AMEND 5WD 5/16/00 766

MARTIN YATES, III 1912 - 1985

FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT

PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY

> DENNIS G. KINSEY TREASURER

April 27, 2000

David Catanach State of New Mexico **OIL CONSERVATION DIVISION** 2040 S. Pacheco Street Santa Fe, NM 87505-5472

Dear Mr. Catanach,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Buffalo Valley QL Federal #1 located in Unit K of Section 3-T15S-R28E, Chaves County, New Mexico.

Please note that this application is in addition, to one recently approved for this well by the Director, for disposal into the San Andres formation (Administrative Order SWD-766). This new application is for disposal into the Mississippian/Devonian. Our purpose in filing this second application is to allow for continuous operation on the well by deepening to the Devonian in the event that disposal into the San Andres is unsuccessful.

Should you have any questions, please feel free to contact me at (505) 748-4174.

Sincerely,

Ubert R Half

Albert R. Stall **Operations Engineer**

ARS/sd

Enclosure

2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

APPLICATION FOR AUTHORIZATION TO INJECT

/ I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
VII.	OPERATOR: Yates Petroleum Corporation
	ADDRESS: 105 South Fourth Street, Artesia, NM 88210
	CONTACT PARTY: Albert R. Stall PHONE: 505-748-4174
✓ 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 X 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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.).
É ∗VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: <u>Albert R. Stall</u> <u>TITLE: Operations Engineer</u>
	SIGNATURE:DATE:DATE:DATE:
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances 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 the 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, 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.

C-108 Application for Authorization to Inject

YATES PETROLEUM CORPORATION Buffalo Valley QL Federal #1 K 3-15S-28E Chaves County, New Mexico

- 1. The purpose of completing this well is for disposal of produced Morrow water into the Mississippian/Devonian.
- II. Operator: Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210 Albert R. Stall (505) 748-4174
- III. Well Data: See Attachment A
- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B.
- VI. There are no wells within the area of review penetrating the proposed injection zone.
- VII. 1. Proposed average daily injection volume approximately 1,500 BWPD. Maximum daily injection volume approximately 10,000 BWPD.
 - 2. This will be a closed system.
 - 3. Proposed average injection pressure--unknown. Proposed maximum injection pressure--5500 psi.
 - 4. Sources of injected water would be produced water from the Morrow. (Attachment C)
 - 5. See Attachment D.
- VIII. The injection interval is Mississippian/Devonian from approximately 9350-10,600'. Underground water sources of drinking water are in the Alluvial fill from surface to 200'.
 - IX. The proposed disposal interval may be acidized with 15-20% HCL acid.
 - X. Logs were filed at your office when the well was drilled. Any new logs run after deepening will also be submitted to your office.
 - XI. There is one windmill that exists within a one-mile radius of the subject location. Chemical analysis attached. (Attachment E)
- XII. Available engineering and geologic data have been examined, and no evidence of open faults or hydrologic connection between the disposal zone and any underground sources of drinking water has been found.
- XIII. Proof of notice
 - A. Surface owners and offset operators have been notified. (Attachment F)
 - B. Copy of legal advertisement attached. (Attachment G)
- XIV. Certification is signed.

ATTACHMENT A

YATES PETROLEUM CORPORATION Buffalo Valley QL Federal #1 K Sec 3-T15S-R28E Chaves County

- III. Well Data
- A. 1. Lease Name/Location: Buffalo Valley QL Federal #1 K 3-15S-28E 1980'FSL & 1980'FWL
 - Casing Strings: Proposed Well Condition: 13-3/8" 40# H40 at 396' 8-5/8" 24# J55 at 1948' 2-7/8" L-80 plastic-coated tubing with nickel-plated packer at 9300'
 - 3. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at approximately 50 feet above Mississippian/Devonian perforations.
- B. 1. Injection Formation: Mississippian/Devonian
 - 2. Injection interval into Mississippian/Devonian perforations approximately 9350-10,600'
 - 3. Well was originally drilled as an exploratory Morrow well. Well will be a Mississippian/Devonian water disposal well when work is completed.
 - 4. Next higher (shallower) oil or gas zone within 2 miles: Morrow Next lower (deeper) oil or gas zone within 2 miles: None

