HEYCO

PETROLEUM PRODUCERS



P. O. BOX 1933

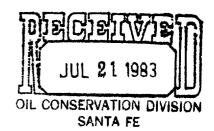
SUITE 300, SECURITY NATIONAL BANK BUILDING

505/623-6601

À.

ROSWELL, NEW MEXICO 88201

July 19, 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 J. A. Foster #1

to a Salt Water Disposal Well

Dear Mr. Ramey:

Please find attached two copies of an application for a request of an administrative approval to convert the J. A. Foster #1 to a Salt Water Disposal Well located NE4/SE4 of Section 4, T-14S, R-36E, 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 at your earliest convenience. By copy of this application, the surface owner was notified by certified mail.

Sincerely yours,

Ray F. Nokes

Reservoir Engineer

RFN:mlb

Attachments

cc: Oil Conservation Division

District I Hobbs, NM POST OFFICE BOX 2048
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

	SANTA FE. NEW MEX	1012 (121/0/12/12
APPLICA	TION FOR AUTHORIZATION TO INJECT	11 ST
I.	Purpose: Secondary Recovery Pressur Application qualifies for administrative of	pproval? XX yes 4 no
II.	Operator: Harvey E. Yates Company	OIL CONSERVATION DIVISION SANTA FE
	Address: P. O. Box 1933, Roswell, New Me	xico 88201
	Contact party: Ray F. Nokes	Phone: 1-505-623-6601
III.	Well data: Complete the data required on the proposed for injection. Addition	reverse side of this form for each well al sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? If yes, give the Division order number author	yes X no izing the project
٧.	Attach a map that identifies all wells and le injection well with a one-half mile radius ci well. This circle identifies the well's area	rcle drawn around each proposed injection
vi. None	Attach a tabulation of data on all wells of p penetrate the proposed injection zone. Such well's type, construction, date drilled, loca a schematic of any plugged well illustrating	data shall include a description of each tion, depth, record of completion, and
VII.	Attach data on the proposed operation, includ	ing:
	the receiving formation if other th 5. If injection is for disposal purposes at or within one mile of the propos	n pressure; f injection fluid and compatibility with an reinjected produced water; and into a zone not productive of oil or gas ed well, attach a chemical analysis of may be measured or inferred from existing
1111.	Attach appropriate geological data on the inj detail, geological name, thickness, and depth bottom of all underground sources of drinking total dissolved solids concentrations of 10,0 injection zone as well as any such source knowingection interval.	. Give the geologic name, and depth to water (aquifers containing waters with 00 mg/l or less) overlying the proposed
IX.	Describe the proposed stimulation program, if	any.
х.	Attach appropriate logging and test data on twith the Division they need not be resubmitte	
XI.	Attach a chemical analysis of fresh water from available and producing) within one mile of a location of wells and dates samples were taken	ny injection or disposal well showing
XII.	Applicants for disposal wells must make an af examined available geologic and engineering dor any other hydrologic connection between th source of drinking water.	ata and find no evidence of open faults
III.	Applicants must complete the "Proof of Notice	" section on the reverse side of this form.
XIV.	Certification	
	I hereby certify that the information submitt to the best of my knowledge and belief.	ed with this application is true and correc
	Name: Ray F. Nokes	Title Reservoir Engineer
	Signature: Kay 1. offer	Date: 7/19/83

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.

- 6. 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.

Addendum to C-108

III. B. 1) Cisco

2) Proposed Perfs: 10,640' - 10,646

- 3) The well was originally drilled for a Pennsylvanian test. See attached completion schedule.
- 4) The Griffin #1 located in Section 4, T-14S, R-36E is producing from the Bough "A" (10,203'-10,210'). The E. L. Richardson #1 located in Section 33, T-13S, R-36E, is producing from the Bough "A" (10,300'-10,309'). The McDonald Unit #2 located in Section 3, T-14S, R-36E is producing from the devonian (14,556'-14,568').
- VII. 1) Average 500 BPD; Max 1500 BPD.

2) Closed System.

- 3) Average Injection Pressure: 1500 psig, Max Injection pressure 2129 psig.
- 4) See attached water analysis of formation water from the McDonald Unit #2.
- 5) See attached copy of report from DST #3 for test interval from the McDonald Unit #3-Y 10,810' to 10,950' reporting area formation water to be sulphur water.
- VIII. 1) Lithologic: Lime & Shale
 - 2) Geologic Name: Cisco
 - 3) Thickness: 155'
 - 4) Depth: 10,544' to TD
 - IX. Perforate w/4 JSPF from 10,640'-10,646' and acid to open lost circulation zone during drilling. See attached completion schedule.
 - X. Logs are in the New Mexico Oil Conservation Division District I office in Hobbs, New Mexico.
 - XI. See attached two analysis of fresh water from offsetting fresh water wells in the area (The S. E. Foster #1 in Section 4 of T-14S, R-36E and the McClish well in Section 34, of T-13S, R-36E of Lea County, New Mexico). Complete list of water wells in area are attached.
 - 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.

