CAMPBELL, CARR, BERGE & SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL WILLIAM F. CARR BRADFORD C. BERGE MARK F. SHERIDAN WILLIAM P. SLATTERY

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SUITE I - 110 NORTH GUADALUPE POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE: (505) 988-4421

November 11, 1992 TELECOPIER: (505) 983-6043

HAND-DELIVERED

William J. LeMay, Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources State Land Office Building Santa Fe, New Mexico 87503

RECEIVED

Re:

Application of Yates Drilling for Expansion of its Cactus Queen (Voluntary) Unit Waterflood Project and for Qualification of the Expansion Area for the Recovered Oil Tax Rate Pursuant to the "New Mexico Enhanced Oil Recovery Act", Chaves County, New Mexico

Dear Mr. LeMay:

Enclosed are two copies of the application of Yates Drilling Company in the abovereferenced case on Oil Conservation Division Form C-108. A copy of this application with all attachments is being mailed today to the Hobbs District Office pursuant to the requirements of Oil Conservation Division Rules.

Yates Drilling Company requests that you treat this as its written application in the abovereferenced case which also includes Yates request for qualification of the expansion area covered by this application for the Recovered Oil Tax Rate pursuant to the New Mexico Enhanced Oil Recovery Act.

Your attention to this matter is appreciated.

Very truly yours,

WILLIAM F. CARR

ATTORNEY FOR YATES DRILLING

WFC:mlh Enclosures

cc w/o enc.: Mr. Doug Hurlbut

Yates Drilling Company 105 South Fourth Street Artesia, New Mexico 88210

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, •	EANTA FE, NEW MEXICO 8/501
APILIEA	TION FOR AUTHORIZATION TO INJECT NOV 1 2 1992 Case 10642
I.	Purpose: X Secondary Recovery PrespiceNSERVATION presion Disposal Storage Application qualifies for administrative approval? Yes X no
II.	Operator: Yates Drilling Company
	Address: 105 South 4th Street, Artesia, NM 88210
	Contact party: Tobin L. Rhodes Phone: (505) 748-1471
111.	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? \boxed{X} yes $\boxed{\ }$ no If yes, give the Division order number authorizing the project $\underline{R-9075}$.
٧.	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.
V11.	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.).
·VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
• х.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
×I.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Title Petroleum Engineer

__Date: <u>11-9-92</u>

Tobin L.

Signature:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

OIL CONSERVATION DIVISION FORM C-108 (SUPPLEMENT)

I. Purpose:

Application is made by Yates Drilling Company for authorization to inject water into the Queen formation underlying the boundaries of the proposed expansion area of the Cactus Queen Unit. The proposed expansion area consists of 320 acre, more or less, of Federal lands (Federal minerals, private surface) in units E, F, G, J, K, L, M and N (W/2, SW/4 of NE/4, NW/4 of SE/4) of Section 34, Township 12 South, Range 31 East, Chaves County, New Mexico. This project will be an expansion of the existing secondary recovery project with the objective of recovering hydrocarbons that will not and can not be recovered by primary means.

All of the wells in the expansion area are primary depleted or very near primary depletion. Our studies show that the injection of water into selected wells will result in the recovery of oil in economic quantities not otherwise recoverable. This project should provide economic benefits to all parties holding any type of interest in the expansion acreage.

Phone Number: (505) 748-1471

Tobin L. Rhodes

II Operator:

Yates Drilling Company 105 South Fourth Street Artesia, New Mexico 88210

a, New Mexico 88210 Contact:

III. Injection Well Data:

A well data sheet and schematic is included for each of the five proposed water injection wells. Each schematic demonstrates how the injection well will be configured if this application is approved

IV. Existing Project:

The proposed project is an expansion of the Cactus Queen Unit. Formation of the Cactus Queen Unit was approved by the New Mexico Oil Conservation Division December 14, 1989 by authority of order R-9075A. Permission to inject into selected wells within the Cactus Queen Unit was granted March 15, 1990 by authority of order R-9075B.

V. Ownership:

A lease ownership map is attached which identifies all wells and lease ownership within two miles of any of the five proposed injection wells. On this map the area of review has been identified by drawing a one half mile circle around each injection well.

VI. Well Data:

There are presently twelve wells, including the proposed injection wells that fall within the boundaries of the expansion area or within the area of review. There are no wells within the area of review that have been plugged and abandoned. There are three wells within the area of review that are active injecting wells, injecting water into the Queen formation. There are ten wells that are active producing oil wells, producing from the Queen formation. Available data for each of these wells is included in a well data sheet.

VII. Project Data:

- 1. The proposed daily average water injection rate is expected to be approximately 200 barrels per day for each of the five proposed injection wells. The maximum injection rate for any well will be based on fracture pressures as determined by step-rate pressure tests to be conducted on each injection well. The maximum injection rate is expected to be less than 400 barrels per day.
- 2. Unit produced water and fresh water from the supply well will be stored in covered fiberglass storage tanks. There is no immediate plan to accept water from any other sources.
- 3. Initially, injection wells may take water on a vacuum, but as the reservoir fills a positive surface injection pressure will be required to inject water. The maximum injection pressure will also be determined by the planned step-rate pressure tests. At no time prior to the step-rate tests will the injection pressure exceed a pressure limitation of 0.2 PSIG per foot of depth to the top of the injection interval.
- 4. The source of injection fluid will be produced water from producing wells within the unit and fresh water from the our fresh water well producing from the Ogollala Aquifer

5. The Ogollala has been the source of water for many Queen waterfloods for many years without significant compatibility problems. We have had compatibility tests run with no compatibility problems observed.

VIII. Geologic Data:

The Cactus Queen Unit and the proposed expansion area produce from the upper sandstone member of the Queen formation, upper Guadalupian series, Permian system. The average producing depth in the field is approximately 2990 feet.

The productive/injection interval, as indicated from a whole core analysis on the Cactus Queen Unit #6 (330' FNL & 1980' FEI, 34-12S-31E, Chaves County, New Mexico) and from sidewall cores from numerous wells, is fine grained, friable, gray, quartz sandstone. The grains are subangular to subrounded and well sorted. The cementing materials are anhydrite and dolomite. The exact depositional environment is unknown. Porosity and permeability are intergrandular in nature. The sandstone is not naturally fractured.

The Cactus Queen Unit reservoir is a stratigraphic trap. Cementation of the sandstone results in the loss of porosity and permeability, creating a barrier on all sides with the exception of the east. An oil/water contact has been established on the eastern edge of the reservoir.

The primary source of fresh water in this area is the Ogollala formation of Tertiary age, the base of which is estimated to be 300 feet below the surface. This aquifer is protected behind the surface casing and cement of all the unit wells and proposed unit wells. The Chinlee formation is also a fresh water aquifer which immediately underlies the Ogollala formation. The base of the Chinlee is estimated to be approximately 500 feet below the surface in the unit area. The Chinlee is behind the surface casing of all existing wells in the area.

IX. Stimulation Program:

Each of the currently producing wells has previously received a fracture treatment. The details of these treatments are outlined in the data sheet for each individual well. There are no plans to stimulate any of the existing wells which will be producing wells in this project.

The wells which will be injection wells may require a small clean-up acid treatment prior to injection. We plan to treat each of the proposed injection wells with 500 to 1000 gallons of 7-1/2% hydrochloric acid. This treatment should insure that existing perforations are open and that each well will accept water at the lowest possible pressure.

X. Well Logs:

Well logs for each of the existing wells in the proposed expansion area have previously been submitted to the Hobbs office of the NMOCD.

XI. Fresh Water:

The office of the State Engineer in Roswell has a record of seven wells within one mile of the proposed unit expansion area. The exact total depth of all of the wells is unknown, however all wells are assumed to be producing from the Ogollala formation. Analysis reports from three of the wells are attached.

XII. <u>Injection Zone Isolation:</u>

Available engineering and geologic data has been examined and no evidence of open faulting or any other hydrologic connection between the injection zone and any underground source of drinking water has been found.

XIII. Proof of Notice:

A listing of off-set leasehold operators within one half mile of any proposed injection well and the surface owner(s) that have received a copy of this application by certified mail is attached.

XIV. Certification:

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

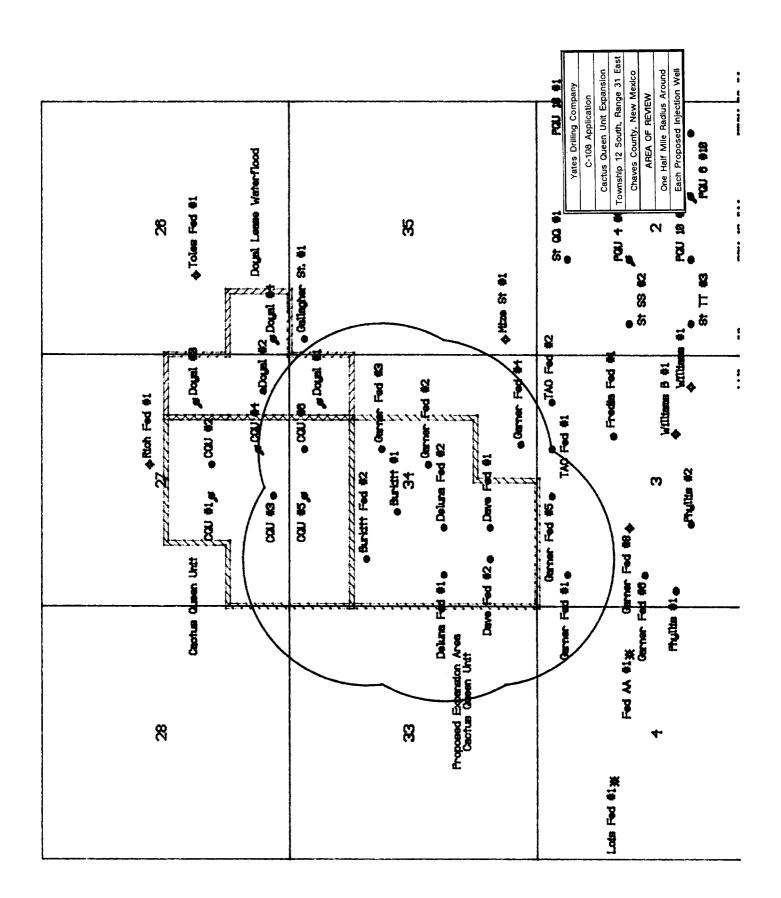
Tobin L. Rhodes

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Petroleum Engineer

November 9, 1992

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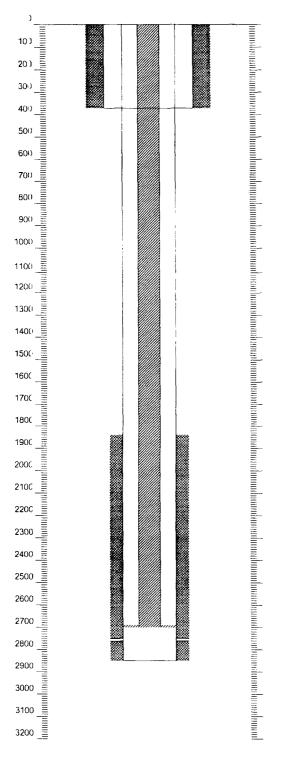


LEASE: WELL #: FOOTAGE; 3EC-TWN-RNG, COUNTY, STATE: SPUD DATE: COMPLETION DATE: CURRENT STATUS:	Yates Drilling Company Burkitt Federal 1 2310' fnl & 1980' fel 34-12S-34E, Chaves County, New Mex 23-Mar-84 7-Apr-84 Active producing well - Queen Active producing well - Queen	ico		
CASING WEIGHT: CASING GRADE: DEPTH SET: CEMENTED USED: TOP OF CEMENT:	8.625 INCHES 24.000 POUNDS/FOOT J-55 450 FEET 300 SACKS 0 FEET circulate 12.250 INCHES	PRODUCTION CASING CASING SIZE: CASING WEIGHT: CASING GRADE: DEPTH SET: CEMENTED USED: TOP OF CEMENT: DETERMINED BY: HOLE SIZE: TOTAL DEPTH: PLUGGED BACK TD:	14.000 POUNDS/FOOT J-55 3,080 FEET 360 SACKS 1,650 FEET np. survey	
COMMENTS:	2,874 FEET Perforated 750 gallons 15% HCL acid plus 20,000 16,500 pounds of 20/40 sand, 6000 po	INTERVAL BOTTOM:	2,882 FEET	
INJECTION TUBING (if an in TUBING SIZE: PACKER:	igection well) NA INCHES NA	LINING: <u>NA</u> DEPTH TO BE SET: <u>NA</u>	FEET	
This well was originally	of for injection? was the well originally drilled? redrilled as a Queen producing well.			_
No List all such perforate None 5. Give depth to and nam There has never been	e of any overlying and/or underlying oil	or gas zones (pools) in this area.		
this well. 6. If well is plugged and a Not applicable.	bandoned, list details of plugging and a	attach schematic.		

