#### OIL CONSERVATION DIVISION

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1.	Purpose: Applicat	X Secondary Recovery Pressure Maintenar ion qualifies for administrative approval?	nce t □ . e::	PHI CONSERVATION DIVISION
ıı.	Operator:	Seely Oil Company		TAINION
	Aadress:	815 W. 10th St., Fort Worth, Tx. 76102		
	Contact par	rty: David L. Henderson	Phone:	817/332-1377
11.	Well data:	Complete the data required on the reverse single proposed for injection. Additional sheets in		
ĮV.		expansion of an existing project?		no .

- 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.
- Attach a tabulation of data on all wells of public record within the area of review which ٧I. penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
  - Proposed average and maximum daily rate and volume of fluids to be injected;

  - Whether the system is open or closed;
     Proposed average and maximum injection pressure;
  - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the propused well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- -vill. 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.
- Χ. Attach appropriate logging and test do with the Division they need not be to
- Attach a chemical analysis of fresh + XI. available and producing) within one a location of wells and dates samples >
  - XII. Applicants for disposal wells must ma examined available geologic and engir or any other hydrologic connection be source of drinking water.
- XIII.

Applicants must complete the "Proof (

XIV. Certification

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

David L. Henderson Title Vice President Signature: Navid L. Date: November 23, 1992

 If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

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#### III. HELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - Lease name: Well No.: Incution 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, hule 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 i "typical data sheet" rather than submitting the data for each well.

- 8. The fillowing 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 wel
  - (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 Gil Conservation Division, P. G. 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 ...

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.

#### SEELY OIL COMPANY

815 WEST TENTH STREET FORT WORTH, TEXAS 78102

OIL CONSERVATION DIVISION FORM C-108

Application of Seely Oil Company For a Secondary Recovery Project Central EK Queen Unit Project Lea County, New Mexico

#### I. Purpose:

Application is made for authorization to inject water into the Queen formation underlying various leases in Sections 7, 8, 9, 17, and 18 of Township 18 South, Range 34 East, Lea County, New Mexico, as shown on the enclosed map. This project would be classified as a secondary recovery project for recovering hydrocarbons that cannot be recovered by primary means.

All the wells in the proposed project area are primary depleted. Our engineering studies indicate that the injection of water into the Queen formation underlying these leases will result in the recovery of secondary oil in economic quantities, and should be beneficial to all parties holding any type of interest in the project area.

### II. Operator:

Seely Oil Company 815 W. 10th Street Fort Worth, Texas 76102

Phone Number: (817) 332-1377

#### III. Injection Well Data:

A well data sheet is attached for each of the wells that we propose for water injection. Three (3) wells are scheduled to be converted to water injection and the locations are as follows:

Section 9-18S-34E Unit Letter L 1980' FSL & 660' FWL Section 9-18S-34E Unit Letter M 660' FSL & 660' FWL Section 7-18S-34E Unit Letter E 2310' FNL & 660' FWL

Schematics are enclosed which show the current construction of these three wells as well as the proposed construction. Two (2) wells are scheduled to be re-entered and returned to water injection and are located as follows:

Section 7-18S-34E Unit Letter F 1650' FNL & 2176' FWL Section 7-18S-34E Unit Letter G 1650' FNL & 1980' FEL

Schematics are enclosed which show the amount and location of plugs in addition to the proposed construction. Six (6) water injection wells are proposed to be drilled at the following locations:

Section 17-18S-34E Unit Letter A
Section 18-18S-34E Unit Letter A
Section 17-18S-34E Unit Letter C
Section 8-18S-34E Unit Letter L
Section 7-18S-34E Unit Letter M
Section 7-18S-34E Unit Letter M

One schematic, titled "Typical Water Injection Well" is enclosed representing the proposed construction of these six (6) wells to be drilled.

#### IV. Existing Project:

The proposed project is not an expansion of a previous project.

#### V. Ownership:

A lease ownership map is enclosed which identifies all wells and lease ownership within two (2) miles of any of the eleven (11) proposed injection wells. A separate map is attached on which the area of review has been identified by drawing a one-half mile circle around each injection well.

#### VI. Well Data:

There are 62 wells that have been drilled through the Queen formation within the area of review. Thirty have been plugged and abandoned and 32 are producing. Available data for each well is enclosed on the well data sheets as well as all necessary schematics for injection wells and plugged and abandoned wells.

#### VII. Project Data:

- 1. The proposed daily average water injection is estimated to be 200 barrels per day for each of the proposed eleven (11) injection wells.
- 2. All oil and water produced will be separated and stored in covered production tanks and all fresh water used will be stored in a covered steel tank; thus, this is a closed system.
- 3. Initially the injection wells may take water on a vaccum, but as the reservoir fills a positive surface injection presure will be required to inject water. The maximum injection pressure will also be determined by proposed 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 well.
- 4. The source of injection fluid will be produced water from the producing wells within the unit and fresh water from the Ogollala aquifier when a fresh water supply well is drilled and completed within the unit boundary.
- 5. No water compatibility problems are expected since Ogollala water has been successfully injected into the Queen formation in the Murphy H. Baxter North EK Queen Unit and the Mobil EK Queen Unit, and compatability tests were performed on various water samples within this Unit Area.

# VIII. Stimulation Program:

Each of the currently producing wells has previously received a fracture treatment which are outlined on the enclosed well data sheets.

The wells that will be converted to water injection may require a small clean-up acid treatment in the amount of about 1,000 to 2,000 gallons prior to injection. Any wells that are drilled for injection will be acidized with a small clean-up acid job and fracture treated with 10,000 to 20,000 gallons and 15,000 to 30,000 lbs. sand.

## IX. Injection Zone Isolation:

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

## X. Certification:

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

C. W. Seely, Petroleum Engineer

November 23, 1992

#### OFFSET OPERATORS

Section 8 Ray Westall Box 4 Loco Hills, N.M. 88255 Amoco Production Company P. O. Box 3092 Houston, Texas 77253 . Attn: Mr. Dan Janik Section 9 Meridian Oil, Inc. 801 Cherry Street, Suite 700 Fort Worth, Texas 76102 JFG Enterprises Box 100 Artesia, N.M. 88211-0100 Collins & Ware Box 2443 Roswell, N.M. 88202-2443 Section 16 Bass Enterprises Production Co. 201 Main Street, Suire 3100 Fort Worth, Texas 76102 Santa Fe Exploration Company P. O. Box 1136 Roswell, N.M. 88202 Mobil Producing Box 633 Midland, Texas 79702 Section 18 Oryx Energy Company Box 1861 Claydesta Plaza 24 Smith Rd. Midland, Texas 79703 Section 12 Oxy USA, Inc. P. O. Box 50250 Midland, Texas 79710 Attn: Mr. Scott Gengler Section 7 Chevron U.S.A. Inc. Permian Basin Production Business Unit P. O. Box 1150 Midland, Texas 79702 Marathon Oil Company

P. O. Box 552

Midland, Texas 79702 Attn: Mr. Tom Hill Section 6

Maralo, Inc. 223 West Wall, 9th Fl. Midland, Texas 79702

# SURFACE:

Ray Pearce, Jr. 1717 Jackson Pecos, Texas 79772

## WORKING INTEREST OWNERS

J. Cleo Thompson & James Cleo Thompson, Jr., a Partnership 325 N. St. Paul, Suite 4500 Dallas, Texas 75201-3993

Patricia Dean Boswell, Trustee 1320 Lake Street

Fort Worth, Texas 76102

John P. Oil Company 1320 Lake Street Fort Worth, Texas 76102

C.E.B. Oil Company 1320 Lake Street Fort Worth, Texas 76102

E.A.B. Oil Company 1320 Lake Street Fort Worth, Texas 76102

P.V.B. Oil Company 1320 Lake Street Fort Worth, Texas 76102

Houston & Emma Hill Trust Estate 500 Throckmorton, Suite 2803 Fort Worth, Texas 76102

Express Air Drilling, Inc. 2 Turtle Creek Village, Suite 1525 Dallas, Texas 75219

Wes-Tex Drilling Company P. O. Box 3739 79604 Abilene, Texas

Northbrook Business Center 506 Fort Worth, Club Bldg. Fort Worth, Texas 76102

Burnett Oil Company 801 Cherry Street, Suite 1500 Fort Worth, Texas 76102

Merlyn W. Dahlin and wife, Ruth G. Dahlin 3220 North Freeway Fort Worth, Texas 76111

Charles P. Davis and wife, Shirley A. Davis 1307 8th Ave., Suite 308 Fort Worth, Texas 76104

David L. Henderson and wife, Dawn Henderson 815 W. 10th Street Fort Worth, Texas 76102

Michael J. Havel and wife, Kathleen A. Havel 7607 Chalkstone Dallas, Texas 75248

C. W. Stumhoffer and wife, Frieda T. Stumhoffer 1007 Ridglea Bank Bldg. Fort Worth, Texas 76116

C. W. Seely and wife, Ina B. Seely 815 W. 10th Street Fort Worth, Texas 76102

Santa Fe Exploration Company P. O. Box 1136

Roswell, New Mexico 88202

Armstrong Energy Corp.

Judy Harris

Laurelind Corp.

Frances Buckler 1809 Aden Rd. Fort Worth, Tx. 76116

Roger W. Moore 8504 Fairway Dr. Fort Worth, Tx. 76116

J. C. Maddux 1012 Ridglea Bank Bldg. Fort Worth, Tx. 76116

Thomas J. Maddux 1012 Ridglea Bank Bldg. Fort Worth, Tx. 76116

#### OVERRIDING ROYALTIES:

Bill M. Scales and wife, Mary T. Scales 500 Throckmorton, Suite 2803 Fort Worth, Texas 76102

Marc H. Lowrance, Jr. and wife, Mary Anne Lowrance P. O. Box 9016
Fort Worth, Texas 76147

C. W. Seely and wife, Ina B. Seely
815 W. 10th St.
Fort Worth, Texas 76102

Amoco Production Company P. O. Box 591 Tulsa, Oklahoma 74102

Thomas R. Smith 1505 S. CR 1130 Midland, Texas 79701

John Saleh 502 North 1st St Lamesa, Texas 79331

Linda W. Smith
P. O. Box 8974
Midland, Texas 79701

Santa Fe Exploration Co. P. O. Box 1136 Roswell, New Mexico 88202

Windell A. Thomason
P. O. Box 411
Midland, Texas 79702-0411

David S. Googins, Jr. P. O. Box 2591 Midland, Texas 79702-2591

George Weis 3300 "B" Moss Ct. Midland, Texas 79707-3644

Bobby Hicks 3306 Andrews Hwy. Midland, Texas 79703-5131

Marathon Oil Company P. O. Box 552 Midland, Texas 79702

Dwight A. Free, Jr. 4356 Edmondson Dallas, Texas 75205

John E. Casev
P. O. Box 10533
Midland, Texas 79702

Bradley A. Pomeroy 7514 East Hinsdale Avenue Englewood, Colorado 80112

Hamon Operating Company 8411 Preston Rd, Suite 800 LB 33 Dallas, Texas 75225

#### ROYALTIES

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, New Mexico 87504-1148

## Lessee of Record

C. W. Stumhoffer & Frieda T. Stumhoffer
1007 Ridglea Bank Bldg.
Fort Worth, Texas 76116

Amoco Production Company P. O. Box 3092 Houston, Texas 77253

Marathon Oil Company P. O. Box 552 Midland, Texas 79702

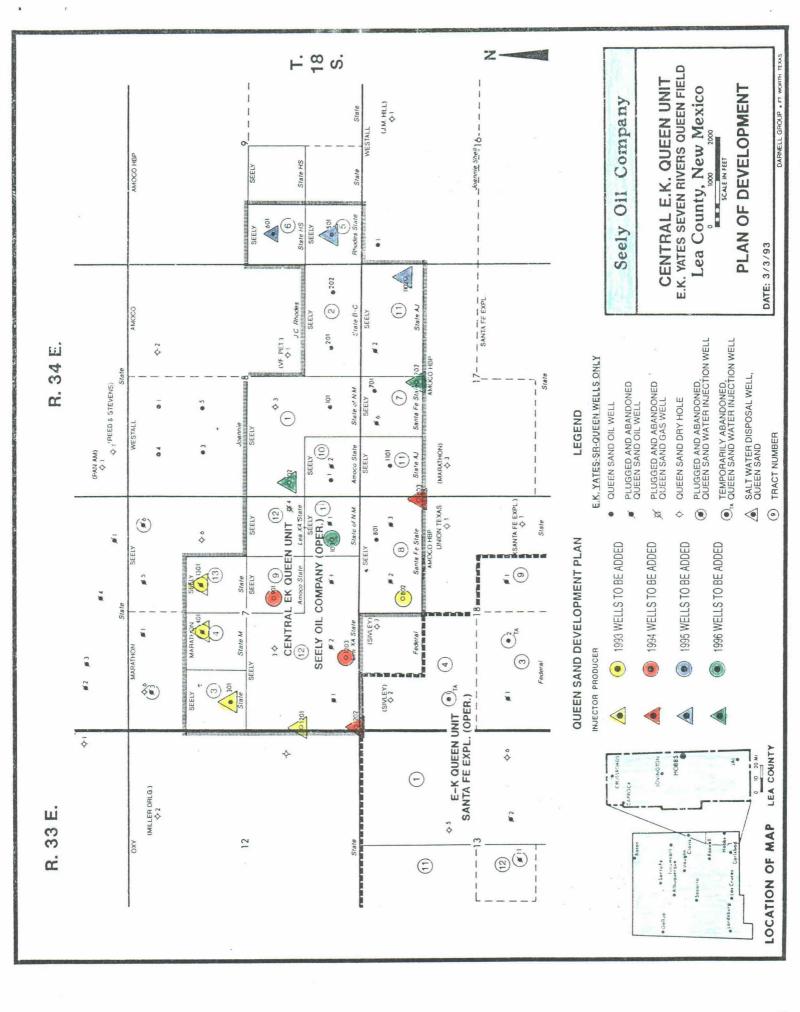
Santa Fe Natural Resorce, Inc. & Ray Westall
P. O. Box 4
Loco Hills, New Mexico 88255