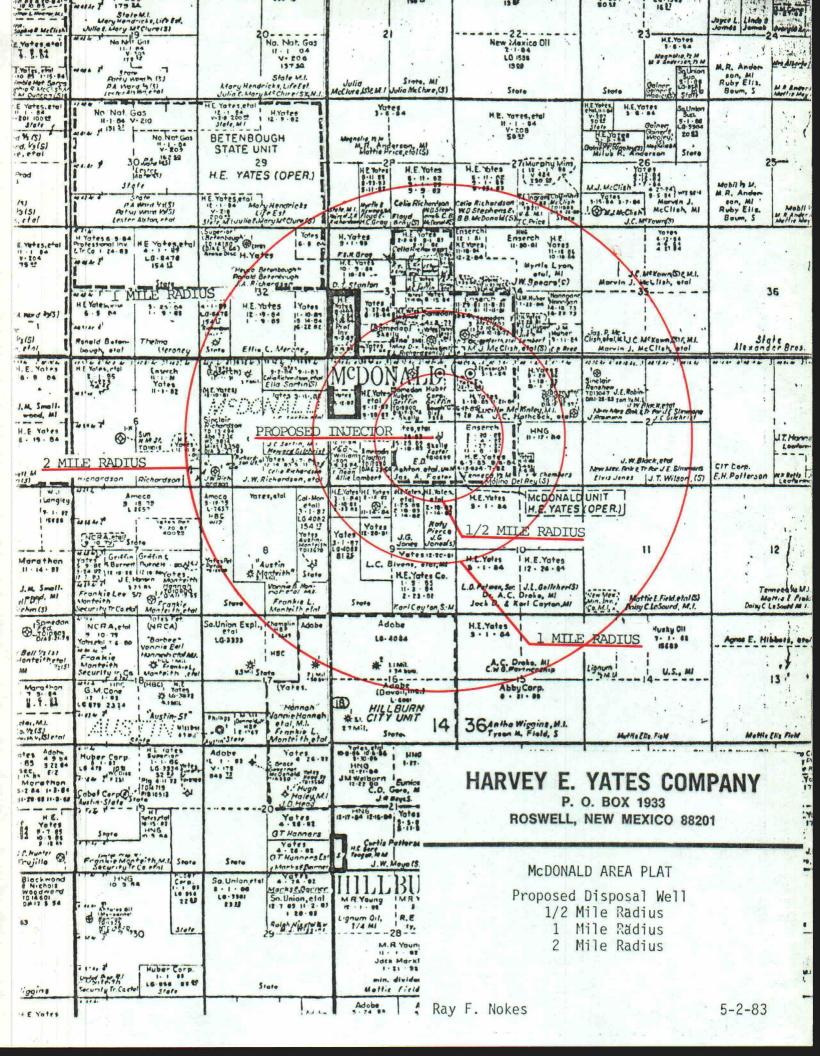
HARVEY E. YATES CON Y Well History Summary Sneet

Operator Harvey E. Yates Company Well Name 8	3 # J.A. Foster # 1 Lease # Fee
nistrict Roswell Made By Ray	F. Nokes Date 7-19-83
Location I, 660' FEL & 1980' FSL Section 4	, T-14S, R-36E, Lea Co., New Mexico
Spud Date $\frac{5-23-72}{2000}$ Compl. Date $\frac{6-20-7}{2000}$	2 P&A TDPBTD
Type Well: Oil Gas Other P&A	Field
	Zone
	Total Holes
Stimulation	Water
Misc.	Lift Equipment
Surface: 13 3/8" " 61 # Gr	PROPOSED SKETCH FOR DISPOSAL WELL ce
2 3/8" 4.7# N-80 Internally Plastic Contubing	ated
5 1/2" Nickle Plated	1.8 <u>1 ID</u>
Production: #,	or. v/ @ ze /t. Tubing : # Gr @

SECTION V (Maps)

Prepared by: Ray F. Nokes Reservoir Engineer Harvey E. Yates Company Roswell, NM 88201

				T 13 S-R 36 E		
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36	31	Yorks OF Corporter OF 1- Bertrenbeugh	Move, E Yares	Samedon Lot of the to Pose	10 11,800	3
12	2 MILE RADIUS	PROPOSED I	Someon So	Zaren i-Danglaie 10 Ty, 11 &	Moran	1
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	2544? 0	Fill by Longon OTD 14, m	Adobe 1-5: 16			
darkwood	Yntes Pet Cap Intellibration Cir.	Grace \$ 20 1-Gov's McDonula 10 550	21	HARVEY ROSWE	E. YATES CO P. O. BOX 1933 LL, NEW MEXICO 8	MPANY 38201
25	22186 3 0 Antarey (Manuscrot) 1-Hunrah (10 13620	29			NALD AREA PLAT" ed Disposal Well 2 Mile Radius Mile Radius Mile Radius	
36	31	32		Ray F. Nokes		5-2-83



