KELLAHIN, KELLAHIN AND AUBREY
ATTORNEYS AT LAW
EL PATIO BUILDING

POST OFFICE BOX 2265 SANTA FE, NEW MEXICO 87504-2265 TELEPHONE (505) 982-4285 TELEFAX (505) 982-2047

*NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

TALSO ADMITTED IN ARIZONA

W. THOMAS KELLAHIN*

KAREN AUBREYT

JASON KELLAHIN (RETIRED 1991)

January 22, 1992

Dear David:

Enclosed is an original and one copy of Mr. McKay's application for a SWD well. I think it qualifies for administrative approval unless an interested party objects.

It is similar to the previously approved Yates SWD well in this area. See SWD-434.

While the notice of mailing does mot show it, a copy of the application is being sent to the ${\tt OCL}$ Arestia office.

Please call me if you have any questions.

ROY L. MCKAY, PRESIDENT

MAILING ADDRESS: P.O. BOX 2014 ROSWELL, N.M. 88202 • TELEPHONE 505 / 623 - 4735
STREET ADDRESS: ONE MCKAY PLACE ROSWELL, N.M. 88201 • FAX NO. 505 / 624 - 2202



January 21, 1992

New Mexico Oil Conservation Division State Land Office Building P.O. Box 2088 Santa Fe, New Mexico 87504

Gentlemen:

McKay Oil Corporation submits the attached application for conversion of the Charolette McKay Federal #1 located in Unit H, Section 25, T20S-R24E, Eddy County, New Mexico to a salt water disposal well, by deepening the well to approximately 10,300 feet for disposal in the Devonian formation.

McKay Oil Corporation requests the Administrative Approval as provided under the provisions of Rule 701 (B).

Thank you for your cooperation and assistance.

Very truly yours,

McKAY OIL CORPORATION

James L. Schultz V.P. Land & Legal

JLS:ml Encl.

II.	Operator: McKay Oil Corporation
	Address: P.O. Box 2014, Roswell, New Mexico 88202-2014
	Contact party: James L. Schultz Phone: 505 _ 623-4735
.11	Hell 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
٧.	Attach a map that identifies all wells and lesses 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.).
III.	Attach appropriate geological data on the injection zone including appropriate lithologically, 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.
х.	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 wall showing location of wells and dates samples were taken.
xII.	Applicants for disposal wells must make an affirmative etatement that they have examined evailable 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.
III.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification of the first or universal manufactures that there is a manufacture of the contract of the contra
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: James L. Schultz Title V.P. Land & Legal
	Signature: January 21, 1992

TIII. HELL 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.; lacation by Section, Township, and Range; and Cootage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of sement 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 sent 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.

- 8. 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 cartified 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.

C-108

Application for Authorization to Inject McKay Oil Corporation Charolette McKay Federal #1 Eddy County, New Mexico

- I. The purpose of completing this well is to make a disposal well for produced Dagger Draw water into the Devonian formation.
- II. Operator: McKay Oil Corporation

P.O. Box 2014

Roswell, New Mexico 88201 Jim Schultz (505) 623-4735

- III. Well Data: See Attachment A
- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B
- VI. Tabulation of all wells within half-mile of well. (See Attachment C)
- VII. 1. Proposed average daily rate 4,000 BWPD
 Maximum Daily Rate 10,000 BWPD
 - 2. This will be a closed system.
 - 3. Proposed average injection pressure 2,000 psi Proposed maximum injection pressure 2,500 psi
 - Sources of injection fluid Dagger Draw Canyon formation (Attachment D) - wells currently producing from Canyon formation in Dagger Draw.)
 - 5. Chemical analysis of proposed zone in the State "CO" Disposal. (Attachment E)
- VIII. 1. The proposed injection interval will be in the Devonian formation, "open hole" from 9690' to an estimated 10,300'.
 - The known fresh water zone is from the surface to 300 feet from the San Andres Aquifers. There are no underlying fresh water aquifers.
- IX. The proposed disposal interval may be acidized with 20,000 gallons of 20% HCL acid.
- X. Well logs and DST's have been previously submitted to the NMOCD. If new logs are run, these will be submitted.

C-108
Application for Authorization to Inject
Charolette McKay Federal #1
-2-

- XI. No windmills exist within a one mile radius of the subject location, however, there is a fresh water well within a one mile radius. The location of this well is indicated on the attached map. (Attachment F) A water analysis is also attached. (Attachment G)
- XII. McKay Oil Corporation has examined available engineering and geologic data and has found no evidence of open faults or hydrologic connections between the disposal zone and any underground drinking water.

XIII. Proof of Notice

- A. Certified letters sent to the surface owner and offset operators-attached. (Attachment H)
- B. Copy of legal advertisement attached. (Attachment I)
- XIV. Certification is signed.