JFG Enterprises
Box 100
Artesia, New Mexico 88211-0100

Oxy USA, Inc.
P. O. Box 50250
Midland, Texas 79710

Pogo Producing Company
P. O. Box 10340
Midland, Texas 79702-7340

Chevron USA, Inc. P. O. Box 1150 Midland, Texas 79702



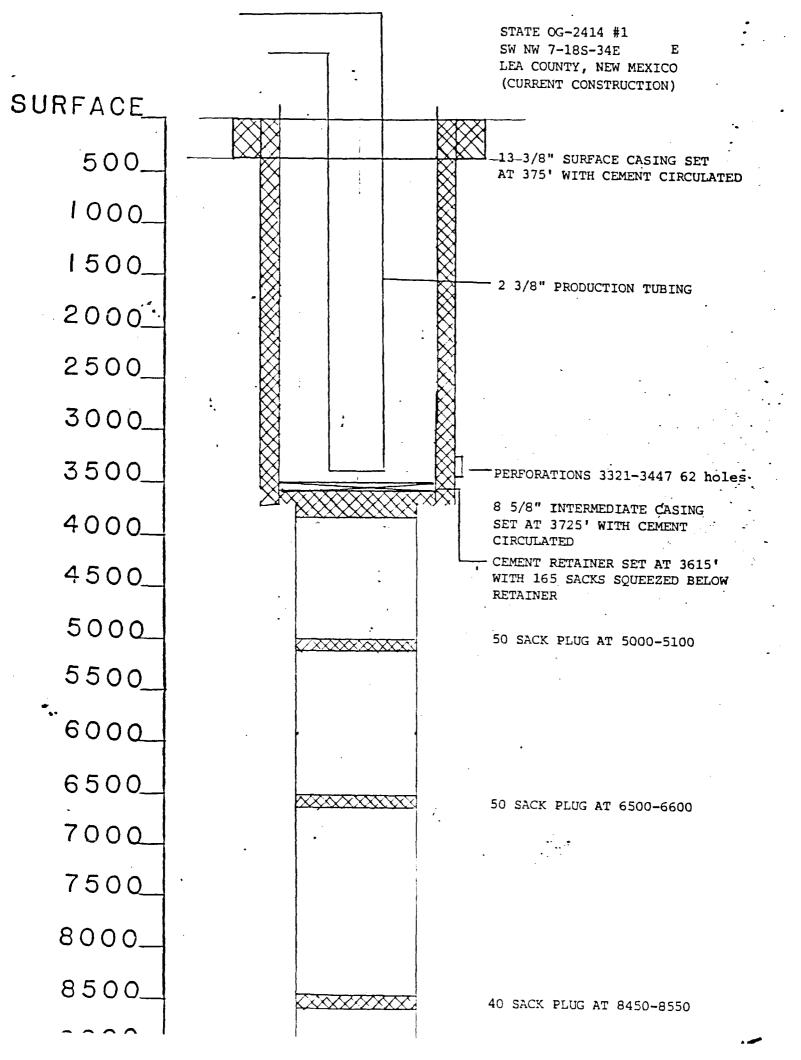
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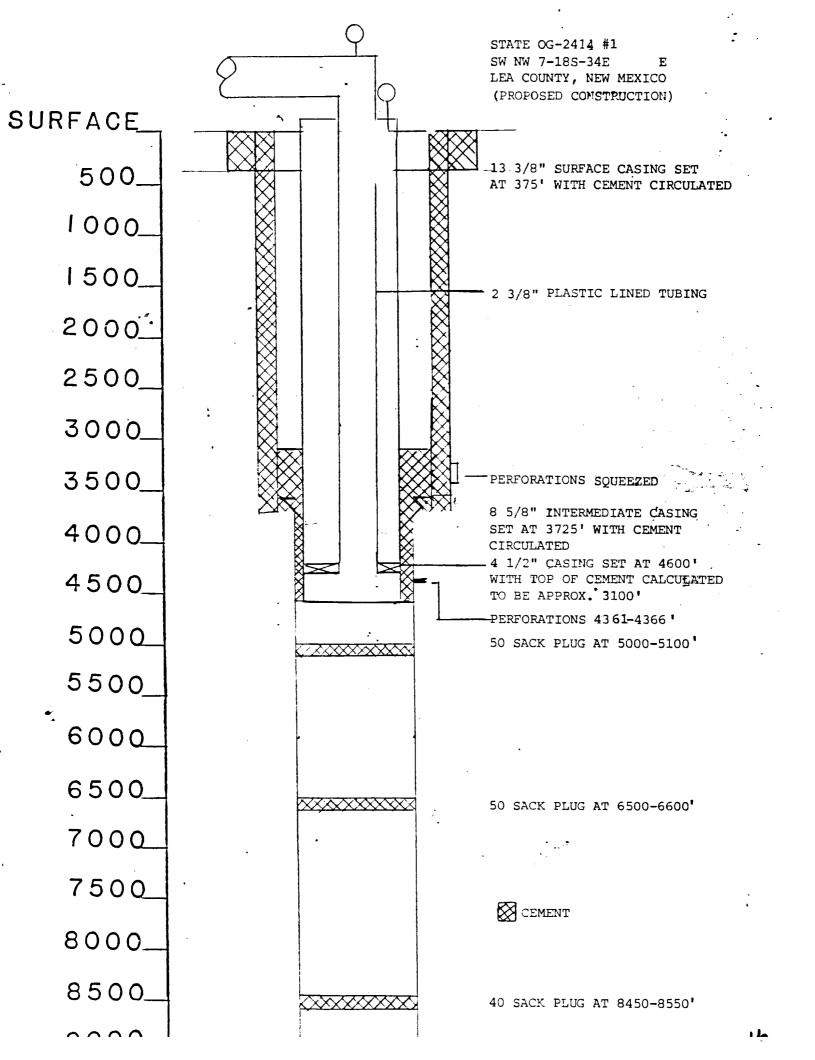
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Seelv	Oil	Company