SECTION VI Well Histories For Area Of Review

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

SECTION VI

(Area Well Histories)

Well Name Well Number

Legal Location

Field Pool Spud Date

Completion or Recompletion Date

Type Completion
Completion Interval

TD PBTD

Casing Design

Tubing

Top of Cement

J. A. Foster

#1

I, 660' FEL & 1980' FSL Sec. 4, T-14S, R-36E Lea County, New Mexico

P & A 5-23-72 N/A N/A

N/A 10,699'

Surface

13-3/8" to 424' w/450 sxs 8-5/8" to 4540' w/2150 sxs

N/A N/A

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

NO. OF COPILS MECLIVED	•	•	•	Form C-1	กร
DISTRIBUTION				Supersed	
NTAFE	NEW MEY	ICO OIL CONSERVAT	וטא כטאאוגגוטא	C-102 and Effective	
LE	HER MEX		·	THECHAE	1-1-03
5.G.S.				Sa. Indicate	Type of Lease
ND OFFICE			<i>:</i>	State	Fee X
ERATOR	•			5. State Oil	Gas Lease No.
SUNDRY	Y NOTICES AND F	REPORTS ON WELL	S		
(UD NOT USE THIS FORE FOR PROP USE "APPLICATION	POSALS TO DRILL OR TO I	DEEPEN ON PLUG BACK TO A	DIFFERENT RESERVOIR.		
		בוווו	Cisi(Visi	7. Unit Agree	ment Nanie
MELL K MELL	OTHER-	السروم في	(a)baltatotal		
anie of Operator			111 61 1007	8. Farm or Le	ase Name
Skelly Oil Compa	ın y		JUL 21 1 983		nater
ddress of Operator			· · · · · · · · · · · · · · · · · · ·	9, Well No.	
P. O. Box 1351	Midland, Te	KAS 79701	VSERVATION DIVISI	1	
ocation of Well	•		SANTA FE		Pool, or Wildcat
UNIT LETTER	C FEET FROM T	HE EAST LINE	AND 1980 FEE	Undesign	ated McDonald
THE South LINE, SECTION	n4	VNSHIP 14 S F	ANGE 36 F	_ NMPM.	

	15. Elevatio	n (Show whether DF, RT	GR, etc.)	12. County	
		3944 GR		Lea	VIIIIIII
Check A	ppropriate Box T	o Indicate Nature	of Notice, Report	or Other Data	
NOTICE OF IN		l	*	QUENT REPORT (F:
FORM REMEDIAL WORK	PLUG A	ND ABANDON REMED	IAL WORK	AL	TERING CASING
POHARILY APANOOL		соммі	NCE BRILLING OPHS.	PL	UG AND ABANDONMENT
L OF ALTER CASING	CHANGE	PLANS CASING	TEST AND CEMENT JOB		
		07+	ER Test and plu	g and abandon	X
OTHER	· · · · · · · · · · · · · · · · · · ·			•	
Describe Proposed or Completed Ope	rations (Clauses state	all partinant datails and	him partitions dates in	cluding estimated data	of starting and property
mork) SEE RULE 1103.			gare yearman among an		of tracting any proposed
45 9	011 5-1 - 4- 10	2001 11	Y 16 1072		•
1) Drilled 7-7/3				•	•
		320' (Bough "A")		72	
		5081 at 3:35 p.		14.	
		508 (Cisco Dolo	mile).		
	8" hole to TD	Sidewall Neutro	on los from eur	face to The De	.a1
		4540° to TD;			4 1
		599 (Cisco Reed		to ID.	
7) Ran DST #3:	10,010 - 10,0	(CIBCO NEE	· / •:		
As no commer	cially product	ive formations	ware encounter	ed well west	rdered
and the second s		was plugged as		ou, nerr nue e	20000
Passoca and	and and	was broger as			
1) With drill p	ipe open-ended	i. spotted Class	"H" cement pl	ugs as follows	:
-, P		,			
10,544 -	10,4421	30 sacks	(Top of	Cisco)	
9.986 -	9,8841	30 sacks	(Hueco)	•	
8,157 -	8,055'	30 sacks	(Top of		
7,475 -	9,884' 8,055' 7,373'	30 sacks	(trubb)		
				(Continue	d on Page 2)
hereby certify that the information of	dove is true and comp	lete to the best of my kno	owledge and belief.		
(Signed) J. E	Avent	Ni andi-	•		
(Braner) of the	•	District	rative Coordin	ator barr 1	une 29. 1972
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MATERIAL OF ALL DOCKET IN WAAR	VV	}			

J. A. Foster Well No. 1 Page 2

6,080 - 5,978*	30 sacks	(Glorieta)
4,561 - 4,424	40 sacks	$(8-5/8^{\rm H} \text{ casing shoe})$
34° - Surface	10 sacks	

All intervals not cemented were filled with 100 mud.