OLENATON. LAIGO LOUI					
Well NAME & NUMBER: BU	uffalo Valley QL Federal ≉	#1			
WELL LOCATION: 1980'FS	L & 1980'FWL	¥	ო	15S	28E
FOOT	AGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE	SCHEMATIC		WELL CONSTRU	CTION DATA	
			<u>Surface C</u>	asing	
		Hole Size:	17-1/2"	Casing Size: 13-3/	/8" @ 396'
Hole	13-378" @ 396"	Cemented with:	400 sx.	or	ft³
		Top of Cement: _	Surface	Method Determined: _	Circulated
12-1/4" Hole	~		<u>Intermediate</u>	Casing	
	~	Hole Size:	12-1/4"	Casing Size: 8-5/8	3'' @ 1948'
J	8-5/8" @ 1948'	Cemented with: _	1450 sx.	or	H ³
~~~~		Top of Cement: _	Surface	Method Determined:	Circulated
	~~~~		Production	Casing	
2-1/8"	~	Hole Size:	7-7/8"	Casing Size: 5-′	1/2"
	~~	Cemented with:	approx. 750 sx.	or	ft ³
~~~	<u>~~</u>	Top of Cement:	approx. 6000'	Method Determined: _	Will run CBL
	Selectively Perf Miss/Dev porosity	Total Depth:	10,600'		
~~			<u>Injection</u>	Interval	
		Perforated	9050 feet	<b>to</b> 10,300	
			(Perforated or Open Ho	e; indicate which)	

# **INJECTION WELL DATA SHEET**

**OPERATOR:** Yates Petroleum Corporation

Type of Packer:       Guibberson Uni VI - Nickel-plated         Packer Setting Depth:       3300'         Crher Type of Tubing/Casing Seal (if applicable):       N/A         Additional Data       Additional Data         I Is this a new well drilled for injection?       Yes       X         Ino, for what purpose was the well originally drilled?       Morrow test       No         Stame of the Injection Formation::       Mississippian/Devonian       No         Ame of the Injection Formation::       Mississippian/Devonian       No         Stame of the Injection Formation::       Morrow test       No         State well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging details.       No         See attached wellbore diagram for plugging details.       No       No         See attached wellbore diagram for plugging details.       No       No         See attached wellbore diagram for plugging details.       No       No         See attached wellbore diagram for plugging details.       No       No         See attached wellbore diagram for plugging details.       No       No         See attached wellbore diagram for plugging details.       No       No         See attached wellbore diagram for plugging details.       No       No         See attached well bore	Tubing Size: 2-7/8" 6.4#/ft L-80 Lining Material: plastic-coated
Packer Setting Depth:       3300'         Other Type of Tubing/Casing Seal (if applicable):       N/A         Other Type of Tubing/Casing Seal (if applicable):       N/A         Additional Data       Additional Data         I Is this a new well drilled for injection?       Yes       X         If no, for what purpose was the well originally drilled?       Morrow test       Yes       X         I no, for what purpose was the well originally drilled?       Morrow test       Yes       X       No         I no, for what purpose was the well originally drilled?       Morrow test       No       No <t< td=""><td>Type of Packer: Guiberson Uni VI - Nickel-plated</td></t<>	Type of Packer: Guiberson Uni VI - Nickel-plated
Other Type of Tubing/Casing Seal (if applicable):       N/A         Additional Data       Additional Data         Is this a new well drilled for injection?       Additional Data         In o, for what purpose was the well originally drilled?       Morrow test         Name of the Injection Formation:       Mississippian/Devonian         Image of the Injection Formation:       Mississippian/Devonian         Image of field or Pool (if applicable):       None         Image of Field or Pool (if applicable):       None      <	Packer Setting Depth: 9300'