State OG 2414

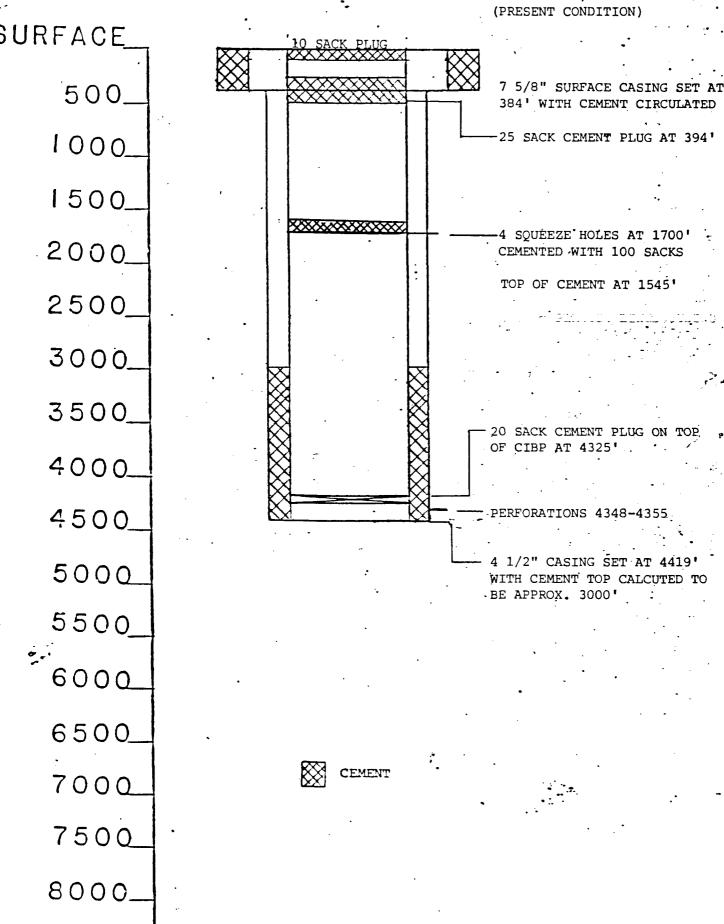
Schematic  Surface Casian  Size 13-3/8" AB# Cemented with 400 ax 100 Surface  Feet determined by Circulation  Note size 1-7-1/2" Set at 375'  Intermediate Casian  Size 8-5/8" 74 & 32# Cemented with 1550 at 100 Surface feet determined by Circulation  Note size 11" Set at 3725'  Long string  Size 4-1/2" 10.5# Cemented with 300 at 100 Surface feet determined by Circulation  Note size 11" Set at 3725'  Long string  FROPOSED  TOC 3100 (ustimated) set determined by Calculation  Note size 7-7/8" Set at 4600'  Total depth 3000'  Injection interval  4361 feet to 4366 feet feet which)  (rand and model)  or describe any other casing-tubing seal).  There Data  I. Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  If no, for what purpose was the well or; mally drilled for injection? 7 Yes \$\overline{\sqrt{y}}\$ to to test the Bone Springs. Is currently Aucting from the Yates formation.  A lias the well ever been perfor in any ather zone(s)? List all such perforated interval and give plugging detail (se. of second or bring) plugging detail (se. of second or bring) plugging wise yes yes. 3321-37', 3331-37', 3347-52', 342'-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.	OPERATOR		LEA	5L			
Schematic  Surface Lasinn  Size 13-3/8" 488	. 1	2310 FNT. & 660	¹ FWI.	7	18S	34E	$\mathbf{E}$
Scheantic Surface Casian  Surface Casian  Size 13-3/8" 48# * Cemented with 400 x  100 Surface feet determined by Circulation  Hole size 17-1/2" Set at 375'  Intermediate Casian  Size 8-5/8" 24 & 32# Cemented with 1550 x  100 Surface feet determined by Circulation  Size 8-5/8" 24 & 32# Cemented with 3725'  Long strian  Size 4-1/2" 10.5# Cemented with 300 x  PROPOSED 100 3100 (estimated feet determined by Calculation Hole size 7-7/8" Set at 4600'  Injection interval 4361 feet to 4366 (perforated or open-hole, indicate which)  Guiborgon Uni-1 packer at 4250 feet (perforated or open-hole, indicate which)  Guiborgon Uni-1 packer at 4250 feet described with 300 x  Ither Data  Name of the injection formation Queen  Name of Field or Fool (if applicable) B-K Vates-Seven Rivers-Queen  Size has a new well drilled for injection? 77 Yes 78 No  If no, far what purpose was the well or; sally drilled? Drilled to 9000' to test the Bone Springs. Is currently size in any other cancels) tisted loud perforated interval and give plugging detail (so: . of cement or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342', 243', 343'-41', 3444-47', total of 62 holes. Will be squeen to the depth to and nose of any overlying and/or underlying oil or gas zones (posle) in	WELL NO.	FOOTAGE LOCATI	ON	SECTION	TOWNSHIP	RANGE	
Scheantic Surface Casian  Surface Casian  Size 13-3/8" 48# * Cemented with 400 x  100 Surface feet determined by Circulation  Hole size 17-1/2" Set at 375'  Intermediate Casian  Size 8-5/8" 24 & 32# Cemented with 1550 x  100 Surface feet determined by Circulation  Size 8-5/8" 24 & 32# Cemented with 3725'  Long strian  Size 4-1/2" 10.5# Cemented with 300 x  PROPOSED 100 3100 (estimated feet determined by Calculation Hole size 7-7/8" Set at 4600'  Injection interval 4361 feet to 4366 (perforated or open-hole, indicate which)  Guiborgon Uni-1 packer at 4250 feet (perforated or open-hole, indicate which)  Guiborgon Uni-1 packer at 4250 feet described with 300 x  Ither Data  Name of the injection formation Queen  Name of Field or Fool (if applicable) B-K Vates-Seven Rivers-Queen  Size has a new well drilled for injection? 77 Yes 78 No  If no, far what purpose was the well or; sally drilled? Drilled to 9000' to test the Bone Springs. Is currently size in any other cancels) tisted loud perforated interval and give plugging detail (so: . of cement or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342', 243', 343'-41', 3444-47', total of 62 holes. Will be squeen to the depth to and nose of any overlying and/or underlying oil or gas zones (posle) in	<del></del>	<del></del>		·			
Size 13-3/8" 48# " Cemented with 400 sx    Surface   Feet determined by   Circulation	Sche	ematic		Tab	ular Data	••	
Size 15-15-15-15-15-15-15-15-15-15-15-15-15-1			Surfac	<del></del> -	<del></del>		
whing size 2-3/8" lined with plastic set in a guiderson Uni-1 (trans and model)  Internation of the injection formation Queen.  1. Name of the injection formation Queen.  1. Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen of the Bone Springs. Is currently aducing From the Yates formation in progress was the well or in, analy dilled? Drilled to 9000' to test the Bone Springs. Is currently aducing from the Yates formation in square and give plugging detail (as . of cenent central) add-query list all such perforated in the progress was the well or in, analy dilled? Drilled to 9000' to test the Bone Springs. Is currently aducing from the Yates formation in square and give plugging detail (as . of cenent or bridge pluging) used) Yes. 3321-25', 3331-37', 3347-38', 342-38', 3434-41, 3444-41, 3444-41, or other details or pas near 2 (posts) in the detail or protocy square prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or ges zones (posts) in conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or ges zones (posts) in square can be squared prior to conversion to water injection.	See	Attached.			Cemented wit	h 400	SX.
Hole size   17-1/2"   Set at   375'	100						
Intermediate Casing  Size 8-5/8" 24 & 32# Cemented with	•				•	<del></del>	
Size 8-5/8" 24 & 32# Cemented with 1550 s.  100 Surface feet determined by Circulation  Hale size 11" Set at 3725'  Long string  Size 4-1/2" 10.5#" Cemented with 300 s.  PROPOSED 100 S100 (estimated feet determined by Calculation  Hale size 7-7/8" Set at 4600'  Total depth 9000'  Injection interval  4361 feet to 4365 (perforated or open-hale, indicate which)  Feet  (material) packer at 4250 feet  (material) set on a set in a feet described by Calculation  No set or open-hale, indicate which)  Street 1 set of set or open-hale, indicate which)  Street 1 set of set or open-hale, indicate which)  Street 1 set or open-hale, indicate which 1 set or open-hale, indicate which 2 set or open-hale, indicate which 3 set or open-hale, indicate which 4 se							
while size 11" Set at 3725'  Long string  Size 4-1/2" 10.5# Cemented with 300 s.  PROPOSED  Tot 3100 (estimated feet determined by Calculation Hole size 7-7/8" Set at 4600'  Total depth 9000'  Injection interval  4361			<del></del>		t Commission with	L 1550	
Hole size 11" Set_at 3725'  Long string  Size 4-1/2" 10.5#" Cemented with 300 s.  PROPOSED TOC 3100 (estimated feet determined by Calculation Hole size 7-7/8" Set at 4600'  Total depth 9000'  Injection interval  4361							
Size 4-1/2" 10.5#" Cemented with 300 street 4-1/2" 10.5#" Cemented with 300 street 4-1/2" 10.5#" Cemented with 300 street 4-1/2" 10.5#" Cemented with 2000 street 4-1/2" 10.5#" Set at 4600'					·		
Size 4-1/2" 10.5#" Cemented with 300 s:  PROPOSED  TOC 3100 (estimated) feet determined by Calculation  Whole size 7-7/8" Set at 4600'  Total depth 9000'  Injection interval  4361					Set at	3/25	
PROPOSED  Total depth 9000'  Injection interval  4361							
Hole size 7-7/8" Set at 4600'  Total depth 9000'  Injection interval  4361							
Ubing size 2-3/8" lined with plastic set in a 4366 (perforated or open-hole, indicate which)    Quiberson Uni-1 (brand and model) or describe any other cosing-tuhing seal).		PROPO					on_
Ubing size 2-3/8" lined with plastic set in a Guiberson Uni-1 (brand and model) or describe any other cosing-tubing scal).  Name of the injection formation Queen  Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  Has the well ever been perfor die any other cosing from the Yates formation.  Has the well ever been perfor die any other rome(s)? List all such perforated interval and give plugging detail (sa. of coence the rome of pluggin					<del></del>	4600 <b>'</b>	
ubing size 2-3/8" lined with plastic set in a (material)  Guiberson Uni-1 packer at 4250 feet (Trand and model)  or describe any other casing-tubing seal).  Uther Data  Name of the injection formation Queen  Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  Is this a new well drilled for injection? The water the Bone Springs. Is currently ducing from the Yates formation.  Has the well ever been perfor thin any other zone(s)? List all such perforated interval and give plugging detail (sat of coment or bridge plug(s) used) Yes. 3321-251, 3331-371, 3347-531, 342-281, 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in			Total	depth 9000!			
ubing size 2-3/8" lined with plastic set in a (material)  Guiberson Uni-1 packer at 4250 feet (trand and model) or describe any other cosing-tubing seal).  Ither Data  Name of the injection formation Queen  Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  Has the well ever been perfor domain in any other zone(s)? List all such perforated interval and give plugging detail (sa., of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342'-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.			Inject	tion interval			
ubing size 2-3/8" lined with plastic set in a (material)  Guiberson Uni-1 packer at 4250 feet (brand and model)  or describe any other casing-tubing seal).  Other Data  Name of the injection formation Queen  Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  If no, for what purpose was the well ori inally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  Has the well ever been performation and give plugging detail (so of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342'-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.			43	61 feet to	4366	feet	
Guiberson Uni-1 packer at 4250 feet (brand and model)  Or describe any other cosing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / Wo  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been performable in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in							
Guiberson Uni-1 packer at 4250 feet (brand and model)  Or describe any other cosing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / Wo  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been performable in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in				•			
Guiberson Uni-1 packer at 4250 feet (brand and model)  Or describe any other cosing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / Wo  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been performable in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in							
Guiberson Uni-1 packer at 4250 feet (brand and model)  Or describe any other cosing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / Wo  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been performable in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in							
Guiberson Uni-1 packer at 4250 feet (brand and model)  Or describe any other cosing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / Wo  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been performable in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in		•	;				
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Guiberson Uni-1 packer at 4250 feet  (brand and model) or describe any other casing-tubing seal).  Other Data  Name of the injection formation Queen  Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  Has the well ever been performed in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 3428'-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.			<i>i</i>				
Guiberson Uni-1 packer at 4250 feet  (brand and model)  or describe any other casing-tubing seal).  Other Data  Name of the injection formation Queen  Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  Is this a new well drilled for injection? / Yes / Wo  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been perfored in any other zone(s)? List all such perforated interval and give plugging detail (sac) of cement or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 3426-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.	uhiaa sis	2_2/0"	lined with	plasti	c	set i	n a
(brand and model) for describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen 2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen 3. Is this a new well drilled for injection? / Yes / No  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been performal in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	uving \$126	2-3/8	, 1110 MACH	-			
Name of the injection formation Queen  Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  Is this a new well drilled for injection? / Yes / No  If no, for what purpose was the well ori mally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  Has the well ever been perfor d in any other zone(s)? List all such perforated interval and give plugging detail (sa of cement or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  So Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in				packer a	t <u>4250</u>	fee	t
Name of the injection formation Queen  Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  Is this a new well drilled for injection? / Yes / Wo  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  Has the well ever been perfored in any other zone(s)? List all such perforated interval and give plugging detail (satisfice of cement or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 3427-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	or descri	be any other casi	ng-tubing seal)	•			
Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / No  If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been perform in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	ther Data						
If no, for what purpose was the well originally drilled? Drilled to 9000' to test the Bone Springs. Is currently ducing from the Yates formation.  Has the well ever been performed in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 3427-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	l. Name o	f the injection f	ormation Que	een			
If no, for what purpose was the well originally drilled? <u>Drilled to 9000' to test</u> the Bone Springs. Is currently aducing from the Yates formation.  4. Has the well ever been perfored in any other zone(s)? List all such perforated interval and give plugging detail (sac., of cement or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 3426-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	2. Name o	f Field or Pool (	if applicable)	E-K Yates-Seve	n Rivers-Queen		
the Bone Springs. Is currently ducing from the Yates formation.  4. Has the well ever been performed in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 342-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	3. Is thi	s a new well dril	led for injecti	on? /// Yes	/x/ No		
Has the well ever been performal in any other zone(s)? List all such perforated interval and give plugging detail (same of coment or bridge plug(s) used) Yes. 3321-25', 3331-37', 3347-53', 3424-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	If no,	for what purpose	was the well o	riginally drilled	? Drilled to 90	00 to tes	<u>t</u>
and give plugging detail (sa	the Bo	ne Springs. Is	currently .	ducing from the	Yates formatio	n.	
3331-37', 3347-53', 3427-28', 3434-41, 3444-47, total of 62 holes. Will be squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	4. Has th	e well ever been	performations	ny other zone(s)?	list all such pe	erforated int	erva.
squeezed prior to conversion to water injection.  5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in	_						<del></del> -
5. Cive the depth to and name of any overlying and/or underlying oil or gas zones (pools) in		<del></del>					
5. Cive the depth to and name or any overlying and/or undiriying oil or gas zones (pools) in this orea. Yates 3300', Grayburg 4500'					unluin- nil no	20000 / 1	
	5. Cive this o	he depth to and n rea. <u>Yates 33</u> 00	ome of any over	uying and/or undo 500°	rrying oil or gas	zones (pool:	3) in



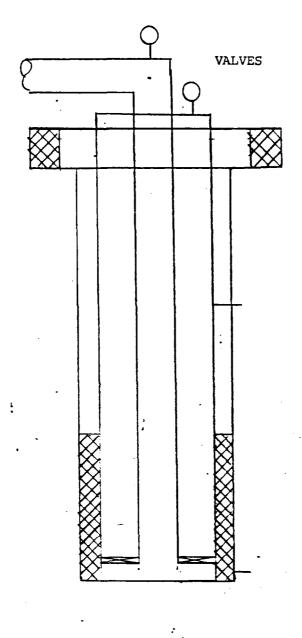


2 2176' FNL & 1650' FNL 7 18S 34E F  FILL ND. FOURACT LUCATION SECTION INMOSHIP ANNIC    Schematic	•	oil Corp.	State M		
Schematic   Iabular Data   See Attached.   Surface Casing   See Attached.   Surface Casing   Size 7-5/8" 26\$   Cemented with 175   Toc Surface   Feet determined by Circulated   Note size 10-3/4"   Set at 384'   Intermediate Casing   Size   Cemented with   Toc   feet determined by   Hole size   Cemented with   Toc   feet determined by   Hole size   Cemented with   Toc   Set at 4419'   Total depth   4421'   Injection interval     4348   feet to   4355     (perforated or open-hole, indicate which)     (particular or open-hole, indicate which)     (particular or open-hole)     (particular or open-hole)	OPERATOR 2	2176' FWL & 1650' FNL		18S	34E F
Surface Casinn  Size 7-5/8" 268				TOWNSHIP	RANGE
See Attached.    Surface fasing   Surface   Su					••
Size 7-5/8" 26# Cemented with 175 g  TOC Surface feet determined by Circulated Hole size 10-3/4" Set at 384'    Intermediate Casing	Sch	ematic		Tabular Data	
To Surface   feet determined by   Circulated	Sec	e Attached.			175
Hole size 10-3/4" Set at 384'    Intermediate Casina	• •	3		· <del></del>	
Intermediate Casion	<i>C</i> *				
Size			Hole size 10-3/4	Set at _	384
Hole size   Long string			Intermediate Casino	<u>n</u>	
Hole size Long string  Size 4-1/2" 11.6# " Cemented with 200  TOC 3000" (estimated@eet determined by Calculation  Hole size 6-3/4" Set at 4419'  Total depth 4421'  Injection interval  4348			Size	" Cemented	withs
Long string   Size 4-1/2" 11.6# " Cemented with 200   TOC 3000' (estimated beet determined by Calculation Hole size 6-3/4" Set at 4419'   Total depth 4421'   Injection interval 4348   feet to 4355   feet (perforated or open-hole, indicate which)   feet (perforated or open-hole, i			TOC	feet determined	i by
Size 4-1/2" 11.6# " Cemented with			Hole size		
Size 4-1/2" 11.6# " Cemented with			Long string		
Tot 3000' (estimated)eet determined by Calculation  Hole size 6-3/4" Set at 4419'  Total depth 4421'  Injection interval  4348 feet to 4355 feet (perforated or open-hole, indicate which)  Guiberson Uni-1 packer at 4250± feet (brand and model) (or describe any other casing-tubing seal).  Other Data  1. Name of field or Pool (if applicable) P-K Yates-Seven Rivers-Queen  2. Name of Field or Pool (if applicable) P-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? 17 Yes 18 No  16 no, for what purpose was the well originally drilled? Oil producer from Queen formation  Queen formation  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervand give plugging detail (sacks of cement or bridge plug(s) used) Yes, 4 squeeze hole			Size 4-1/2" 11.6	5# " Cemented	with 200 s
Injection interval  4348			10C 3000' (estima	atedneet determined	by Calculation
Injection interval  4348			Hole size 6-3/4	 1"	4419'
Injection interval  4348					
A348   feet to   A355   feet		•			
Tubing size 2-3/8" lined with plastic set in a Guiberson Uni-1 packer at 4250± feet (brand and model) (or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes X/No  If no, for what purpose was the well originally drilled? Oil producer from Queen formation  4. Has the well ever been perforated in any other zone(s)? List all such perforated intervand give plugging detail (sacks of cement or bridge plug(s) used) Yes, 4 squeeze holes					
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and give plugging detail (sacks of coment or bridge plug(s) used) Yes, 4 squeeze hole					
@ 1700' cemented w/100 sxs. of cement above anhydrite section	4. Has t	he well ever been perfora ive plugging detail (sack	ted in any other zone s of cement or bridge	e(s)? List all suc plug(s) used) <u>Ye</u>	h perforated interv s. 4 squeeze hole
	@ 170	00' cemented w/100 sxs.	of cement above ar	hydrite section	· · · · · · · · · · · · · · · · · · ·
this orea. Yates 3600', Grayburg 4600'	61113				

