ŚTĂ ENE RES	ATE OF NEW MEXICO ERGY, MINERALS AND NATURAL BOURCES DEPARTMENT $\begin{array}{c} 23372.9678 \\ Oil Conservation Division \\ 1220 South St. Francis Dr. \\ Santa Fe, New Mexico 87505 \end{array}$ $\begin{array}{c} SWD \\ FORM C-108 \\ Revised 4-1-98 \\ OIl Conservation Division \\ FORM C-108 \\ Revised 4-1-98 \\ OIL Conservation Division \\ FORM C-108 \\ \\ FORM $
	APPLICATION FOR AUTHORIZATION TO INJECT
I.	PURPOSE:
II.	OPERATOR: RAY WESTALL
	ADDRESS: P.O. BOX 4, LOCO HILLS, NEW MEXICO 88255
	CONTACT PARTY: RANDALL HARRY PHONE: 505 677 2370
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes No If yes, give the Division order number authorizing the project: No
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:
ŗ	 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.).
*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: KANDALL HARRIS TITLE: GEOLOGIST
	SIGNATURE: DATE: 11/21/02

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, 1220 South St. Francis Dr., 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.

INJECTION WELL DATA SHEET

RAY WESTALL STATE NO #1 (30-025-28468) 1980' FNL & 660' FWL SEC 7 T19S-R36E



Tubular Data

Surface Casing Size 13 3/8" 48 & 72# Set @ 429"Cemented with 450 sxs Circulated Hole size 17 1/2"

Intermidate Casing Size 8 5/8" 32 & 24# set @ 4140 Cemented with 2400 sxs Circulated Hole size 11"

Long String Size 5 ½ 17 & 15.5# set @ 11040 Cemented with 975 sxs TOC 5900' (temp survey)Squeeze 50 sxs 5880'-5600' Squeeze 25sxs 4202' Squeeze 425 sxs 2101' Circulate to surface Hole size 7 7/8"

Injection interval 6409' to 7248' feet Perforated

Tubing size 2 7/8" lined with Plastic set in a Baker Loc-set packer at 6300 feet.

Other Data

- 1. Name of the injection formation. DELAWARE
- 2. Name of field or pool. WILDCAT
- 3. Is this a new well drilled for injection? No If no, for what purpose was the sell originally drilled? Oil & Gas production
- 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug (s) used. See Schematic
- 5. Give the depth to and name of any overlying or underlying oil or gas zones in this area. None

ATTACHMENT V

Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.

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ATTACHMENT VI

Data on all wells of public record within the area of review. Included are schematics of the plugged wells that penetrated the proposed injection zone within the area of review.

No wells within area of review.

ATTACHMENT VII

- 1. Proposed average of 150 bbls per day and maximum of 300 bbls per day of injected fluids. At a rate of one bbl per minuet.
- 2. System will be closed.
- 3. Average anticipated pressure of 450 psi and a maximum of 800 psi.
- 4. Source of produced water is produced water from the surrounding area.
- 5. Typical water analysis attached.

Data prepared by: Donald A. Beaudry	Field Nome: Pearl Queen
Affiliation: Shell Oil Company	Location: T. 19 S., R. 35 E.
Date: Aug. 15, 1960	County & State: Lea Co., N. Mex.
DISCOVERY WELL: Shell Oil Co. #1 Hooper	COMPLETION DATE: Sept. 12, 1955
PAY ZONE: Queen-Penrose thin sandstone beds.	

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

Perm. in r	nillidarcys	% Porosity	Liquid Satu	ration (% of pore space)
Horizontal	Vertical		Water	Oil
2-62	NA	18	35.0	6.4

OTHER SHOWS ENCOUNTERED IN THIS FIELD:

Seven Rivers, San Andres, Bone Spring, Pennsylvanian (Atoka)

TRAP TYPE: Stratigraphic NATURE OF OIL: 36° Gravity API NATURE OF GAS:

NATUR	E OF PRODUCING Z	ONE WATER	l:			Resistivity:		0	hm-meters (Ð	°F.
	Total Solids	Na+K	Co	Mg	Fe	SO4	CI	CO3	HCO	ОН	H2S
ppm	234,000	66,000	14,000	7,000	Х	500	146,000	Х	150	X	X

INITIAL FIELD PRESSURE: 1750 psig

TYPE OF DRIVE: Solution Gas

NORMAL COMPLETION PRACTICES: Casing through pay zone. Perforation of selected intervals followed by sandfrac.