Additional Data         1       Is this a new well drilled for injection?       Yes       X       No         1       If no, for what purpose was the well originally drilled?       Morrow test       Morrow test       No         2       Name of the Injection Formation:       Mississippian/Devonian       Morrow test       No         3       Name of Field or Pool (if applicable):       None       None       No       No         4       Has the well ever been perforated in any other zone(s)? List all such perforated in threvals and give plugging detail, La. sacks of cement or plug(s) used.       No       No         5       Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:       Morrow at approximately 9000-9200'	Other Type of Tubing/Casing Seal (if applicable): N/A
1       Is this a new well drilled for injection?       Yes       X       No         1       fno, for what purpose was the well originally drilled?       Morrow test       No         2       Name of the Injection Formation:       Mississippian/Devonian       No         3       Name of Field or Pool (if applicable):       None       None       No         4       Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.       No       No         5       Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:       Morrow at approximately 9000-9200'	Additional Data
<ul> <li>2 Name of the Injection Formation: Mississippian/Devonian</li> <li>3 Name of Field or Pool (if applicable): None</li> <li>4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used. No</li> <li>5 See attached wellbore diagram for plugging details.</li> <li>5 Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow at approximately 9000-9200'</li> </ul>	1 Is this a new well drilled for injection? Yes Yes X No If no, for what purpose was the well originally drilled? Morrow test
<ul> <li>3 Name of Field or Pool (if applicable): <u>None</u></li> <li>4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used. <u>No</u></li> <li>5 See attached wellbore diagram for plugging details.</li> <li>5 Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: <u>Monrow at approximately 9000-9200</u></li> </ul>	2 Name of the Injection Formation: Mississippian/Devonian
<ul> <li>4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used. No</li> <li>5 See attached wellbore diagram for plugging details.</li> <li>5 Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow at approximately 9000-9200'</li> </ul>	3 Name of Field or Pool (if applicable): None
5 Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow at approximately 9000-9200'	<ul> <li>4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, I.e. sacks of cement or plug(s) used.</li> <li>See attached wellbore diagram for plugging details.</li> </ul>
	5 Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Morrow at approximately 9000-9200'

**INJECTION WELL DATA SHEET** 





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YATES PETROLEUM CORPORATION BUFFALO VALLEY QL FEDERAL #1 Proposed Salt Water Disposal Well Sec 3-T15S-R28E 1980'FSL & 1980'FWL Chaves County, New Mexico

# ATTACHMENT C



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# MILLER CHEMICALS, INC.

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Post Office Box 298 Artesia, N.M. 88211-0298 (505) 746-1919 Artesia Office (505) 393-2893 Hobbs Office (505) 746-1918 Fax

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#### WATER ANALYSIS REPORT

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Company Address Lease Well	Y : YATES PETROLEUM S : ARTESIA, NM : WINDMILL "ATI" : #1	Date Date Sampled Analysis No.	: 1/18/00 : 1/18/00 : 00095	
Sample	Pt. : WELLHEAD			
	ANALYSIS	mg/L		* meq/L
1.	рН 6.0			
2.	H2S 0			
3.	Specific Gravity 1.030			
4.	Total Dissolved Solids	97783.1		
5.	Suspended Solids	NR		
6.	Dissolved Oxygen	NR		
7.	Dissolved CO2	NR		
8.	Oil In Water	NR		
9.	Phenolphthalein Alkalinity (Ca	aCO3)		
10.	Methyl Orange Alkalinity (CaCo	3)		
11.	Bicarbonate	HCO3 195.0	HCO3	3.2
12.	Chloride	Cl 59640.0	Cl	1682.4
13.	Sulfate	SO4 100.0	SO4	2.1
14.	Calcium	Ca 1600.0	Ca	79.8
15.	Magnesium	Mg 802.6	Mg	66.0
16.	Sodium (calculated)	Na 35445.5	Na	1541.8
17.	Iron	Fe NR		
18.	Barium	Ba NR		