STATE M #2 SE NW 7-18S-34E LEA COUNTY, NEW MEXICO (PRESENT CONDITION)



8500



STATE M #2
SE NW 7-18S-34E F
LEA COUNTY, NEW MEXICO
(PROPOSED CONSTRUCTION)

7 5/8" SURFACE CASING SET AT 384' WITH CEMENT CIRCULATED

4 SQUEEZE HOLES AT 1700' CEMENTED WITH 100 SACKS

2 3/8" PLASTIC LINED TUBING

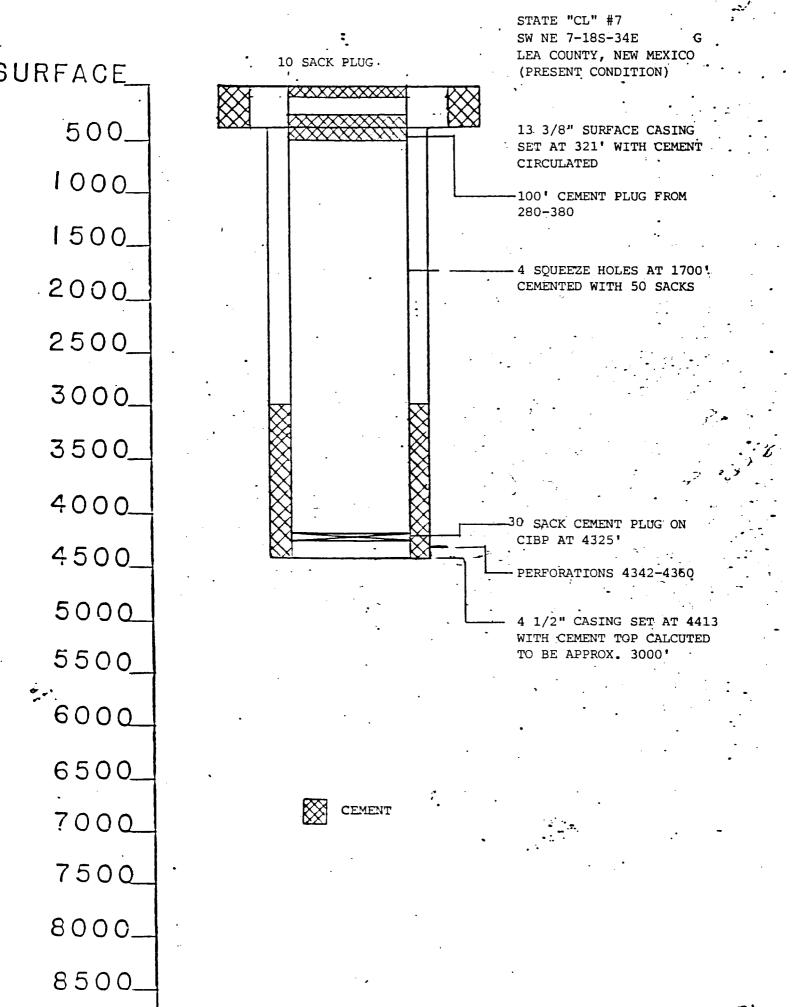
INJECTION PACKER AT 4250+

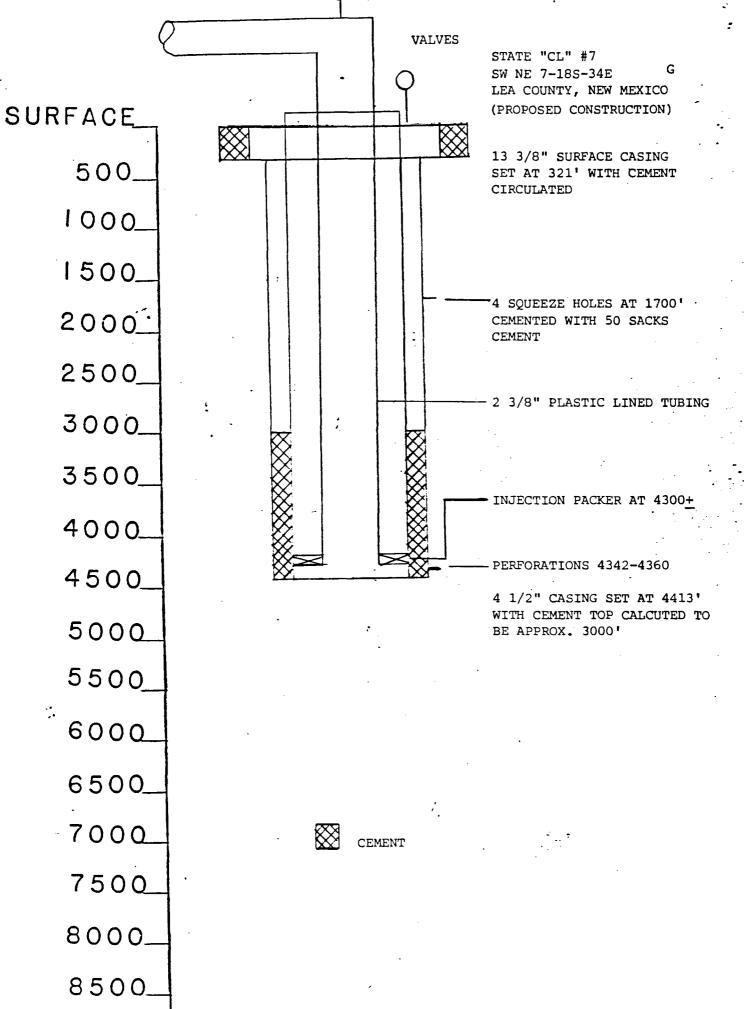
PERFORATIONS 4348-4355

4 1/2"CASING SET AT 4419' WITH CEMENT TOP CALCUTED TO BE APPROX. 3000'

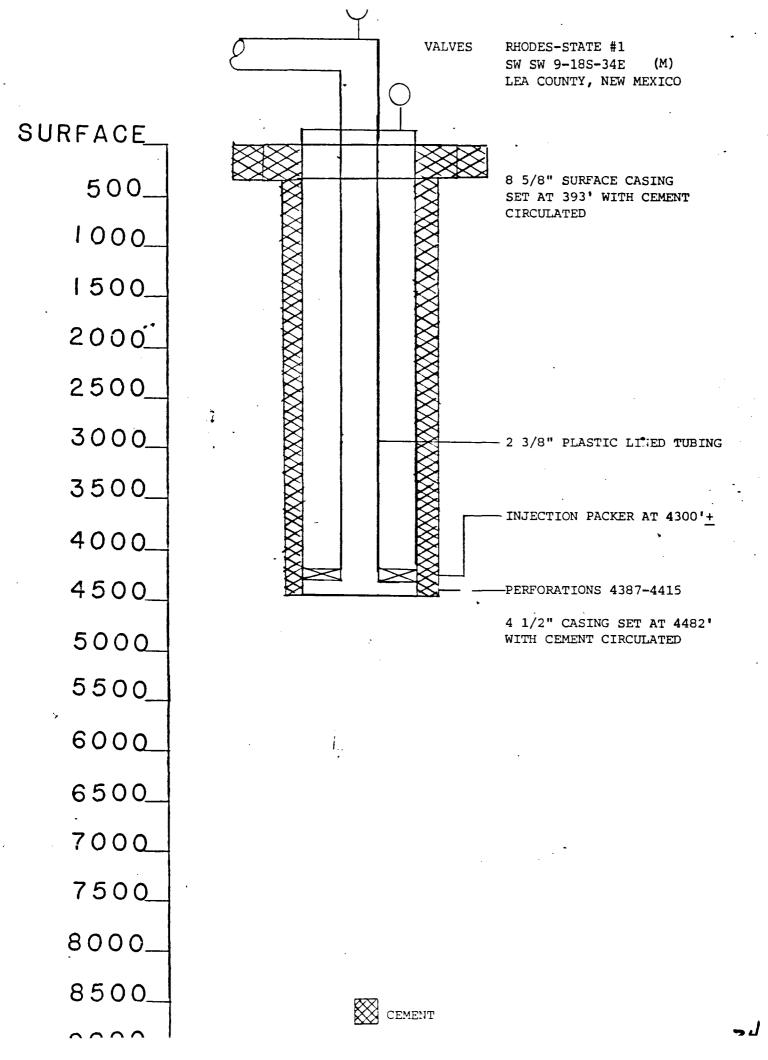


Seely Oil							
7	1650 <b>'</b> F	NL & 1980'	LEAST FEL 7		185	34E	G
IFLL NO.	FOUTAGE LO	CATION	SECTI	NO	TOWNSHIP	RANGE	
<u>Scher</u>	matic				ar Data		
1 1 500	<b>1 1</b>		Surface Casi	<del></del>		2.0	
See	Attached.			35.6#			
<i>(</i> ************************************				e fee			
			Hole size _	17-1/2"	Set at	330	
			Intermediate	<del></del>			
			Size		Cemented w	ith	<del></del>
			100	fee	t determined t	э ,	
			Hole size				
			Long string				
			Size 4-1/2'	9.5# "	Cemented w	ith320	)
			-	(estimated)e			
			Hole size	3"	Set at	4413'	
			Total depth	4413			
		•	Injection in	terval			
			4342	feet to	4360	feet	
	-			•	^	•	
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	-				•	•	
ubing size	2-3/8"	1ine	ed with	plastic (moterio	1)	se	t in a
Guiberson	Uni-1						t in a feet
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Guiberson (br	Uni-1	1)	ed with	(moteria			_
Guiberson (br (or describ	Uni-1 and and mode e any other	l) casing-tubio	ed with	(moteria			_
Guiberson (br (or describ ) (ther Data	Uni-1 and and mode e any other the injecti	i) casing-tubio on formation	ed with	(moteria _ packer at _	4300±		_
Guiberson (br (or describ )ther Data 1. Name of 2. Name of	Uni-1 and and mode e any other the injection Field or Po	l) casing-tubio on formation	ng seal).	(materia packer at _ ates - Seven	4300±  Rivers-Quee		_
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Guiberson (br (or describ ) ther Data  1. Name of 2. Name of 3. Is this If no, Queen f 4. Has the and give	Uni-1 and and mode e any other the injection Field or Po a new well for what pure formation e well ever be ye plugging d	casing-tubion formation of (if apple drilled for pose was the een perforation)	ng seal).  n Queen  icable) E-K Y  injection? /  e well original	(materia _ packer at _ 	Rivers-Quee No Oil production ist all such yes	en cer from perforated - 4 squee	feet
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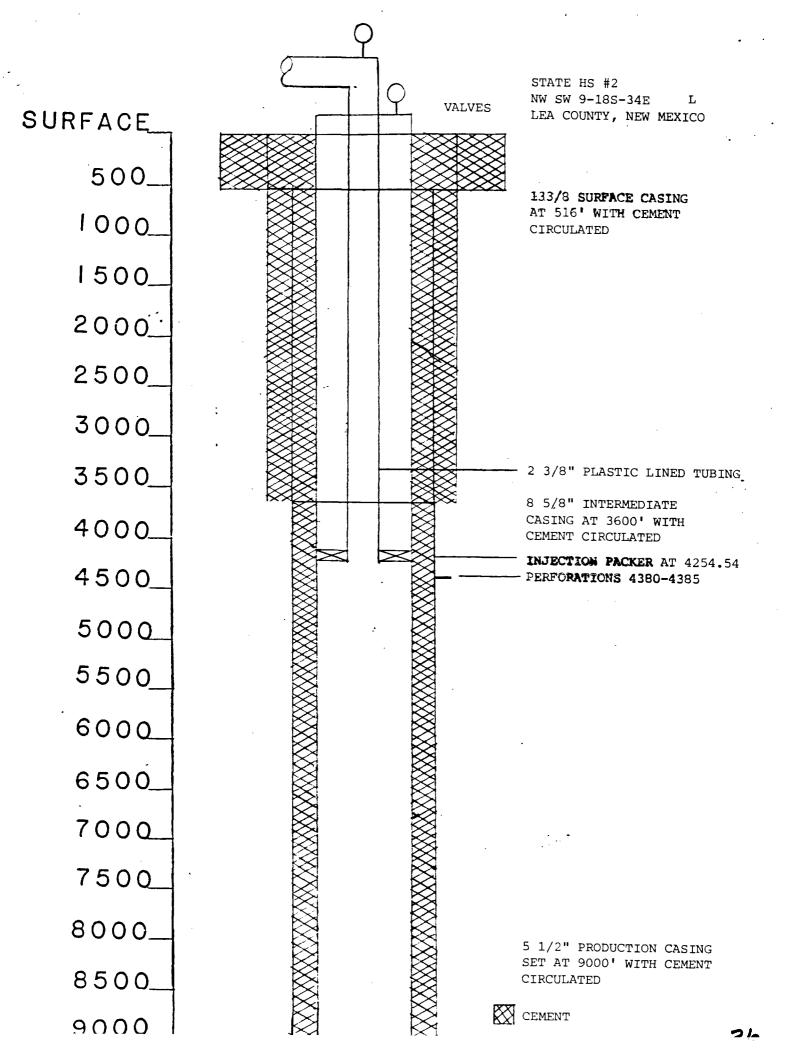