		Yates Drilling Company			
		Burkitt Federal			
		2 1650' fnl & 990' fwl			
'-TWNLI		34-12S-34E, Chaves County, No	ew Mexico		
,- 1 4414 -1	SPUD DATE:	5-May-84	- WICKIEU		
	COMPLETION DATE:	10-Jul-84			
		Active producing well - Queen			
	PROPOSED STATUS:	Active injection well - Queen			
SU	RFACE CASING		PROD	UCTION CASING	
	THE SHORTS		11100	ochor onome	
	CASING SIZE:	8.625 INCHES		CASING SIZE:	5.500 INCHES
	CASING WEIGHT	24.000 POUNDS/FOOT		CASING WEIGHT:	14.000 POUNDS/FOOT
	CASING GRADE	J-55		CASING GRADE:	<u>J-55</u>
	DEPTH SET	370 FEET		DEPTH SET:	
	TOP OF CENTENT	J-55 370 FEET 375 SACKS 0 FEET		CEMENTED USED:	230 SAUKS
	DETERMINED BY	circulate		TOP OF CEMENT:	1,678 FEET CBL
		12.250 INCHES		HOLE GIZE	7.875 INCHES
	HOLL SIZE	TELEGO INCINC		TOTAL DEPTH:	2 850 FEFT
				PLUGGED BACK TD:	
	IECTION OF PROPURING	INTERVAL	 		
INL	JECTION OR PRODUCING				
		2,754 FEET		INTERVAL BOTTOM:	2,760 FEET
	COMMENTS		4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
	PHEVIOUS STIMULATION	750 gallons 15% HCL acid plus			
_	DODOSED 07:400 17:50	14,500 pounds of 20/40 sand,	2,500 pounds of 12/20) sand	
P	KOPOSED STIMULATION	: 500-1000 gallons of 7-1/2% HC		ations	
IN.	JECTION TUBING (if an in	njection well)	Lacid to clean perfor	audis	
IN.	TURING SIZE	njection well) 2.375 INCHES Nickel plated tension packer		UNING: plas	ticFEET
	TUBING SIZE PACKER	2 375 INCHES		UNING: plas	ticFEET
	TURING SIZE	2 375 INCHES		UNING: plas	ticFEET
от	TUBING SIZE PACKER	2.375 INCHES Nickel plated tension packer		UNING: plas	ticFEET
OT 1.	TUBING SIZE PACKER THER DATA Name of injection or p	2.375 INCHES Nickel plated tension packer roducing interval.		UNING: plas	tic 2,704 FEET
OT 1. 2.	TUBING SIZE PACKER THER DATA Name of injection or p Queen Name of field or pool	2.375 INCHES Nickel plated tension packer roducing interval. (if applicable).		UNING: plas	ticFEET
OT 1. 2.	TUBING SIZE PACKER THER DATA Name of injection or paceen Name of field or pool SE Chaves Queen Is this a new well drille No. If no, for what purpose	2.375 INCHES Nickel plated tension packer roducing interval. (if applicable).		UNING: plas	ticFEET
OT 1. 2. 3.	TUBING SIZE PACKER THER DATA Name of injection or poueen Name of field or pool SE Chaves Queen Is this a new well drille No. If no, for what purpose This well was original	2.375 INCHES Nickel plated tension packer roducing interval. (if applicable), ed for injection?		UNING: plas	tic
OT 1. 2. 3.	TUBING SIZE PACKER THER DATA Name of injection or poueen Name of field or pool SE Chaves Queen Is this a new well drille No. If no, for what purpose This well was originally that well ever been per No.	2.375 INCHES Nickel plated tension packer roducing interval. (if applicable). ed for injection? e was the well originally drilled? y drilled as a Queen producing v	well.	UNING: plas	tic
OT 1. 2. 3.	TUBING SIZE PACKER THER DATA Name of injection or poueen Name of field or pool SE Chaves Queen Is this a new well drille No. If no, for what purpose This well was original. Has well ever been pe No List all such perforate None Give depth to and name	2.375 INCHES Nickel plated tension packer roducing interval. (if applicable). ed for injection? e was the well originally drilled? y drilled as a Queen producing v	well. tails (sacks of cement	UNING: plas DEPTH TO BE SET: t or bridge plug(s) used). (pools) in this area.	2,704 FEET
OT 1. 2. 3.	TUBING SIZE PACKER THER DATA Name of injection or pacen Name of field or pool SE Chaves Queen Is this a new well drille No. If no, for what purpose This well was original was original was original was a such perforate None Give depth to and name There has never been	2.375 INCHES Nickel plated tension packer roducing interval. (if applicable). ed for injection? e was the well originally drilled? y drilled as a Queen producing vertorated in any other zones? d intervals and give plugging define of any overlying and/or underlying and/or und	well. tails (sacks of cement	UNING: plas DEPTH TO BE SET: t or bridge plug(s) used). (pools) in this area.	2,704 FEET
OT 1. 2. 3. 4.	TUBING SIZE PACKER THER DATA Name of injection or poueen Name of field or pool SE Chaves Queen Is this a new well drille No. If no, for what purpose This well was original. Has well ever been pe No List all such perforate None Give depth to and nam There has never been this well.	2.375 INCHES Nickel plated tension packer roducing interval. (if applicable). ed for injection? e was the well originally drilled? y drilled as a Queen producing vertorated in any other zones? d intervals and give plugging define of any overlying and/or underlying and/or und	veil. tails (sacks of cement ying oil or gas zones tion other than the Qu	UNING: plas DEPTH TO BE SET: t or bridge plug(s) used). (pools) in this area. een in the area surrounding	2,704 FEET

BURKITT FEDERAL #2

E34-12S-31E CHAVES COUNTY, NM



370', 8-5/8" 24# J-55 CASING, CEMENTED WITH 375 SACKS, CIRCULATED

1840', TOP OF CEMENT AS DETERMINED BY TEMPERATURE SURVEY

2704', APPROXIMATE INJECTION PACKER DEPTH

2754'-2760', PERFORATIONS, 12 HOLES

2850', TD, 5-1/2" 14&15.5# J-55 CASING @ 2840', CEMENTED WITH 250 SACKS

	00504705	Votes Deillie Com			
II		Yates Drilling Company Cactus Queen Unit			
	WELL #:	3			
050 muu ni		1650' fsl & 2310' fel			
SEC-TWN-RIV	NG, COUNTY, STATE: SPUD DATE:	27-12S-34E, Chaves County, New Me	xico		1
	SPUD DATE: COMPLETION DATE:	23-Aug-85			
	CURRENT STATUS:	Active producing well - Queen			
1)	PROPOSED STATUS:	Active producing well - Queen		_ 	1
L	·				
SURI	FACE CASING		PRODUCTION CASING		
II.	CASING MEIGHT	8.625 INCHES 24.000 POUNDS/FOOT	CASING MEICHT:	405.000 INCHES	ļ
	CASING GRADE:	J-55	CASING WEIGHT:	10.500 POUNDS/FOOT J-55	
	DEPTH SET	454 FEET	CASING GRADE: DEPTH SET:	3,150 FEET	
II.	CEMENTED USED:	454 FEET 250 SACKS 0 FEET	CEMENTED USED: TOP OF CEMENT: DETERMINED BY:	575 SACKS	İ
	DETERMINED BY:	circulate	DETERMINED BY:	CRI	
	HOLE SIZE:	circulate 12.250 INCHES	U∩ E 617E+	7 PTE INICHES	
			TOTAL DEPTH:	3,150 FEET	
			TOTAL DEPTH:	3,150 FEET	
INJE	CTION OR PRODUCING	INTERVAL			
		2,984 FEET	INTERVAL BOTTOM:	2,991 FEET	
PF		Perforated 12,000 gallons gelled water, 4,000 CO	@, 10,500 pounds 20/40 sand and 10,000	pounds	
		12/20 sand			
PR	OPOSED STIMULATION	None			
L					
INJE	CTION TUBING (if an in	niection well)			
		,,			
		INCHES	UNING: NA		
	PACKEH	: <u>NA</u>	DEPTH TO BE SET: NA	FEE	
отн	ER DATA				
II	Name of injection or p Queen	roducing interval.			
•	GGCCII				
	Name of field or pool	(if applicable).			
	SE Chaves Queen	· · · · · · · · · · · · · · · · · · ·			
3.	s this a new well drille	ed for injection?			
₩ .	No.		 		
1	If no for what nurnose	e was the well originally drilled?			
		y drilled as a Queen producing well.			
]]					
1 4	Has well ever been ne	forated in any other zones?			
11	No				
	None	d intervals and give plugging details (s	acks of cement or bridge plug(s) used).		
	,,,,,,,				
5. (e of any overlying and/or underlying of	il or gas zones (pools) in this area. her than the Queen in the area surrounding		
II.	this well.	any production from any formation of	ner than the queen in the area surrounding	<u> </u>	
H					
6	If well is plugged and	abandoned, list details of plugging and	attach schematic.		
J	Not applicable.	The state of plagging and			
II					

		Yates Drilling Company		
		Cactus Queen Unit		
	FOOTAGE;	660' fsl & 1980' fel		
SÉC-TWN-F		27-12S-34E, Chaves County, New M	1exico	
	COMPLETION DATE:			
		Active injection well - Queen Active injection well - Queen		
]	THO OSED STRICS.	Active injection well dident		
<u> </u>				
	DE 40E 010110		DESCRIPTION OF SING	
Sul	RFACE CASING		PRODUCTION CASING	
1	CASING SIZE:	8.625 INCHES	CASING SIZE:	
	CASING GRADE:	24.000 POUNDS/FOOT J-55	CASING WEIGHT: CASING GRADE:	
1	DEPTH SET:	424 FEET	DEPTH SET:	3,099 FEET
	TOP OF CEMENT:	250 SACKS 0 FEET	CEMENTED USED:	1,900 FEET
l	DETERMINED BY:	circulate	TOP OF CEMENT: DETERMINED BY: ter	np survey
	HOLE SIZE:	12.250 INCHES	HOLE SIZE: TOTAL DEPTH:	7.875 INCHES 3.100 FEFT
			PLUGGED BACK TD:	
1				
INJ	ECTION OR PRODUCING	INTERVAL		
	INTERVAL TOR	2,987 FEET	INTERVAL POTTOM.	0.000 EEET
	COMMENTS:	Perforated	INTERVAL BOTTOM:	
1	PREVIOUS STIMULATION:	750 gallons of 15 % HCL plus 15,00 13,000 pounds of 20/40 sand and 9	00 gallons of gelled water, 1,000 SCF/BBL of	CO2,
Р	ROPOSED STIMULATION:		,000 pounds of 20/40 sand	
				
l IN	JECTION TUBING (if an ir	piaction wall		
	•			
li .	TUBING SIZE:	2.375 INCHES nickel plated tension packer	LINING: plastic DEPTH TO BE SET:	2,026 ECET
	, nonen	Thores plated terrology pucker	BEI 11 10 BE 3E1	2,530 (LL)
				
ОТ	HER DATA			
1.	Name of injection or pr	oducing interval.		
	Queen			
2.	Name of field or pool ((if applicable).		
	SE Chaves Queen			
3.	Is this a new well drille	d for injection?		
	No.			
		e was the well originally drilled?		
	This well was originally	y drilled as a Queen producing well.		
4.	Has well ever been per No	forated in any other zones?		
				
1	List all such perforate None	d intervals and give plugging details	(sacks of cement or bridge plug(s) used).	
5	Give death to and nam	e of any overlying and/or underlying	oil or gas zones (pools) in this area.	
]	There has never been		other than the Queen in the area surrounding	
1	this well.			
6	If well is plugged and	abandoned, list details of plugging an	d attach schematic	
 	Not applicable.	apansoned, not details or plugging all	a attach sellemate.	
11				

	OR; Yates Drilling Company			
	SE: Cactus Queen Unit #: 5			
	GE; 330' fnl & 2310' fwl			
BEC-TWN-RNG, COUNTY, STA	TE: 34-12S-34E, Chaves County, New M	lexico		
	TE: 9-Aug-85			
	TE: 1-Oct-85 US: Active injection well - Queen			
	US: Active injection well - Queen			
I MOROSED STAT	OS. ACUVE INJECTION WELL COLORS			
CUREAGE CACINO		PRODUCTION OF CINO		
SURFACE CASING		PRODUCTION CASING		
CASING SI	ZE: 8.625 INCHES	CASING SIZE:	5.500 INCHES	
CASING WEIG	HT. 24 DOO POUNDS/FOOT	CASING WEIGHT:	5.500 INCHES 14.000 POUNDS/FOOT	
CASING GRA	DE: <u>J-55</u>	CASING GRADE:	J-55	
DEPTH S	DE: J-55 SET: 424 FEET SED: 270 SACKS NT: 0 FEET BY: circulate	CASING GRADE:	3,083 FEET	
CEMENTED US	ED: <u>270</u> SACKS	CEMENTED USED:	260 SACKS	
10P OF CEME	NI: U FEET	TOP OF CEMENT:	1,640 FEET	
HOLES	IZE: 12.250 INCHES	DETERMINED BY:	7 875 INCHES	
Hote 3	72.230 INCHES	HOLE SIZE: TOTAL DEPTH:	3.100 FFFT	
		PLUGGED BACK TD:	3.083 FFET	
			·	
		-		
INJECTION OF PRODUCI	NG INTERVAL			
	TOP: 2,988 FEET	INTERVAL BOTTOM:		
	TS: Perforated			
PREVIOUS STIMULATI		15,000 gallons of gelled water, 24 tons of CO	02,	
PROPOSED STIMULATI		,000 pounds of 12/20 sand		
PROFUSED STINIOLATI	ON. None			
		-		
IN FORM THOMAS OF				
INJECTION TUBING (if a	n injection well)			
TUBING S	IZE: 2.375 INCHES	LINING: plast	ic	
PACH	KER: Aluminum bronze tension packer	DEPTH TO BE SET:	2,921 FEET	
				
<u></u>				
OTHER DATA				
J STILL BATT				
 Name of injection o 	r producing interval.			
Queen				
2. Name of field or po	of (if applicable).			
SE Chaves Queen		 		
3. Is this a new well d	trilled for injection?			
No.	Thica for injection.			
-				
If no, for what purp	oose was the well originally drilled?			
This well was origi	nally drilled as a Queen producing well.			
4 1 11				
No	perforated in any other zones?			
NO				
List all such perfor	rated intervals and give plugging details	(sacks of cement or bridge plug(s) used).		
None				
5 50 1				
	name of any overlying and/or underlying			
this well.	sen any production from any formation of	other than the Queen in the area surrounding		
uns wen.				
				
	nd abandoned, list details of plugging an	d attach schematic.		
Not applicable.				

