HEYCO **HARVEY E. YATES COMPANY**

PETROLEUM PRODUCERS

P. O. BOX 1933 SUITE 300, SECURITY NATIONAL BANK BUILDING 505/623-6601

ROSWELL, NEW MEXICO 88201

June 20, 1983

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey
Division Director & State Petroleum Engineer

Re: Request for Administrative Approval to Convert the Richardson Fee #2 to a Salt Water Disposal Well

Dear Mr. Ramey:

Please find enclosed two copies of an application for a request of an administrative approval to convert the Richardson Fee #2 to a Salt Water Disposal Well located in the NE4/SW4 of Section 5, Township 14 South of Range 36 East, Lea County, New Mexico.

If the commission considers it necessary for the request be set for hearing, please schedule the presentation for the earliest possible date on the docket. Please contact my office of your decision regarding the aforementioned request for administrative approval to convert said well to a Salt Water Disposal well.

Sincerely yours,

Ray F. Nokes
Reservoir Engineer

RFN:mlb

cc: Oil Conservation Division
District I
Hobbs, New Mexico

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

Revised 7-1-81

RECEIVED
JUN 21 1983
OIL CONSERVATION DIVISION
SANTA FE

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes

II. Operator: Harvey E. Yates Company

Address: P. O. Box 1933, Suite 300 Security National Bank, Roswell, NM 88201

Contact party: Ray F. Nokes Phone: 1-505-623-6601

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 _____.

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: Ray F. Nokes Title Reservoir Engineer

Signature: Ray F. Nokes Date: June 20, 1983

* 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. _____

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.

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(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

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Addendum to C-108

III B 1) Cisco-Canyon (Penn)
2) 10,576'-11,368' (Perforated)
3) The well was originally drilled in hopes of completing in the Mississippian.
4) CIBP @ 13,350' w/35' cmt on top to isolated open hole interval from 13,370' to 13,530'.
5) a. McDonald #2 located 660' FNL & 660' FWL of Section 3, T-14S, R-36E produces from the Devonian @ 14,556'-568'.
b. Richardson Fee #1 located 660' FNL & 1980' FWL of Section 5, T-14S, R-36E produces from the Austin Mississippian, open hole from 13,393' to 13,524'.
c) Griffin #1 located 660' FNL & 660' FEL of Section 4, T-14S, R-36E produces from the Bough A @ 10,203'-210'.

VII A) 500-600 barrels water per day.
B) Closed system.
C) Expected pressure of 1200 psi to maximum of 2273 psig.
D) Devonian formation water; see attached water analysis.
E) See attached water analysis.

VIII 1) Lithologic Data: Cisco-Dolomite, Lime & Chert; Canyon-Dolomite, Lime, Chert.
2) Geologic Name: Pennsylvanian (Cisco-Canyon).
3) Thickness: 1345 feet combined (Cisco = 443'; Canyon = 902').
4) Depth: T/Cisco = 10,615'; T/Canyon = 11,058'.
See attached report on fresh water aquifers.

XI See attached completion schedule.

X Logs on file with New Mexico Oil Conservation Division District I in Hobbs, New Mexico.

XI See attached water analysis for the S. A. Richardson fresh water well.

XII To the best of our knowledge, there are no open faults in the disposal zone or fresh water aquifers in the area.

XIII See attached proof of notice printed in the Hobbs Daily News Sun newspaper.

SECTION III-A

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

SECTION III-A

Well Name & Number	Richardson Fee #2
Legal Location	1980' FSL & 1980' FWL Sec. 5, T-14S, R-36E Lea County, New Mexico
Field Pool	Cisco-Canyon Penn
Spud Date	9/23/83
Completion or P & A Date	Waiting on OCD Approval to Convert to SWD
Type Completion	--
TD	13,530'
PBTD	13,315'
Perforations	10,576',11,368' (9 holes)
Casing Design	13 3/8 to 380' w/400 sxs cmt. 8 5/8 to 4,600' w/1425 sxs cmt. 5 1/2 to 13,370' w/992 sxs cmt.
Tubing	10,525'
Top of Cement	10,360' by CBL

Proposed Disposal Well

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
Roswell, New Mexico 88201

Operator Harvey E. Yates Company Well Name & # Richardson Fee #2 Lease # Fee

District Roswell Made By Ray F. Nokes Date 6-2-83

Location Unit K, 1980' FSL & 1980' FWL, Sec. 5, T-14S, R-36E, Lea County, NM

Spud Date 9-23-83 Compl. Date Waiting On Completion Orders TD 13,530' PBTD 13,315'

Type Well: Oil ____ Gas ____ Other ____ Field N/A

I P N/A Zone Canyon

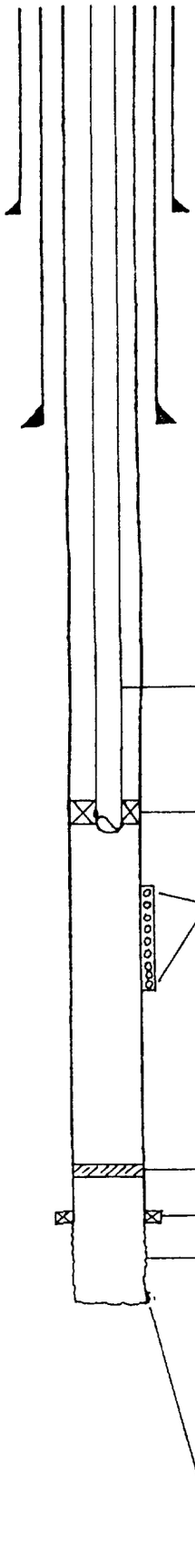
Perfs.: 10,576'-11,368' Total Holes 9 holes

Stimulation Natural Test

Cumul. Oil ____ MCF ____ Water ____

Recent Test N/A Lift Equipment ____

Misc. Elevation: 3963.1' GR



Surface: 13-3/8" , 48 # Gr. MRJ @ 380 Cmt. w/ 400 Sx. TOC surface Hole Size 17-1/2" Max Mud Wt. ____ #/G

Intermediate: 8-5/8" , 28 & 32 # Gr J-55 @ 4600 Cmt w/ 1425 Sx. TOC @ surface , Hole Size 11 ", Max Mud Wt. ____ #/G

Internally plastic coated 2 3/8" N-80 EUE tbg.