<del></del>	Company	]				
OPERATOR		LEASC	,	· · · · · · · · · · · · · · · · ·		
	660' FSL & 660'			18S	34E	M
ICLL NO.	FOUTAGE LOCATION	S	SECTION	TOWNSHIP	RANGE	
Schemat	ic			Tabular Data		
Jenemire	<u></u>	c	-	addiar bata		
<u> </u>		Surface				
See Att	tached.			_M Cemented wi		
<i>P</i> •				_ feet determined b		
		Hole siz	ze <u>11"</u>	Set at <u>393</u> '	<u> </u>	
		Intermed	diate Casing			
		Size		_" Cemented wi	th	s
				- _ feet determined b		
	•				· ————	
		Long str	<del></del>			
				_" Cemented wi		
		10CSi	rface	_ feet determined b	y <u>Circulate</u>	d
		Hole siz	7-7/8"	<del></del>		
		Total de	epth 4482			
	•	Injectio	on interval			
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	-		•			
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		,				
ubing size	2-3/8"	lined with	p]	astic terial)	set ì	
ubing size Guiberson [	_2-3/8"	lined with	pl (ma packer	astic terial) at 4300±		
Guiberson (brand	Uni-1 I and model)	lined with	pl. (ma packer	astic terial) at 4300±		
Guiberson (brand or describe a	2-3/8" Uni-1 I and model) Iny other casing-to	lined with	pl. (ma packer	astic terial) at 4300±		
Guiberson (brand or describe a	Uni-1 and model) any other casing-to	lined with	packer	astic terial) at 4300±		
Guiberson I (brand or describe a  Other Data  Name of the	Uni-1 land model) any other casing-to ne injection forma	lined withuhing scal).	packer	at 4300±	fee	
Guiberson I (brand or describe a  Other Data  L. Name of the  Name of Fi	Uni-1 I and model) Iny other casing-to the injection formatical or Pool (if a	lined with  uhing scal).  tion Quee  pplicable)	packer en E-K Yates-S	at 4300±  even Rivers-Quee	fee	
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Guiberson I (brand (or describe a  Other Data  1. Name of th  2. Name of Fi  3. Is this a	Uni-1 I and model) Iny other casing-to the injection formaticld or Pool (if a new well drilled	lined with uhing seal).  tionQuee pplicable) for injection	packer n E-K Yates-S ? /7 Yes	at 4300±  even Rivers-Quee	fee	t
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Guiberson I (brand (or describe a  Other Data  1. Name of th  2. Name of fi  3. Is this a If no, for  4. Has the we and give g	Uni-1 I and model) Iny other casing-to the injection formatical or Pool (if a new well drilled or what purpose was cell ever been perfolugging detail (s	lined with  uhing seal).  tion Quee  pplicable)  for injection  the well ori  orated in any acks of cemen	packer  E-K Yates-S  7 Yes ginally drill other zone(s t or bridge p	even Rivers-Quee <u>***</u> No  ed? Oil produce  )? List all such p	en or in Queen	erva

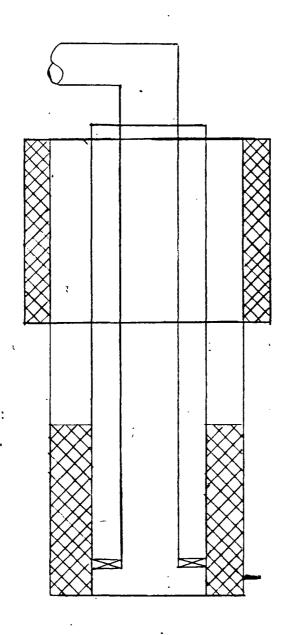


Total   Surface   Feet determined by   Circulation	Seely Oil Company	State HS		
Schematic   Surface Casing   Surface Casing   Surface Casing   Surface Casing   Surface Casing   Surface				245
Schematic Surface Casing  Size 13-3/8" 54.58 Cemented with 550 ax  Tot Surface feet detersined by Circulation  Hole size 20" g.17-1/2"  Intermediate Casing  Size 8-5/8" 24.6 32# Cemented with 1650 a  Tot Surface feet detersined by Circulation  Hole size 11"  Long string  Size 5-1/2" 15.58 Cemented with 1650 a  Tot Surface feet detersined by Circulation  Hole size 11"  Long string  Size 5-1/2" 15.58 Cemented with 1500 a  Tot Surface feet detersined by Circulation  Hole size 17"  Total depth 9000'  Injection interval  4380 feet to 4385 feet  (perforated or open-hole, indicate which)  Test  Watson Nickel Plated packer at 4254.54 feet  Total depth 9000'  In Jection interval  Watson Nickel Plated packer at 4254.54 feet  Watson Nickel Pl				
Surface [31-3/8" 54.58*   Cemented with 550 mx  10C   Surface   Feet determined by Circulation  Hole size   20" s   17-1/2"      Intermediate Casina   Size   8-5/8" 24 s   32#   Cemented with 1650 m    10C   Surface   Feet determined by Circulation    Hole size   11"      Long striam   Size   5-1/2"   15.58*   Feet determined by Circulation    Hole size   11"      Long striam   Size   5-1/2"   15.58*   Feet determined by Circulation    Hole size   7-7/8"    Total dapth   9000'    Injection Interval   4380   Feet to 4385   Feet      Total dapth   9000'      Injection Interval   4380   Feet to 4385   Feet      Total dapth   9000'      Injection Interval   4380   Feet   Feet      Comparison   Feet   Feet   Feet      Total dapth   9000'   Feet   9000'      Total dapth   9000'   Feet   9000'      Injection Interval   4254.54   Feet      Total dapth   9000'   Feet   9000'      Total dapth   9000'   Feet   9000'   9000'      Total dapth   9000'   9000	The transfer of the transfer o	<b>5</b> 67,1100	, man 3n 1	RAGE
Surface [31-3/8" 54.58*   Cemented with 550 mx  10C   Surface   Feet determined by Circulation  Hole size   20" s   17-1/2"      Intermediate Casina   Size   8-5/8" 24 s   32#   Cemented with 1650 m    10C   Surface   Feet determined by Circulation    Hole size   11"      Long striam   Size   5-1/2"   15.58*   Feet determined by Circulation    Hole size   11"      Long striam   Size   5-1/2"   15.58*   Feet determined by Circulation    Hole size   7-7/8"    Total dapth   9000'    Injection Interval   4380   Feet to 4385   Feet      Total dapth   9000'      Injection Interval   4380   Feet to 4385   Feet      Total dapth   9000'      Injection Interval   4380   Feet   Feet      Comparison   Feet   Feet   Feet      Total dapth   9000'   Feet   9000'      Total dapth   9000'   Feet   9000'      Injection Interval   4254.54   Feet      Total dapth   9000'   Feet   9000'      Total dapth   9000'   Feet   9000'   9000'      Total dapth   9000'   9000				••
Size 13-3/9" 54.5H Cemented with 550 mm.  10C Surface feet determined by Circulation Hole size 20" & 17-1/2"    Intermediate Casing Size 8-5/8" 24 & 38# Cemented with 1650 mm.  10C Surface feet determined by Circulation Hole size 11"    Long string	Schematic	<u> </u>	abular Data	
Total   Surface   Feet determined by Circulation   Hole size   20" & 17-1/2"	See Attached	Surface Casing		
Hole size   20" & 17-1/2"		Size 13-3/8" 54.5#	" Cemented wi	thsx.
Intermediate Casina  Size 8-5/8" 24 6 32# Cemented with	P. Carrier and Control of the Contro	TOC Surface	_ feet determined b	y <u>Circulation</u>
Size 8-5/8" 24 s 32# Cemented with 1650 s  10C Surface feet detersined by Circulation  Hole size 11"  Long string Size 5-1/2" 15.5# " Cemented with 1500 s  10C Surface feet determined by Circulation  Hole size 7-2-7/8"  Total depth 9000'  Injection interval  4380 feet to 4385 feet  (perforated or open-hole, indicate which)  Watson Nickel Plated packer at 4254.54 feet  (brand and model)  (or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of field or Pool (if applicable) F-K Yates-Seven Rivors-Queen  3. Is this a new well drilled for injection? 7 Yes XX Wo  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other rone(s)? List all such perforated interval and give plugging detail (sacks of cemont or bridge plug(s) used)		Hole size <u>20" &amp; 1</u>	7-1/2"	
Total depth   Sourface   feet determined by   Circulation		Intermediate Casing		
Total depth   Sourface   feet determined by   Circulation		Size 8-5/8" 24 & 3	2# Cemented wi	th 1650 s
Hole size			_	
Size 5-1/2" 15.5\$ " Cemented with 1500 s  IOC Surface feet determined by Circulation  Hole size 7-7/8"  Total depth 9000'  Injection interval 4380 feet to 4385 feet  (perforated or open-hole, indicate which)  Watson Nickel Plated (brand and model)  (or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? 77 Yes X7 No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well sever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)	•		-	·
Tubing size 2-3/8" lined with Plastic set in a 4385 feet (perforated or open-hole, indicate which)  Watson Nickel Plated (saterial)  (brand and model)  (or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Oueen  2. Name of Field or Pool (if applicable) F-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? 77 Yes X7 No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)		Long string	- 12"	
Tubing size 2-3/8" lined with Plastic set in a 4385 feet (perforated or open-hole, indicate which)  Watson Nickel Plated (prand and model)  (or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? 7 Yes X7 No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)		Size 5-1/2" 15.5#	& I/# _" Cemented wi	th 1500 s:
Hole size 7-7/8"   Total depth 9000'   Injection Interval 4380   feet to 4385   feet   4380   feet to 4385   feet   (perforated or open-hole, indicate which)   feet   (perforated or open-hole, indicate which)   feet   (perforated or open-hole, indicate which)   feet   (material)   (material)   (material)   (material)   (perforated in material)   (perforated in material)   (perforated in material)   (perforated in feet in fee			<del>-</del>	
Total depth 9000'  Injection interval  4380				•
Injection interval  4380 feet to 4385 feet (perforated or open-hole, indicate which)  Iubing size 2-3/8" lined with Plastic set in a (material)  Watson Nickel Plated packer at 4254.54 feet (brand and model) (or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) F-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / X No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)				
Tubing size 2-3/8" lined with Plastic set in a (material) Watson Nickel Plated packer at 4254.54 feet (brand and model) (or describe any other casing-tubing seal).  Other Data 1. Name of the injection formation Queen 2. Name of field or Pool (if applicable) F-K Yates-Seven Rivers-Queen 3. Is this a new well drilled for injection? /7 Yes /X/ No If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production 4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of coment or bridge plug(s) used)				
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Tubing size 2-3/8" lined with Plastic set in a (material)  Watson Nickel Plated packer at 4254.54 feet (brand and model)  (or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection?				
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Watson Nickel Plated  (brand and model)  (or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / X No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of coment or bridge plug(s) used)	Tubing size 2-3/8"	lined with Plasti	c	set in a
(or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes / X No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)		(mat	•	
(or describe any other casing-tubing seal).  Other Data  1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes /X No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)		packer	at 4254.54	feet
1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? /7 Yes /X/ No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)	-	tubing seal).		
1. Name of the injection formation Queen  2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? / Yes /X/ No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of cement or bridge plug(s) used)	Other Data			
2. Name of Field or Pool (if applicable) E-K Yates-Seven Rivers-Queen  3. Is this a new well drilled for injection? /7 Yes /x/ No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of coment or bridge plug(s) used)		ation Queen		
3. Is this a new well drilled for injection? /7 Yes /X/ No  If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of coment or bridge plug(s) used)		* *************************************	ven Rivers-Oueen	
If no, for what purpose was the well originally drilled? To test the Bone Springs formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of coment or bridge plug(s) used)	•			
formation for oil & gas production  4. Has the well ever been perforated in any other zone(s)? List all such perforated interval and give plugging detail (sacks of coment or bridge plug(s) used)		-		Bone Springs
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervalent give plugging detail (sacks of cement or bridge plug(s) used)		· ·		<del></del>
	4 Has the well ever been per	forated in any other zone(s	)? List all such p	erforated interva
	and give prugging decall (	ancks or comenc of ottode b	700/2/ 02c0/	
				<del></del>
	5. Give the depth to and name	of any available and the	dualutas atl as a	