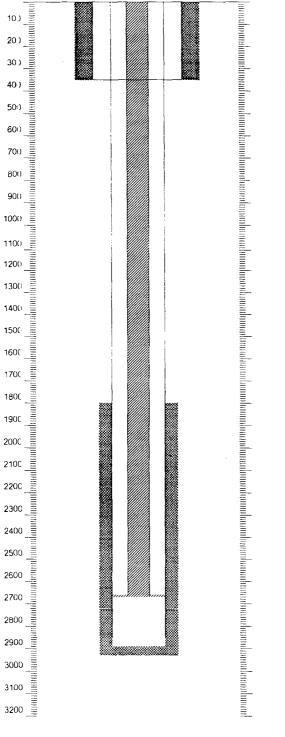
		Yates Drilling Company Cactus Queen Unit			
	WELL #:				
		30' fnl & 1980' fel			
C-TWN-RN		14-12S-34E, Chaves County, N	ew Mexico		
	COMPLETION DATE:	11-Feb-85 20-Mar-85			
		Active producing well - Queen			
		Active producing well - Queen			
SURF	FACE CASING		PRODUCT	TION CASING	
	040110 0.75	0.005 (1)(0)(50		040004 0175	
	CASING SIZE: _	8.625 INCHES 24.000 POUNDS/FOOT		CASING SIZE:	5.500 INCHES 14.000 POUNDS/FOOT
	CASING GRADE:	J-55		CASING GRADE:	J-55
	DEPTH SET:	433 FEET		DEPTH SET:	3,094 FEET
	CEMENTED USED:	433 FEET 300 SACKS 0 FEET		CEMENTED USED:	410 SACKS
	DETERMINED BY:	circulate		TOP OF CEMENT: DETERMINED BY:	1,900 FEET CBL
	HOLE SIZE:	12.250 INCHES		HOLE SIZE:	7.875 INCHES
	_			TOTAL DEPTH:	3,100 FEET
			P	LUGGED BACK TD:	3,094 FEET
INJEC	CTION OR PRODUCING II	NTERVAL			
	INTERVAL TOP:	2,987 FEET	II	NTERVAL BOTTOM:	2,993 FEET
	COMMENTS: I	Perforated			
PR	REVIOUS STIMULATION:	750 gallons of 15% HCL acid (olus 15,000 gallons of ge	fled water, 23.5 tons of	CO2
PR	_		and 10 000 nounds of 40.	ZU SQUU	
1.110	OPOSED STIMULATION:		and 10,000 pounds of 10,		
 -	CTION TUBING (if an inje	None	and 10,000 pounds of 10,		
 -	CTION TUBING (if an inje	ection well)		LINING: NA DEPTH TO BE SET: NA	FEET
INJEC	CTION TUBING (if an inje TUBING SIZE: PACKER:	ection well)		LINING: NA	FEET
INJEC	CTION TUBING (if an inje TUBING SIZE: _ PACKER: _	None ection well) NA INCHES NA		LINING: NA	FEET
OTHE	CTION TUBING (if an inje TUBING SIZE: PACKER:	None ection well) NA INCHES NA		LINING: NA	FEET
OTHE	CTION TUBING (if an injection or pro	ection well) NA INCHES NA ducing interval.		LINING: NA	FEET
OTHE	CTION TUBING (if an injection or pro	ection well) NA INCHES NA ducing interval.		LINING: NA	FEET
OTHE 1. N 2. N 3. Is	TUBING (if an injection or pro-	None ection well) NA INCHES NA ducing interval. applicable).		LINING: NA	FEET
OTHE 1. N 2. N 3. Is	TUBING (if an injection or proof field or pool (if SE Chaves Queen No. of the following the followin	None ection well) NA INCHES NA ducing interval. applicable).		LINING: NA	FEET
OTHE 1. N 2. N 3. Is	TUBING (if an injection or proof of the control of	None Pection well) NA INCHES NA ducing interval. applicable). for injection? was the well originally drilled?		LINING: NA	FEET
OTHE 1. N 2. N 3. Is 4. H	TUBING (if an injection or profueen Name of injection or profueen SE Chaves Queen s this a new well drilled No. If no, for what purpose This well was originally Has well ever been perfollog	None Pection well) NA INCHES Aducing interval. applicable). for injection? was the well originally drilled? drilled as a Queen producing of	well.	LINING: <u>NA</u> DEPTH TO BE SET: <u>NA</u>	FEET
OTHE 1. N 2. N 3. Is 4. H 5. G	TUBING (if an injection or profuser) SER DATA Name of injection or profuser Name of field or pool (if SE Chaves Queen) Is this a new well drilled No. If no, for what purpose This well was originally Has well ever been performed None List all such perforated None	None Pection well) NA INCHES Aducing interval. applicable). for injection? was the well originally drilled? drilled as a Queen producing value or a grated in any other zones?	vell. tails (sacks of cement or	UNING: NA DEPTH TO BE SET: NA r bridge plug(s) used).	
OTHE 1. N 2. N 3. Is 4. H 5. G	TUBING (if an injection or profuser) Rame of injection or profuser SE Chaves Queen Is this a new well drilled No. If no, for what purpose This well was originally List all such perforated None Sive depth to and name There has never been as never be	ection well) NA INCHES Aducing interval. applicable). for injection? was the well originally drilled? drilled as a Queen producing value and give plugging de of any overlying and/or underlying and/or unde	vell. tails (sacks of cement or	UNING: NA DEPTH TO BE SET: NA r bridge plug(s) used).	
OTHE 1. N 2. N 3. Is 4. H 5. G	TUBING (if an injection or profession of field or pool (if SE Chaves Queen states a new well drilled No. If no, for what purpose This well was originally has well ever been perfole No. List all such perforated None Sive depth to and name There has never been a this well.	ection well) NA INCHES Aducing interval. applicable). for injection? was the well originally drilled? drilled as a Queen producing value and give plugging de of any overlying and/or underlying and/or unde	vell. tails (sacks of cement or ying oil or gas zones (prition other than the Queer	LINING: NA DEPTH TO BE SET: NA r bridge plug(s) used). cols) in this area. In in the area surrounding	

				
		Yates Drilling Company		
		Dave Federal 1		
	FOOTAGE;	990' fsl & 990' fwl		
3EC-TWN-F		34-12S-34E, Chaves County, New	Mexico	
	SPUD DATE: COMPLETION DATE:	9-Feb-84		
	CURRENT STATUS:	Active producing well - Queen		
	PROPOSED STATUS:	Active producing well - Queen		
L				
SUF	RFACE CASING		PRODUCTION CASING	
1	CASING SIZE:	8.625 INCHES	CASING SIZE:	5 500 INCHES
	CASING WEIGHT:	24.000 POUNDS/ECOL	CASING WEIGHT:	14.000 POUNDS/FOOT
11	CASING GRADE:	J-55	CASING GRADE:	J-55
[DEPTH SET:	368 FEET	DEPTH SET:	2,925 FEET
ii .	TOP OF CEMENT:	J-55 368 FEET 265 SACKS 0 FEET circulate	CEMENTED USED: TOP OF CEMENT:	1,800 FEET
l	DETERMINED BY:	circulate	DETERMINED BY: Tem	p. survey
II.	HOLE SIZE:	12.250 INCHES	HOLE SIZE: TOTAL DEPTH:	7.875 INCHES
			PLUGGED BACK TD:	2,925 FEET
			TEGGGED BACK 70.	2,020
INI	ECTION OR PRODUCING	INTERVAL	· · · · · · · · · · · · · · · · · · ·	
1143				
ll		2,723 FEET	INTERVAL BOTTOM:	2,730 FEET
	:COMMENTS •REVIOUS STIMULATION		5,000 gallons gelled water, 5,000 pounds CO2,	
∦ '	TIEVIOUS STIMUETION.	16,500 pounds of 20/40 sand, 6,00		
P	ROPOSED STIMULATION:	500-1000 gallons of 7-1/2% HCL to		
LNI	IECTION TUBING (if an in TUBING SIZE: PACKER:	njection well) 2.375 INCHES Nickel plated tension packer	UNING: <u>plastic</u> DEPTH TO BE SET:	2,673 FEET
оті	HER DATA			
1.	Name of injection or pr	oducing interval.		
2.	Name of field or pool (if applicable).		
3.	is this a new well drille	d for injection?		
		e was the well originally drilled? y drilled as a Queen producing well.	· · · · · · · · · · · · · · · · · · ·	
4.	Has well ever been per	rforated in any other zones?		
	List all such perforate	d intervals and give plugging details	s (sacks of cement or bridge plug(s) used).	
5.			g oil or gas zones (pools) in this area. other than the Queen in the area surrounding	
6.	If well is plugged and a	abandoned, list details of plugging a	and attach schematic.	

LEASE: WELL #: FOOTAGE; SEC-TWN-RNG, COUNTY, STATE: SPUD DATE: COMPLETION DATE: CURRENT STATUS:	Yates Drilling Company Dave Federal 2 990' fsl. & 990' fwl 34-12S-34E, Chaves County, New Mexic 21-Jan-84 9-Feb-84 Active producing well - Queen Active producing well - Queen		
SURFACE CASING CASING SIZE: CASING WEIGHT: CASING GRADE: DEPTH SET: CEMENTED USED: TOP OF CEMENT: DETERMINED BY: HOLE SIZE	8.625 INCHES 24.000 POUNDS/FOOT J-55 368 FEET 265 SACKS 0 FEET circulate 12.250 INCHES	PRODUCTION CASING CASING SIZE: CASING WEIGHT: CASING GRADE: DEPTH SET: CEMENTED USED: TOP OF CEMENT: DETERMINED BY: HOLE SIZE: TOTAL DEPTH: PLUGGED BACK TD:	2,925 FEET 250 SACKS 1,800 FEET p. survey 7,875 INCHES
COMMENTS PREVIOUS STIMULATION	2,723 FEET Perforated 750 gallons 15% HCL acid plus 15,000 16,500 pounds of 20/40 sand, 6,000 po 500-1000 gallons of 7-1/2% HCL to clea		
TUBING SIZE	2.375 INCHES Nickel plated tension packer	LINING: <u>plastic</u> DEPTH TO BE SET:	2,673 FEET
This well was original 4. Has well ever been pe No List all such perforate None 5. Give depth to and name	if applicable). In defor injection? In was the well originally drilled? In y drilled as a Queen producing well. Inforated in any other zones? Indicated in any other plugging details (saddle) In of any overlying and/or underlying oil and one of any overlying and/or underlying oil and of the plugging details (saddle)		
6. If well is plugged and Not applicable.	abandoned, list details of plugging and a	ttach schematic.	

DAVE FEDERAL #2

M34-12S-31E CHAVES COUNTY, NM



265', 8-5/8" 24# J-55 CASING, CEMENTED WITH 265 SACKS, CIRCULATED

1800', TOP OF CEMENT AS DETERMINED BY TEMPERATURE SURVEY

2673', APPROXIMATE INJECTION PACKER DPETH

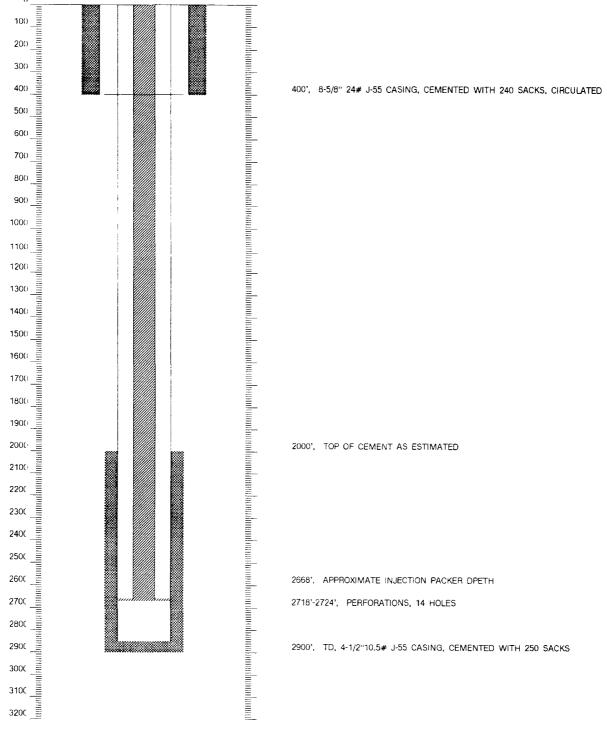
2723'-2730', PERFORATIONS, 14 HOLES

2925', TD, 5-1/2"14.5# J-55 CASING, CEMENTED WITH 250 SACKS

OPERATO	R; Yates Drilling Company		
	E: DeLuna Federal		
	#: 1		
	E; 1980' fsi & 660' fwl		
	E: 34-12S-34E, Chaves County, New Mex	dco	
SPUD DAT	E: <u>2-Jul-82</u>		
COMPLETION DAT	E: <u>1-Sep-82</u>		
	S: Active producing well - Queen		
PROPOSED STATU	S: Active injection well - Queen		
SURFACE CASING		PRODUCTION: OACING	
SURFACE CASING		PRODUCTION CASING	
CASING SIZ	PE: 8.625 INCHES	CASING SIZE	4 500 INCHES
CASING WEIGH	PE: 8.625 INCHES IT: 24.000 POUNDS/FOOT	CASING WEIGHT:	10.500 POLINDS/FOOT
CASING GRAF	DE: J-55	CASING GRADE	L55
DEPTH SE	T: 400 FEET	DEPTH SET:	4.500 INCHES 10.500 POUNDS/FOOT J-55 2,900 FEET
CEMENTED USE	D: 240 SACKS	CEMENTED USED:	250 SACKS
TOP OF CEMEN	E: J-55 ET: 400 FEET D: 240 SACKS IT: 0 FEET EXTERNAL TO SEET EXECUTE: 12 250 NICHES	TOP OF CEMENT:	? FFFT
DETERMINED 8	Y: circulate	TOP OF CEMENT: DETERMINED BY:	
HOLE SIZ	2E: 12.250 INCHES	HOLE SIZE:	7.875 INCHES
	· 	DETERMINED BY: HOLE SIZE: TOTAL DEPTH: PLUGGED BACK TD:	2,900 FEET
1		PLUGGED BACK TD:	2,900 FEET
			