McKay Oil Corporation Charolette McKay Federal #1 H-24-20S-24E

Attachment A Page 1

III. Well Data

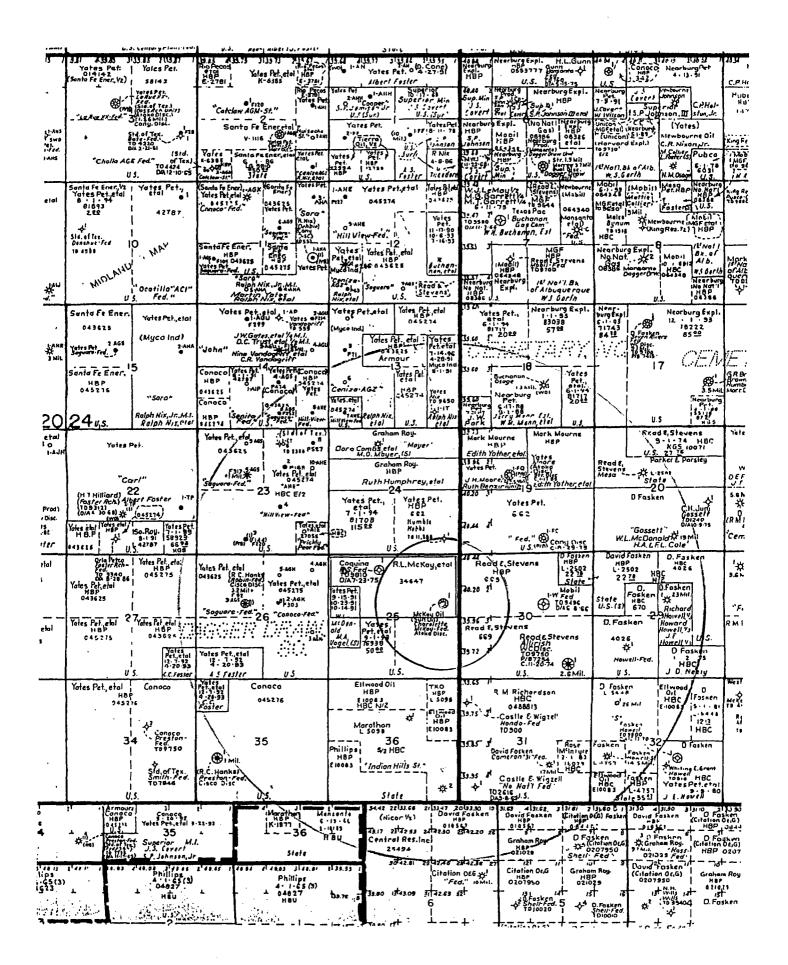
- A. 1. Charolette McKay Federal #1 H-25-20S-24E 1980' FNL & 660' FEL
 - 2. Casing Strings:

Casing	Depth	SX Cement	Hole Size	TOC
20"	35'	3 yds. Redimix	27"	Surface
13 3/8"	355'	920 sx	17 1/2"	CIRC
8 5/8"	2000'	980 sx	12 1/4"	CIRC
5 1/2"	9690'	650 sx	7 7/8"	*5700'

*Temp Survey

- Casing same as above.
 7/8" J-55, EUI, 6.5# Plastic coated tubing set at approximately 9600'.
- 4. Propose to use 5 1/2" Guiberson UNI-VI nickel-coated packer set at approximately 9600'.
- B. 1. Injection Formation: Devonian The well will be deepened from 9690' to approximately 10,300' with a 4 3/4" hole.
 - 2. Injection Interval:
 Devonian 9690' 10,300' Open Hole
 Determined after logging.
 - 3. Well was originally drilled for production.
 - 4. Perforations: *
 8884'- 88', 8936'- 48', and 8989'- 94' (ATOKA)
 - 5. Next higher: oil or gas zone within 1½ miles Canyon Next lower: oil or gas zone within ½ mile Morrow
 - * all of these perforations will be cement squeezed.