2) Set dry hole marker.

Well plugged and abandoned 12:00 midnight June 22, 1972.

•						•	
No. OF COPIES RECEIVE	ED .	1				For	n C-105
DISTRIBUTION							rised 1-1-65
SANTA FE						5a. Indi	cate Type of Lease
FILE	- - 		MEXICO OIL CON			Stat	e Fee X
U.S.G.S.		WELL COMPL	ETION OR REC	OMPLETION	REPURI AND	5. State	Oil & Gas Lease No.
LAND OFFICE						!	
OPERATOR						7777	
		J					
Id. TYPE OF WELL						7. Unit	Agreement Name
	01	L GAS					-
b. TYPE OF COMPLE		ELL GAS	L DRY X	Tills	1	Farm	or Lease Name
NEW X WOR	RK DEE	PEN PAC	G DIFF.	الستراء	1015 615 6 10	15 A.	Foster
2. Name of Operator	DEE!	PENL_1 BAC	K RESVR.		tata white was to	. Weil	No.
Skelly Oil Co	mpany				iul 21 198.	3	1
3. Address of Operator						0. Fie	ld and Pool, or Wildcat
P. O. Box 135	1, Midland	d, Texas 79	701	OIL CON	ISERVATION (DIVISIONICDON	ald Penn
1. Location of Well					SANTA FE	1111	
INIT LETTER	LOCATED	660	East East	sts AND	1980		
			THOM THE	VIIIII	innin	12. Cou	nty Hilli
South LINE OF	4 ·	TWP. 145	GE. 36E		//////////////////////////////////////	Lea	
15. Date Spudded	16. Date T.D.	Reached 17, Dat	e Compl. (Ready to	Prod.) 18. Ele	evations (DF, RK)	B, RT, GR, etc.)	19. Elev. Cashinghead
5-23-72	6-20-7	2 6-	-20-72	1	3944' G.	R. '	
20. Total Depth		lug Back T.D.	22. If Multip	le Compl., How	23. Intervals	, Rotary Tools	Cable Tools
10,699	1	Surface	Many		Drilled By	(0-10699	
24. Producing Interval(s), of this compl	etion - Top, Botto	m, Name				25. Was Directional Survey Made
Described a							
Dry hole	·						No
:6. Type Electric and C		dormall Novem	en Duni Ini	lucados Es			7. Was Well Cored
Gamma Ray Cal	Ther a sic	iewall wenti	con, Dual Inc	uction ro	cusea lov.		Log No
						and ractor	206 110
18.			SING RECORD (Rep	-	et in well)		
CASING SIZE	WEIGHT LE	B./FT. DEPT	H SET . HO	LESIZE	et in well) CEMENTI	NG RECORD	AMOUNT PULLED
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CASING SIZE		9./FT. DEPT	н set	LE SIZE	et in well) CEMENTI	NG RECORD	AMOUNT PULLED
CASING SIZE	61.	9./FT. DEPT	H SET . HO	LE SIZE	cementi 450 sack	NG RECORD	AMOUNT PULLED None
CASING SIZE 13-3/8" 8-5/8"	61.	3./FT. DEPT 424 4540	H SET . HO	LE SIZE	ce in well) CEMENTI 450 sack 2150 sack	NG RECORD CS	AMOUNT PULLED None None
CASING SIZE 13-3/8" 8-5/8"	61,	1./FT. DEPT 424 4540	тн SET НО 4 17) 11	7-1/2"	cementi 450 sack	NG RECORD CS CS TUBING F	AMOUNT PULLED None None
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CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation hecord (None	TOP	LINER RECORD BOTTOM nd number)	PROD Prod'n. For	SCREEN 32. AG DEPTH IN None	CEMENTH 450 SACH 2150 SACH 30. SIZE CID, SHOT, FRACH STERVAL	TUBING F DEPTH SET AMOUNT AND	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED
CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation hecord (None 3. Date First Production Dry Hole	TOP (Interval, size a	LINER RECORD BOTTOM and number)	PROC	SCREEN 32. AG DEPTH IN NONE DUCTION Ding — Size and to	CEMENTI 450 sack 2150 sack 30. SIZE CID, SHOT, FRAC	TUBING F DEPTH SET AMOUNT AND Well S P &	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED tatus (Prod. or Shut-in)
CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation hecord (None 3. Date First Production Dry Hole	TOP (Interval, size a	LINER RECORD BOTTOM and number) Choke Size	PROCowing, gas lift, pump	SCREEN 32. AG DEPTH IN NONE DUCTION Ding — Size and to	CEMENTH 450 sach 2150 sach 30. SIZE CID, SHOT, FRACH ITERVAL ype pump) Gas - MCF	TUBING F DEPTH SET AMOUNT AND Well S P &	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED tatus (Prod. or Shut-in)
CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation frecord (None 3. Sate First Production Dry Hole vate of Test	TOP Top Top Hows Tested	LINER RECORD BOTTOM and number) Choke Size	PROCowing, gas lift, pump	SCREEN 32. AG DEPTH IN None OUCTION Ding — Size and to	CEMENTH 450 sach 2150 sach 30. SIZE CID, SHOT, FRACH ITERVAL ype pump) Gas - MCF	TUBING F DEPTH SET TURE, CEMENT AMOUNT AND Well S P &	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED Return (Prod. or Shut-in) A Gas — Oll Ratio
CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation frecord (None 3. Sate First Production Dry Hole vate of Test	TOP TOP (Interval, size a Procedure Casing Pressure)	LINER RECORD BOTTOM and number) Choke Size Calculated 2 How Rate	PROCowing, gas lift, pump	SCREEN 32. AG DEPTH IN None OUCTION Ding — Size and to	CEMENTH 450 sach 2150 sach 30. SIZE CID, SHOT, FRACH ITERVAL ype pump) Gas - MCF	TUBING F DEPTH SET TURE, CEMENT AMOUNT AND Well S P &	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED Latus (Prod. or Shut-in) A Gas—Oil Ratio Oil Gravity — API (Corr.)
CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation hecord (None 3. Pate First Production Dry Hole Pate of Test Tow Tubing Press.	TOP TOP (Interval, size a Procedure Casing Pressure)	LINER RECORD BOTTOM and number) Choke Size Calculated 2 How Rate	PROCowing, gas lift, pump	SCREEN 32. AG DEPTH IN None OUCTION Ding — Size and to	CEMENTH 450 sach 2150 sach 30. SIZE CID, SHOT, FRACH ITERVAL ype pump) Gas - MCF	TUBING F DEPTH SET TURE, CEMENT AMOUNT AND Well S P & Water — Bbl.	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED Latus (Prod. or Shut-in) A Gas—Oil Ratio Oil Gravity — API (Corr.)
CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation hecord (None 3. Jate First Production Dry Hole rate of Test low Tubing Press. 4. Disposition of Gas (5. List of Attachments	TOP TOP (Interval, size a Procedure of the Procedure of	LINER RECORD BOTTOM duction Method (Fl. Choke Size We Calculated 2 How Rate Juel, vented, etc.)	PROCowing, gas lift, pump Prod'n. For Test Period 24- Oil - Bbl.	SCREEN 32. AG DEPTH IN NONE DUCTION Ding — Size and to Gas — MC	CEMENTH 450 sach 2150 sach 30. SIZE CID, SHOT, FRACE STERVAL Cype pump) Gas - MCF Water	TUBING F DEPTH SET TURE, CEMENT AMOUNT AND Well S P & Water — Bbl.	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED Latus (Prod. or Shut-in) A Gas—Oil Ratio Oil Gravity — API (Corr.)
CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation frecord (None 3. Jate First Production Dry Hole Journal of Test Tow Tubing Press. 4. Disposition of Gas (5. List of Attachments Sidewall Neut	TOP TOP (Interval, size a Procedure of Pro	LINER RECORD BOTTOM and number) Choke Size Calculated 2 Hour Rate uel, vented, etc.)	PROCOwing, gas lift, pump Prod'n. For Test Period 24- Oil - Bbl.	SCREEN SCREEN 32. AG DEPTH IN None OUCTION Ding — Size and to Gas — MC On Focused	CEMENTH 450 sach 2150 sach 30. SIZE CID, SHOT, FRACH STERVAL Cype pump) Gas - MCF Water Log.	TUBING F DEPTH SET TURE, CEMENT AMOUNT AND Well S P & Water — Bbl. Test Witness	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED Latus (Prod. or Shut-in) A Gas—Oll Ratio Oil Gravity — API (Corr.)
CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation hecord (None 3. Jate First Production Dry Hole Jate of Test List of Attachments	TOP TOP (Interval, size a Procedure of Pro	LINER RECORD BOTTOM and number) Choke Size Calculated 2 Hour Rate uel, vented, etc.)	PROCOwing, gas lift, pump Prod'n. For Test Period 24- Oil - Bbl.	SCREEN SCREEN 32. AG DEPTH IN None OUCTION Ding — Size and to Gas — MC On Focused	CEMENTH 450 sach 2150 sach 30. SIZE CID, SHOT, FRACH STERVAL Cype pump) Gas - MCF Water Log.	TUBING F DEPTH SET TURE, CEMENT AMOUNT AND Well S P & Water — Bbl. Test Witness	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED Latus (Prod. or Shut-in) A Gas—Oll Ratio Oil Gravity — API (Corr.)
28. CASING SIZE 13-3/8" 8-5/8" 9. SIZE 1. Perforation frecord (None 3. Jate First Production Dry Hole date of Test low Tubing Press. 4. Disposition of Gas (5. List of Attachments Sidewall Neut 6. Thereby certify than	TOP TOP TOP Top From From From Casing Pressur Sold, used for for Ton, Gamma the information	LINER RECORD BOTTOM and number) Choke Size Calculated 2 Hour Rate uel, vented, etc.)	PROD PROD owing, gas lift, pump Prod'n. For Test Period 24- Oil - Bbl. Dual Induction les of this form is tra	SCREEN 32. AG DEPTH IN NONE DUCTION Ding — Size and to Oil — Bbi. Gas — MC On Focused The and complete	CEMENTH 450 sach 2150 sach 30. SIZE CID, SHOT, FRACH STERVAL Cype pump) Gas - MCF Water Log.	TUBING F DEPTH SET TURE, CEMENT AMOUNT AND Well S P & Water — Bbl. Test Witness	AMOUNT PULLED None None RECORD PACKER SET SQUEEZE, ETC. KIND MATERIAL USED Latus (Prod. or Shut-in) A Gas—Oll Ratio Oil Gravity — API (Corr.)