INJECTION OR PRODUCIN	IC INTERVAL		
INSECTION OF PRODUCIN	G INTERVAL		
INTERVAL TO	DP: 2,718 FEET	INTERVAL POTTOM:	2.724 CEET
	S: Perforated	INTERVAL BOTTOM:	
		00 gallons gelled water, 5,000 scf CO2,	
THE VICUS STIMOGRAD	7,000 pounds of 20/40 sand, 6,800 po		
PROPOSED STIMULATIO	N: 500-1000 gallons of 7-1/2% HCL acid		
		to deal portorations	
INJECTION TUBING (if an	injection well)		
TUBING SIZ	ZE: 2.375 INCHES	LINING: <u>plast</u> DEPTH TO BE SET:	<u>ic</u>
PACKE	R: Nickel plated tension packer	DEPTH TO BE SET:	2,668_FEET
			
1			
OTHER DATA			
l strict strict			
Name of injection or	producing interval.		
Queen			
1			
2. Name of field or poo	l (if applicable).		
SE Chaves Queen			
1			
3. Is this a new well dr	illed for injection?		
<u>No.</u>		······································	
If no, for what purpo	ose was the well originally drilled?		
This well was origin	ally drilled as a Queen producing well.		
This Well Was Origin	any drined as a casen producing west.		
If no, for what purporthis well was origin 4. Has well ever been poorthis No List all such perforations			
4. Has well ever been p	perforated in any other zones?		
No	•		
			
List all such perfora	ited intervals and give plugging details (sa	acks of cement or bridge plug(s) used).	
None			
	ame of any overlying and/or underlying oil		
	en any production from any formation oth	ner than the Queen in the area surrounding	
this well.			
U			
			
(k.110) (10)	d abandonad that date the of all and		
6. If well is plugged and Not applicable.	d abandoned, list details of plugging and	auach schemauc.	
ног аррисавте.			
<u> </u>			
19			

DELUNA FEDERAL #1

L34-12S-31E CHAVES COUNTY, NM



]					
	00504700	V.A. 0.99			
1		Yates Drilling Company			
li .		DeLuna Federal	 		
li .	WELL #:				
SEC THAT DAY		1980' fsl & 1650' fwl 34-12S-34E, Chaves County, New Mexic			
SECTIVIN-NING		7-Feb-84	co		
li .	COMPLETION DATE:				
		Active producing well - Queen			
	PHOPOSED STATUS.	Active producing well - Queen			
1					
					
SURFA	ACE CASING		PRODUCTION CASING		
			, modernom ontome		
	CASING SIZE:	8.625 INCHES	CASING SIZE:	5.500 INCHES	
	CASING WEIGHT:	24.000 POUNDS/FOOT	CASING WEIGHT:	14.000 POUNDS/FOOT	
ļ	CASING GRADE:	J-55	CASING GRADE:		
li .	DEPTH SET:	J-55 374 FEET 275 SACKS 0 FEET	DEPTH SET:		
l	CEMENTED USED:	275 SACKS	CEMENTED USED:	250 SACKS	
]]	TOP OF CEMENT:	0 FFFT	TOP OF CEMENT:		
	DETERMINED BY:	circulate	DETERMINED BY: Ten		
	HOLE SIZE:	12.250 INCHES	HOLE SIZE:		
			TOTAL DEPTH:		
			PLUGGED BACK TD:		
			resided and rot	2,010 1 001	
					
INJECT	TION OR PRODUCING	INTERVAL			
	INTERVAL TOP:	2,773 FEET	INTERVAL BOTTOM:	2.781 FEET	
		Perforated	EHVAE 80110WI	2,101	
ll PRE		750 gallons 15% HCL acid plus 20,000	gallons gelled water 25% CO2		
		16,000 pounds of 20/40 sand, 6,000 pc			
PROF	POSED STIMULATION:				
INJEC*	TION TUBING (if an in	njection well)			
INJEC.	TION TUBING (if an ir	njection well)			
injec.	•		LINING: NA		
INJEC.	TUBING SIZE	: NA INCHES	LINING: NA DEPTH TO BE SET: NA	FEET	
INJEC	•	: NA INCHES	LINING: <u>NA</u> DEPTH TO BE SET: <u>NA</u>	FEET	
INJEC	TUBING SIZE	: NA INCHES		FEET	
INJEC	TUBING SIZE	: NA INCHES		FEET	
INJEC	TUBING SIZE	: NA INCHES		FEET	
	TUBING SIZE PACKER	: NA INCHES		FEET	
	TUBING SIZE	: NA INCHES		FEET	
OTHE	TUBING SIZE PACKER R DATA	: NA INCHES : NA		FEET	
OTHER 1. Na	TUBING SIZE PACKER R DATA ame of injection or pr	: NA INCHES : NA		PEET	
OTHER 1. Na	TUBING SIZE PACKER R DATA	: NA INCHES : NA		FEET	
OTHEF 1. No Q	TUBING SIZE PACKER R DATA ame of injection or proper	NA INCHES		FEET	
OTHEF 1. Na Q 2. Na	TUBING SIZE PACKER R DATA ame of injection or producen	NA INCHES		FEET	
OTHEF 1. Na Q 2. Na	TUBING SIZE PACKER R DATA ame of injection or proper	NA INCHES		FEET	
OTHEF 1. Na Q 2. Na S	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen	NA INCHES NA roducing interval. (if applicable).		FEET	
OTHEF 1. Na Q 2. Na S 3. Is	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille	NA INCHES NA roducing interval. (if applicable).		FEET	
OTHEF 1. Na Q 2. Na S 3. Is	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen	NA INCHES NA roducing interval. (if applicable).		FEET	
OTHEF 1. Na Q 2. Na S 3. Is N	TUBING SIZE PACKER R DATA ame of injection or proper lucen ame of field or pool (E Chayes Queen this a new well drille	NA INCHES roducing interval. (if applicable).		FEET	<u>-</u>
OTHEF 1. Na Q 2. Na S 3. Is N	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to.	INCHES NA INCHES roducing interval. (if applicable). ed for injection? e was the well originally drilled?		FEET	
OTHEF 1. Na Q 2. Na S 3. Is N	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to.	NA INCHES roducing interval. (if applicable).		FEET	
OTHEF 1. Na Q 2. Na S 3. Is N	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to.	INCHES NA INCHES roducing interval. (if applicable). ed for injection? e was the well originally drilled?		FEET	
OTHER 1. Na Q 2. Na S Na If T	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drilled this a new well drilled this well was originally	roducing interval. (if applicable). ed for injection? e was the well originally drilled? y drilled as a Queen producing well.		FEET	
OTHER 1. Na	TUBING SIZE PACKER R DATA ame of injection or proper ame of field or pool (E Chaves Queen this a new well drille tho, no, for what purpose this well was originally as well ever been per	INCHES NA INCHES roducing interval. (if applicable). ed for injection? e was the well originally drilled?		FEET	
OTHER 1. Na	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drilled this a new well drilled this well was originally	roducing interval. (if applicable). ed for injection? e was the well originally drilled? y drilled as a Queen producing well.		FEET	
OTHEF 1. Na Q 2. Na S 3. Is N If T 4. Ha	TUBING SIZE PACKER R DATA The part of injection or proposed injection injection or proposed injection injection or proposed injection injection or proposed injection injection injection injection injection or proposed injection or proposed injection injectio	INCHES Toducing interval. (if applicable). In a control of the	DEPTH TO BE SET: NA	FEET	
OTHEF 1. Na Q 2. Na S 3. Is N If T 4. Ha N	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to. no, for what purpose his well was originalities as well ever been per	roducing interval. (if applicable). ed for injection? e was the well originally drilled? y drilled as a Queen producing well.	DEPTH TO BE SET: NA	FEET	
OTHEF 1. Na Q 2. Na S 3. Is N If T 4. Ha N	TUBING SIZE PACKER R DATA The part of injection or proposed injection injection or proposed injection injection or proposed injection injection or proposed injection injection injection injection injection or proposed injection or proposed injection injectio	INCHES Toducing interval. (if applicable). In a control of the	DEPTH TO BE SET: NA	FEET	
OTHEF 1. Na Q 2. Na S 3. Is N If T 4. Ha N	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to. no, for what purpose his well was originalities as well ever been per	INCHES Toducing interval. (if applicable). In a control of the	DEPTH TO BE SET: NA	FEET	
OTHEF 1. Na Q 2. Na S 3. Is N If T 4. Ha N	TUBING SIZE PACKER: R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to. no, for what purpose his well was originally as well ever been per to ist all such perforate Jone	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable in a producing well in any other zones? If or injection? If or inj	DEPTH TO BE SET: NA	FEET	
OTHEF 1. Na Q 2. Na S 3. Is If T 4. Ha N 1. Na 5. Gi	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to. no, for what purpose his well was originalt as well ever been per to ist all such perforate tone	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If applicable as a Queen producing well. If or at a queen producing well.	Cks of cement or bridge plug(s) used). or gas zones (pools) in this area.		
OTHER 1. Na Q 2. Na S 3. Is N 1f T 4. Ha N 1. Na 5. Gi	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to. no, for what purpose his well was originalt as well ever been per to ist all such perforate tone	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If applicable as a Queen producing well. If or at a queen producing well.	DEPTH TO BE SET: NA		
OTHER 1. Na Q 2. Na S 3. Is N 1f T 4. Ha N 1. Na 5. Gi	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to. no, for what purpose his well was originalt as well ever been per to ist all such perforate tone	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If applicable as a Queen producing well. If or at a queen producing well.	Cks of cement or bridge plug(s) used). or gas zones (pools) in this area.		
OTHER 1. Na Q 2. Na S 3. Is N 1f T 4. Ha N 1. Na 5. Gi	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to. no, for what purpose his well was originalt as well ever been per to ist all such perforate tone	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If applicable as a Queen producing well. If or at a queen producing well.	Cks of cement or bridge plug(s) used). or gas zones (pools) in this area.		
OTHER 1. Na Q 2. Na S 3. Is N 1f T 4. Ha N 1. Na 5. Gi	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille to. no, for what purpose his well was originalt as well ever been per to ist all such perforate tone	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If applicable as a Queen producing well. If or at a queen producing well.	Cks of cement or bridge plug(s) used). or gas zones (pools) in this area.		
OTHEF 1. Na Q 2. Na S 3. Is If T 4. Ha N 5. Gi	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille this a new well drille this well was original as well ever been per to ist all such perforate tone ive depth to and nam here has never been his well.	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If a decided as a Queen producing well. If or ated in any other zones? If of any overlying and/or underlying oil any production from any formation other.	DEPTH TO BE SET: NA cks of cement or bridge plug(s) used). or gas zones (pools) in this area. er than the Queen in the area surrounding		
OTHER 1. Na Q 2. Na S 3. Is If T 4. Ha N 5. Gi T 1. Na 0 6. If	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille this a new well drille this well was original as well ever been per the total such perforate the tota	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If applicable as a Queen producing well. If or at a queen producing well.	DEPTH TO BE SET: NA cks of cement or bridge plug(s) used). or gas zones (pools) in this area. er than the Queen in the area surrounding		
OTHER 1. Na Q 2. Na S 3. Is If T 4. Ha N 5. Gi T 1. Na 0 6. If	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille this a new well drille this well was original as well ever been per to ist all such perforate tone ive depth to and nam here has never been his well.	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If a decided as a Queen producing well. If or ated in any other zones? If of any overlying and/or underlying oil any production from any formation other.	DEPTH TO BE SET: NA cks of cement or bridge plug(s) used). or gas zones (pools) in this area. er than the Queen in the area surrounding		
OTHER 1. Na Q 2. Na S 3. Is If T 4. Ha N 5. Gi T 1. Na 0 6. If	TUBING SIZE PACKER R DATA ame of injection or producen ame of field or pool (E Chaves Queen this a new well drille this a new well drille this well was original as well ever been per the total such perforate the tota	INCHES NA INCHES Toducing interval. If applicable). If applicable). If applicable as a Queen producing well. If or injection? If a decided as a Queen producing well. If or ated in any other zones? If of any overlying and/or underlying oil any production from any formation other.	DEPTH TO BE SET: NA cks of cement or bridge plug(s) used). or gas zones (pools) in this area. er than the Queen in the area surrounding		