PERATOR		15455			<del></del>
Umminal Ma	ater Injection V	LEASE			
	footage Location v		CTION	TOWNSHIP	RANGE
<del></del>	<del></del>	<del></del>			
Schemal	tic		Tabu	lar Data	**
		Surface Ca	asino	···	
i a				Camanhad!	th 1000 s
	•				
				et determined b	Circulation
		Hole size			
		<u>Intermedi</u> :	ate Casing		
		Size	•	Cemented wi	th
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		HOIE SIZE	<del></del>		
		Long strin	ng		
		Size! <u>4-1</u> /	<u>/2" 10.5#</u> "	Cemented wi	th 400
					Calculation
~			7-7/8 <b>"</b>		
		incar debi	th 4500'		
	·	Injection	interval		
		4350	feet to	4400 , indicate which	feet
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	2_3 /8"		Plastic		> 4
ubing size _	2-3/8"	_ lined with	Plastic (materi	(al)	set in a
Guiberson U	Ini-I	_ lined with			set in a
Guiberson U (branderson under describe sections)	Uni-I d and model) any other casing	-tuhing seal).	(materi		<del></del>
Guiberson Uiction (brance) or describe in ther Data  . Name of the contract of	Ini-I d and model) any other casing the injection for	-tuhing seal).	(moteri packer at	4300	<del></del>
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Guiberson Ui (brandor describe)  ther Data  . Name of the control	Uni-I d and model) any other casing the injection for ield or Pool (if new well drille	-tuhing seal), mation Queen applicable) EK d for injection?	packer at  Yates-Seven	A300' Rivers-Queen 7 No	<del></del>
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Guiberson U (brandor describe)  ther Data  Name of the	Ini-I d and model) any other casing the injection fore field or Pool (if new well drille or what purpose well ever been pe plugging detail	-tuhing seal).  mation Queen  applicable) EK  d for injection?  as the well origi	yates-Seven  /x/ Yes / inally drilled?  other zone(s)? or bridge plug	A300'  Rivers-Queen  7 No  List all such p (s) used) No	erforated interv

9000



"Typical Water Injection Well" E-K Yates-Seven Rivers-Queen Area Lea County, New Mexico

8-5/8" surface casing set at approx. 1700' and cemented to surface

2-3/8" plastic lined tubing

Injection packer set at approx. 4300'

Perforations in Queen at approx. 4350-4400.

4-1/2 production casing set at approx. 4500' with top of cement at approx. 2800'

Cement

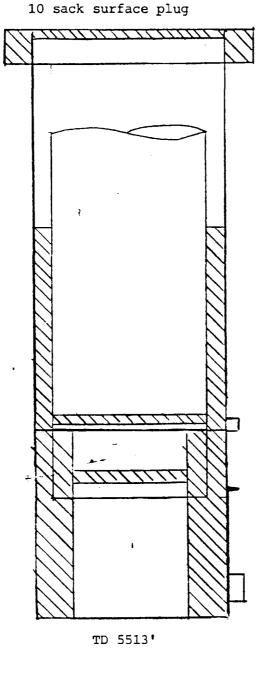
OPERATOR: O	Oxy USA		LEASE: State	e DW	<del></del>
WELL NO.:5	,	FOOTAGE: 660'	FSL & 660' FEL	SECTION: 12-18S-34E	
		TUBULAR	DATA		
SURFACE CASING	<u> </u>				
SIZE: 13-3/8" TOC: Surface HOLE SIZE: 17	48#/ft. -1/2"	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	500 Circulation 348'	_sx.
INTERMEDIATE (	CASING				
SIZE: 8-5/8" TOC: Surface HOLE SIZE: 1	24 & 32# e 1"	FEET		1300 Circulation 3300'	_sx.
LONG STRING	•				
SIZE: 5-1/2" TOC: 3300' HOLE SIZE: TOTAL DEPTH:	7-7/8"	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	1335 CBL 9030'	_sx.
		PRODUCING	INTERVAL		
FORMATION: Y SPUD DATE: PERFORATED:	7/24/84	F	POOL OR FIELD: COMPLETION DATE EET TO 3478	EK Yates-Seven Rive	rs-Queen FEET
STIMULATION:_	Acid - 2000	O gals. 7-1/29	% HCL, Frac - 26	,000 gals. & 59,000#	12/20
OTHER PERFORA	TED ZONES:_	Bone Springs	s 8689-8876, San	Andres 5091-5096	
		CURRENT	STATUS		
WHAT IS CURRE	NT STATUS O		oducing from Yat	es formation	<del></del>
IF P&A, LIST	PLUGGING DE	TAILS:			
	<del></del>	······································	<del></del>		

OPERATOR: Oxy USA	LEASE: S	tate "DW"	
WELL NO.: 3 FOOTAGE: 198	0' FNL & 660' F	EL SECTION: 12-	18S-33E H
· · · · · · · · · · · · · · · · · · ·		<u> </u>	<del></del>
TUBULAR	R DATA		
SURFACE CASING			
SIZE: 13-3/8" 48#	CEMENTED WITH:	500 Circulation	sx.
TOC: Surface FEET	DETERMINED BY:	Circulation	
HOLE SIZE: 17-1/2"	SETTING DEPTH:	350	
INTERMEDIATE CASING			
SIZE: 8-5/8" 24 & 32#	CEMENTED WITH:	1300	sx.
FOC: Surface FEET	DETERMINED BY	Circulation	-
	SETTING DEPTH:	3304'	
LONG STRING			
SIZE: 5-1/2" 15.5 & 17#			sx.
	DETERMINED BY		
HOLE SIZE: 7-7/8"	SETTING DEPTH	8949	
PRODUCING	; INTERVAL		
FORMATION: Yates	POOL OR FIELD:	E-K Yates-Seven	Rivers-Oue
SPUD DATE: 6/1/84	COMPLETION DAT	TE: 10/16/84	
	EET TO		FEET
STIMULATION: 2000 gallons 7-1/2% aci			
15,000 gallons CO <sub>2</sub> (71 tons) plus 18,	000# 20/40 sand	plus 48,000# 12	/20 sand
OTHER PERFORATED ZONES: Unknown			
CURRENT	T STATUS		
WHAT IS CURRENT STATUS OF WELL?P	umping oil well		
IF P&A, LIST PLUGGING DETAILS:		···	

OPERATOR:	Оху	USA		LEASE: State	e "DW"	
WELL NO.:	6		FOOTAGE: 1980	' FSL & 330' FEL	SECTION: 12-185-33	E I
<u> </u>		<del></del>				
			TUBULAR	DATA		
SURFACE CASI	ING					
SIZE: 13-3	/8"	48#	,	CEMENTED WITH:_	500 Circulation	_sx.
FOC: Surf	ace		FEET	DETERMINED BY:	Circulation	
HOLE SIZE:_	17-1	1/2"		SETTING DEPTH:	3491	<del></del>
INTERMEDIATE	E CAS	ING				
SIZE: 8-5	/8"	24 & 32	#	CEMENTED WITH:	1300	SX.
roc:surfa	се		FEET	DETERMINED BY:	Circulation 3300'	
HOLE SIZE:_	11"	<del></del>		SETTING DEPTH:	3300'	
LONG STRING						
SIZE: 5-1/2		15.5 &	17#	CEMENTED WITH:	1265	SX.
TOC: 331	0		FEET	DETERMINED BY	CBI	
				SETTING DEPTH:	1265 CBL 8914'	
					8914 <b>'</b>	
TOTAL DEPTH: FORMATION:	89 Bone	914'	PRODUCING	INTERVAL		
TOTAL DEPTH: FORMATION:	89 Bone	914'	PRODUCING	INTERVAL		
TOTAL DEPTH: FORMATION:	89 Bone	914'	PRODUCING	INTERVAL	Mescalero Escarpe (E : 9/18/84	
TOTAL DEPTH:  FORMATION:  SPUD DATE:  PERFORATED:	Bone 8/17 860	914' <u>Spring</u> 7/84	PRODUCING	INTERVAL  POOL OR FIELD: 1  COMPLETION DATE EET TO 8789'	Mescalero Escarpe (E : 9/18/84	Sone Sprin
TOTAL DEPTH:  FORMATION:  SPUD DATE:  PERFORATED:	Bone 8/17 860	914' <u>Spring</u> 7/84	PRODUCING SF	INTERVAL  POOL OR FIELD: 1  COMPLETION DATE EET TO 8789'	Mescalero Escarpe (E : 9/18/84	Sone Sprin
TOTAL DEPTH:  FORMATION:  SPUD DATE:  PERFORATED:	Bone 8/17 860	914' <u>Spring</u> 7/84	PRODUCING SF	INTERVAL  POOL OR FIELD: 1  COMPLETION DATE EET TO 8789'	Mescalero Escarpe (E : 9/18/84	Sone Sprin
FORMATION: SPUD DATE: PERFORATED:	Bone 8/17 860	914' e Spring 7/84 06 8500 gal	PRODUCING S FI  Ions 15% NEFE	INTERVAL  POOL OR FIELD: 1  COMPLETION DATE EET TO 8789'	Mescalero Escarpe (E : 9/18/84	Sone Sprin
FORMATION: SPUD DATE: PERFORATED: STIMULATION:	Bone 8/17 860	914' e Spring 7/84 06 8500 gal	PRODUCING S FI  Ions 15% NEFE	INTERVAL  POOL OR FIELD: 1  COMPLETION DATE EET TO 8789'	Mescalero Escarpe (E : 9/18/84	Sone Sprin
FORMATION: SPUD DATE: PERFORATED: STIMULATION:	Bone 8/17 860	914' e Spring 7/84 06 8500 gal	PRODUCING S FI  Ions 15% NEFE	INTERVAL  POOL OR FIELD: 1  COMPLETION DATE  EET TO 8789'  acid	Mescalero Escarpe (E : 9/18/84	Sone Sprin
FORMATION: SPUD DATE: PERFORATED: STIMULATION:	Bone 8/17 860 :_ 8	e Spring 7/84 06 3500 gal	PRODUCING  S  FI  lons 15% NEFE  None  CURRENT	INTERVAL  POOL OR FIELD: 1  COMPLETION DATE  EET TO 8789'  acid	Mescalero Escarpe (E : 9/18/84	Sone Sprin
FORMATION: SPUD DATE: PERFORATED: STIMULATION: OTHER PERFOR	Bone 8/17 860 RATED	Spring 7/84 06 3500 gal ZONES:	PRODUCING  S  FI  lons 15% NEFE  None  CURRENT  OF WELL?  P	INTERVAL  POOL OR FIELD: 1 COMPLETION DATE EET TO 8789' acid	Mescalero Escarpe (E : 9/18/84	Sone Sprin
FORMATION: SPUD DATE: PERFORATED: STIMULATION: OTHER PERFOR	Bone 8/17 860 RATED	Spring 7/84 06 3500 gal ZONES:	PRODUCING  S  FI  lons 15% NEFE  None  CURRENT  OF WELL?  P	INTERVAL  POOL OR FIELD: 1 COMPLETION DATE EET TO 8789' acid  STATUS  Emping oil well	Mescalero Escarpe (E : 9/18/84	Sone Sprin

OPERATOR: Plateau Oil Company	LEASE:State	····
WELL NO.: 1 FOOTAGE: 660	' FEL & 1980' FSL SECTION: 12-1	8S-33E I
TUBULAF	DATA	
SURFACE CASING		
SIZE: 8-5/8"	CEMENTED WITH: 250	sx.
TOC: Surface FEET	DETERMINED BY: Circulation SETTING DEPTH: 300'	
HOLE SIZE: 11"	SETTING DEPTH: 300'	<del></del>
INTERMEDIATE CASING		
SIZE: 7" 23#	CEMENTED WITH: 500	SX.
TCC: 1800 (estimated) FEET	DETERMINED BY: Caculation	
	SETTING DEPTH: 4364'	
LONG STRING		
SIZE: 5-1/2" 15.5# (liner)	CEMENTED WITH 300	SX.
SIZE: 5-1/2" 15.5# (liner) TOC: 3760' FEET	DETERMINED BY: Unknown	
HOLE SIZE: 7-7/8"	SETTING DEPTH: 3760-5465'	
TOTAL DEPTH: 5513'		
PRODUCING	INTERVAL	
FORMATION: San Andres	POOL OR FIELD: E-K San Andres	
SPUD DATE: 5/25/55	COMPLETION DATE: 10/10/55	<del></del>
	EET TO 5390	FEET
STIMULATION: 10,000 gallons crude a	ind 15,000# sand	
OTHER PERFORATED ZONES: Queen 4345-	-4364', Yates 3695-3762'	
CUPDENT	'STATUS	
	JIAIUS	
WHAT IS CURRENT STATUS OF WELL? P&A		
IF P&A, LIST PLUGGING DETAILS: Squeez		1,
10 sxs. surface plug.		