ATTACHMENT B



MCKAY OIL CORPORATION

CHAROLETTE MCKAY FEDERAL #1

PROPOSED SALT WATER DISPOSAL WELL

SEC. 25-20S-24E

1980 FNL & 660 FEL

EDDY COUNTY, NEW MEXICO

Charolette McKay Federal #1 Form C-108

Tabulation of Data on Wells Within Area of Review

Humble SWD #1 P 24-20S-24E	Federal Hobbs Water Well #1 A 25-20S-24E	Well Name
Yates Pet.	Humble Oil	Operator
GMS	Water	Туре
1	11/10/49	Spud
09/27/91	11/15/49	Completed
11,580'	240'	Total Depth
SWD		Producing Zone
Ореп Но]е 9532'-11,580'		Perforations
13-3/8" @ 423' w/425 sx 9-5/8" @ 4010' w/400 sx from 810' 7" @ 7728' w/1050 sx, TOC 2250' 5-1/2" @ 7728' to 9600' w/350 sx Packer @ 9503', 2-7/8" tubing-7577' to 9503' and 3-1/2" tubing - surface to 7577'. Open hole SWD from 9600'- 11,580'. Admin. order No. SWD-434.	8-5/8" @ 240' 4" tubing @ 236'	Completion Information

THE PARTLINA FOR STATE OF THE

HALLIE ON SERVICES

AUTECIA, NEW MEXICO 83210

No. WG5, WGG, & WG7 LABORATORY WATER ANALYSIS

To . Yates Petro	o . Yares Perroleum Corporation		Date			
105 South Fourth Street Artesia, NM 88210		This report is the property of Holliburian Company and it not any part thereof has a copy thereof is to be put of disclosed without first securing the express written a of laboratory management; it may however, be used course of regular business operations by any person as und employees thereof receiving such report from Holl Company.				
Submitted by		•				
•		Formation				
County		Source				
	Ross EC Fed. #2					
	.91 0 60°	.9 6 60°	.89 0 60°			
Specific Gravity	1.005 P 60°	1.005 P 60°	1.005 A 60°			
p:1	7.5	7.3	7.0			
Calcium (Ca)	1,000	1,000	1:,000 -			
Magnesium (Mg)		500	650			
Chlorides (CI)	4,000	5,000	5,000			
Sulfates (SO.)	llenvy	lleavy .	lleavy			
Bicarbonates (HCO3)	1,200	1,000	1,100			
Soluble Iron (Fe)	N i. l.	N 1.1	N 1. 1.			
······································						
Remarks:			*Milligroms per lite			
	·					
	flespecii	ully submitted,	,			

Analyst, Art 'Carrasco - District Engineer cc;

HALLIBURTON COMPANY

NOTICE

This report is limited to the described sample torred. Any user of this report agrees that Halliburtan shall not be liable for any last or damagn, whether it is not or or anishing from such report or its use.



PETROLITE OIL FIELD CHEMICALS GROUP

3949 Mineral Avenue - St. Louis, Messour 63119 314 961-3500 - Telex: 44-2417

WATER ANALYSIS REPORT

COMPANY_	Yates Petroleum	Company	ADDRESS_	Arte	esia, N.M.	DATEr_	4-23-87
SOURCE	State "CO" Dispe	nsal	DATE SAM	PLED _	3-18-87	ANALYSIS	168
	Analysis				Μ g/[*Meq/L	
1.	Hq	7.0					
2.	Has (Qualitative)	Pos.		٠		•	•
3.	Specific Gravity	1.005					
. A.	Dissolved Solids		-	7,0	72.		
5.	Suspended Solids		-				• •
٥.	Phenolphthalain Alkalin	alty (CaCO,)	-	10			, .
7.	Methyl Oranga Alkalinit	y (CnCO ₃)	-	0	····	·	•
8.	Bicarbonate (HCO3)		HCO, _	342	÷61	5.6	нсо,
۶.	Chlorides (CI)		Ci _	2,04	16 ÷ 35.5	53	C1
10.	Sulfates (SO ₄)		sO ₄ _	2,25	50 ÷48	47	50,
11.	Calcium (Ca)		Cn _	368	20	18	Co
12.	Magnesium (Mg)		Mg _	30	÷12.2	7	Mg
13.	Total Hardness (CaCC	O ₁ 1		1,25	50		
14.	Total Iron (Fe)		_	36 r	pm	•	
15.	Barium (Qualitative)						•
16.	Strontium						
· •Mil	li equivalents per liter	PROBABLE MINE	nal coun	O C!T!	O.V.		
		PROBREE MINE	KAL COMP	OSIII	ON		
•	Ca 4	HCO ₃	Compound		Equiv. Wt.	•	•
18			Ca (HCO ₃)	?	81.04	<u> </u>	454
7	М9 ————	→ so, <u>17</u>	Ca SO ₄		68.07	_12	817
86	Na ———	→ C1 53	Ca Cl2		55.50		-
Sati	uration Values Distilla	ed Water 20°C	Mg (HCO ₃)	2	73.17		
		J Mg∕l	Wa 201		60.19		121
		.020 Mg/L	Ma Cla		47.62		_
	Mg CO ₃ 1	03 Mg/l	No HCO2		00.18		
			Na ₂ SO ₄		71.03	_23	1.989_
			Na Cl		58.46	_58	3,391
REMARKS		- Stenzel - File					