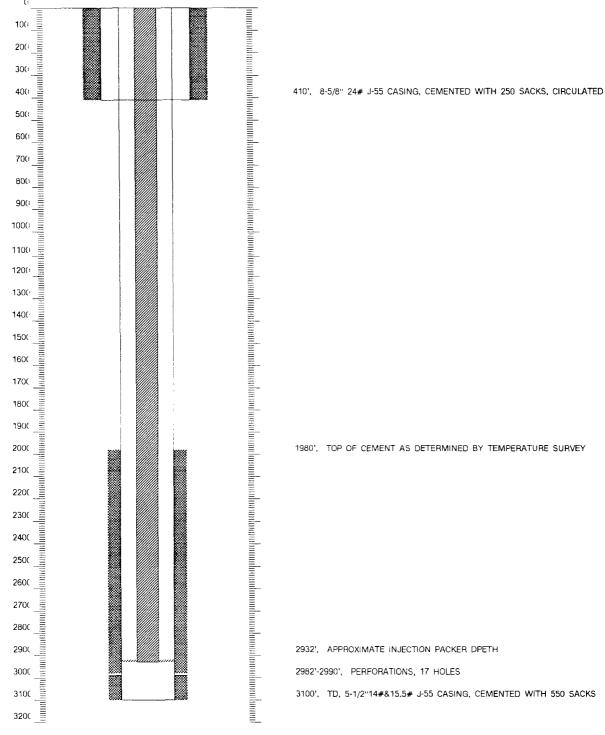
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	00E0.T00	. V-4 D-III O-			
\ }		: Yates Drilling Company : Doyal			
]		: 1			
ll .		660' fnl & 990' fel			
SEC-TWN-		: 34-12S-34E, Chaves County, New	Mexico		
	SPUD DATE:	31-Jul-84			
ii	COMPLETION DATE:				
		: Active injection well - Queen : Active injection well - Queen			
\ }	FROFOSED STATUS.	. Active injection well - Gueen			
					
ll st	JRFACE CASING		PRODUCTION CASING		
1	CASING SIZE	. 8 625 INCHES	CASING SIZE	E EGG INCHES	
1	CASING WEIGHT	: 8,625 INCHES : 24.000 POUNDS/FOOT	CASING WEIGHT:	5.500 INCHES 14.000 POUNDS/FOOT	
Į.	CASING GRADE	. J-55	CASING GRADE:	J-55	
	DEPTH SET	3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55 3-55	CASING GRADE: DEPTH SET:	3,098 FEET	
1	CEMENTED USED	: SACKS	CEMENTED USED: TOP OF CEMENT: DETERMINED BY:	250 SACKS	
1	TOP OF CEMENT	:0 FEET	TOP OF CEMENT:	2,200_FEET	
ii .	DETERMINED BY	: circulate	DETERMINED BY:	emp survey	
H	HULE SIZE	: <u>12.250</u> INCHES	TOTAL DEPTH:	7.875 INCHES	
			TOTAL DEPTH: PLUGGED BACK TD:	3,100 FEET	
			. 200028 27.011 15.	0,030	
L					
1	FORON OD DDODUGINO	INTERVAL			
] IN	JECTION OR PRODUCING	INTERVAL			
<u> </u>	INTERVAL TOP	2,982 FEET	INTERVAL BOTTOM:	2 989 FEFT	
		Perforated		2,000	
	PREVIOUS STIMULATION		00 gallons of gelled water, 5,000 SCF per bar	rel N2,	
]]		10,900 pounds 20/40 sand and 4,	200 pounds of 20/40 sand		
	PROPOSED STIMULATION	: None			
li l					
					
II IN	IJECTION TUBING (if an i	njection well)			
	TUBING SIZE	: 2.375 INCHES	L!NING: plas	tic	
Ji	PACKER	: nickle plated tension packer	DEPTH TO BE SET:		
<u> </u>			_		
ĮĮ.					
o⁻	THER DATA				
-	Na6 (-)				
η '.	Name of injection or p Queen	roducing interval.			
	docum				
2.	Name of field or pool	(if applicable).			
1	SE Chaves Queen				
3.					
3.	Is this a new well drille	ed for injection?			
1	<u>No</u>				
1	If no for what nurnose	e was the well originally drilled?			
		ly drilled as a Queen producing well	l.		
Ш					
1					
4.		rforated in any other zones?			
ii .	No				
	List all such perforate	ed intervals and give plugging details	s (sacks of cement or bridge plug(s) used).		
Į.	None	ed litter vals and give plugging details	s (sacks of cement of bridge plug(s) used).		
1			_		
ll					
5.			g oil or gas zones (pools) in this area.		
1		any production from any formation	other than the Queen in the area surrounding	g	
11	this well.				
					
ĮĮ.					
11 6	If well is always and	abandoned list details of plugging	and attach schematic.		
11 5.		abanconed, list details of plugging			
"	Not applicable.	abanconed, list details of plugging a			
		abandoned, list details of plugging i			

					
\	OPERATOR:	Yates Drilling Company			
		Garner Federal			
		1			
ĮĮ.		660' fnl & 660' fwl			
SEC-TWN-F	RNG, COUNTY, STATE:	3-13S-34E, Chaves County, New Me	exico		
	SPUD DATE:	14-Feb-84			
	COMPLETION DATE:	1-Mar-84			
]]		Active producing well - Queen			
1	PROPOSED STATUS:	Active producing well - Queen			
İ					
<u> </u>					
su	RFACE CASING		PRODUCTION CASING		
1					
	CASING SIZE:	8.625 INCHES 24.000 POUNDS/FOOT	CASING SIZE:	5.500 INCHES 14.000 POUNDS/FOOT	
-	CASING WEIGHT:	24.000 POUNDS/FOOT	CASING WEIGHT:	14.000 POUNDS/FOOT	
\	CASING GRADE:	J-55	CASING GRADE:	J-55	
1	DEPTH SET:	J-55 374 FEET 300 SACKS 0 FEET	DEPTH SET: _	2,920 FEET	
fl .	CEMENTED USED:	300 SACKS	CEMENTED USED: TOP OF CEMENT:	230 SACKS	
U.	TOP OF CEMENT:	O FEET	TOP OF CEMENT:	2,000 FEET	
1	DETERMINED BY:	circulate	DETERMINED BY: Ten	np. survey	
1	HOLE SIZE:	12.250 INCHES	HOLE SIZE:	7.875 INCHES	
			TOTAL DEPTH: PLUGGED BACK TD:	2,925 FEET	
N .			PLUGGED BACK TD:	2,920 FEET	
l					
ļ					
INJ	JECTION OR PRODUCING	INTERVAL			
ll .	INTERNAL TOR	A COP SEET	WITTEN AND DOTTON		
]		2,695 FEET	INTERVAL BOTTOM:	2,701 FEET	
1 .	COMMENTS				
1 '	PREVIOUS STIMULATION:	750 gallons 15% HCL acid plus 30,0	000 gallons gelled water,		
1	DODOGED CTIMUL ATION	24,000 pounds of 20/40 sand, 12,50	U pounds of 12/20 sand		
	PROPOSED STIMULATION	None			
1					
IN.	JECTION TUBING (if an in	njection well)			
IN.	-				
INC	TUBING SIZE	: NA INCHES	LINING: <u>NA</u>		
IN	TUBING SIZE		LINING: <u>NA</u> DEPTH TO BE SET: <u>NA</u>	FEET	
IN	TUBING SIZE	: NA INCHES		FEET	
in.	TUBING SIZE	: NA INCHES		FEET	
in	TUBING SIZE	: NA INCHES		FEET	<u></u>
	TUBING SIZE	: NA INCHES		FEET	
от	TUBING SIZE PACKER	: NA INCHES		FEET	<u></u>
от	TUBING SIZE PACKER THER DATA Name of njection or pi	: NA INCHES		FEET	
от	TUBING SIZE PACKER	: NA INCHES		FEET	
ОТ 1.	TUBING SIZE PACKER HER DATA Name of njection or pi Oueen	NA INCHES NA		FEET	
ОТ 1.	TUBING SIZE PACKER HER DATA Name of njection or pi Queen Name of field or pool i	NA INCHES NA		FEET	
ОТ 1.	TUBING SIZE PACKER HER DATA Name of njection or pi Oueen	NA INCHES NA		FEET	,
OT 1. 2.	TUBING SIZE PACKER THER DATA Name of njection or pi Queen Name of field or pool i SE Chaves Queen	NA INCHES NA roducing interval. (if applicable).		FEET	
OT 1. 2.	TUBING SIZE PACKER THER DATA Name of injection or pi Queen Name of field or pool is SE Chaves Queen Is this a new well drille	NA INCHES NA roducing interval. (if applicable).		FEET	-
OT 1. 2.	TUBING SIZE PACKER THER DATA Name of njection or pi Queen Name of field or pool i SE Chaves Queen	NA INCHES NA roducing interval. (if applicable).		FEET	
OT 1. 2.	TUBING SIZE PACKER HER DATA Name of injection or producen Name of field or pool of SE Chaves Queen Is this a new well drille No.	NA INCHES roducing interval. (if applicable).		FEET	
OT 1. 2.	TUBING SIZE PACKER THER DATA Name of njection or producen Name of field or pool of SE Chaves Queen Is this a new well driller No. If no, for what purpose	Poducing interval. (if applicable). ed for injection?		FEET	,
OT 1. 2.	TUBING SIZE PACKER THER DATA Name of njection or producen Name of field or pool of SE Chaves Queen Is this a new well driller No. If no, for what purpose	NA INCHES roducing interval. (if applicable).		FEET	,
OT 1. 2.	TUBING SIZE PACKER THER DATA Name of njection or producen Name of field or pool of SE Chaves Queen Is this a new well driller No. If no, for what purpose	Poducing interval. (if applicable). ed for injection?		FEET	
OT 1. 2. 3.	TUBING SIZE PACKER THER DATA Name of njection or pi Queen Name of field or pool is SE Chaves Queen Is this a new well drille No. If no, for what purpose This well was originally	Poducing interval. (if applicable). ed for injection?		FEET	/ -
OT 1. 2. 3.	TUBING SIZE PACKER THER DATA Name of njection or pi Queen Name of field or pool is SE Chaves Queen Is this a new well drille No. If no, for what purpose This well was originally	nA INCHES Toducing interval. (if applicable). Indeed for injection? In was the well originally drilled? In y drilled as a Queen producing well.		FEET	
OT 1. 2. 3.	TUBING SIZE PACKER THER DATA Name of injection or producen Name of field or pool of SE Chaves Queen Is this a new well driller No. If no, for what purpose This well was originally Has well ever been per	nA INCHES Toducing interval. (if applicable). Indeed for injection? In was the well originally drilled? In y drilled as a Queen producing well.		FEET	
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l	OPERATOR.	Yates Drilling Company			
		Garner Federal			
		2			
II.		2310' fsl & 2310' fel			
SEC-TWN-F	RNG, COUNTY, STATE:	34-12S-34E, Chaves County, New M	lexico		
ŀ	SPUD DATE:	29-Apr-84			
ll .	COMPLETION DATE:	1-Jun-84			
ll .		Active producing well - Queen			
1	PROPOSED STATUS:	Active injection well - Queen			
1					
	RFACE CASING		PRODUCTION CASING		,
]	IN ACE CASING		PRODUCTION CASING		
ll .	CASING SIZE	8.625 INCHES	CASING SIZE:	5.500 INCHES	
	CASING WEIGHT	8.625 INCHES 24.000 POUNDS/FOOT	CASING SIZE:CASING WEIGHT:	14.000 POUNDS/FOOT	
li	CASING GRADE	J-55	CASING GRADE:	J-55	
11	DEPTH SET	410 FEET	CASING GRADE:	3,098 FEET	
	CEMENTED USED	J-55 410 FEET 250 SACKS 0 FEET circulate	CEMENTED USED:	550 SACKS	
	TOP OF CEMENT	D FEET	TOP OF CEMENT:	1,992 FEET	
1	DETERMINED BY	circulate	DETERMINED BV:	CDI	
	HOLE SIZE	12.250 INCHES	HOLE SIZE: TOTAL DEPTH: PLUGGED BACK TD:	7.875 INCHES	
II.			TOTAL DEPTH:	3,100 FEET	
11			PLUGGED BACK TD:	3,098 FEET	
1					
 					
LNI	ECTION OR PRODUCING	INTERVAL			
	INTERVAL TOP	:FEET	INTERVAL BOTTOM:	2,990 FEET	
II.		: Perforated			
- F	PREVIOUS STIMULATION		000 gallons gelled water, 25% CO2,		
		16,500 pounds of 20/40 sand, 1,700			
P	ROPOSED STIMULATION	: 500-1000 gallons of 7-1/2% HCL to	clean perforations		
1					
			 		
1 181	JECTION TUBING (if an in	diaction wall)			
""	accitor robins (ii air ii	nection welly			
	TUBING SIZE	: 2.375 INCHES	UNING: plastic	:	
	PACKER	Nickel plated tension packer	DEPTH TO BE SET:	2.932 FEET	
i				 -	
L					
TO	HER DATA				
1					
1.	Name of njection or p	roducing interval.			
	Queen		······································		
	Name of field or neel	(if applicable)			
1 2.	Name of field or pool SE Chaves Queen	(ir applicable).			
	SE Chaves Queen				
1	Is this a new well drille	ed for injection?			
]	No.	sa for injuditoris			
II.	110.				
ii .	If no, for what purpose	e was the well originally drilled?			
		y drilled as a Queen producing well.			
\\		<u> </u>			
Į.					•
4.	Has well ever been pe	rforated in any other zones?			
1	No				
ll .		d intervals and give plugging details ((sacks of cement or bridge plug(s) used).		
1	None				
1					
	Give death to and	se of any overlying and/or underlying	oil or gas zones (needs) in this are-		
5.		ne of any overlying and/or underlying any production from any formation of	oil or gas zones (pools) in this area. Other than the Queen in the area surrounding		
I	this well.	any production from any formation c	sales and the ageen in the area surrounding		•
	2.40 11011				•
[]					•
[]					
6.	If well is plugged and	abandoned, list details of plugging an	d attach schematic.	· · · · · · · · · · · · · · · · · · ·	•
1	Not applicable.				_
u					
II					