Nickle plated 5 1/2" Baker Lokset w/1.81 profile on/off tool @ 10,525'

Canyon perfs @ 10,576; 584; 688; 888; 11,007; 119; 194; 368.

CIBP @ 13,350 w/35' cmt on top (PBTD 13,315')

Pkr shoe @ 13,370'.

Open Hole

Production: 5 1/2 ", 17 #, S-95,N-80 Gr. @ 13,370.5 , Cmt. w/ 992 Sx, TOC @ 10,360 , Hole Size ____ Mx Mud Wt. ____ #/G

TD 13,530

WELL HISTORY

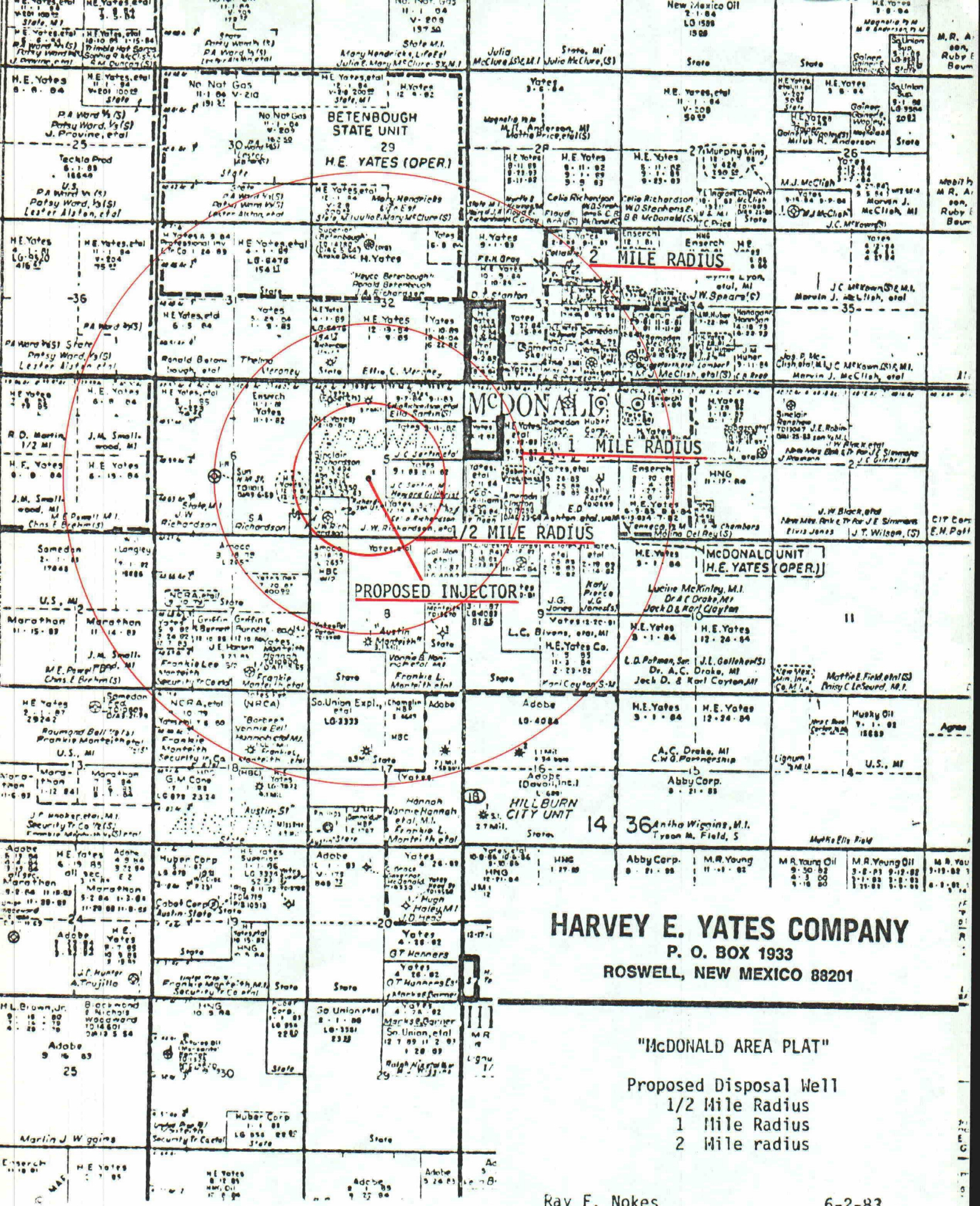
Tubing ____ ", ____ #, ____ Gr. @ ____

Tubing ____ ", ____ #, ____ Gr. @ ____

Packer @ ____

SECTION V

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201



HARVEY E. YATES COMPANY

P. O. BOX 1933

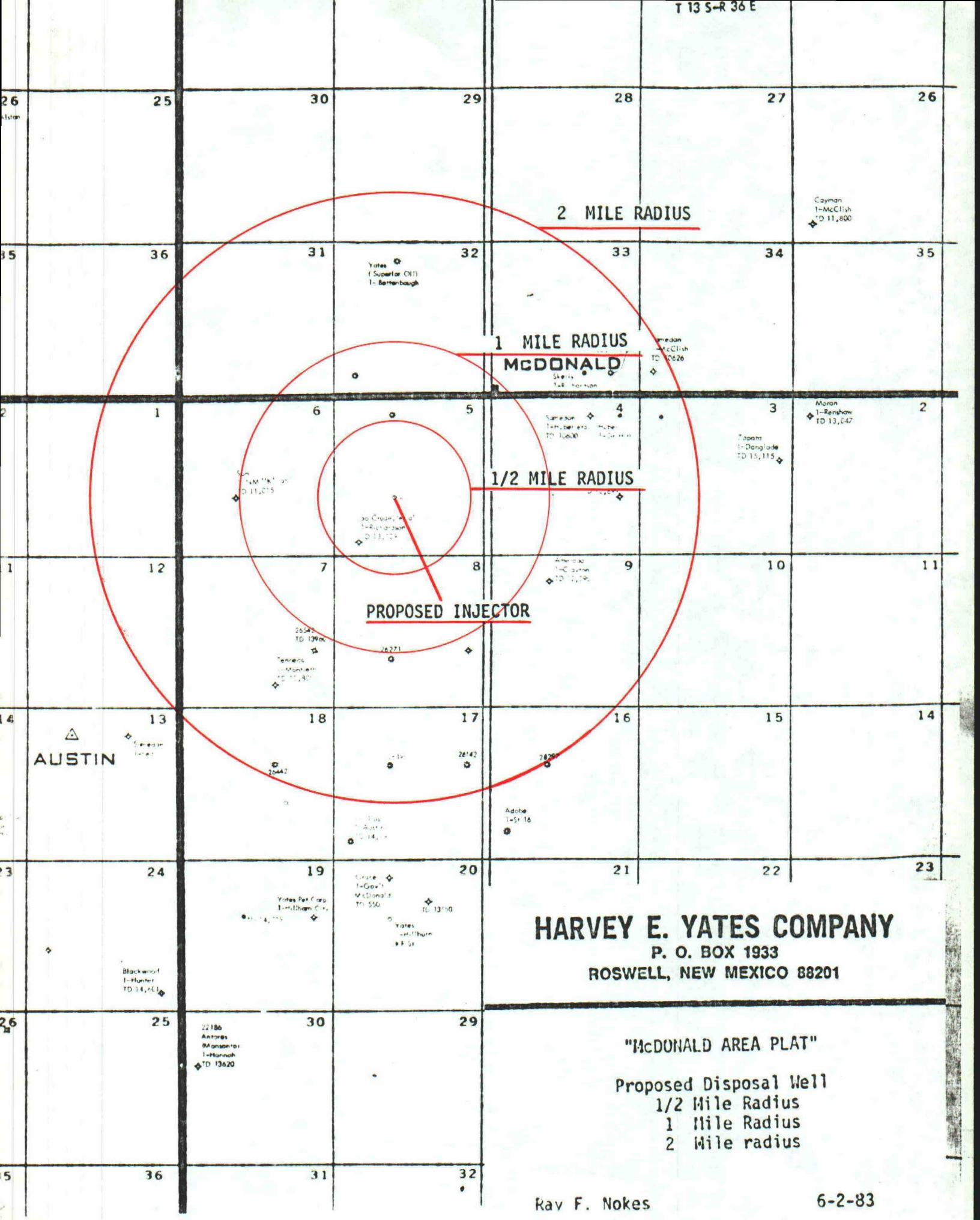
ROSWELL, NEW MEXICO 88201

"McDONALD AREA PLAT"

Proposed Disposal Well
1/2 Mile Radius
1 Mile Radius
2 Mile radius

Ray F. Nokes

6-2-83



HARVEY E. YATES COMPANY

P. O. BOX 1933
ROSWELL, NEW MEXICO 88201

"McDONALD AREA PLAT"

Proposed Disposal Well
1/2 Mile Radius
1 Mile Radius
2 Mile radius

Ray F. Nokes

6-2-83

SECTION VI

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

SECTION VI

Well Name & Number	Richardson Fee #2	Richardson 1-5
Legal Location	1980' FSL & 1980' FWL Sec. 5, T-14S, R-36E Lea County, New Mexico	660' FNL & 660' FSL Sec. 5, T-14S, R-36E Lea County, New Mexico
Field Pool	Cisco-Canyon Penn	P & A
Spud Date	9/23/83	1/28/63
Completion or P & A Date	Waiting on OCD Approval to Convert to SWD	P & A 6/8/63
Type Completion	--	--
TD	13,530'	13,494'