PETROLITE OILFIELD CHEMICALS OROUP ORTESIA, NEW MEMICO MATER ONALYSIS REPORT

COMPONY NAME : YOTES PETROLEUM LEGGE NAME : STOTE 1001 SUB SAMPLE POINT : UPSTREAM OF PUMP

SAMPLE DATE : 10-9-07

PH = 8.00 COMPLE TEMP.= HZO H28 (OUNLITATIVE) = POC. SPECIFIC SERVITY = 1.900

TITRATED AND CALCULATED IONS

14003	(MOZETR)	==	1025.00	HCCC	(MEQZLTR)	===	10.00
CL_	(MGZLTR)	==	2025.00	CL	(MEQULTR)	=	55.21
904	(MOZETR)	===	2000.00	004	(MEQZLTR)	=	41.66
CH	(MOZITE)	==	600.00	CA	(MEQULTR)	==	30.00
MO	(MOZETRO	E.T	101.00	MG	(MEGZLIR)	==	10.70
H17i	(MGZLTR)	=:	2092.08	ЫÜ	(MEQ/LTR)	===	104.00

 $\begin{array}{rcl} \text{IONIC STREMGTH} = & 0.18 \\ \text{TOTAL HARDKESS} = & 2039.09 \\ \text{TOTAL DISSOLVED SOLIDS} = & 9147.31 \\ \text{TOTAL IPON (FE)} = & 6.6 \\ \end{array}$

CO(HCOC)2 (MG/LTR) = 16.00 898.38 10.19 CASO4 (MG/LTR) = CDSC4 (MEQ/LTR) =o. 9 o. 0 CACL2 (MEGALTR) = 0.0 COCL2 (MOZITE) = MG(HCOS)2 (MG/LTR) =MG(HCOS)2 (MEQ/LTR) =0.0 MGSQ4 (MGZLTR) = 646.30 - MGSO4 (MEQZLTR) =10.73 0. 0 0. 0 MGCL2 (MC/LTR) =MGCLC (MEQ/LTR) = O. O NAHCOS (MGZLTR) = NAHCOS (MEQZLIR) =0 01259.52 MO2SO4 (MGZLTR) = NA2804 (MEGZETR) = 17.73 MOCL (MOZETR) = -4901.45 NACL (MEQZLIR) = 05.21

CALCULATED SCALING TEMPENCIES

SCOLING INDEX

CACOS @ 00 0EG F = 1.00 CACOS @ 120 DEG F = 2.00

SATURATION POINT

CASO4 @ 70 DEG F (MG/LTR) = 3494.52 CASO4 @ 110 DEG F (MG/LTR) = 3541.99 THIS SAMPLE CONTRINED 890.30 MG/LTR

PETROLITE GILFIELD CHEMICALS GROUP ARTESIA, NEW MEXICA MATER AMPLYDIS REPORT

COMPANY NAME : YATES PETROLEUM

LEAGE NAME : STATE CO SAMPLE POINT : UPSTREAM SAMPLE DATE : 12-8-97

PH = 0.00 COMPLE TEMP.= N/A HOS (QUALITATIVE) = POS. SPECIFIC CRAVITY = 1.000

TITRATED AND CALCULATED IONS

H0003	CHOZLIED	*:=	1135.00	MOOR	(MEGZLIR)	===	10.60
CL	CMOZETRA	==	0195.00	CL	(MEQULTE)	=	90.00
904	(MGZLTR)	==	2000.00	204	(MEGZLTR)	=:	41.00
00	(MC/LTD)	===	602.06	CA	(MEQULTR)	::	01.60
MG	CMOZETRO	==	126.00	MG	(MEQULTR)	===	. 10.02
1-1171	CMG/2 TEX	:=:	2567.88	140	CMEDZI TRN	:=	100.00

IOMIC STREMETH = 0.19
TOTAL MARCHESS = 2000.52
TOTAL DISCOLVED SOLIDS = 9578.44
TOTAL IRON (FE) = 0.0

-1507.87 - 90(HCQS)2 (MEQ/LTR) = -10.60CO(HCOS)2 (MOZITR) = -084.46 12.99 CRSO4 (MOZLTR) =COCLE (MEGALTE) = 0. ប QACL2 (MOZLTR) = -MG(HCG3)2 (MG/LTR) = 0.0 621.63 MGSO4 (MEQZLTR) = 10.00 MOSO4 (MOZLTR) = -0.0 0.0 MGOL2 (MGZLTR) = .MOCL2 (MEQ/LTR) = 0.0 NAHCOS (MOZETR) = -MAHCOS (MEGZLIR) = 0.0 MACOS (MOZITE) = 0.0 MACSO4 (MOZITE) = 1000.07 MACL (MOZITE) = 5261.40 MO2SO4 (MEDZLTR) = 10.04 MOCL (MSQ/LTR) = 90.00