GARNER FEDERAL #2

J34-12S-31E CHAVES COUNTY, NM

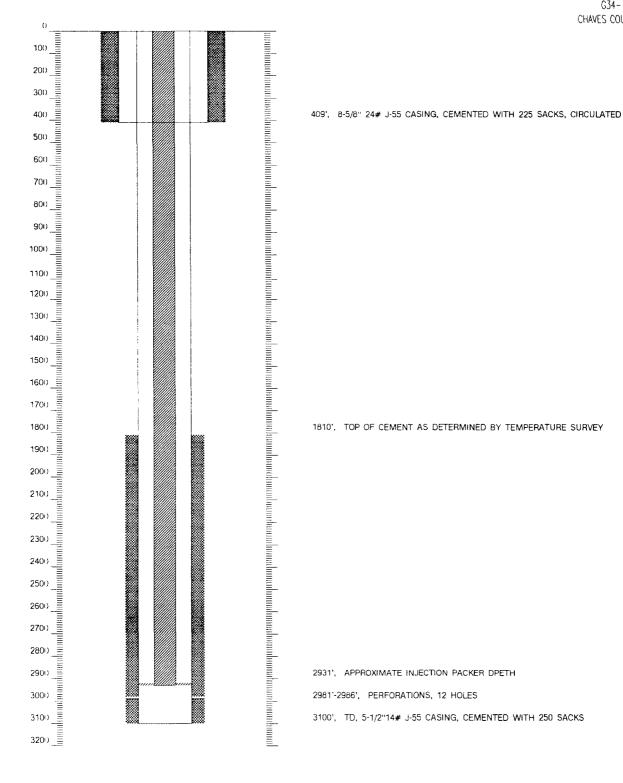


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	OR; Yates Drilling Company		
	SE: Garner Federal		
	. #: 3		
	GE; 1980' fnl & 1980' fel		
	TE: 34-12S-34E, Chaves County, New	Mexico	
SPUD DA	TE: <u>2-Jul-84</u>		
COMPLETION DA	TE: 12-Aug-84		
	US: Active producing well - Queen		
PROPOSED STAT	US: Active injection well - Queen		

SURFACE CASING		PRODUCTION CASING	
0.00000	25 0.05 1000150	040000 0177	
CASING S	ZE: 8.625 INCHES	CASING SIZE:	5.500 INCHES
CASING WEIG	HT: 24.000 POUNDS/FOOT	CASING WEIGHT:	14.000 POUNDS/FOOT
CASING GHA	DE:	CASING GRADE:	
DEPTH S	DE: J-55 SET: 408 FEET SED: 225 SACKS NT: 0 FEET	DEPTH_SET:	3,100 FEET
CEMENTED US	ED: <u>225</u> SACKS	CEMENTED USED:	250_SACKS
TOP OF CEME	NT: <u>0</u> FEET	TOP OF CEMENT:	1,810_FEET
DETERMINED	br. <u>circulate</u>	DETERMINED BY: te	mp. survey
HOLE S	IZE: <u>12.250</u> INCHES	HOLE SIZE:	7.875 INCHES
		HOLE SIZE: TOTAL DEPTH:	3,100 FEET
		PLUGGED BACK TD:	3,100 FEET
			
			- · · · · · · · · · · · · · · · · · · ·
INTECTION OF PROPER	NG INTERVAL		
INJECTION OR PRODUCI	NG INTERVAL		
INTEDVAL 3	TOP: 2,981 FEET	INTERVAL POTTONA	2.090 FEET
		INTERVAL BOTTOM:	2,986 FEET
	TS: Perforated		
PREVIOUS STIMULATI		,000 gallons gelled water, 5,000 scf CO2,	
	15,000 pounds of 20/40 sand, 1,70	00 pounds of 12/20 sand	
DDODOCCD CT MULAT	ON: FOO 4000 !! 4 7 4 100/ 1101		
PROPOSED STIMULAT	ON: 500-1000 gallons of 7-1/2% HCL ad		
PROPOSED ST:MULAT	ON: 500-1000 gallons of 7-1/2% HCL at		
INJECTION TUBING (if a	in injection well)	cid to clean perforations	ic.
INJECTION TUBING (if a	in injection well) IZE: 2.375 INCHES	cid to clean perforations LINING: plast	ic
INJECTION TUBING (if a	in injection well)	cid to clean perforations LINING: plast	icFEET
INJECTION TUBING (if a	in injection well) IZE: 2.375 INCHES	cid to clean perforations LINING: plast	icFEET
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OTHER DATA 1. Name of injection of Queen 2. Name of field or pose SE Chaves Queen 3. Is this a new well of No. If no, for what purp This well was originated the No. List all such perfor None 5. Give depth to and a There has never b this well.	in injection well) IZE: 2.375 INCHES (ER: Nickel plated tension packer r producing interval. rol (if applicable). drilled for injection? pose was the well originally drilled? nally drilled as a Queen producing well. perforated in any other zones? rated intervals and give plugging details mame of any overlying and/or underlying	Cid to clean perforations LINING: plast DEPTH TO BE SET: (sacks of cement or bridge plug(s) used), poil or gas zones (pools) in this area, other than the Queen in the area surrounding	2,931 FEET

GARNER FEDERAL #3

G34-12S-31E CHAVES COUNTY, NM



1			
	Yates Drilling Company Garner Federal		
	4		
	330' fsl & 1980' fel		
	34-12S-34E, Chaves County, New Me	xico	
COMPLETION DATE:	24-Jun-84 1-Aug-84		
CURRENT STATUS:	Inactive producing well - Queen		
	Inactive producing well - Queen		
<u> </u>			
li de la companya de la companya de la companya de la companya de la companya de la companya de la companya de			
SURFACE CASING		PRODUCTION CASING	
CASING SIZE:	8.625 INCHES 24.000 POUNDS/FOOT	CASING MEIGHT:	5.500 INCHES 14.000 POUNDS/FOOT
CASING GRADE:	J-55	CASING GRADE:	.1-55
DEPTH SET:	408 FEET	DEPTH SET:	3,108_FEET
CEMENTED USED:	408 FEET 250 SACKS 0 FEET	CEMENTED USED:	500 SACKS
TOP OF CEMENT:	0 FEET	TOP OF CEMENT:	1,940 FEET
DETERMINED BY:	12.250 INCHES	DETERMINED BY: Ter	7.875 INCHES
I SEE SIZE.	12.230	TOTAL DEPTH:	3,108 FEET
		TOTAL DEPTH: PLUGGED BACK TD:	3,108 FEET
\ 			<u></u>
INJECTION OR PRODUCING	INTERVAL		
INITERVAL TOD		INTERVAL POTTOM:	2 202 555
COMMENTS:		INTERVAL BOTTOM:	2,997 FEE1
	1000 gallons 15% HCL acid plus 35,0	00 gallons gelled water, 25% CO2,	
	43,000 pounds of 20/40 sand, 22,000		
PROPOSED STIMULATION:	None		
INJECTION TUBING (if an ir	ijection well)		
1			
ì	NA INCHES	LINING: NA	
TUBING SIZE:	NA INCHES	LINING: <u>NA</u> DEPTH TO BE SET: <u>NA</u>	FEET
TUBING SIZE:	NA INCHES		FEET
TUBING SIZE:	NA INCHES		FEET
TUBING SIZE:	NA INCHES		FEET
TUBING SIZE:	NA INCHES		FEET
TUBING SIZE: PACKER: OTHER DATA	NA		FEET
TUBING SIZE: PACKER: OTHER DATA 1. Name of injection or pr	NA		FEET
TUBING SIZE: PACKER: OTHER DATA	NA		FEET
TUBING SIZE: PACKER: OTHER DATA 1. Name of injection or pr	oducing interval.		FEET
TUBING SIZE: PACKER: OTHER DATA 1. Name of injection or producen	oducing interval.		FEET
OTHER DATA 1. Name of injection or producen 2. Name of field or pool (SE Chaves Queen	oducing interval. if applicable).		FEET
TUBING SIZE: PACKER: OTHER DATA 1. Name of injection or proueen 2. Name of field or pool (oducing interval. if applicable).		FEET
OTHER DATA 1. Name of injection or producen 2. Name of field or pool (SE Chaves Queen) 3. Is this a new well drille No.	roducing interval. if applicable). d for injection?		FEET
TUBING SIZE: PACKER: OTHER DATA 1. Name of injection or proueen 2. Name of field or pool (SE Chaves Queen) 3. Is this a new well drille No. If no, for what purpose	noducing interval. If applicable). If for injection?		FEET
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TUBING SIZE: PACKER: OTHER DATA 1. Name of injection or producen 2. Name of field or pool (SE Chaves Queen) 3. Is this a new well drille No. If no, for what purpose This well was original! 4. Has well ever been per No List all such perforate	roducing interval. if applicable). If d for injection? If was the well originally drilled? If drilled as a Queen producing well. If orated in any other zones?		FEET
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TUBING SIZE: PACKER: OTHER DATA 1. Name of injection or producen 2. Name of field or pool (SE Chaves Queen) 3. Is this a new well drille No. If no, for what purpose This well was originally 4. Has well ever been per No List all such perforate None 5. Give depth to and nam There has never been	roducing interval. If applicable). If d for injection? If was the well originally drilled? If drilled as a Queen producing well. If orated in any other zones? If intervals and give plugging details (see of any overlying and/or underlying or	DEPTH TO BE SET: NA	
OTHER DATA 1. Name of injection or producen 2. Name of field or pool (SE Chaves Queen) 3. Is this a new well drille No. If no, for what purpose This well was originally 4. Has well ever been per No List all such perforate None 5. Give depth to and name	roducing interval. If applicable). If d for injection? If was the well originally drilled? If drilled as a Queen producing well. If orated in any other zones? If intervals and give plugging details (see of any overlying and/or underlying or	DEPTH TO BE SET: NA sacks of cement or bridge plug(s) used).	
TUBING SIZE: PACKER: OTHER DATA 1. Name of injection or producen 2. Name of field or pool (SE Chaves Queen) 3. Is this a new well drille No. If no, for what purpose This well was originally 4. Has well ever been per No List all such perforate None 5. Give depth to and nam There has never been	roducing interval. If applicable). If d for injection? If was the well originally drilled? If drilled as a Queen producing well. If orated in any other zones? If intervals and give plugging details (see of any overlying and/or underlying or	DEPTH TO BE SET: NA sacks of cement or bridge plug(s) used).	
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OTHER DATA 1. Name of injection or producen 2. Name of field or pool (SE Chaves Queen) 3. Is this a new well drille No. If no, for what purpose This well was originally 4. Has well ever been per No List all such perforate None 5. Give depth to and nam There has never been this well.	roducing interval. If applicable). If d for injection? If was the well originally drilled? If drilled as a Queen producing well. If orated in any other zones? If intervals and give plugging details (see of any overlying and/or underlying or	DEPTH TO BE SET: NA sacks of cement or bridge plug(s) used). If or gas zones (pools) in this area, her than the Queen in the area surrounding	
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	OPERATOR:	Yates Drilling Company		
		Garner Federal		
	WELL #:			
SEC TAKE		330' fnl & 2310' fwl	Indian	
BEC-TWN-F		3-13S-34E, Chaves County, New M 25-Jul-84	lexico	
	COMPLETION DATE:			
ĮĮ.		Active producing well - Queen		
	PROPOSED STATUS:	Active producing well - Queen		
]				
Sui	RFACE CASING		PRODUCTION CASING	
	CASING SIZE:	8.625 INCHES	CASING SIZE:	5.500 INCHES
\\	CASING WEIGHT:	24.000 POUNDS/FOOT	CASING WEIGHT:	14.000 POUNDS/FOOT
	CASING GRADE:	J-55	CASING GRADE: DEPTH SET:	J-55
	CEMENTED USED:	230 SACKS	CEMENTED USED:	
11	TOP OF CEMENT:	371 FEET 230 SACKS 0 FEET	TOP OF CEMENT:	1,810 FEET
Ì	DETERMINED BY:	circulate	DETERMINED BY: Ten	np. survey
	HOLE SIZE:	12.250 INCHES	HOLE SIZE:	7.875 INCHES
li			TOTAL DEPTH: PLUGGED BACK TD:	2,891 FEET
 				2,00.
<u> </u>				
LNI	ECTION OR PRODUCING	INTERVAL		
		2,773 FEET	INTERVAL BOTTOM:	2,789 FEET
]	:COMMENTS PREVIOUS STIMULATION		0,000 gallons gelled water, 25% N2,	
1	The transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer o	14,500 pounds of 20/40 sand, 13,5	00 pounds of 12/20 sand	
P	ROPOSED STIMULATION:			· · · · · · · · · · · · · · · · · · ·
	ECTION TUBING (if an in	vication (voll)		
	ECTION TODING (II all II	ijection weil)		
		NA INCHES	LINING: NA	
	PACKER:	NA	DEPTH TO BE SET: NA	FEET
				
OT:	HER DATA			
] 1.	Name of injection or pr	oducing interval.		
	Queen			
2.	Name of field or pool (SE Chaves Queen	if applicable).		
	3E Chaves Queen			
3.	is this a new well drille	d for injection?		
	No.			
	If no for what purpose	was the well originally drilled?		
	This well was originally	y drilled as a Queen producing well.		
11				
			· · · · · · · · · · · · · · · · · · ·	
4.	No Has well ever been per	forated in any other zones?		
<u> </u>	110			
	List all such perforate	d intervals and give plugging details	(sacks of cement or bridge plug(s) used).	
	None			
5.	Give depth to and nam	e of any overlying and/or underlying	oil or gas zones (pools) in this area.	
	There has never been		other than the Queen in the area surrounding	
	this well.			
II.				
6.		abandoned, list details of plugging a	nd attach schematic.	
	Not applicable.			
1				
II.				