PBTD	13,315'	P & A - Surface
Perforations	10,576',11,368' (9 holes)	13,394'-13,383' (Isolated) 12,317'-12,323' (Isolated) 11,478'-11,486' (Isolated)
Casing Design	13 3/8 to 380' w/400 sxs cmt. 8 5/8 to 4,600' w/1425 sxs cmt. 5 1/2 to 13,370' w/992 sxs cmt.	13 3/8 to 396' w/400 sxs cmt. 8 5/8 from 1,220 to 4650 w/ 450 sxs cmt. 5 1/2 from 10,300 to 13,494 w/750 sxs cmt.
Tubing	10,525'	P & A None
Top of Cement	10,360' by CBL	N/A

Proposed Disposal Well

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
Roswell, New Mexico 88201

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Harvey E. Yates Company Well Name & # Richardson Fee #2 Lease # Fee

District Roswell Made By Ray F. Nokes Date 6-2-83

Location Unit K, 1980' FSL & 1980' FWL, Sec. 5, T-14S, R-36E, Lea County, NM

Spud Date 9-23-83 Compl. Date Waiting On Completion Orders TD 13,530' PBTD 13,315'

Type Well: Oil ____ Gas ____ Other ____ Field N/A

I P N/A Zone Canyon

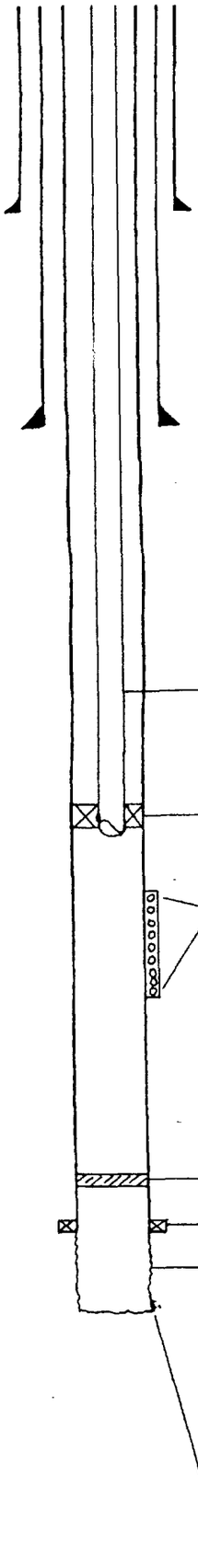
Perfs.: 10,576'-11,368' Total Holes 9 holes

Stimulation Natural Test

Cumul. Oil ____ MCF ____ Water ____

Recent Test N/A Lift Equipment ____

Misc. Elevation: 3963.1' GR



Surface: 13-3/8" , 48 # Gr. MRJ @ 380 Cmt. w/ 400 Sx. TOC surface Hole Size 17-1/2" Max Mud Wt. ____ #/G

Intermediate: 8-5/8" , 28 & 32 # Gr J-55 @ 4600 Cmt w/ 1425 Sx. TOC @ surface , Hole Size 11 ", Max Mud Wt. ____ #/G

Internally plastic coated 2 3/8" N-80 EUE tbg.