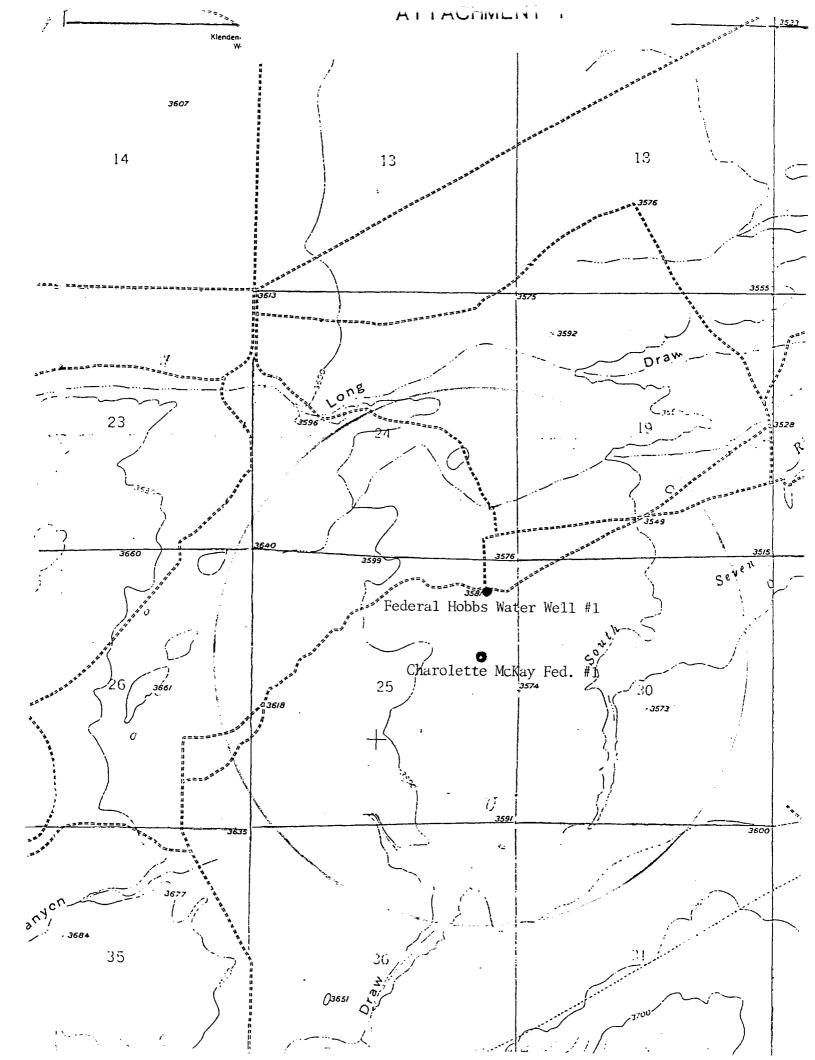
CALCULATED SCALING TENDERGIES

SCULING INDEX

CACOS 0 20 DEC F = 1.97 CACOS 0 120 DEG F = 2.37

зативатион водит

CRS04 0 70 DEG F (MG/LTR) = 3433.60 CAS04 0 110 DEG F (MG/LTR) = 3481.17 THIS SAMPLE CONTRINED 334.46 MG/LTR





Petrolite Oll Field Chemicals Group

16010 Barker's Point Lane • Houston, Texas 77079 (713) 558-5200 • Telex 4620346 • Fax (713) 589-4737

Reply to: P.O. Box 5250 Hobbs, New Mexico 88241

> Phone: (505) 392-6711 Fax: (505) 392-3759 :

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NEW MEXICO
Lease : S-25-T20S-R24-E
Well : FRESH WATER Date : 4-11-91 Date Sampled: 4-10-91 Analysis No.: 443

Sample Pt. : UNKNOWN

	ANALYSIS			mg/L		* meq/L
1. 2. 3. 4. 5. 6. 7.	H2S	7.0 NEGATIVE 1.000	:	3071.2		
8.	Oil In Water					
9.	Phenolphthalein Alkali	nity (CaCo	03)			
10.	Methyl Orange Alkalini					
11.	Bicarbonate		CO3	244.0	HCO3	4.0
12.	Chloride	C.	1	277.0	Cl	7.8
13.	Sulfate .	S	04 :	1800.0	SO4	37.5
14.	Calcium	Ca	a	952.0	Ca	47.5
15.	Magnesium	Mo	g	272.7	Mg	22.4
16.	Sodium (calculated)	Na	ā.	-474.5	Na	-20.6
17.	Iron	Fe	e	0.0		
18.	Barium	Ва	a	0.0		
19.	Strontium	Si	r	0.0		
20.	Total Hardness (CaCO3)		:	3500.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/
48 *Ca < *HCO3 /> 22 *Mg> *SO4 // -21 *Na> *Cl	37	Ca (HCO3) 2 CaSO4 CaCl2 Mg(HCO3) 2 MgSO4	81.0 68.1 55.5 73.2 60.2	4.0 37.5 6.0	324 2551 334
Saturation Values Dist. Wate CaCO3 13 mg CaSO4 * 2H2O 2090 mg BaSO4 2.4 mg	//L //L	MgCl2 NaHCO3 Na2SO4 NaCl	47.6 84.0 71.0 58.4	1.8	85