19.	Strontium	Sr NR		
20.	Total Hardness (CaCO3)	7300.0		

#### PROBABLE MINERAL COMPOSITION

			-		
*milli equivalents per Lite	er	Compound	Equiv wt	X meq/L	= mg/L
++	++				~~~~~~
801 *Ca < *HCO3	3	Ca (HCO3) 2	81.0	3.2	259
>	11	CaSO4	68.1	2.1	142
1 661 *Mg> *SO4	2	CaCl2	55.5	74.6	4137
</td <td>  </td> <td>Mg (HCO3) 2</td> <td>73.2</td> <td></td> <td></td>		Mg (HCO3) 2	73.2		
1 15421 *Na> *Cl	1682	MgSO4	60.2		
++	++	MgC12	47.6	66.0	3143
Saturation Values Dist. Wa	ter 20 C	NaHCO3	84.0		
CaC03 13	mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090	mg/L	NaCl	58.4	1541.8	90102
BaSO4 2.4	mg/L				

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#### SCALE TENDENCY REPORT

1.13

Company	: YATES PETROLEUM	Date	: 1/18/00
Address	: ARTESIA, NM	Date Sampled	: 1/18/00
Lease	: WINDMILL "ATI"	Analysis No.	: 00095
Well	: #1	Analyst	: A. MILLER
Sample Pt.	: WELLHEAD	-	

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#### STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO3 Scaling Tendency

S.I. =	-0.9	at (	60 deg.	F or	16	deg.	С
S.I. =	-0.8	at i	80 deg.	F or	27	deg.	С
S.I	-0,7	at 1	00 deg.	F or	38	deg.	С
S.I	-0.6	at 13	20 deg.	F or	49	deg.	С
S.I	-0.6	at 1	40 deg.	F or	60	deg.	С

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S	#	4533	at	60	deg.	F	or	16	deg	С
S	*	4859	at	80	deg.	F	or	27	deg	С
S	Ξ	5059	at	100	deg.	F	or	38	deg	С
S	**	5149	at	120	deg.	F	or	49	deg	С
S	<b>T</b>	5212	at	140	deg.	F	or	60	deg	С

Respectfully submitted, A. MILLER

.

ATTACHMENT D



T

Phone (303) 790-2705

ContractorPeterson Drlg.Rig No.1Spot330' FNL & 1650' FWLSec21Twp.14 SRng.30 EFieldWildcatCountyChavesStateNew MexicoElevation3873' KBFormationDevonian	Surface Choke Bottom Choke Hole Size Core Hole Size DP Size & Wt. Wt. Pipe I.D. of DC Length of DC Total Depth Type Test Interval	1/8" 3/4" 7 7/8"  4 1/2" 16.60  2 1/4" 730' 10748' Conventional 10723'- 10748'	Mud Type Weight Viscosity Water Loss Filter Cake Resistivity B.H.T. Co. Rep. Tester Baker Dist.	 55  137,000 170.9 Steve Co Mike Fra Hobbs N	Ppm. Dochran aley M	°F VaCi °F
			Opened Too Flow No. Shut-in No. Flow No Shut-in No. Flow No. Shut-in No. Shut-in No. Recorder Ty No. 0111 Depth Inside Outside <b>x</b> Initial Hydrosta Initial Hydrosta Initial Flow Final Initial Flo Initial Shut-in Second Initial Second Shut-i Third Initial Flo Third Final Flo	REPORTED 1 @ 22:3: 1 20 1 60 2 60 2 120 3 60 3 None pe STI 9 Cap. Clo Rar atic A atic K 8 bw C D Flow E Flow F in G bw H bw I J	CORRECTI 2 18 60 60 120 58 Taken 8000 10000 10728 ck ige 5628 5610 207 520 4347 566 1135 4347 1179 1587	ەن hrs. min. min. min. min. feet hrs.

Pipe Recovery Approximately 6000' Gas above fluid Reverse circulated to test tank: 4660' Total fluid = 59.5 bbl., consisting of: 611' Gas cut oil = 8.7 bbl. 4049' Gas cut water = 50.8 bbl. Gravity: Top: 45.0 Deg API @ 60 Deg F Chlorides: Middle: 34,000 ppm Cl. titrated. Bottom: 24,000 ppm Cl. titrated. VEST RANCH "RE" FEDERAL #2 DEVONIAN ~ 10723'- 10748'

YATES PETROLEUM CORP. TICKET #012828

> DST #4 05-16-1996

05-16-199	6	
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# SAMPLER REPORT

Pressure in Sampler:	1200		psig			
Total Volume of Sampler:	2600		CC.			
Total Volume of Sample:	2350		CC.			
Oil:	750		cc.			
Water:	1600		CC.			
Mud:	None		cc.			
Gas	0.89		cu. ft.			
Other	None					
Sample:	23,000 ppm Cl.	titrated. Resistivity				
Make up Water	@		⁰F of Chloride Content			ppm.
Mud Pit Sample	0		⁰F of Chloride Content	137,000		ppm.
Gas / Oil Ratio 190 /	1 cuft./bbl.	Gravity	45.0	°API @	60	٥F
Where was sample drained	d On location.					

Remarks:

D.R.S.

Data prepared	by: Symposium Committee
Affiliation:	Roswell Geological Society
Date:	10-29-56

Field Name: Chisum (Devonian)
Location:Sec. 13, T. 11 S., R. 27 E., &W ¹/₂ Sec.
County & State: 18, T. 11S., R. 28E.
Chaves, New Mexico

DISCOVERY WELL: Honolulu Oil Corp. #1-J State

COMPLETION DATE: 4-8-50