PRODUCTION DATA:

		No. of wells @ yr. end		Production					
Year 1956	T	Producing	Shut in	Gas in MMCF					
rear	Type	Froducing	or Abnd.	Annual	Cumulative				
	oil	1		954	954				
1956	gas			. 291	. 291				
	oil	8		44,184	45,138				
1957	gas	_		28.067	28.358				
	oil	40		319,534	368,907				
1958	gas			158.357	186.715				
	oil	69	1	629,250	1,007,446				
1959	gas			427.311	614.026				
	oil	91		362.566	1,370,012				
19 6 0*	gas			316,478	930, 504				

* 1960 Figure is production to July 1, 1960.

ROSWELL GEOLOGICAL SUCIEIT STMPUSIUM

Arkansas Junction (San Andres) Field Name: G. J. Savage Author: T-18-S. R-36-E Gulf Energy & Minerals Co.-US Location: Affiliation: County & State: Lea County, New Mexico August 1976 Date: Discovery Well: Aztec Oil & Gas Co. #1 Amerada State, NE/4 NW/4 12-T-18-S, R-36-E. Completed 6-12-66. P 20 BOPD and 20 BW Exploration Method Leading to Discovery: Recognition of possible pay zone from data obtained in drilling of deep test north of this discovery. San Andres dolomite Pay Zone: Depth & Datum Discovery Well: Top of perfs 4952 (-1169) San Andres Formation Name: Lithology Description: Dolomite, tan to white finely crystalline partly anhydritic with thin interbeds of sandstone, gray, very fine to fine-grained, subangular, fairly well sorted. Approximate average pay: <u>160</u> gross <u>24</u> net Productive Area ____560 ___acres Structural, with partial stratigraphic influence; i.e., with variable porosity Type Trap: and permeability. Reservoir Data: <u>6-12</u> % Porosity, <u>0.2</u> Md Permeability, <u>32</u> % Sw, <u>%</u> So 37.3° Gravity API Oil: Gas: __Na+K, <u>2880</u> Ca, ____Mg, <u>25900</u> Cl, <u>2500</u> SO4 , ____CO₂ , or HCO₃ , ____Fe Water:..... Specific Gravity_______ 0.21_____ ohms @ _____84____°F Initial Field Pressure: <u>1610</u> psi @ <u>-1293</u> datum Reservoir Temp. <u>112</u> °F Type of Drive: Solution gas and water Normal Completion Practices: Drill through pay zone, set casing, perforate, and wash with acid before sandfrac. Normal Well Spacing ____40 ____ Acres Type completion: Pumping Deepest Horizon Penetrated & Depth: Devonian at 10,600 feet (-6,805) Other Producing Formations in Field: Penrose member of Queen formation Production Data:

EAR	YPE	No. of @ yr	f wells . end	PRODU OIL IN GAS IN	JCTION BARRELS M M C F	EAR	YPE	No. 0 @ yı	f wells r. end	PROD OIL IN GAS IN	UCTION BARRELS I M M C F
≍	-	Prod.	S.I.or Abd.	ANNUAL	CUMULATIVE	7 7	-	Prod.	S.I.or Abd.	ANNUAL	CUMULATIVE
68	OIL	5		16,426	30,577	72	OIL	1	9	2,232	83,188
	GAS						GAS				
69	OIL	9		27,494	58,071	73	OIL	2	8	2,687	85,875
	GAS						GAS				
70	OIL	9	1	17,076	75,147	74	OIL	2	8	3,496	89,371
	GAS						GAS				
Z1	OIL	3	7	5,809	80,956	75	OIL	3	7	5,595	94,966
	GAS						GAS				

ATTACHMENT VIII

The proposed injection zone is a fine grained sand in the Delaware Formation. It has several sands with varying thickness. There is possible drinking water overlying the injection in the surface sands at a depth of 0-450'. There is no known source underlying the injection interval.

ATTACHMENT IX

No proposed stimulation.

ATTACHMENT XI

There are two active livestock water wells within one mile.