REMARKS:

L. MALLETT / S. BENNETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, LEE MALLETT



SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 4-11-91
Address : ARTESIA, NEW MEXICO Date Sampled : 4-10-91

Lease : S-25-T20S-R24-E Analysis No. : 443
Well : FRESH WATER Analyst : LEE MALLETT

Sample Pt. : UNKNOWN

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

S.I. = 0.5 at 60 deg. F or 16 deg. C S.I. = 0.5 at 80 deg. F or 27 deg. C S.I. = 0.6 at 100 deg. F or 38 deg. C S.I. = 0.6 at 120 deg. F or 49 deg. C S.I. = 0.6 at 140 deg. F or 60 deg. C

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

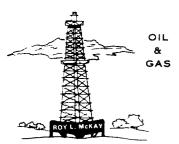
S = 1736 at 60 deg. F or 16 deg C S = 1804 at 80 deg. F or 27 deg C S = 1825 at 100 deg. F or 38 deg C S = 1817 at 120 deg. F or 49 deg C S = 1802 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted, LEE MALLETT

ATTACHMENT H

ROY L. MCKAY, PRESIDENT MAILING ADDRESS: P.O. BOX 2014 ROSWELL, N.M. 88202 . TELEPHONE 505/623-4735 STREET ADDRESS: ONE MCKAY PLACE ROSWELL, N.M. 88201 . FAX No. 505/624-2202



January 21, 1992

Bureau of Land Management P.O. Box 1778 Carlsbad, New Mexico 88221-1778

Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on McKay's Charolette McKay Federal #1, located in Unit H of Section 25-T20S-R24E.

Should you have any questions, please feel free to contact me at the above number.

Very truly yours,

MCKAY OIL CORPORATION

James L. Schultz V.P. Land & Legal

JLS:ml Encl.

INVESTMENTS

SENDER: Complete items 1 and 2 when additiona 3 and 4. Put your address in the "RETURN TO" Space on the revicard from being returned to you. The return receipt fee will to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) reque	erse side. Failure to do this will prevent thi provide you the name of the person delivere 1g services are available. Consult postmaste
 Show to whom delivered, date, and addressee's a (Extra charge) 	address. 2. A Restricted Delivery (Extra charge)
3. Article Addressed to: Burlau of Land Mgnit.	4. Article Number P-340-899-464
P.O. Box 1778 Carlsbad, new mexico	Type of Service: Registered Insured COD Express Mail Return Receipt for Merchandise
88221-1778	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Address X	8. Addressee's Address (ONLY if requested and fee paid)
3. Signature — Agent K	
7. Date of Delivery	

Thank you for using Return Receipt Service.

P 340 899 464

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL (See Reverse)

234-55	Sent to Bureau & Land	mant.
:: U.S.G.P.O. 1989-234-55	Street and No. P. O. BCX 1778	
3.G.P.O	P.A., State and ZIP Code	1 8 221
% U.S	Postage	5,98
	Certified Fee	1.00
	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt showing to whom and Date Delivered	1.00
PS Form 3800, June 1985	Return Receipt showing to whom, Date, and Address of Delivery	
June	TOTAL Postage and Fees	s 2.98
3800	Postmark or Date	
e E		
PS F		

Fold at line over top of envelope to the right of the return address

CERTIFIED

P 340 899 464

MAIL

ROY L. MCKAY, PRESIDENT

MAILING ADDRESS: P.O. BOX 2014 ROSWELL, N.M. 88202 . TELEPHONE 505 / 623 - 4735

STREET ADDRESS: ONE MCKAY PLACE ROSWELL, N.M. 88201 . FAX No. 505/624-2202



CERTIFIED MAILING P-340-899-461

January 21, 1992

Read & Stevens, Inc. P.O. Box 1518 Roswell, New Mexico 88202-1518

LEASES

Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on McKay's Charolette McKay Federal #1, located in Unit H of Section 25-T20S-R24E.

Should you have any questions, please feel free to contact me at the above number.

Very truly yours,

MCKAY OIL CORPORATION

James L. Schultz V.P. Land & Legal

JLS:ml Encl.