PAY ZONE: Devonian dolomite is a fine to coarse crystalline, white to tan reservoir rock with porosity development usually occurring from 0 to 10 feet below the Woodford-Devonian contact. Small vugs to cavernous type of porosity with secondary development of large dolomite crystals lining the vugs and associated with limited fractures make up the commercial void of the dolomite pay. The discovery well potentialed for 170 BOPD flowing, 11/32 inch ck, GOR 80, from open hole 6,490-6,563 feet.

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

Perm. in r	nillidarcys	% Porosity	Liquid Saturation (%	of pore space)
Horizontal	Vertical		Water	Qil
150 est.	150 est.	4 - 12 est.	25 est.	12 est.

OTHER SHOWS ENCOUNTERED IN THIS FIELD: San Andres 2,025-2,058 feet.

TRAP TYPE: Anticline

NATURE OF OIL: Paraffinic Gravity 40° @ 60° F.

NATURE OF GAS:

¢

1

)

NATUR	ATURE OF PRODUCING ZONE WATER:					Res	istivity:	oł	m-meters	0	°F	
	Total Solids	Na+K	Ca	Mg	Fe	SO 4	C1	CO 2	HCO3	ОН	HzS	
ppm		18,822					29,047					

INITIAL FIELD PRESSURE:

TYPE OF DRIVE: Water drive.

NORMAL COMPLETION PRACTICES: Set production string on top of pay and acidize open hole.

#### PRODUCTION DATA:

No. of weils @ yr, end		Production			. of	wells	@ yr. end	Production				
ear	ype	rod.	Shut in or	Oil in barrels Gas in MMCF		ear	ype	rod.	Shut in or	Oil in Gas ir	in barrels s in MMCF	
<u> </u>	1	•	Abnd.	Annual	Cumulative	<b>`</b>	<u>ب</u> نو	4	Abnd.	Annual	Cumulative	
	oil						oil					
1941	gas					1949	gas					
	oil						oil	2	0	42,068	42,068	
1942	gas					1950	gas					
	oil						oil	2	0	67,133	109,201	
1943	gas					1951	gas					
	oil						oil	2	0	59,939	169,140	
1944	gas					1952	gas					
	oil						oil	2	0	48,988	218,128	
1945	gas					1953	gas					
	oil						oil	2	0	32,877	251,005	
1946	gas					1954	gas					
	oil						oił	2	0	30,853	281,858	
947	gas					1955	gas					
	oil						oil					
948	gas					1956	gas					

1956 Figure is production to 5-1-56.

# ATTACHMENT E



3

# MILLER CHEMICALS, INC.

Post Office Box 298 Artesia, N.M. 88211-0298 (505) 746-1919 Artesia Office (505) 393-2893 Hobbs Office (505) 746-1918 Fax

WATER ANALYSIS REPORT

Company Address Lease Well Sample	Pt. :	YATES PETROLEU ARTESIA, NM SEC.9,155,28E WINDMILL (Fresh UNKNOWN	<b>)</b>	Date Date Sampled Analysis No.	: 3/3/00 : 3/2/00 : 00116	
	ANALYSIS	3		mg/L		* meq/L
1		•	71	****		
2	pn H2S		0			
 	Specific	Gravity	1 000			
4.	Total Di	sacived Solida	1.000	15197.9		
5.	Suspende	d Solids	•	NR		
6.	Dissolve	ed Oxygen		NR		
7.	Dissolve	d CO2		NR		
8.	Oil In W	later		NR		
9.	Phenolph	nthalein Alkali	nity (CaCO3)			
10.	Methyl	)range Alkalini	ty (CaCO3)			
11.	Bicarbon	nate	HCO3	98.0	HCO3	1.6
12.	Chloride	•	C1	7668.0	C1	216.3
13.	Sulfate		SO4	2000.0	SO4	41.6
14.	Calcium		Ca	1280.0	Ca	63.9
15.	Magnesiu	174	Mg	389.5	Mg	32.0
16.	Sodium (	(calculated)	Na	<b>3762.2</b>	Na	163 <b>.6</b>
17.	Iron		Fe	0.3		
18.	Barium		Ba	NR		
19.	Strontiu	ın	Sr	NR		
20.	Total Ha	rdness (CaCO3)		4800.0		

#### PROBABLE MINERAL COMPOSITION

			-		
*milli equivalents per Lite	er	Compound	Equiv wt	X meq/L	= mg/L
++	++				
641 *Ca < *HCO3	2	Ca (HCO3) 2	81.0	1.6	130
>		CaSO4	68.1	41.6	2835
321 *Mg> *SO4	421	CaC12	55.5	20.6	1144
</td <td>  </td> <td>Mg (HCO3) 2</td> <td>73.2</td> <td></td> <td></td>		Mg (HCO3) 2	73.2		
1641 *Na> *Cl	216	MgSO4	60.2		
++	++	MgC12	47.6	32.0	1525
Saturation Values Dist. Wat	ter 20 C	NaHCO3	84.0		
CaCO3 13 n	ng/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 m	ng/L	NaCl	58.4	163.6	9564
BaS04 2.4 m	ng/L				

**REMARKS:** 

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# SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 3/3/00
Address	: ARTESIA, NM	Date Sampled	: 3/2/00
Lease	: SEC.9,155,28E	Analysis No.	: 00116
Well	: WINDMILL (Fresh)	Analyst	: A. MILLER
Sample Pt.	: UNKNOWN	-	

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#### STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO3 Scaling Tendency

S.I.	*	0.1	at	60	deg.	F	or	16	deg.	С
S.I.	-	0.1	at	80	deg.	F	or	27	deg.	С