8500



8-5/8" surface casing set at 300' with cement circulated

Top of cement calculated to be approx. 1800'

7" casing set at 4364'

Perforations 3695-3762 squeezed

10 sx. plug at 3700° 20 sx. plug at 4200°

Perforations 4345-4364' squeezed

Perforations 5062-5390'

5-1/2" liner set at 3760-5465' with top of cement at 3760'

Cement

OPERATOR: Oxy USA	LEASE: State	"DW"	<del></del>
WELL NO.: 1 FOOTAGE: 19	80' FSL & 1650' FEL	SECTION: 12-18S	-34E J
·.			
TUBULA	R DATA		
SURFACE CASING			
SIZE: 13-3/8" 48 & 61#	CEMENTED WITH.	600	SX.
TOC: Surface FEET	DETERMINED BY: C:		
HOLE SIZE: 17-1/2"	SETTING DEPTH:		
INTERMEDIATE CASING			
SIZE: 8-5/8" 24 & 32#	CEMENTED WITH:	4105	sx.
	DETERMINED BY: C:		
HOLE SIZE: 17"	SETTING DEPTH:	5283 <b>'</b>	
LONG STRING			
SIZE: 5-1/2" 17#	CEMENTED WITH:	950	sx.
	DETERMINED BY:	ÇBL	
HOLE SIZE: 7-7/8"	SETTING DEPTH:	10,866	
TOTAL DEPTH: 11,094'			
PRODUCINO	G INTERVAL		
FORMATION: Bone Springs	POOL OR FIELD: Me:	scalero Escarpe	(Bone Spr
	COMPLETION DATE:		<del></del>
PERFORATED: 8803	FEET TO 8883	4/17/04	FEET
STIMULATION: 2500 gallons 15% HCL a			<del></del>
OTHER PERFORATED ZONES: None			
	T STATUS		
WHAT IS CURRENT STATUS OF WELL?	Pumping oil well		
IF P&A, LIST PLUGGING DETAILS:		· · · · · · · · · · · · · · · · · · ·	

		LEASE:	State DW	
WELL NO.: 10	'OOTAGE: 990 '	FSL & 2130'	FWL SECTION:	12-18S-33E N
·.	TUBULAR	DATA		
SURFACE CASING				
SIZE: 13-3/8" 48#	,	CEMENTED WIT	TH: 500	sx.
MOC: Surface	FEET	DETERMINED E	Y: Circulatio	n
HOLE SIZE: 17-1/2"	<del></del>	SETTING DEPT	'H: 350'	- <del></del>
INTERMEDIATE CASING				
IZE: 8-5/8" 24 & 32#		CEMENTED WIT	'H: 1300	SX.
COC: Surface	FEET	DETERMINED E	Y: Circulatio	n
HOLE SIZE: 11"			H: 3150'	
LONG STRING				
ST2F• 5=1/2" 15 5 £ 1	7#	CEMENTED WIT	<b>ሣ•</b> 1245	SX.
SIZE: 5-1/2" 15.5 & 1 COC: 3450	FEET	DETERMINED E	TH: 1245 BY: CBL	JA.
HOLE SIZE: 7-7/8"		SETTING DEPT	H: 9097'	· · · · · · · · · · · · · · · · · · ·
rotal Depth: 9097'				
			•	
	PRODUCING	INTERVAL		
TODAM TOWN			<b>.</b>	
			D: Mescalero E DATE: 12/16/8	
	F			
SPUD DATE: 11/12/84 PERFORATED: 8708	FI	EET TO		FEET
SPUD DATE: 11/12/84 PERFORATED: 8708	FI	EET TO		
SPUD DATE: 11/12/84 PERFORATED: 8708	FI	EET TO		
SPUD DATE: 11/12/84 PERFORATED: 8708	FI	EET TO		
SPUD DATE: 11/12/84 PERFORATED: 8708 STIMULATION: 4000 gallo	FE	HCL acid		
SPUD DATE: 11/12/84 PERFORATED: 8708 STIMULATION: 4000 gallo	FE	HCL acid		
SPUD DATE: 11/12/84 PERFORATED: 8708 STIMULATION: 4000 gallo	FE	HCL acid		
SPUD DATE: 11/12/84 PERFORATED: 8708 STIMULATION: 4000 gallo	FE	HCL acid		
SPUD DATE: 11/12/84 PERFORATED: 8708  STIMULATION: 4000 gallo  OTHER PERFORATED ZONES:	THE NET INS 15% NEFE IN NONE KNOWN	EET TO	8761	
SPUD DATE: 11/12/84 PERFORATED: 8708  STIMULATION: 4000 gallo  OTHER PERFORATED ZONES:  WHAT IS CURRENT STATUS OF	None known  CURRENT  WELL?	STATUS Pumping oil v	8761 vell	FEET
FORMATION: Bone Springs SPUD DATE: 11/12/84 PERFORATED: 8708  STIMULATION: 4000 gallo  OTHER PERFORATED ZONES:	None known  CURRENT  WELL?	STATUS Pumping oil v	8761 vell	FEET
SPUD DATE: 11/12/84 PERFORATED: 8708  STIMULATION: 4000 gallo  OTHER PERFORATED ZONES:  WHAT IS CURRENT STATUS OF	None known  CURRENT  WELL?	STATUS Pumping oil v	8761 vell	FEET

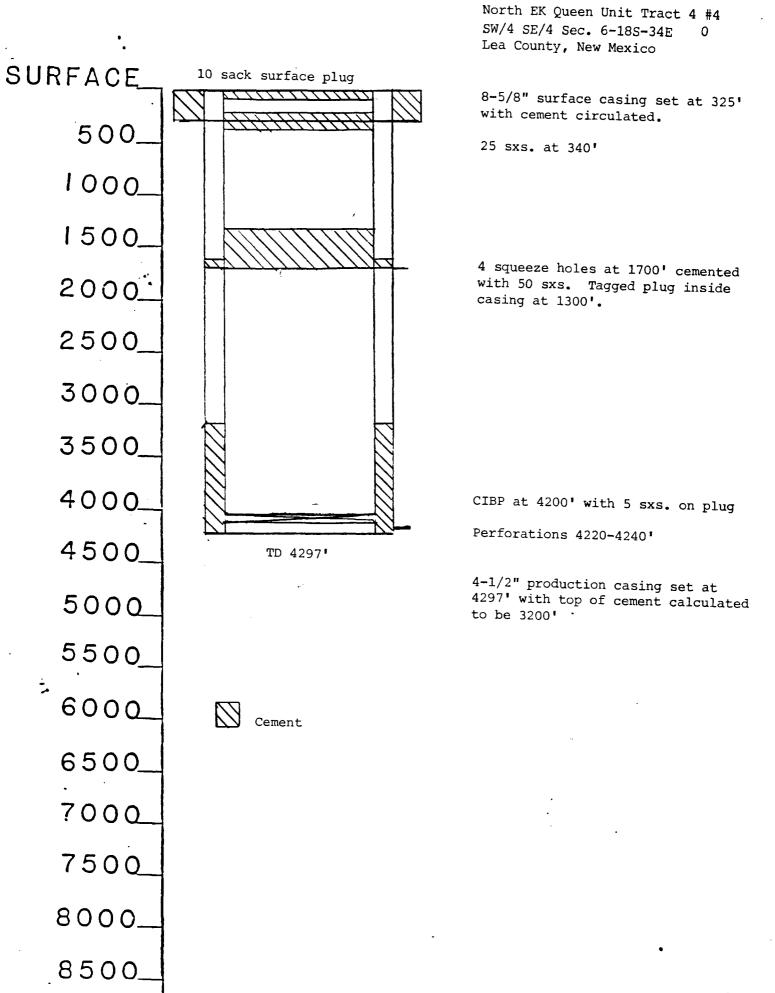
OPERATOR: Oxy USA	LEASE: State "	DW"	<del></del>
WELL NO.: 8 FOOTAGE: 710	)' FSL & 1830' FEL S	ECTION: 12-18S-	33E 0
TUBULA	R DATA		<del></del>
SURFACE CASING			
SIZE: 13-3/8" 48#  TOC: Surface FEET	DETERMINED BY: Ci	rculation	sx.
HOLE SIZE: 17-1/2"  INTERMEDIATE CASING	SETTING DEPTH:	350'	·
SIZE: 8-5/8" 24 & 32#  TOC: Surface FEET  HOLE SIZE: 11"	CEMENTED WITH: DETERMINED BY: Cir SETTING DEPTH:	culation	sx.
LONG STRING	DD111110 DD11111.	3140'	
SIZE: 5-1.2" 15.5 & 17#  TOC: 3100 FEET  HOLE SIZE: 7-7/8"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	2550 CBL 9072	sx.
TOTAL DEPTH: 9080 ·			
PRODUCING	G INTERVAL		
SPUD DATE: 9/11/84	POOL OR FIELD: Mes COMPLETION DATE:	10/20/84	
	FEET TO 8866		FEET
STIMULATION: 4000 gallons 15% NEFE	acid		
OTHER PERFORATED ZONES: None			
			<del></del>
CURRENT	T STATUS		
WHAT IS CURRENT STATUS OF WELL? Pr	umping oil well		
IF P&A, LIST PLUGGING DETAILS:			
	<u> </u>		<del></del>

OPERATOR: Oryx	LEASE: Mesca	alero Ridge	Federal	
WELL NO.: 3 FOOTAGE: 430	' FNL & 900' FEI	SECTION:	13-18S-33E	. A
TUBULAR	DATA			
SURFACE CASING				
SIZE: 13-3/8" 48#         TOC: Surface HOLE SIZE: 17-1/2"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	Circulatio	n	- -
INTERMEDIATE CASING				
SIZE: 8-5/8" 24 & 32#  TOC: Surface FEET  HOLE SIZE: 12-1/4"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	1000 Circulatio 3311	SX.	-
LONG STRING				
SIZE: 5-1/2" 15.5 & 17#  TOC: 3300 (estimated) FEET  HOLE SIZE: 7-7/8"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	Calculatio	00 SX.	-
TOTAL DEPTH: 9200'		3200	<del></del>	-
PRODUCING FORMATION: Bone Springs	POOL OR FIELD:	Mescalero E	scarpe Bone Sp	prings
SPUD DATE: 12/1/85 PERFORATED: 8744 F	COMPLETION DAT	E: <u>1/21/86</u> 766	FEET	Ī
STIMULATION: Acidized with 2500 gall	ons 20% NEFE HC	<u></u>		- -
				<b>-</b>
OTHER PERFORATED ZONES: None				<b>-</b>
CURRENT	STATUS			
WHAT IS CURRENT STATUS OF WELL?	umping oil well			
IF P&A, LIST PLUGGING DETAILS:				<del></del> -
				- -

OPERATOR:	Oryx		LEASE:	Mescal	ero Ridge Federa	1
WELL NO.:	1	FOOTAGE: 33	30' FNL & 2	030' FEL	SECTION: 13-18S	-33E B
			······································			
		TUBULA	R DATA			
SURFACE CASI	ING					
SIZE: 13-3	/8" 48#	:	CEMENTED	WITH:	375	sx.
TOC: Surf	ace	FEET	DETERMIN	ED BY:	Circulation	
HOLE SIZE:_	17-1/2"	<del></del>	SETTING	DEPTH:	360	
INTERMEDIATE	CASING					
SIZE: 8-5/	8" 24 &	32#	CEMENTED	WITH:	1300	SX.
HOLE SIZE:	11"		SETTING	DEPTH:	Circulation 3300	
LONG STRING	•					
SIZE: 5-1/	2" 15.5 &	17#	CEMENTED	WITH:	1600	SX.
TOC: 2000'	(estimated)	FEET	DETERMIN	ED BY:	Calculation	
HOLE SIZE:	7-7/8"	-	SETTING	DEPTH:	9300'	
FORMATION:	Bone Springs		G INTERVAL		escalero Escarpe 7/2/85	(Bone Spr
SPUD DATE:	6/1/85		COMPLETI	ON DATE:	7/2/85	
PERFORATED:_	8714		FEET TO	8773	·	FEET
STIMULATION:	4000 gall	Lons 20% NEFI	E HCL			
OTHER PERFOR	RATED ZONES:	None				
	<del></del>					
		CURREN	IT STATUS			
WHAT IS CURF	RENT STATUS C	F WELL?	Pumping oi	l well_		
IF P&A, LIST	PLUGGING DE	ETAILS:	·			
	<del></del>	<del></del>				
						<del></del>

OPERATOR: Oryx	LEASE: Mescal	ero Ridge Federal	
WELL NO.: 2 FOOTAGE: 170	0' FNL & 1700' FE	EL SECTION: 13-18S-	33E G
TUBULA	R DATA		
SURFACE CASING			
SIZE: 13-3/8" 48#	CEMENTED WITH:	375	sx.
TOC: Surface FEET	DETERMINED BY:	Circulation	
HOLE SIZE: 17-1/2"	SETTING DEPTH:	363'	
INTERMEDIATE CASING			
	CEMENTED WITH:		SX.
TOC: Surface FEET	DETERMINED BY:	Circulation	
HOLE SIZE: 11"	SETTING DEPTH:		
LONG STRING			
SIZE: 5-1/2" _ 15.5 & 17#	CEMENTED WITH:	1450	SX.
TOC: 2000 (estimated) FEET	DETERMINED BY:	Calculation	
HOLE SIZE: 7-7/8"	SETTING DEPTH:		
	G INTERVAL		
	POOL OR FIELD:	Mescalero Escarpe	Bone Spring
	COMPLETION DATE		FEET
FERTORATED: 8/49	8/80	J	FEE1
STIMULATION: 4000 gallons 20% NEFE	HCL		
OTHER PERFORATED ZONES: None		·····	
CURREN	T STATUS		
WHAT IS CURRENT STATUS OF WELL? Pu	mping oil well		
IF P&A, LIST PLUGGING DETAILS:			
			<del></del>