INSTRUCTIONS

This form is to be filled with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled a deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filled in quintuplicate except on state land, where six copies are required. See Hule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico				
т.	Anhy 2152'	Т.	Canyon	Τ.	Ojo Alamo	т.	Penn "B"
T.	Salt	Т.	Strawn	T.	Kirtland-Fruitland	Τ.	Penn. "C"
В.	Salt	т.	Atoka	Τ.	Pictured Cliffs	T.	Penn. "D"
T.	Yates 3100'	т.	Miss	. T.	Cliff House	T.	Leadville
T.	7 Rivers	Т.	Devonian	Τ.	Menefee	T.	Madison
T.	Queen 3885 '	т.	Silurian	T.	Point Lookout	T.	Elbert
T.	Grayburg	. T.	Montoya	Τ.	Mancos	T.	McCracken
T.		T .	Simpson	т.	Gailup	T.	Ignacio Qtzte
	Glorieta 6093	т.	McKee	. Bas	se Greenhorn	T.	Granite
T.	Paddock	Т.	Ellenburger	T.	Dakota	T.	Bough "A" 10,315'
T.	Blinebry	. T.	Gr. Wash	T.	Morrison	T.	Bough B 10,338
Т.	Tubb 7454'	т.	Granite	т.	Todilto	T.	Bough "C" 10,387'
T.					Entrada		
T.	Abo 8158'	. T.			Wingate		
T.	Wolfcamp 9716'		Penrose 4054	Τ.	Chinle	T.	
T.	Penn.		Cleariork 6/83		Permi an		
Т	Cisco (Bough C) 10,544	Т.	Hueco 9980'	T.	Penn. "A"	T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
0	1735	1735	Sand & Red Bed	10521	10577	56	Shale
1735	2190	455	Red Bed and Anhy	10577	10699	122	Lime & Shale
2190	3369	1179	Anhy & Salt		İ		
3369	3891	522	Anhy, Gypsum, & Salt	ll .	İ		
3891	4177	286	Anhy & Gypsum				
4177	4327	150	Anhy, Gypsum, & Salt				
4327	4528	201	Anhy				
4528	4540	12	Anhy, Lime		!		
4540	8494	3954	Lime		1		
8494	9419		Lime & Shale		i		
9419	9560	Į.	Lime				
9560	9670	l .	Lime & Shale				
9670	9800	1	Lime				
9800	10346		Lime & Shale		İ		
10346	10406	,	Shale				
L0406	10501	95	Lime & Shale				
10501	10508	7	Shale	[]			
L0508	10521	13	Lime & Shale				
				···			
	1)
				-			
				<u> </u>	-	1 7 2	
	[1 1			

New Mexico O	il Conservation Commission		
P. O. Box 19	80		
Hobbs, New Mo	exico 88240		
State of	exas		
County of M	idland		
J. R. A	vent , of lawful a	age, being first duly s	worn deposes and says:
That he	is employed by Skelly Oil Compa	any in the capacity of D	District Administrative
Coordinator	and is fully acquainte		
That duri	ing the months of May and June		
	wing Deviation Surveys for Skel		
	, in _NE1/4 of _SE1/4		
Penn	Pool, Lea	County, Ne	w Mexico.
	SLOPE TES	ST DATA	
Depth In	Angle in Degrees	Depth In	Angle in Degrees
4281	1/4	5353	1-1/4
1007'	1/2	5860 1	1-1/4
1507'	1/2	6100'	1-1/4
2008'	3/4	6630'	1 3/4
2669'	3/4	7100'	1-3/4
3073'	1	7634 '	1-1/4
3245'	1	8155'	1-1/4
3670'	Ī	8425	1-3/4
40351	1	8750¹	1-3/4
4540' 4860'	1-1/4 1-1/4	95491	1-3/4
4000	1-1/4	10,122' 10,699'	2 1-1/2
Subscribed and	d sworn to before me this 18	I hereby certif	y that the information
day of Augus	st , 19 72 .	given above is	true and complete to the ledge and belief.
6.	6. Boen .	_	J. R. Avent
	in and for said County and Sta	N.	ame
My commission	expires: June 1, 1973		strative Coordinator
		P. O. Box 1351	Midland, Texas 79701