OPERATOR: Vates Drilling Company WELL # WELL # FOOTAGE 307 fs 14 1980* fell SEC-TWN-RNA, COUNTY, STATE 3135-34E, Chaves County, New Moxico SPUD DATE: 39-Jun-84 COMPETION DATE: 39-Jun-84 CURRENT STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS: Active producing well - Ouseen PROPOSED STATUS ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIV						
HEASE: Tab Federal WELL # 1 FOOTAGE: 330 federal WELL # 1 SEC-TWIN-RING, COUNTY, STREET \$1353-345. Chauses County, New Miedico SECTION OF THE \$1353-345. Chauses County, New Miedico COMPANIE \$100 DATE COMPANIE \$1353-345. Chauses County, New Miedico COMPANIE \$100 DATE COMPANIE \$1353-345. Chauses County, New Miedico COMPANIE \$100 DATE COMPANIE \$100 DATE COMPANIE \$100 DATE COMPANIE \$100 DATE CASING SIZE: 8.625 INCHES CASING SIZE: 8.625 INCHES CASING SIZE: 8.625 INCHES CASING GRADE: 7 CASING GRADE: 7 CASING GRADE: 7 CASING GRADE: 7 CASING GRADE: 7 CASING GRADE: 7 COMPANIE \$15 956 FEET CEMENTED USED: 225 SACKS CEMENTED USED: 225 SACKS CEMENTED USED: 225 SACKS TOP OF CEMENT: 7 FEET DETERMINED BY: 7 HOLE SIZE: 12.250 INCHES FOOTAGE SIZE: 12.250 INCHES FOOT		OPERATOR:	Yates Drilling Company			
FOOTAGE: 330* IN & 1990* fel SEC-TWIN-RING, COUNTY, STATE: 3153-454. Chaves County, New Mexico SPUD DATE: 22-May-94. CURRENT STATUS: Active producing well - Oueen PROPOSED STATUS: Active producing well - Oueen PROPOSED STATUS: Active producing well - Oueen PROPOSED STATUS: Active producing well - Oueen SURFACE CASING SIZE: 8.625 INCHES		LEASE:	Tao Federal			
SEC-TWN-RNG, COUNTY, STATE: 3-135-34E, Chaves Courty, New Mexico SPUD DATE: 2 May-94 COMMETION DATE: 9-Aun-94 CUMPRET STATUS: Active producing well - Queen PROPOSED STATUS: Active producing well - Queen SURFACE CASING SURFACE CASING SIZE: 8.625 INCHES CASING SIZE: 9.5000 INCHES CASING WEIGHT: 7 POUNDS/FOOT CASING WEIGHT: 7 POUNDS/FOOT CASING GRADE: 7 CASING GRADE: 7 DEPTH SET: 566 FEET DEPTH SET: 5.114 FEET CEMENTED USED: 225 SACKS CEMENTED USED: 225 SACKS TOP OF CEMENT: 7 FEET TOP OF CEMENT: 7 FEET DETERMINED BY: 7 DETERMINED BY: 7 POUNDS/FOOT HOLE SIZE: 12.250 INCHES NULECTION OR PRODUCING INTERVAL INTERVAL TOP. 2.983 FEET INTERVAL BOTTOM: 3.114 FEET INJECTION OR PRODUCING INTERVAL INTERVAL TOP. 2.983 FEET INTERVAL BOTTOM: 3.114 FEET PLUGGED BACK TD: 3.114 FEET INJECTION TUBING (if an injection well) TUBING SIZE: NA INCHES INCHES DEPTH TO BE SET: NA FEET OTHER DATA 1. Name of injection or producing interval. Queen 2. Name of field or pool (if applicable). SE Chaves Queen 3. Is this a new well drilled for injection? No. If no, for what purpose was the well originally drilled?						
SPUE DATE: 22-May-94 COMPLETION DATE: 9-Jun-94 CURRENT STATUS: Active producing well - Queen PROPOSED STATUS: Active producing well - Queen SURFACE CASING SURFACE CASING SURFACE CASING CASING SIZE: 8.625 INCHES CASING SIZE: 5.500 INCHES CASING SIZE: 7 POUNDS/FOOT CASING WIGHT: 7 POUNDS/FOOT CASING WIGHT: 7 POUNDS/FOOT CASING WIGHT: 7 POUNDS/FOOT CASING SIZE: 5.500 INCHES CASING SIZE: 566 FEET OEPH SET: 3.114 FEET CEMENTED USED: 225 SACKS CEMENTED USED: 225 SACKS CEMENTED USED: 225 SACKS CEMENTED USED: 7 PEET DETERMINED BY: 7 DETERMINED BY: 7 PEET DETERMINED BY: 7 DETERMINED BY: 7 PEET DETERMINED SIZE: 12.250 INCHES HOLE SIZE: 7.575 INCHES INJECTION OR PRODUCING INTERVAL NITERVAL TOP: 2.983 FEET COMMENTS: Partorated PREVIOUS STIMULATION: 2000 gellone 15% HCL acid plus 20,000 gallons gelled water, 20.000 pounds of cand, PROPOSED STIMULATION: None INJECTION TUBING (if an injection well) TUBING SIZE: NA INCHES INJECTION TUBING (if an injection well) TUBING SIZE: NA INCHES LINING: NA FEET OTHER DATA 1. Name of injection or producing interval. Queen 2. Name of field or pool (if applicable). SE Chaves Queen 3. Is this a new well drilled for injection? No. If no, for what purpose was the vell originally drilled?	SEC-TW/N-			exico		
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SURFACE CASING CASING SIZE: 8.625 INCHES CASING WEIGHT: 7 POUNDS/FOOT CASING WEIGHT: 7 POUNDS/FOOT CASING WEIGHT: 7 POUNDS/FOOT CASING WEIGHT: 7 POUNDS/FOOT CASING GRADE: 7 DEPTH SET: 3,114 FEET CEMENTED USED: 225 SACKS CEMENTED USED: 225 SACKS TOP OF CEMENT: 7 FEET DETERMINED BY: 7 HOLE SIZE: 112.250 INCHES INJECTION OR PRODUCING INTERVAL INTERVAL TOP: 2.983 FEET COMMENTS: Perforated PREVIOUS STIMULATION: 300 gailons 19% HCL acid plus 20,000 gailons gelied water, 20,000 pounds of sand, PROPOSED STIMULATION: 10 the INJECTION TUBING (if an injection well) TUBING SIZE: NA INCHES INCHES OTHER DATA 1. Name of field or pool (if applicable). SE Chaves Queen 2. Name of field or pool (if applicable). SE Chaves Queen 3. Is this a new well drilled for injection? No. If no, for what purpose was the well originally drilled?						
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SE Chaves Queen 3. Is this a new well drilled for injection? No. If no, for what purpose was the well originally drilled?	1,		oducing interval.			
No. If no, for what purpose was the well originally drilled?	2.		if applicable).		·	
	3.		d for injection?			
this well was originally drilled as a Queen producing well.			was the well originally drilled? drilled as a Queen producing well.			
4. Has well ever been perforated in any other zones? No	4.		forated in any other zones?			
List all such perforated intervals and give plugging details (sacks of cement or bridge plug(s) used). None			d intervals and give plugging details	(sacks of cement or bridge plug(s) used).		
5. Give depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. There has never been any production from any formation other than the Queen in the area surrounding this well.	5.	There has never been				
		If well is plugged and a	bandoned, list details of plugging ar	nd attach schematic.	·	
If well is plugged and abandoned, list details of plugging and attach schematic. Not applicable.	6.	Mot applicable				
If well is plugged and abandoned, list details of plugging and attach schematic. Not applicable.	6.	Not applicable.				

Mata	er Hell	<u> </u>		: -				
SEC	! ! : TWN	! ! RNG	! !UNIT ! LTR	OTR OF UNIT	:	מד	t l TYPE	; ; ; † †
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	1125		¦ P	17	i	160	:DOM.	16649
26	1125	131E	I E	1?	1	166	IDOM. & STK	LL6746
V26	1125	31E	! L	17	17		!IRR.	LL2117
V26	1125	IJIE	10	17	{	198	COM. (OIL & GAS	
$\nu 26$	1125	131E	10	17	;	198		(1L6749
$\nu 27$	1128	131E	114	17	1	160	IDOM. & STK	166650
~ 35	1128	131E	¦F	! NW	1	55	DOM.	LL4170
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.1	1138	131E	! M	! SW	1	190	COM. & STK	L3837X
1	1138	:31E	! M	ISW	1	165	COM. & STK	L3837
2	13S	31E	! H!	ISW	;	165	IDEC.	1L3834
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2	1138	131E	: H	ISW	!	165	IDEC.	LL3835
2	1138	131E	i P	ISE	17		1?	1L3806
2	1138	131E	; I	INE	;	216	ISRO	1L2745
12	1138	:31E	¦ A	17	;	217	l SRO	L3460
13	1138	131E	: ABCD	17	17		t OWD	L2933
24	1138	131E	1 1-1	INE	1	196	IND.	1L3914
35	1138	131E	;	:SW	12		:DOM.	H_2849





16010 Barker's Point Lane • Houston, Texas 77079 713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF Artesia, New Mexico 88210 (505) 746-3588 Phone (505) 746-3580 Fax

WATER ANALYSIS REPORT

: YATES DRILLING : ARTESIA, NEW MEXICO : WILLIAMS RANCH : RANCH HOUSE Date : 11/09/92 Date Sampled : 11/06/92 Analysis No. : 215 Company Address

Lease Well

Sample Pt. : TAP

	ANALYSIS		mg/L		* meq/L
1.	рН 6.8				
2.	H2S 0				
3.	Specific Gravity 1.000				
4.	Total Dissolved Solids		409.9		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO3)			
10.	Methyl Orange Alkalinity (Ca				
11.	Bicarbonate	нсоз	170.0	HCO3	2.8
12.	Chloride	Cl	106.0	Cl	3.0
13.		SO4	25.0	SO4	0.5
14.	Calcium	Ca	96.0	Ca	4.8
15.	Magnesium	Mg	24.4	Mg	2.0
16.	Sodium (calculated)	Na	-11.4	Na	-0.5
17.	Iron	Fe	0.0		
18.	Barium	Ва	0.0		
	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		340.0		

PROBABLE MINERAL COMPOSITION ______

*milli equivalents per Liter	Compound Equiv wt X meq/L = mg/L
5 *Ca < *HCO3 3 /> 2 *Mg> *SO4 1 *Na> *Cl 3	Ca(HCO3)2 81.0 2.8 226 CaSO4 68.1 0.5 35 CaCl2 55.5 1.5 82 Mg(HCO3)2 73.2 MgSO4 60.2
++ Saturation Values Dist. Water 20 C CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L BaSO4 2.4 mg/L	MgCl2 47.6 1.5 72 NaHCO3 84.0 Na2SO4 71.0 NaCl 58.4

REMARKS:

----- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT



Chemicals and Services



16010 Barker's Point Lane • Houston, Texas 77079 713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF Artesia, New Mexico 88210 (505) 746-3588 Phone (505) 746-3580 Fax

WATER ANALYSIS REPORT

Company
Address
Lease
Lease
Well
RANCH HOUSE Date : 11/09/92 Date Sampled : 11/06/92 Analysis No. : 216 : YATES DRILLING : ARTESIA, NEW MEXICO

Sample Pt. : TAP

	ANALYSIS			mg/L		* meq/L
1.	рН	7.0				
2.	Ĥ2S	0				
3.	Specific Gravity	1.000				
4.	Total Dissolved Solid	S		334.8		
5.	Suspended Solids			NR		
6.	Dissolved Oxygen			NR		
7.	Dissolved CO2			NR		
8.	Oil In Water			NR		
9.	Phenolphthalein Alkal					
10.	Methyl Orange Alkalin	ity (CaCO3))			
11.	Bicarbonate	HC	203	146.0	HCO3	2.4
12.	Chloride	C]	L	85.0	Cl	2.4
13.	Sulfate	SC	04	25.0	SO4	0.5
14.	Calcium	Ca		88.0	Ca	4.4
15.		Mo	3	34.1	Mg	2.8
16.	Sodium (calculated)	Na	3	-43.3	Na	-1.9
17.	Iroņ	Fe		0.0		
18.	Barium	Ва	a	0.0		
	Strontium	Sı	c	0.0		
20.	Total Hardness (CaCO3)		360.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	=	mg/L	
4 *Ca < *HCO3 /> 3 *Mg> *SO4 -2 *Na> *C1	1 2	Ca (HCO3) 2 CaSO4 CaC12 Mg (HCO3) 2 MgSO4	60.2	2.4 0.5 1.5		194 35 82
Saturation Values Dist. Water 2 CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L	MgCl2 NaHCO3 Na2SO4 NaCl	47.6 84.0 71.0 58.4	0.9		44	

2.4 mg/L

REMARKS:

BaSO4

----- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT

TRETOLITE

Chemicals and Services



16010 Barker's Point Lane • Houston, Texas 77079 713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF Artesia, New Mexico 88210 (505) 746-3588 Phone (505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES DRILLING Date : 11/09/92
Address : ARTESIA, NEW MEXICO Date Sampled : 11/06/92
Lease : GRAHAM Analysis No. : 217
Well : WINDMILL
Sample Pt. : WELL

