	-------------------------------------	---------------------------------

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

DF Elev.	TD	P BTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	

Perforated Interval(s)

Open Hole Interval	Producing Formation(s)
--------------------	------------------------

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

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

Approved by <i>John W. Trainer</i>	Name <i>O. K. Gilbreth Jr.</i>
Title <i>Land Manager</i>	Position O. K. GILBRETH, JR. ENGINEER
Date <i>Feb 1, 1962</i>	Company C. W. TRAINER

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OCD
HOBBS OFFICE

later than twenty days after completion of well follow instructions in rules and regulations of the Commission. Submit in QUINTUPLETS. If State Land submit 6 Copies

AREA 640 ACRES
LOCATE WELL CORRECTLY

C. W. TRAINER
(Company or Operator)

Maria

(Lease)

Well No. 1, in SW 1/4 of NE 1/4, of Sec. 29, T. -14-S, R. -34-E, NMPM.
Wildcat Pool, Lca. County.

Well is 1980 feet from North line and 1980 feet from East line

of Section 29. If State Land the Oil and Gas Lease No. is

Drilling Commenced September 17, 1962. Drilling was Completed November 6, 1962.

Name of Drilling Contractor Forster Drilling Company, Inc.

Address P. O. Box 32 Odessa, Texas.

Elevation above sea level at Top of Tubing Head 4138.70 GL. The information given is to be kept confidential until
Not Confidential, 19

OIL SANDS OR ZONES

No. 1, from..... to..... No. 4, from..... to.....
No. 2, from..... to..... No. 5, from..... to.....
No. 3, from..... to..... No. 6, from..... to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from..... to..... feet.
No. 2, from..... to..... feet.
No. 3, from..... to..... feet.
No. 4, from..... to..... feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
10 3/4	45#	Used	294				Surface
7 5/8	26.4#	New & Used	4325	HONCO	2855		Intermediate

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
13 3/4	10 3/4	307	200	Dowell		
9 7/8	7 5/8	4337	250	Dowell		
6 3/4	None					

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qu. or Gals. used, interval treated or shot.)

Data on Proposed Operation

Secondary Recovery Unit

VII.

1. Estimated average injection rate is 300 BWPD and the maximum is 500 BWPD.
2. The system is closed.
3. Estimated average injection pressure is 2000 psi and the maximum is 3000 psi.
4. Injection fluid is fresh and produced water. Analysis of fresh water is attached.
5. Not applicable.

VIII

The injection zone is:

Perforations from 10,402' to 10,407'. Top of Permo. - Penn (Bough "C") is 10,392'. The thickness of the Permo Penn formation is 700'.

Source of drinking water is Cretaceous at 250' to 350'.

IX. No stimulation program needed.

X. Logs and test data on file with the division.

XI. Analysis attached.

XIII.

I have no knowledge of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water.

GEOLOGY

The Tres Papalotes field located in T-14, R-34, Lea County, New Mexico, produces from several numbers of the Bough "C" formation. The Bough "C" is widely productive along the western platform margin of the Tatum Basin. Dated as Permo-Penn in age, the productive members consist of clean porous white limestone, very fossiliferous, with chert nodules interspersed within the limestone. The depositional model of this reservoir is most likely algal mats that grew and thrived within the photic zone, basinward from the basin edge in a relatively high energy environment, creating in the process the porous high permeability productive limestone.

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

PROOF OF NOTICE

SECONDARY RECOVERY

- (1.) Sage Energy Company
P. O. Drawer 3068
Midland, Texas 79702
- Jay H. Hardy, Vice President - Engineering
AC 915 683 5271
- (2.) Application for injection well located Unit Letter "E", 2080 feet from the North Line and 560 feet from the West Line of Section 29, T-14-S, R-34-E, Lea County, New Mexico.
John Etcheverry Jr. "A" Well No. 2
- (3.) The formation name Bough "C" with injection intervals from 10,402' to 10,407'. The estimated injection rate is 300 BWPD and the maximum rate of 500 BWPD with 3000 psi.
- (4.) Notice has been sent to the following parties:

Commissioner of Public Lands
State of New Mexico Attn: Frank Prado, Oil and Gas Division
P. O. Box 1148
Santa Fe, New Mexico 87501

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

New Mexico Oil Conservation Commission
P. O. Box 2088 Attn: Mike Stogner
Santa Fe, New Mexico 87501

Yates Petroleum Company
105 South 4th Street
Artesia New Mexico 88210

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

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