Well #1 UL P Section 12, T19S-R35E

Well #2 UL E Section 12, T19S-R35E

Analysis Attached



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Date: 22-Nov-02 T Company: Ray Westall V Lease: "NO" Water Well C State: New Mexico F Depth: 7.45 Specific Gravity 1.005 CATIONS Sodium (calc.) Calcium Magnesium Barium Potassium Iron ANIONS	Fest #: Vell #: #2 County: Let formation: Source: Te mg/l 711 80 49 < 25 < 10 1	<i>FESE</i> <i>mp</i> (F): <i>me/i</i> 30.9 4.0 4.0 4.0	C 12 195-R 626 ppm 707 80 48	35E
pH: 7.45 Specific Gravity 1.005 CATIONS Sodium (calc.) Calcium Magnesium Barium Potassium Iron	mg/i 711 80 49 < 25 < 10 1	mp (F): me/i 30.9 4.0 4.0 	62.6 ppm 707 80 48	
Specific Gravity 1.005 <u>CATIONS</u> Sodium (calc.) Calcium Magnesium Barium Potassium Iron ANIONS	mg/l 711 80 49 < 25 < 10 1	me/i 30.9 4.0 4.0	ppm 707 8 0 48	
<u>CATIONS</u> Sodium (calc.) Calcium Magnesium Barium Potassium Iron ANIONS	mg/i 711 80 49 < 25 < 10 1	me/i 30.9 4.0 4.0	ppm 707 80 48	
Sodium (calc.) Calcium Magnesium Barium Potassium Iron	711 80 49 < 25 < 10 1	30.9 4.0 4.0	707 80 48	
Calcium Magnesium Barium Potassium Iron ANIONS	80 49 < 25 < 10 1	4.0 4.0	80 48	
Magnesium Barium Potassium Iron ANIONS	49 < 25 < 10 1	4.0	48	
Barium Potassium Iron ANIONS	< 25 < 10 1			
Potassium Iron ANIONS	< 10 1			
ANIONS	1	0.0		
ANIONS		V .U	1	
Chloride	1200	33 0	110/	
Sulfate	30	06	30	
Carbonate	< 1		~~~~	
Bicarbonate	281	4.6	279	
Total Dissolved Solids(calc.)	2351		2339	
Total Hardness as CaCO3	400	8.0	398	
COMMENTS: Sample of so	lids appears	to be Iron S	Sulfide	
CALE ANALVER.				
2002 Eacher 22504 42 -	lation Conta		. 1. 114.	Demot
CaSO4 Factor 2408 c	HOUM Carboni	ate Scale Proi Scale Drobabili	bapility->	Remote
2400 (3		Arcia (, (Ob <i>90</i>)	y	Remote
	Stiff Plot			*******
60 50 40 30 20	10 00	10 20	30 40 50	60
Ca	i i i			HCO3
Mg Land Land				SO4
	 ;			

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Artesia	District Lat (505) 746-314	ooratory 0		
Date: 22-Nov-02 Company: Ray Westall Lease: "NO" Water Well State: New Mexico Depth:	Test #: Well #: #1 County: Le Formation: Source:	UL T	-P SE 195-R	C 12 35 E
pH: 8.2	6 Te	mp (F):	63	
CATIONS Sodium (calc.) Calcium Magnesium Barium Potassium Iron ANIONS Chloride Sulfate Carbonate Bicarbonate Total Dissolved Solids(calc.)	mg/l 1150 80 73 < 25 < 10 1 2000 69 < 1 146 3520	me/l 50.0 4.0 6.0 0.0 56.4 1.4 2.4	ppm 1139 79 72 1 1980 69 145 3485	
Total Hardness as CaCO3 <u>COMMENTS:</u> Sample of	500 f solids appears	10.0 to be Iron S	495 Sulfide	
SCALE ANALYSIS: CaCO3 Factor 11741.28 CaSO4 Factor 5614	3 Calcium Carbona 4 Calcium Sulfate 5	te Scale Proi icale Probab	bability-> ility>	R R
	Stiff Plot			
60 50 40 30 Ca Mg	20 10 00	10 20	30 40 50	

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ATTACHMENT XII

All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are: Yates Petroleum and BP/Arco. Each of the operators were provided a copy of our application by certified mail. Proof of notice is enclosed. The surface owner is the State of New Mexico.

PROOF OF PUBLICATION

Proof of publication is from the Hobbs Daily Sun and attached..

Certified Mail

Yates Petroleum 105 S. 4th St. Artesia, NM 88210 7000 0600 0024 2324 1650

BP 501 Westlake Park Blvd Houston, Tx 77079 7000 0600 0024 2324 1667

State of New Mexico, County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a 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 a supplement thereof for a period.

1

of ______

weeks.

_ 2002

- 2002

Beginning with the issue dated

October 29 2002 and ending with the issue dated

October 29

Parte) / h

Publisher Sworn and subscribed to before

me this <u>29th</u> day of

October

Yo n

Notary Public.

My Commission expires October 18, 2004 (Seal)

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

LEGAL NOTICE October 29, 2002

Ray Westall-Operator, P.O. Box 4, Loco Hills, New Mexico 88255 Phone (505)677-2370. Contact party of Ray Westall-Operator is Randall Harris, is seeking administrative approval from the New Mexico Oil Conservation Division to utilize a well located 1980 FNL & 660 FWL Section 7, Township 19 south, Range 36 East, Lea County, New Mexico known as the State NO #1 for water injection. Proposed injection is in the Delaware formation through perforations 5775-7248 feet. Expected maximum injection rate of 500 bbls per day at

800 psi. Interested parties must file objection or requests for hearing with the Oil Conservation Division, 1220 So. St. Francis Drive, Santa Fe, NM 87505 within 15 days of the notice. #19339

67100415000 67510367 Ray Westall Operating P.O. Box 4 LOCO HILLS, NM 88255



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