	ANALYSIS		mg/L		* meq/L
1.	T	.0			
2.	H2S 0				
3.		.000	400 0		
4.	Total Dissolved Solids		433.3		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalin	ity (CaCO3)			
10.	Methyl Orange Alkalinit				
11.	Bicarbonate	т ` нсоз	170.0	HCO3	2.8
12.	Chloride	Cl	127.0	Cl	3.6
13.	Sulfate	S04	25.0	SO4	0.5
14.	Calcium	Ca	128.0	Ca	6.4
15.	Magnesium	Mg	31.7	Mg	2.6
16.	Sodium (calculated)	Na	-48.3	Na	-2.1
17.	Iron	Fe	0.0		2.1
18.		Ba	0.0		
19.	•	Sr	0.0		
		SI			
20.	Total Hardness (CaCO3)		450.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	,	Compound	Equiv wt	X meq/L	=	mg/L
+	+					
6 *Ca < *HCO3	3	Ca (HCO3) 2	81.0	2.8		226
		CaSO4	68.1	0.5		35
3 *Mg> *SO4	1	CaCl2	55.5	3.1		171
-</td <td> </td> <td>Mg (HCO3) 2</td> <td>73.2</td> <td></td> <td></td> <td></td>		Mg (HCO3) 2	73.2			
-2 *Na> *Cl	4	MgSO4	60.2			
+ +-	-	MgC12	47.6	0.5		24
Saturation Values Dist. Water	20 C	NaHCO3	84.0			
CaCO3 13 mg/	$^{\prime}\mathrm{L}$	Na2S04	71.0			
CaSO4 * 2H2O 2090 mg/	'L	NaC1	58.4			
BaSO4 2.4 mg/	'L					

REMARKS:

----- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT



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WATER ANALYSIS REPORT

Company : YATES DRILLING Date : 11/09/92
Address : ARTESIA, NEW MEXICO Date Sampled : 11/06/92
Lease : DAVE FEDERAL Analysis No. : 218

Lease : DAVE : DAVE : BATTERY : GUN BARREL

	ANALYSIS		mg/L		* meq/L
1.	pH 7.0				
2.	H2S 1 PPM				
3.	Specific Gravity 1.025				
4.	Total Dissolved Solids		34942.6		
5.	Suspended Solids		NR		
	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity				
10.	Methyl Orange Alkalinity (Ca	(CO3)			
11.	Bicarbonate	HCO3	146.0	HCO3	2.4
12.	Chloride	Cl	21303.0	Cl	600.9
13.	Sulfate	SO4	1750.0	S04	36.4
	Calcium	Ca	2480.0	Ca	123.8
15.	Magnesium	Mg	2916.2	Mg	239.9
16.	Sodium (calculated)	Na	6347.4	Na	276.1
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		18200.0		

PROBABLE MINERAL COMPOSITION

*mil i equivalents per Liter	Compound Equiv	wt X meq/L	= mg/L
1.24 *Ca < *HCO3 2 240 *Mg> *SO4 36	Ca(HCO3)2 81. CaSO4 68. CaCl2 55. Mg(HCO3)2 73.	1 36.4 5 84.9	194 2480 4712
276 *Na> *Cl 601 ++ Saturation Values Dist. Water 20 C	MgSO4 60. MgCl2 47. NaHCO3 84.	2 6 239.9 0	11421
CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L BaSO4 2.4 mg/L	Na2SO4 71. NaCl 58.	-	16135

REMARKS:

----- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT



SCALE TENDENCY REPORT

Company : YATES DRILLING Date : 11/09/92
Address : ARTESIA, NEW MEXICO Date Sampled : 11/06/92
Lease : DAVE FEDERAL Analysis No. : 218
Well : BATTERY Analyst : STEVE TIGERT

Sample Pt. : GUN BARREL

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

S.I. = 0.3 at 80 deg. F or 27 deg. C S.I. = 0.4 at 100 deg. F or 38 deg. C S.I. = 0.5 at 120 deg. F or 49 deg. C S.I. = 0.5 at 140 deg. F or 60 deg. C S.I. = 0.6 at 160 deg. F or 71 deg. C

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

3262 at 80 deg. F or 27 deg C 3375 at 100 deg. F or 38 deg C 3407 at 120 deg. F or 49 deg C 3419 at 140 deg. F or 60 deg C 3352 at 160 deg. F or 71 deg C S =S =

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT



Chemicals and Services



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WATER ANALYSIS REPORT

Company : YATES DRILLING Date : 11/09/92
Address : ARTESIA, NEW MEXICO Date Sampled : 11/06/92
Lease : DELUNA FEDERAL Analysis No. : 219

Well : BATTERY Sample Pt. : GUN BARREL

	ANALYSIS		mg/L		* meq/L
1.	pH 7.1				
2.	H2S 1 PPM				
3.	Specific Gravity 1.040				
4.	Total Dissolved Solids		62813.1		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (C				
10.	Methyl Orange Alkalinity (CaC	:03)			
11.	Bicarbonate	HCO3	244.0	HCO3	4.0
	Chloride	Cl	37275.0	Cl	1051.5
13.	Sulfate	SO4	1875.0	SO4	39.0
14.	Calcium	Ca	1400.0	Ca	69.9
15.	Magnesium	Mg	1725.4	Mg	141.9
16.	Sodium (calculated)	Na	20293.7	Na	882.7
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		10600.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
70 *Ca < *HCO3 4 /> 1.42 *Mg> *SO4 39 	Ca (HCO3) 2 CaSO4 CaCl2 Mg (HCO3) 2	81.0 68.1 55.5 73.2	4.0 39.0 26.8	324 2657 1488
883 *Na> *Cl	MgSO4 MgCl2 NaHCO3	60.2 47.6 84.0	141.9	6757
CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L BaSO4 2.4 mg/L	Na2SO4 NaCl	71.0 58.4	882.7	51586

REMARKS:

---- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT



SCALE TENDENCY REPORT

Company : YATES DRILLING : YATES DRILLING Date : 11/09/92 : ARTESIA, NEW MEXICO Date Sampled : 11/06/92 : DELUNA FEDERAL Analysis No. : 219 : BATTERY Analyst : STEVE TIGERT Address

Lease Well

: BATTERY

Sample Pt. : GUN BARREL

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

```
S.I. =
                0.3 at 80 deg. F or
                                                           27 deg. C
S.I. =
                0.4 at 100 deg. F or 38 deg. C
S.I. = 0.4 at 100 deg. F or 38 deg. C
S.I. = 0.5 at 120 deg. F or 49 deg. C
S.I. = 0.6 at 140 deg. F or 60 deg. C
S.I. = 0.7 at 160 deg. F or 71 deg. C
```

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

```
5336 at 80 deg. F or 27 deg C
5501 at 100 deg. F or 38 deg C
5556 at 120 deg. F or 49 deg C
5585 at 140 deg. F or 60 deg C
5517 at 160 deg. F or 71 deg C
s =
s =
s =
S =
S =
```

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT



Chemicals and Services



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Reply to: P.O. Box FF Artesia, New Mexico 88210 (505) 746-3588 Phone (505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES DRILLING Date : 11/09/92
Address : ARTESIA, NEW MEXICO Date Sampled : 11/06/92
Lease : BURKETT FEDERAL Analysis No. : 220

Lease : BURKETT FER Well : BATTERY : GUN BARREL

	ANALYSIS		mg/L		* meq/L
1.	рН 7.0				
2.	H2S 1 PI	PM .			
3.	Specific Gravity 1.03	30			
4.	Total Dissolved Solids		46894.5		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity				
10.	Methyl Orange Alkalinity	(CaCO3)			
11.	Bicarbonate	HCO3	146.0	HCO3	2.4
12.	Chloride	Cl	28116.0	Cl	793.1
13.	Sulfate	S04	1750.0	S04	36.4
14.	Calcium	Ca	2000.0	Ca	99.8
15.	Magnesium	Mg	2187.3	Mg	179.9
16.	Sodium (calculated)	Na	12695.2	Na	552.2
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.		Sr	0.0		
20.	Total Hardness (CaCO3)		14000.0		

PROBABLE MINERAL COMPOSITION

*mil_i equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/L
100 *Ca < *HCO3 /> 180 *Mg> *SO4 //	36	Ca (HCO3)2 CaSO4 CaCl2 Mg (HCO3)2	81.0 68.1 55.5 73.2	2.4 36.4 61.0	194 2480 3383
552 *Na> *Cl ++ Saturation Values Dist. Water		MgSO4 MgCl2 NaHCO3	60.2 47.6 84.0	179.9	8566
CaCO3 13 mg/I CaSO4 * 2H2O 2O90 mg/I BaSO4 2.4 mg/I	Ĺ	Na2SO4 NaCl	71.0 58.4	552.2	32271

REMARKS:

----- L. MALLETT / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT



SCALE TENDENCY REPORT

Company : YATES DRILLING Date : 11/09/92
Address : ARTESIA, NEW MEXICO Date Sampled : 11/06/92
Lease : BURKETT FEDERAL Analysis No. : 220
Well : BATTERY Analyst : STEVE TIGERT

Sample Pt. : GUN BARREL

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

S.I. = 0.2 at 80 deg. F or 27 deg. C S.I. = 0.3 at 100 deg. F or 38 deg. C S.I. = 0.3 at 120 deg. F or 49 deg. C S.I. = 0.4 at 140 deg. F or 60 deg. C S.I. = 0.5 at 160 deg. F or 71 deg. C

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

4073 at 80 deg. F or 27 deg C 4208 at 100 deg. F or 38 deg C 4248 at 120 deg. F or 49 deg C 4265 at 140 deg. F or 60 deg C 4195 at 160 deg. F or 71 deg C s = S = S = S =

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT

<u>Cactus Queen</u> Leasehold Ownership

1. SWNW of Section 35, T12 S-R31E, B-10420

C.R. Gallagher, Jr. P.O. Box 628 Pass Christian, MS 39571

Delfern Operating Account 1005 Texas Commerce Bank Bldg. 1208 14th Street Lubbock, Texas 79401

- 2. NWSW of Section 35, T12S-R31E, B-9359 Great Western Drilling Company P.O. Box 1659 Midland, Texas 79702
- 3. SWSW of Section 35, T12S-R31E Unleased State Lands
- 4. SESE of Section 28, T12S-R31E
 Burk Royalty Company
 P.O. Box BRC
 Wichita Falls, Texas 76307

Dalport Petroleum Corporation 1401 Elm Street Dallas, Texas 75202

F. Frank Stringer
Dr. James Womack
Edwin S. Mayer, Jr.
J.A. March III
Guy A. Swartz
P.O. Box 3037
San Angelo, Texas 76901

Eurampex 12001 NW Expressway, Suite 1150 Dallas, Texas 75243

Ramco- NYL 1987 LTD Partnership 100 NW 63rd St., Suite 300 Oklahoma City, Oklahoma 73116

R.B. Operating Company 3100 Mid-Continent Tower Tulsa, OK 74103

Pacific Enterprises Oil Company 5 Greenway Plaza, Suite 300 Houston, Texas 77046

TXO Production Corporation Fidelty Union Tower Dallas, Texas 75201

5. N/2NE/4 of Section 3, T13S-R31E Circle Ridge Production, Inc. 300 East North Side Drive Fort Worth, Texas 76106

<u>Cactus Queen</u> Surface Ownership

1. SW/4, S/2NW/4, SW/4NE/4 of Section 34, T12S-R31E:

W.T. Tivis, Jr. and wife Wilberta P.O. Box 1614 Eunice, New Mexico 88231

2. NW/4SE/4 of Section 34, T12S-R31E:

U.S.A. (surface)

CAMPBELL, CARR, BERGE & SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F CARR
BRADFORD C BERGE
MARK F. SHERIDAN
WILLIAM P SLATTERY

PATRICIA A. MATTHEWS MICHAEL H. FELDEWERT

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POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

November 10, 1992

HAND-DELIVERED

William J. LeMay, Director
Oi Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

RECEIVED

W(. 1

OIL CONSERVATION DIVISION

Re: Case No. 10642

Application of Yates Drilling for Expansion of its Cactus Queen (Voluntary) Unit Waterflood Project and for Qualification of the Expansion Area for the Recovered Oil Tax Rate Pursuant to the "New Mexico Enhanced Oil Recovery Act", Chaves County, New Mexico

Dear Mr. LeMay:

Enclosed is a legal advertisement in the above-referenced case for Yates Drilling. Yates Drilling requests that this case be included on the docket for the December 3, 1992 Examiner hearings.

Your attention to this request is appreciated.

Very truly yours,

WILLIAM F. CARR

ATTORNEY FOR YATES DRILLING

WFC:mlh Enclosure

cc w/enclosure:

Robert G. Stovall, Esq.

General Counsel

CASE ////-:

Application of Yates Drilling Company for expansion of its Cactus Queen (Voluntary) Unit Waterflood Project and for Qualification of the Expansion Area for the Recovered Oil Tax Rate pursuant to the "New Mexico Enhanced Oil Recovery Act", Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Cactus Queen (Voluntary) Unit Waterflood Project which was originally approved by Division Order No. R-9075-B entered on March 15, 1990 by expanding the project area to include portions of Section 34, Township 12 South, Range 31 East, N.M.P.M. and injecting therein water into the Queen formation, Southeast Chaves Queen Gas Area Associated Pool. Applicant also seeks an order pursuant to the Rules and Procedures for Qualifications of Enhanced Oil Recovery Projects and Certification for the Recovered Oil Tax Rate, as promulgated by Division Order No. R-9708, qualifying this expansion of its Cactus Queen (Voluntary) Unit Waterflood Project in portions of Section 34, Township 12 South, Range 31 East, Cactus Queen (Voluntary) Unit, Southeast Chaves Queen Gas Area Associated Pool, for the Recovered Oil Tax Rate under the "(Enhanced Oil Recovery Act") (Laws 1992, Chapter 38, Sections 1 through 5). Said project area is located approximately 12 miles south, southwest of Caprock, New Mexico.