Address

SECTION VII

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

HALLIBURTON SERVICES MIDLAND DIVISION HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No	W8 2.	-9	78
· • • • • • • • • • • • • • • • • • • •			

To <u>Harvey E. Yates</u>		Date9 <u>-8-82</u>			
Box 1933		it not any part thereof nor a copy thereof is to be published			
Roswell, New Mexico		and employees thereof receiving such report from Halliburton			
Submitted by		Date Rec. 9-7-82			
Well No. McDonald #2	Depth	Formation			
County.	Field	Source			
Resistivity	0.167 (0.74°r.				
Specific Gravity	1.031	en en en en en en en en en en en en en e			
pH	7.0	The second secon			
Calcium (Ca)	2,100	*MPL			
Magnesium (Mg)	Nil				
-	23,500				
	ם פרט				
Bicarbonates (HCO ₃)	855				
Soluble Iron (Fe)					
RemarksNitrate determi high colo	nation was not concl u sive ration of the water.	, due to the *Milligrams per liter			
	Respectfully sub	mitted,			
Analyst: Brewer		HALLIBURTON COMPANY			
CC:	Ву	W. J. Brewer			

NOTICE

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LYNES, INC.

Houston, TX 77017

adress

See

Distribution

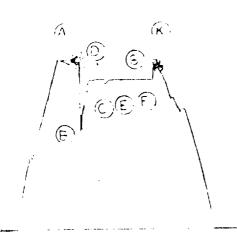
Contractor	Moranco	Drilling	Co.
Rig No	2		
Spot			
Sec	34		
Twp	735		
Rng	36E		
Field	Wildcat		
County	Lea-		
State	New Mex	ico	
Elevation_			
Enconting	Canvon		

Top Choke	1/4"
Size Hole	7 7/8"
Size Rat Hole	
Size & Wt. D. P	4 1/2" XH 16.60
Size Wt. Pipe	
I. D. of D. C	2 1/4"
Length of D. C	558 Ft.
Total Depth	10950 Ft.
Interval Tested	10810-10950 Ft.
Type of Test	Bottom Hole
7,50	Conventional

	Flow No. 1	Min.
	Shut-in No. 1 00	
	Flow No. 2 60 Shut-in No. 2 120	Min.
,	Shut-in No. 2 120	Min.
,	Flow No. 3	Min.
	Shut-in No. 3	Min,

Bottom Hole Temp	135 ⁰ F
Mud Weight	
Gravity	
Viscosity	

Tool opened @ 10:23 A.M.



Inside	rec	order	
PRD Make Kuster	K-3		
No. 22722 Cap. 6		@_10794'	
Press		Corrected	
Initial Hydrostatic	Α	4761	
Final Hydrostatic	Κ	4761	
Initial Flow	В	2840	Ç
Final Initial Flow	С	3914	íệ
Initial Shut-in	D	4225	Ticket No
Second Initial Flow	E	4111	٦
Second Final Flow	F	4222	4
Second Shut-in	G	4225	8
Third Initial Flow	Н		40808
Third Final Flow	l		
Third Shut-in	J		
			
		 	ł .

Lynes Dist. Hobbs, N.M.
Our Tester Greg Capes
Witnessed By Peck Hardee

Did Well Flow - Gas No RECOVERY IN PIPE:

(Test Was Reverse Circulated)

Oil NO Water No

9053 Ft. Total fluid = 123.36 bbls

558 Ft. Drilling mud with LCM = 7.92 bbls.

8495 Ft. Slightly mud cut sulphur water with LCM = 155.44 bbls.

Blow Description:

1st Flow:

Tool opened with strong surface blow, increased to 16 psi in 21 minutes, increased to 28 psi at the end of the flow

period.

2nd Flow:

Tool opened with a 4 ounce blow, increased to 12 psi in 14 minutes, decreased to 10 psi in 23 minutes, decreased to 7 psi in 47 minutes, decreased to 6 psi at the end of the flow period.

Comments:

The test results indicate excellent permeability in the zone tested. The FSI stabilized immediately. The ISI stabilized in 45 minutes. No extrapolations could be performed.