Nickle plated 5 1/2" Baker Lokset w/1.81 profile on/off tool @ 10,525'

Canyon perfs @ 10,576; 584; 688; 888; 11,007; 119; 194; 368.

CIBP @ 13,350 w/35' cmt on top (PBTD 13,315')

Pkr shoe @ 13,370'.

Open Hole

Production: 5 1/2 ", 17 #, S-95, N-80 Gr. @ 13,370.5 , Cmt. w/ 992 Sx, TOC @ 10,360 , Hole Size ____ Mx Mud Wt. ____ #/G

TD 13,530

WELL HISTORY

Tubing ____ ", ____ #, ____ Gr, @ ____

Tubing ____ ", ____ #, ____ Gr, @ ____

Packer @ ____

HARVEY E. YATES COMPANY

Well History Summary Sheet

Operator Sinclair Oil & Gas Well Name & # Richardson 1-5 Lease # _____

District Roswell Made By Ray F. Nokes Date 6-3-83

Location M, 660' FN & SL, Sec. 5, T-14S, R-36E, Lea County, New Mexico

Spud Date 1/28/63 Compl. Date 4/9/63 P&A TD 13494 PBTD P & A

Type Well: Oil ____ Gas ____ Other ____ Field ____

I P ____ Zone ____

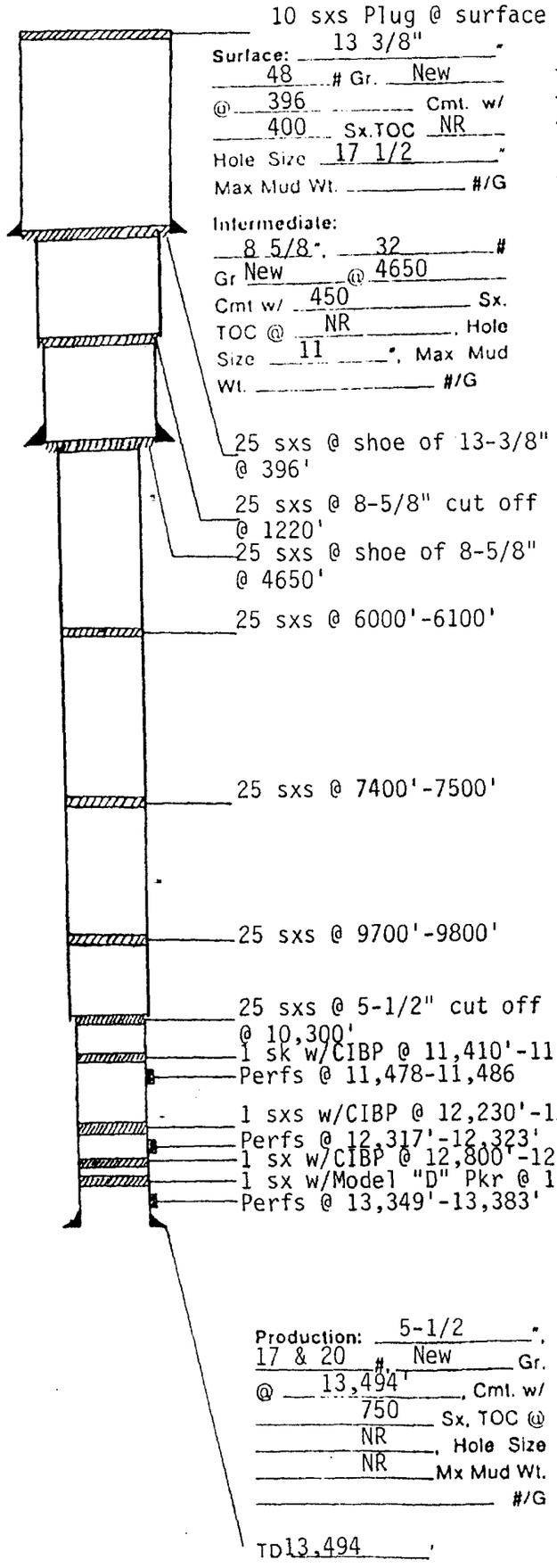
Perfs.: * ____ Total Holes ____

Stimulation ____

Cumul. Oil ____ MCF ____ Water ____

Recent Test ____ Lift Equipment ____

Misc. Elevation: 3970' GL



WELL HISTORY

Note: 1) Cut & pulled 5-1/2" csg from 10300'.
2) Cut & pulled 8-5/8" csg from 1220'.

*Perfs: 13,349'-13,383'
12,317'-12,323'
11,478'-11,486'

Plugs: 13,242'-13,252' (1 sack cmt on top of Model D pkr @ 13,252'.)
12,800'-12,810' (1 sack cmt on top of CIBP @ 12,810'.)
12,230'-12,240' (1 sack cmt on top of CIBP).
11,410'-11,418' (1 sack cmt on top of CIBP @ 11,418').
10,200'-10,300' (25 sxs @ top of 5-1/2" cut off @ 10,300').
9700'-9800' (25 sxs)
7400'-7500' (25 sxs)
6000'-6100' (25 sxs)
4577'-4677' (25 sxs @ shoe of 8-5/8" csg @ 4650')
1200'-1250 (25 sxs @ top of 8-5/8" cut off @ 1220')
358'-378' (25 sxs @ shoe of 13-3/8" csg).
Surface 10 sxs plug w/dry hole marker.

P & A @ 12:30 p.m. 6/8/63.