S.I.	#	0.1	at	100	deg.	F	or	38	deg.	С
S.I.	=	0.2	at	120	deg.	F	or	49	deg.	С
S.I.	-	0.2	at	140	deg.	F	or	60	deg.	С

#### CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S	=	2789	at	60	deg.	F	or	16	deg	С
S	=	2925	at	80	deg.	F	or	27	deg	С
S	=	2988	at	100	deg.	F	or	38	deg	С
S	#	2 <b>998</b>	at	120	deg.	F	or	49	deg	С
S	=	2995	at	140	deg.	F	or	60	deg	С

Respectfully submitted, A. MILLER

ATTACHMENT F

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MARTIN YATES, III 1912 - 1985

FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471 S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT

# PEYTON YATES

EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER

April 27, 2000

Bureau of Land Management 2909 W. 2nd Street Roswell, NM 88201

Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Buffalo Valley QL Federal #1 located in Unit K of Section 3-T15S-R28E, Chaves County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4174.

Sincerely,

Albert R Stall

Albert R. Stall Operations Engineer

ARS/sd

Enclosure

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471 S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER

April 27, 2000

Santa Fe Schneider Corporation 550 W. Texas Suite 1330 Midland, TX 79701

Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authorization to Inject) on the Buffalo Valley QL Federal #1 located in Unit K of Section 3-T15S-R28E of Chaves County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4174.

Sincerely,

abert D. Atall

Albert R. Stall Operations Engineer

ARS/sd

Enclosures

ATTACHMENT G

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471 S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER

April 27, 2000

Roswell Daily Record P. O. Box 1897 Roswell, NM 88202-1897

Gentlemen:

Yates Petroleum Corporation desires to place a public notice in your newspaper for one day. The notice is enclosed.

Please place this notice in your paper on Tuesday, May 2, 2000, and forward a copy of it along with your billing as soon as possible to:

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210 Attn: Albert R. Stall

If you have any questions, please contact me at 748-4174. Thank you for your cooperation in this matter.

Sincerely,

Albert R Stall

Albert R. Stall Operations Engineer

ARS/sd

Enclosure

# Legal Notice

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the "Buffalo Valley QL Federal #1" located 1980'FSL & 1980'FWL of Section 3, Township 15 South, Range 28 East of Chaves County, New Mexico, will be used for salt water disposal. Disposal waters from the Morrow will be re-injected into the Mississippian/Devonian at a depth of 9350'-10600' with a maximum pressure of 5500 psi and a maximum rate of 10,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, NM 87505-5472, within 15 days. Additional information can be obtained by contacting Albert R. Stall at (505) 748-4174.

#### COUNTY OF CHAVES STATE OF NEW MEXICO

I, Fran Saunders,

Legal Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached 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 time

week s

begining with issue dated March 10th

2000

and ending with the issue dated March 10th 2000

.....

Faunders m

Sworn and subscribed to before me

This 13th March day of 2000

Marylon.

My Commission expires July 25, 2002

(SEAL)

#### Publish March 10, 2000

#### LEGAL NOTICE

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the "Buffalo Valley QL Federal #1" located 1980'FSL & 1980'FWL of Section 3, Township 15 South, Range 28 East of Chaves County, New Mexico, will be used for salt water disposal. Disposal waters from the Morrow will be re-injected into the San Andres at a deplit of 1948'-3365' with a maximum pressure of 1300 psi and a maximum rate of 5000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, NM 87505-5472, within 15 days. Additional information can be obtained by contacting Albert R. Stall at (505) 748-4174.