LY-230

3/18/83

Date

Final Copies

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: J. A. Foster #1

DATE:

7-19-83

LOCATION: I, 660' FEL & 1980' FSL, Sec. 4, T-14S, R-36E, Lea County, New Mexico.

FIELD: P & A

ELEVATION:

3944' GR 3955' KB

TD: 10,699'

PBTD: surface

CASING RECORD:	SIZE	WT. & GRADE	DEPTH				EMENT		CEMENT TOP
	13-3/8"	61#	424'			-	450	SXS	surface
	8-5/8"	32#	4540'				2150	SXS	surface
Plugs: 1) 34' plu 2) 40 sxs	ig to surfa	ace (10 sxs)		5)	30	SXS	plug	from	8055'-8157'
2) 40 sxs	plug from	4424'-4561'	(8-5/8" shoe)	6)	30	SXS	plug	from	9884'-9986'
3) 30 sxs	plug from	5978'-6080'		7)	30	SXS	plug	from	10,442'-10,544'
4) 30 sxs FORMATION TOPS:	plug from	7373'-7475'							
FORMATION TOPS:									

Cisco - 10,544' Hueco - 9,980'

Abo - 8,158'

PRESENT PERFORATIONS:

PRESENT PRODUCTION:

None: Originally drilled 5/23/72 & P&A 6/20/72. None

RECOMMENDED PROCEDURE:

- 1) MI & cut off dry hole marker & weld on casing flange.
- 2) MI & RU Completion Unit & reverse circulating unit.

3) Drill out plugs to a TD of 10,700' w/7-7/8" bit.

4) Set pipe & cement w/sufficient cement to TD to 10,500'.

5) Perforate 4 shots per foot from 10,640'-10,646' (28 holes).

- 6) Trip in hole w/5-1/2" Nickle Plated Baker Lok-Set, 1.81" profile on/off tool and 2-3/8" internally plastic coated tubing and set at approximately 10,575'.
- 7) Acidize w/2000 gal double inhibited 15% HCL.
- 8) Turn over to pumper.

SECTION XI

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

CC:

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES MIDLAND DIVISION

RECEIVED	M	•6	. 633	1983
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новвя, и	EW MEXICO 88240
LABORATORY	WATER ANALYSIS No. W83-502
	Date5-3-83
	This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published
20	or disclosed without first securing the express written approval
∢es	and employees thereof receiving such report from Halliburton
	Date Rec. 5-3-83
Depth	Formation
Field	Source Fresh Water Supplies
Foster S.E. #1	McLish Well
10.4 @ 74°F.	12.2 @ 74°F.
1.004	1.002
7.0	7.1
150	95 *MPL
	9
300	150
650	900
170	195
Nil	Nil
	*Milligrams per liter
Respect	fully submitted,
·	HALLIBURTON COMPANY
	LABORATORY CO Ces Depth Field Foster S.E. #1 10.4 @ 74°F. 1.004 7.0 150 18 300 650 170 Nil

NOTICE

AREA WATER WELLS

	DOLODITY	CTATUS			
REFERENCE FILE	PRIORITY	STATUS	<u>USE</u>	WELL LOCATION	QUARTE
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	I RR	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-135, R-36E	1111
Wallis, T. V.	L-01483	PMT	DOM		113
Hemann, Leon	L-07036	PMT	DOM	Sec. 34, T-135, R-36E	
	L-00187			Sec. 34, T-135, R-36E	1130
Hemann, Leon O.		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-145, R-36E	111
Cruz, Felix A	L-07134	PMT	DOM	Sec. 4, T-145, R-36E	1110
Lambert Allie L.	L-002565	PMT	IRR	•	
Foster, James A. Jr.	L-00082	LIC	IRR	· · · · · · · · · · · · · · · · · · ·	1313
Foster, James A. Jr.	L-00600	LIC		Sec. 4, T-14S, R-36E	2111
			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-145, R-36E	120
Cayton, Jack	L-02593	PMT	DOM		
Woodard, D. M.	L-05241	PMT	DOM	• • • • • • • • • • • • • • • • • • • •	121
				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

AFFIDAVIT OF PUBLICATION State of New Mexico, County of Lea. 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 10 1983 and ending with the issue dated ____, 19<u>83</u>___ Publisher. Sworn and subscribed to before 10TH day of me this ____ AME Tauloush Notary Public. My Commission expires ____

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.



LEGAL NOTICE June 10, 1983

Harvey E. Yates Company P.O. Box 1933 Suite 300 Security National Bank Bldg. 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 J.A. Foster#1. The J.A. Foster#1 is located in Unit 1, 660' FEL & 1980' FSL of Section 4, Township 14 South of Range 36 East in Lea County, New Mexico.

Produced water will be injected at an estimated rate of 500 barrels per day at not higher than 2128 psig in the Cisco Dolomite at a depth of 10,640.

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.