Tubing None", ____ #, ____ Gr. @ ____

Tubing ____", ____ #, ____ Gr. @ ____

Packer @ ____

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OPERATOR		

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	Address
Sinclair Oil & Gas Company	500 [illegible] Building, Roswell, New Mexico

Lease	Well No.	Unit Letter	Section	Township	Range
Richardson	1-5	K	5	11S	36E

Date Work Performed	Pool	County
[illegible]	[illegible]	Lea

THIS IS A REPORT OF: *(Check appropriate block)*

- ☐ Beginning Drilling Operations
- ☐ Casing Test and Cement Job
- ☒ Other *(Explain)*: Perforations and treatments
- ☒ Plugging
- ☐ Remedial Work

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

5-10-63 Swabbed & tested Miss. perfs 13340-83 26 bbls formation water in 6 hrs after treating w/500 gals mud acid on 5-8-63. Pulled tbg & packer. Spotted 1 sack cement 13252-12852 on top of Model D packer set at 13252. Set CI Bridge Plug at 12810 & spotted 1 sack cement 12810-12600. Jet Perforated Atoka Zone 12317-83 w/12 1/2" holes. Ran 1" tbg to 12334 w/Baker Packer at 12194. Swabbing.

5-11-63 Mud acid washed Atoka Perfs w/500 gals, Max Press 5000, Min Press 4600, inj rate 1.2 BPM, 10 min SIP 2400

5-12-63 Acidized Atoka Perfs w/1500 gals United Acid, Max Press 4600, Min Press 3700, inj rate 1.6 BPM, 10 min SIP 3200.

5-13-63 Gelled acid fracced Atoka Perfs w/4000 gals gelled acid & 3000 lbs 20/40 sand preceded by 500 gals United acid. Max Press 6800, Min Press 6500, Inj rate 4.3 BPM, 15 min SIP 4500.

5-14-63 Pulled tbg & packer. Set CI Plug at 12240 w/1 sack cement 12240-12230. Jet perforated Canyon Zone 12170-83 w/26 1/2" holes. Ran 2" tbg to 11305 w/packer at 11265. Swabbed dwn.

Witnessed by	Position	Company
Fred Strickland and [illegible]	Asst. Foreman	Sinclair Oil & Gas Company

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	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

[illegible]

5-17-63 Mud acid washed Canyon perfs w/500 gals, Max Press 5500, Min Press 5100, Inj rate 2.1 BPM, 10 min SIP 650. Swabbed 108 bbls salty sulphur water in 7 hrs.
5-20-63 Pulled tbg & packer. Moved in Casing pulling machine (Lee Co. Casing Pullers).
5-22-63 Set CI bridge plug at 11128 with 1 sack cement on top of bridge plug to 11400.
5-21-63 Cut 5-1/2" casing at 10300 and pulled 5-1/2" casing from 10300.
5-5-63 With hole full of heavy mud, set cement plugs as follows:
65 sack cement plug 10100-10300 (top of 5-1/2" stub)
65 sack cement plug 9700-9900
65 sack cement plug 7410-7500
65 sack cement plug 6030-6130
65 sack cement plug 1577-1677 (in bottom of 8-5/8" casing cut at 1627)
5-7-63 Shot off 8-5/8" OD Casing at 1219 and pulled 1220' of 8-5/8" casing.
5-8-63 With hole full of heavy mud, set cement plugs as follows:
65 sack cement plug 1210-1350 (in top of 8-5/8" stub)
65 sack cement plug 228-378 (bottom of 13-3/8" casing)
10 sack cement plug in bottom of cellar with regulation dry hole marker.
Completed PLUGGING AND ABANDONMENT at 12:30 PM 6-8-63 - FINAL REPORT - DRY HOLE, PLUGGED AND ABANDONED.

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

OFFICE CCC

15 PM 1:37

WELL RECORD

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	GAS		
PRORATION OFFICE			
OPERATOR			

Sec 5-11S-36E
Lea County, N.M.
C #2-5

AREA 640 ACRES
LOCATE WELL CORRECTLY

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE If State Land submit 6 Copies

Texas-Crude Oil Company-
Sinclair Oil & Gas Company (Company or Operator) Richardson (Lease)

Well No. 1-5, in SW ¼ of SW ¼, of Sec. 5, T. 11S, R. 36E, NMPM.

Wildcat Pool, Lea County.

Well is 660 feet from West line and 660 feet from South line of Section 5. If State Land the Oil and Gas Lease No. is -

Drilling Commenced January 28, 1963 Drilling was Completed April 9, 1963

Name of Drilling Contractor B.L. McFarland

Address 3612 West Wall, Midland, Texas

Elevation above sea level at Top of Tubing Head 3970 The information given is to be kept confidential until ....., 19.....

OIL SANDS OR ZONES

No. 1, from DRY HOLE- PLUGGED AND ABANDONED 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
13-3/8	48#	New	396				Surface Csg
8-5/8	32#	New	4637		1220		Intermediate Csg
5-1/2	17&20#	New	13494		10300	11478-86, 12317-23 13349-13383	Production Csg

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/2	13-3/8	378	400			
11	8-5/8	4650	450			
	5-1/2	13494	750	Halliburton		

RECORD OF PRODUCTION AND STIMULATION

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

Treated perfs 13349-13383 w/1000 gals mud acid, 10000 gals reg acid, 20000 gals gelled acid.

Treated perfs 12317-12323 w/500 gals mud acid, 1500 gals unicol acid, 7000 gals/3600 lbs gelled acid/sand frac.

Treated perfs 11478-11486 w/500 gals mud acid.

Result of Production Stimulation All perforations tested non commercial.

Depth Cleaned Out .....

Orig&3cc: CCC; cc:Hilo, JM,

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from Surface feet to 13,194 feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet.

DRY HOLE - PLUGGED

PRODUCTION

Put to Producing June 8, 1963

OIL WELL: The production during the first 24 hours was 0 barrels of liquid of which ..... % was was oil; ..... % was emulsion; ..... % water; and ..... % was sediment. A.P.I. Gravity.....

GAS WELL: The production during the first 24 hours was ..... M.C.F. plus ..... barrels of liquid Hydrocarbon. Shut in Pressure ..... lbs.

Length of Time Shut in.....