PRODUCTION • INVESTMENTS

Put your address in the "RETURN TO" Space on the level card from being returned to you. The return receipt fee will to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) reques 1. Show to whom delivered, date, and addressee's ac (Extra charge)	ted
3. Article Addressed to:	4. Article Number (β) 340 - 899-461
Riad & Stevens Po. Box 1518 Roswill, new mixew	Type of Service: Registered Insured Cordified CO Express Mall Return Receipt for Merchandis
Kosuca, 50,002	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Address	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature — Agent X	
7. Date of Delivery	

P 340 899 461

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

34-555	Sent to ad & Stevers		
RUS.G.P.O. 1989-234-555	Street and Na. P. D. P. D. V. 1518		
S.G.P.O.	P.O. State and ZIP Code RUSWULL, HEW THAT SO JOS		
, U.S	Postage	s 98	
Form 3800, June 1985	Certified Fee	1.00	
	Special Delivery Fee		
	Restricted Delivery Fee		
	Return Receipt showing to whom and Date Delivered	1.00	
	Return Receipt showing to whom, Date, and Address of Delivery		
June	TOTAL Postage and Fees	52.98	
3800,	Postmark or Date		
orn.			
PS F			

Fold at line over top of envelope to the right of the return address

FIED

P 340 899 461

MAIL

ROY L. MCKAY, PRESIDENT

MAILING ADDRESS: P.O. BOX 2014 ROSWELL. N.M. 88202 • TELEPHONE 505 / 623 - 4735

STREET ADDRESS: ONE MCKAY PLACE ROSWELL, N.M. 88201 . FAX NO. 505/624-2202



CERTIFIED MAILING P-340-899-460

January 21, 1992

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

LEASES

Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on McKay's Charolette McKay Federal #1, located in Unit H of Section 25-T20S-R24E.

Should you have any questions, please feel free to contact me at the above number.

Very truly yours,

MCKAY OIL CORPORATION

James L. Schultz V.P. Land & Legal

JLS:ml Encl.

PRODUCTION • INVESTMENTS

PS Form 3811, Mar. 1988

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge)				
3. Article Addressed to: Yates Detroleum Corp. 105 S. Fourth Street Artesia, Ynew Muxico 88210	4. Article Number P-340-899-460 Type of Service: Registered COD Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.			
 5. Signature — Address X 6. Signature — Agent X 7. Date of Delivery 	8. Addressee's Address (ONLY if requested and fee paid)			

Thank you for using Return Receipt Service.

P 340 899 450

* U.S.G.P.O. 1988-212-865

RECEIPT FOR CERTIFIED MAIL

DOMESTIC RETURN RECEIPT

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse)

.U.S.G.P.O. 1989-234-555	Sent 10 lates Atrolium Car		
1989-2	Street and No. Fruith Street		
S.G.P.O	P.O. State and ZIP Code (Little), M. M.	58210	
'n.	Postage	s 98	
	Certified Fee	1.00	
	Special Delivery Fee		
	Restricted Delivery Fee		
PS Form 3800, June 1985	Return Receipt showing to whom and Date Delivered	1.00	
	Return Receipt showing to whom. Date, and Address of Delivery		
June,	TOTAL Postage and Fees	\$ 2.98	
3800	Postmark or Date		
e o			
PS F			

Fold at line over top of envelope to the right of the return address

CERTIFIED

P 340 899 460

MAIL

ATTACHMENT I

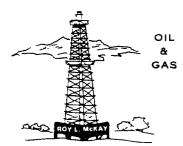
Legal Notice

McKay Oil Corporation, One McKay Place, Roswell, New Mexico, 88201, 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 Charolette McKay Federal #1, located 1980' FNL & 660' FEL of Section 25, Township 20 South, Range 24 East of Eddy County, New Mexico, will be used for saltwater disposal. Disposal waters from Dagger Draw will be injected into the Devonian, at a depth of 9690'- 10,300' feet with a maximum pressure of 2500 psi and a maximum rate of 10000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days. Additional information can be obtained by contacting Jim Schultz at (505) 623-4735.

ROY L. MCKAY, PRESIDENT

MAILING ADDRESS: P.O. BOX 2014 ROSWELL, N.M. 88202 . TELEPHONE 505/823-4735 STREET ADDRESS: ONE MCKAY PLACE ROSWELL, N.M. 88201 . FAX No. 505/624-2202



January 21, 1992

Artesia Daily Press 503 W. Main Artesia, New Mexico 88210

Gentlemen:

McKay Oil Corporation desires to place a public notice in your newspaper for Thursday, January 23, 1992. Please find the attached notice.