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy	2119	T. Devonian		T. Ojo Alamo	
T. Salt		T. Silurian		T. Kirtland-Fruitland	
B. Salt		T. Montoya		T. Farmington	
T. Yates	3035	T. Simpson		T. Pictured Cliffs	
T. 7 Rivers	3216	T. McKee		T. Menefee	
T. Queen	3861	T. Ellenburger		T. Point Lookout	
T. Grayburg		T. Gr. Wash		T. Mancos	
T. San Andres	4524	T. Granite		T. Dakota	
T. Glorieta	6096	T.		T. Morrison	
T. Drinkard		T.		T. Penn	
T. Tubb Fullerton-7601	7469	T.		T.	
T. Abo	8233	T.		T.	
T. Penn XXX Wolfcamp	9768	T.		T.	
T. Miss. XXX Cisco	10523	T.		T.	
T. Chester	13336	T.		T.	

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

July 1, 1963
(Date)

Company or Operator Sinclair Oil & Gas Company Address 520 E Broadway, Hobbs, N.M.

Name ..... Position or Title Dist. Supt.

SECTION VII

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

DWL—451-B

DOWELL DIVISION OF DOW CHEMICAL U.S.A.

An Operating Unit of The Dow Chemical Company

LABORATORY LOCATION

API WATER ANALYSIS REPORT FORM

DATE

LAB NO.

Company		Sample No.	Date Sampled
HEYCO			6-7-83
Field	**Legal Description**	**County or Parish**	**State**
		LEA	N.M.
Lease or Unit	**Well**	**Depth**	**Formation**	**Water, B/D**
	RICHARDSON #2			
Type of Water (Produced, Supply, etc.)	**Sampling Point**	**Sampled By**

DISSOLVED SOLIDS

CATIONS	*mg/L*	*me/L*
Sodium, Na (calc.)	29,000	
Calcium, Ca	2,400	
Magnesium, Mg	-----	
Barium, Ba		

ANIONS		
Chloride, Cl	48,000	
Sulfate, SO_4		
Carbonate, CO_3	0	
Bicarbonate, HCO_3	830	

Total Dissolved Solids (calc.) _____

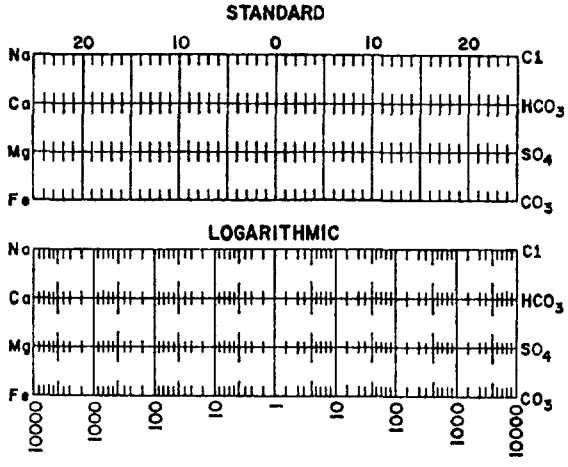
Iron, Fe (total) _____

Sulfide, as H_2S _____

OTHER PROPERTIES

pH	7
Specific Gravity, 60/60 F.	1.05
Resistivity (ohm-meters) ____ F.	.125

WATER PATTERNS — *me/L*



REMARKS & RECOMMENDATIONS:

ANALYSIS BASED ON API RECOMMENDED PROCEDURE

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

SEP 10 1982

LABORATORY WATER ANALYSIS

No. W82-978

To Harvey E. Yates

Box 1933

Roswell, New Mexico

Date 9-8-82

Submitted by Date Rec. 9-7-82

Well No. McDonald #2 Depth Formation

County Field Source

Resistivity	0.167 @ 74°F.	
Specific Gravity	1.031	
pH	7.0	
Calcium (Ca)	2,100	*MPL
Magnesium (Mg)	Nil	
Chlorides (Cl)	23,500	
Sulfates (SO_4)	2,850	
Bicarbonates (HCO_3)	855	
Soluble Iron (Fe)	Nil	

Remarks Nitrate determination was not conclusive, due to the high coloration of the water.

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

cc:

By W. L. Brewer
CHEMIST

SECTION VIII, cont.

(Fresh Water Aquifers and Area Water Wells)

On April 20, 1983 Mr. Paul Kautz, a geologist of the New Mexico District I office in Hobbs, was contacted by Ray F. Nokes of Harvey E. Yates Company, in regards to fresh water aquifers in the McDonald Unit Area. Mr. Kautz had resently studied the area and concluded that the Ogallaha is prevalent in the McDonald area starting from surface, but usually is located at about 80' from surface and continued to depths of 300' in some places. The specific area of interest was in Townships 13 and 14 South of Range 36 East, Lea County, New Mexico. Mr. Kautz indicated that the thickness of the Ogallaha in this specific area was not specifically defined, but if surface and intermediate casing were set through the Ogallaha and protected by cement to surface that the fresh water aquifer would be protected. See Section VI for casing and cementing reports.

Mr. Frank Bradley with the New Mexico State Engineers Office in Roswell, New Mexico, was contacted on the same day as Mr. Kautz. He checked local records to determine if any fresh water wells were present in the immediate area of the McDonald Unit area. Please find attached a list of fresh water wells supplied by Mr. Bradley for the McDonald Area.

Prepared by:
Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Co.
Roswell, New Mexico 88201

SECTION IX

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

COMPLETION SCHEDULE

WELL: Richardson Fee #2 DATE: 6-2-83

LOCATION: Unit K, 1980' FSL & 1980' FWL, Sec. 5, T-14S, R-36E, Lea County, New Mexico

FIELD: Cisco-Canyon Penn ELEVATION: 3968.1 GR 3978.1 KB TD: 13,350 PBTD: 13,315

CASING RECORD:	SIZE	WT. & GRADE	DEPTH	CEMENT	CEMENT TOP
	13 3/8	48# MRJ	380	400 sxs	Surface
	8 5/8	28 & 32# J-55	4600	1425 sxs	Surface
	5 1/2	17# S-95 & N-80	13370	992 sxs	Est. @ 10,360' by CBL
	2 3/8	4.7# N-80 @ 10,495 w/pkr			

FORMATION TOPS:					
Abo	8235 (-4257)	Cisco	10,615 (-6637)	Morrow Lime	13020 (-9042)
Wolfcamp	9812 (-5834)	Canyon	11,058 (-7080)	Austin Miss	13373 (-9395)
Bough	10166 (-6188)	Strawn	11,960 (-7982)		
Bursom	10368 (-6390)	Atoka	12,301 (-8323)		

PRESENT PERFORATIONS: 10,576, 10,584; 10,688; 10,888; 11,007; 11,119; 11,194; 11,368.

PRESENT PRODUCTION: SI WOCO

RECOMMENDED PROCEDURE:

1) MI & RU PU.
2) ND tree, NU BOP. POH w/tbg and pkr.
3) Perforate w/4" casing gun 4 shots @ 11,194'.
4) POH w/guns. GIH w/RTTS & RBP to 11,230'. Set RBP & pull tubing & RTTS to 11,150 & set. Note: Perforation located 11,119 above RTTS.
5) RU Western to acidize w/3000 gals inhibited 15% HCL @ 3-4 BPM to break down loss circulation zone experienced during original drilling of well.
6) Swab to recover acid water and establish fluid level.
7) POH w/tbg RTTS & RBP.
8) GIH w/nickle plated 5-1/2" Baker LokSet, 1.81 profile on/off tool & 2-3/8" internally plastic coated tbg and set @ 11,525'.
9) Displace backside w/pkr fluid contain oxygen scavenger & bactericide.
10) ND BOP, NU Tree.

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

SECTION X (CONT'D.)

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease: State ☐ Fee ☒
5. 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.)

OIL WELL ☒ GAS WELL ☐ OTHER-

7. Unit Agreement Name

Name of Operator
Harvey E. Yates Company

8. Farm or Lease Name
Richardson Fee

Address of Operator
P. O. Box 1933, Roswell, New Mexico 88201

9. Well No.
2

Location of Well
UNIT LETTER K, 1980 FEET FROM THE South LINE AND

10. Field and Pool, or Wildcat
Und. Austin Miss.

THE West LINE, SECTION 5 TOWNSHIP 14S RANGE 36E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
3963.1' GR

12. County
Lea

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OIL CONSERVATION DIVISION
SANTA FE

b.

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☒	ALTERING CASING ☐
TEMPORARILY ABANDON ☐		COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		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.

11/15/82 MI & RU CU.
11/17/82 Tagged DV tool @ 12,322'. Drld DV tool. Tstd DV tool & csg to 1500 psi in 30".
11/18/82 LD Btm hole assembly, changed out BOP. Ran GR-CBL from 13352' to 10220'. Est TOC @ 10586'.
11/19/82 Pmpd 3000 gal 20% NE-FE acid to spot @ 13513'. Press csg annulus to 1000 psi, press up tbg and form brk @ 4500 psi treated @ 1.6 BPM @ 6000 psi. Gas hits surface w/est 15' gas flare. Burns for 15"-20" & dies.
12/21/82 Tstd pmp & lines ot 10,000#. Pmpd 12 Bbls WF-40 pad, 119 Bbls 20% acid, 357 Bbls WF-10 & 87 Bbls fresh water flush.
12/22/82 Flwd to pit overnight. Well died @ 8:30 p.m.
12/30/82 Swabing.
1/14/83 FTP-0, Flare died during night, SICP-0, IFL-10600'. Shut well in.
5/23/83 MI & RU Monument.
5/24/83 Blow down tbg press & ld w/fresh water. Set CIBP @ 13,350'. Dump 35' cmt on top. New PBTD-13315'.

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

SIGNED A. J. Means TITLE V. P. of Operations DATE May 25, 1983

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

SECTION XI

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

1942-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

RECEIVED 1983

LABORATORY WATER ANALYSIS

No. W83-657

To Heyco

P. O. Box 1933

Roswell, New Mexico 88201

ATT: Ray Nokes

Date 6/6/83

Submitted by Ray Nokes Date Rec. 6/6/83

Well No. S.A. Richardson (LO5165 (water well) Depth Formation

County Chaves Field Source

Resistivity	2.93 @ 70°F			
Specific Gravity	1.002			
pH	7.4			
Calcium (Ca)	200			*MPL
Magnesium (Mg)	Nil			
Chlorides (Cl)	1500			
Sulfates (SO_4)	200			
Bicarbonates (HCO_3)	315			
Soluble Iron (Fe)	Nil			

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Danny Morales

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.