Please forward a copy of such notice along with your billing to:

> McKay Oil Corporation P.O. Box 2014 Roswell, New Mexico 88202-2014

If you should have any questions in regard to this matter, please call me at the above number.

Thank you for your assistance.

Very truly yours,

McKAY OIL CORPORATION

James L. Schultz

V.P. Land & Legal

JLS:ml Encl.

LEASES

PRODUCTION INVESTMENTS

ROY L. MCKAY, PRESIDENT MAILING ADDRESS: P.O. BOX 2014 ROSWELL, N.M. 88202 TELEPHONE 505/623-4735 STREET ADDRESS: ONE MCKAY PLACE ROSWELL, N.M. 88201 . FAX NO. 505/624-2202



February 25, 1992

Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87505

Attention: Mr. Ben Stone

Re: Charolette McKay Federal #1

Mr. Stone:

As per our conversation on this date, please find copies of the certified cards showing receipt of the Application for Authorization to Inject for the above mentioned well. Also enclosed please find a copy of the Affidavit of Publication which was published in an Eddy County newspaper.

If you should have any questions regarding this matter, please call me at the above number.

Very truly yours,

MCKAY OIL CORPORATION

Monica L. Lightfoot

Land Department

:ml Encl.

INVESTMENTS

	3. Article Addressed to: Buriau & Hand Dignit P.O. Bix 1778 Carlsbad, New Wice	4. Article Number
B name of the person genyered available. Consult postmaster Restricted Delivery (Extra charge) Number	5. Signature — Addressee X 6. Signature — Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-8	8. Addressee's Address (ONLY if requested and fee paid) DOMESTIC RETURN RECEIPT
Always obte or agents are requeste requeste.	SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the "RETURN TO" Space on the reversal from being returned to you. The return receipt fee will to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) reques 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to: Read & Staling Po. Box 1518 Republic, New Trux Control of the product of the produ	
Vol. The fetum fees the follow for additional fees the follow for additional service(s) required. date, and addressee's (Extra charge) At CX (X VISLON D) A X X X X X X X X X X X X X X X X X X	5. Signature — Address X 6. Signature — Agent X	Certified COD Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid)
1. Show to whom delivery for fees and check box(es) 1. Show to whom delivery 3. Article Addressed to: (ALL CHALLUL (ALLUL) (ALLUL (ALLUL (ALLUL). Signature - Address X X C. Signature - Address X T. Date of Delivery PS Form 3811, Mar. 1988	PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212 SENDER: Complete items 1 and 2 when additiona 3 and 4. Put your address in the "RETURN TO" Space on the reverse card from being returned to you. The return receipt fee will to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) reques 1. Show to whom delivered, date, and addressee's a (Extra charge) 3. Article Addressed to:	services are desired, and complete items erse side. Failure to do this will prevent this provide you the name of the person delivered as services are available. Consult postmaster sted. ddress. 2. Restricted Delivery (Extra charge) 4. Article Number
	yates Letroleum Corp. 105 S. Fourth Street Artesia, Hew nuxico 88210 5. Signature - Address	Type of Service: Registered Insured Certified COD Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if

X

6. Signature - Agent

7. Date of Delivery

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consuit postmaster for fees and check box(es) for additional service(s) requested.

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

2. Restricted Delivery (Extra charge)

(Extra charge)

* U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**

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

Affidavit of Publication

No. <u>13810</u>				
STATE OF NEW MEXICO,				
County of Eddy:				
Gary D. Scottbeing duly				
sworn, says: That he is the <u>Publisher</u> of The				
Artesia Daily Press, a daily newspaper of general circulation,				
published in English at Artesia, said county and state, and that				
the hereto attached Legal Notice				
was published in a regular and entire issue of the said Artesia				
Daily Press, a daily newspaper duly qualified for that purpose				
within the meaning of Chapter 167 of the 1937 Session Laws of				
days the state of New Mexico for 1 consecutive weeks on				
the same day as follows:				
First Publication January 24, 1992				
Second Publication				
Third Publication				
Fourth Publication				
Kan Watt				

Subscribed and sworn to before me this_____

My Commission expires September 23, 1992

of

27th

Notary Public, Eddy County, New Mexico

Copy of Publication

McKay Oil Corporation, One McKay Place Roswell, New Mexico, 88201, 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 Charolette McKay Federal #1, located 1980 FNL & 660 FEL of Section 25 Township 20 South, Range 24 Bast of Eddy County New Mexico will be used for saltwater disposal. Disposal waters from Dagger Draw will be injected into the Devonian, at a depth of 9690 10, 300 feet with a maximum pressure of 2500 psi and a maximum rate of 10000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501; within 15 days Additional information can be obtained by contacting Jim Schultz at (505) 623-4735.

Published in the Artesia Daily Press, Artesia, N.M. January 24, 1992.

Legal 13810