AREA WATER WELLS

REFERENCE FILE	PRIORITY	STATUS	USE	WELL LOCATION	QUARTER
Roark, Buck	L-6228	NA	Dom	Sec. 33, T-13S, R-36E	330
Gray, Clifford etal	L-00494	LIC	IRR	Sec. 33, T-13S, R-36E	1110
Stanton, Donald	L-00494AE	PMT	IRR	Sec. 33, T-13S, R-36E	131
Stanton, Donald	L-07237	PMT	DOM	Sec. 33, T-13S, R-36E	1410
Richardson, Fred	L-08096	PMT	DOM	Sec. 33, T-13S, R-36E	300
Robinson, N. C.	L-01668	PMT	DOM	Sec. 33, T-13S, R-36E	311
Robinson, N. C.	L-00558	LIC	IRR	Sec. 33, T-13S, R-36E	3110
Richardson, Fred	L-00462	LIC	IRR	Sec. 33, T-13S, R-36E	321
Roark, Buck	L-06228	PMT	DOM	Sec. 33, T-13S, R-36E	330
Hilburn, R. B.	L-0058A	LIC	MTU	Sec. 33, T-13S, R-36E	3331
Robinson, N. C.	L-03422	PMT	DOM	Sec. 33, T-13S, R-36E	444
Hemann, Leon O.	L-00186	LIC	IRR	Sec. 34, T-13S, R-36E	1111
Wallis, T. V.	L-01483	PMT	DOM	Sec. 34, T-13S, R-36E	113
Hemann, Leon	L-07036	PMT	DOM	Sec. 34, T-13S, R-36E	1130
Hemann, Leon O.	L-00187	LIC	IRR	Sec. 34, T-13S, R-36E	2111
McClish M, et al	L-00223	LIC	IRR	Sec. 34, T-13S, R-36E	3111
Willingham R. E.	L-00292	LIC	IRR	Sec. 34, T-13S, R-36E	332
Willingham R. E.	L-01417	PMT	DOM	Sec. 34, T-13S, R-36E	332
Willingham R. E.	L-00293	LIC	IRR	Sec. 34, T-13S, R-36E	414
Shettle, Geo O	L-02759	PMT	DOM	Sec. 3, T-14S, R-36E	433
Beeman, Lewis	L-04460	PMT	DOM	Sec. 4, T-14S, R-36E	110
Williams, George J	L-03816	PMT	DOM	Sec. 4, T-14S, R-36E	111
Clevenger, J. H.	L-00256A	LIC	IRR	Sec. 4, T-14S, R-36E	111
Lambert, Allie L.	L-00256	LIC	IRR	Sec. 4, T-14S, R-36E	111
Cruz, Felix A	L-07134	PMT	DOM	Sec. 4, T-14S, R-36E	1110
Lambert Allie L.	L-002565	PMT	IRR	Sec. 4, T-14S, R-36E	1313
Foster, James A. Jr.	L-00082	LIC	IRR	Sec. 4, T-14S, R-36E	2111
Foster, James A. Jr.	L-00600	LIC	IRR	Sec. 4, T-14S, R-36E	2311
Lambert, Allie L.	L-00773	LIC	IRR	Sec. 4, T-14S, R-36E	3142
Richardson, S.A.	L-03850	PMT	DOM	Sec. 5, T-14S, R-36E	110
Richardson, Celia	L-02332	PMR	DOM	Sec. 5, T-14S, R-36E	222
McFarlane Drlg Co.	L-06246	PMT	DWD	Sec. 5, T-14S, R-36E	330
Richardson, S. A.	L-05165	PMT	DOM	Sec. 5, T-14S, R-36E	330
McFarland E. L. Inc.	L-05036	PMT	DWD	Sec. 5, T-14S, R-36E	330
Gilchrist, Howard	L-00680	LIC	IRR	Sec. 5, T-14S, R-36E	4133
Richardson, James	L-07041	PMT	DOM	Sec. 5, T-14S, R-36E	4440
Cayton, Karl	L-00056	LIC	IRR	Sec. 9, T-14S, R-36E	1111
Amerada Petro Corp	L-05378	PMT	DWD	Sec. 9, T-14S, R-36E	120
Cayton, Jack	L-02593	PMT	DOM	Sec. 9, T-14S, R-36E	121
Woodard, D. M.	L-05241	PMT	DOM	Sec. 9, T-14S, R-36E	200
Pierce, V. G.	L-01243	PMT	DOM	Sec. 9, T-14S, R-36E	200
Woodward, D. M.	L-01286	PMT	DOM	Sec. 9, T-14S, R-36E	211
Jones, Jack & Pat	L-00088	LIC	IRR	Sec. 9, T-14S, R-36E	211
Jones, Elvis	L-00507	LIC	IRR	Sec. 9, T-14S, R-36E	221
Cayton, Karl	L-03349	PMT	DOM	Sec. 10, T-14S, R-36E	110
Cayton, Karl	L-00233S2	LIC	IRR	Sec. 10, T-14S, R-36E	1111
Cayton, karl	L-00233	LIC	IRR	Sec. 10, T-14S, R-36E	1113
Cayton, Jack D.	L-00557	PMT	NOT	Sec. 10, T-14S, R-36E	210
Patman, L. D.	L-03758	PMT	DOM	Sec. 10, T-14S, R-36E	344
Patman, L. D.	L-00019	LIC	IRR	Sec. 10, T-14S, R-36E	4111
Patman, L. D.	L-00233E	LIC	IRR	Sec. 10, T-14S, R-36E	4111
King, Carl B. Drlg Co.	L-03634	PMT	DWD	Sec. 3, T-14S, R-36E	244
Molino Del Rey Inc.	L-00772	LIC	IRR	Sec. 3, T-14S, R-36E	3111
Molino Del Rey Inc.	L-00771	LIC	IRR	Sec. 3, T-14S, R-36E	3212
Molino Del Rey Inc.	L-00795	LIC	IRR	Sec. 3, T-14S, R-36E	3311
Molino Del Rey Inc.	L-00795	LIC	IRR	Sec. 3, T-14S, R-36E	400
Cruz, Tony	L-8400	NA	DOM	Sec. 4, T-14S, R-36E	111
Snyder, Henry	L-8225	NA	DOM	Sec. 4, T-14S, R-36E	300
Golleler, Jerry	L-8606	NA	DOM	Sec. 10, T-14S, R-36E	433

NOTE: Quarter Section Code:

1 - Northwest
2 - Northeast
3 - Southwest
4 - Southeast
0 - Center

SECTION XIII

Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

I, ROBERT L. SUMMERS

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period

of ONE weeks.

Beginning with the issue dated JUNE 12, 1983

and ending with the issue dated JUNE 12, 1983

Robert L. Summers
Publisher.

Sworn and subscribed to before me this 12TH day of JUNE, 1983

Jane Paulowsky
Notary Public.

My Commission expires 3-24, 1987
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

OFFICIAL SEAL
Signature Jane Paulowsky
JANE PAULOWSKY
NOTARY PUBLIC - NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires 3-24-87

LEGAL NOTICE
June 12, 1983

Harvey E. Yates Company
P.O. Box 1933
Suite 300, Security National Bank Building
Roswell, New Mexico 88201
Phone No. 1-505-623-6601
Contact Party: Ray F. Nokes
Reservoir Engineer
Harvey E. Yates Company

proposes to dispose produced water into the Richardson Fee #2 The Richardson Fee #2 is located in Unit K, 1980' FSL & 1980' FWL of Section 5, Township 14 South of Range 36 East, Lea County, New Mexico.

Produced water will be injected at an estimated rate of 300-400 barrels per day at not higher than 2273 psig into the Cisco Canyon formation at a depth between 10,976' to 11,368'.

Interested parties must file objections or request for a hearing with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.