OPERATOR:_	Murphy Baxter		_ LEASE: Nor	th E.K. Que	en Unit Trac	t 4
WELL NO.:_	4	FOOTAGE: 660	FSL & 2310'	FEL SECTIO	N: 6-185-34E	0
		TUBULAR	DATA			
SURFACE CA	SING					
roc: Sur	/8" 22.7# face 12-1/4"	FEET	DETERMINED E	BY: Circulat	tion	_sx.
INTERMEDIA	TE CASING					
SIZE: TOC: HOLE SIZE:	None	FEET	DETERMINED E	3Y:		
LONG STRING	_					
	1/2" 9.5# 00 (estimated) 7-7/8" H: 4297'	FEET	CEMENTED WIT DETERMINED I SETTING DEPT	FH: 38 BY: Calcula FH: 42	30 tion 97'	_sx.
		PRODUCING	INTERVAL			
FORMATION:	Queen 7/7/62		POOL OR FIELD COMPLETION I	LD: E-K Yate:	s-Seven Rive	rs-Que
PERFORATED	: 4220	F	EET TO			FEET
STIMULATIO	N: 500 gallo	ons acid, 20,0	00 gallons oi	11 & 40,000#	sand	
OTHER PERF	ORATED ZONES:_	None				
	···.	····				
		CURRENT	STATUS			•
WHAT IS CU	RRENT STATUS C	F WELL? P&A	<del></del>	<del></del>		
Perforate	ST PLUGGING DE 4 holes at 170 340', 10 sxs.	00 and squeez	at 4200' with ed with 50 sx	1 5 sxs. cem	ent on plug. g at 1300',	<del></del>



OPERATOR: Marlo Drilling Co.	LEASE: Mobil State
WELL NO.: 1 FOOTAG	GE: 330' FSL & 990' FEL SECTION: 6-18S-34E
· · · · · · · · · · · · · · · · · · ·	TUBULAR DATA
SURFACE CASING	
SIZE: 8-5/8" 24#  TOC: Surface  HOLE SIZE: 12-1/4"	CEMENTED WITH: 275 SX.  FEET DETERMINED BY: Circulation SETTING DEPTH: 325
INTERMEDIATE CASING  SIZE: None  TOC: HOLE SIZE:	CEMENTED WITH:  SX.  FEET DETERMINED BY:  SETTING DEPTH:
<del></del>	CEMENTED WITH: 150 SX.  FEET DETERMINED BY: Calculation SETTING DEPTH: 4337'
PRO	DDUCING INTERVAL
PERFORATED: 4257	POOL OR FIELD: EK Yates-Seven Rivers-Queen COMPLETION DATE: 3/14/63 FEET TO 4265 FEET E acid, 43,000 gals. refined oil & 70,000# sand
OTHER PERFORATED ZONES: No	one
	CUDDENIT CTATUS
WHAT IS CURRENT STATUS OF WELL:	CURRENT STATUS  P&A
IF P&A, LIST PLUGGING DETAILS: 3400', 25 sxs across csg. stub surface.	25 sxs across perforations, cut & pull csg. from , 25 sxs @ 1845, 25 sxs across csg. shoe, 10 sxs

Mobil State #1 SE/4 SE/4 Sec. 6-18S-34E Lea County, New Mexico

8-5/8" surface casing set at 325' with cement circulated 25 sxs across 8-5/8" casing shoe

25 sxs at 1845'

25 sxs across casing stub at 3400'

Top of cement in annulus estimated to be 3700'

25 sxs. across perforations 4257-4265'

4-1/2" producing casing set at 4337

10 sack surface plug TD 4337

Cement

6000

SURFACE

500.

1000

1500

2000

2500

3000

3500

4000

4500

5000

5500

6500

7000

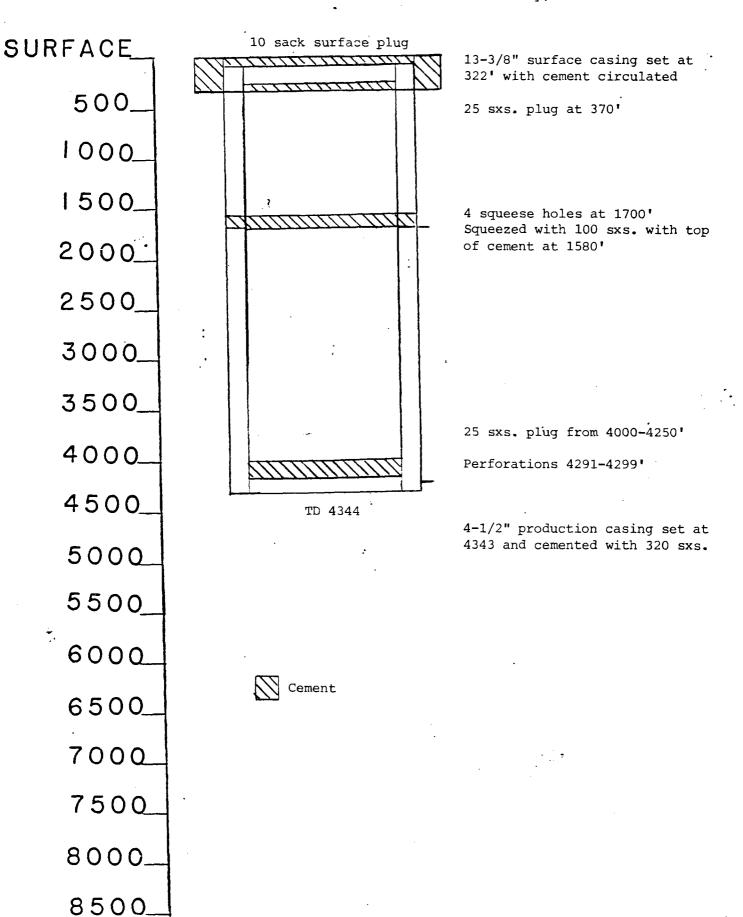
750Q

8000

8500

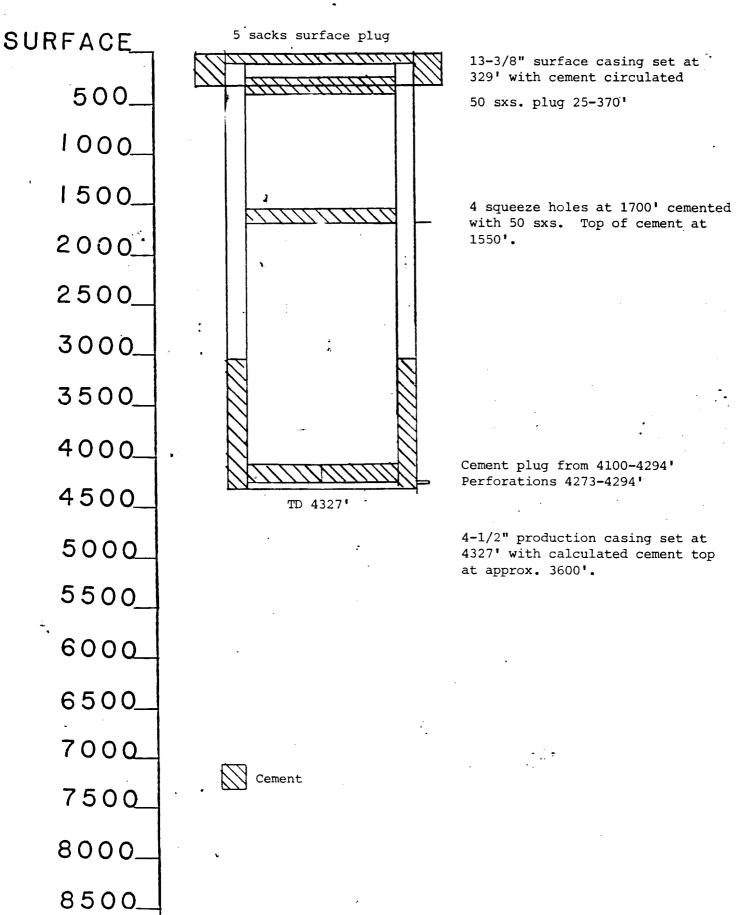
OPERATOR: Murphy Baxter	LEASE: N.E. K	Queen Unit T	ract 4	
WELL NO.: 6 FOOTAGE: 330'	FNL & 660' FEL	SECTION:	7-18S-34E	Α
TUBULAR	DATA			
SURFACE CASING				
SIZE: 13-3/8" 35.6#  TOC: Surface FEET  HOLE SIZE: 17-1/2"	CEMENTED WITH: _ DETERMINED BY: _ SETTING DEPTH: _	375 Circulation 322'	SX.	
INTERMEDIATE CASING				
SIZE: None TOC: FEET HOLE SIZE:	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:		SX.	
LONG STRING				
SIZE: 4-1/2" 9.5#  TOC: 3100 FEET  HOLE SIZE: 8"	CEMENTED WITH:_ DETERMINED BY:_ SETTING DEPTH:_	320 Calculated 4343'	SX.	
PRODUCING FORMATION: Queen	INTERVAL POOL OR FIELD:	E-K Yates S	even Rivers Q	ueen
SPUD DATE: 9/30/62	COMPLETION DATE EET TO 4299	: 11/8/62	FEET	
STIMULATION: 500 gallons acid and 20			·	
OTHER PERFORATED ZONES: None				
CURRENT	CTATUC			
_	&A			
IF P&A, LIST PLUGGING DETAILS: 25 sx squeeze with 100 sxs. tag at 1580', 25	s. at 4000-4250' sxs. at 370', 1	. Perfs. 4 0 sxs. surfa	holes at 1700 ce plug.	- '',

N.E. K Queen Unit Tract 4 #6
NE/4 NE/4 Sec. 7-18S-34E A
Lea County, New Mexico



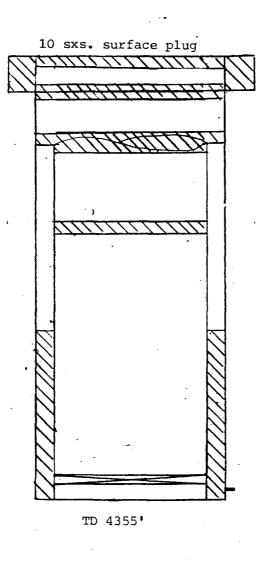
OPERATOR:	Murphy Bax	ter	LEASE: N. EK	Queen Unit Tract	4
WELL NO.:	5	FOOTAGE: 33	O' FNL & 1980' FE	EL SECTION: 7-185	-34E B
		······································			
		TUBULA	R DATA		
SURFACE CASI	ING				
SIZE: 13	<b>-</b> 3/8" 35.	6# <sup>′</sup>	CEMENTED WITH:	375	SX.
TOC: Su	rface	FEET	CEMENTED WITH: DETERMINED BY:	Circulation	
OLE SIZE:	17-1/2"		SETTING DEPTH:		
INTERMEDIATE	E CASING				
SIZE: No:	ne		CEMENTED WITH.		SX.
roc:		FEET	DETERMINED BY:		
OLE SIZE:			SETTING DEPTH:		
LONG STRING	•		_		
T7F. 4-1	/2" 9.5#		CEMENTED WITH:	375	SX.
	(estimated)		DETERMINED BY:		SA.
OLE SIZE:	11"		SETTING DEPTH:		
	4327		_		<del></del>
FORMATION:_	Queen		FOOL OR FIELD:	E-K Yates Seven	Rivers Que
SPUD DATED: PERFORATED:		<u>.</u>	COMPLETION DATE FEET TO 4294	9/11/62	FEET
_		allons oil & 40			TEET
OTHER PERFOR	RATED ZONES:	None			
		CURRENT	STATUS		
WHAT IS CURF	RENT STATUS	OF WELL? P&	A		· · · · · · · · · · · · · · · · · · ·
IF P&A, LIST at 1700' & 5 sxs. surf	squeeze with	ETAILS: Cement 50 sxs. tagge	t plug from 4294- ed plug at 1550',	-4100'. Perforat 50 sxs. at 370-	e 4 holes
J SXS. SUTI	ace plug.				
<del></del>		<del></del>			

N. EK Queen Unit Tract 4 #5 NW/4 NE/4 sec. 8-18S-34E E Lea County, New Mexico



OPERATOR: Murphy Baxt	er	LEASE: N. EK	Queen Unit Tract 7	
WELL NO.:	FOOTAGE: 2173	3' FWL & 330' FNL	SECTION: 7-18S-34	E C
<del></del>	TUBULAR	DATA		
SURFACE CASING				
SIZE: 7-5/8" 26.4# TOC: Surface HOLE SIZE: 10-3/4"	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	150 Circulation 336'	sx.
INTERMEDIATE CASING				
SIZE: None TOC: HOLE SIZE:	FEET	DETERMINED BY:_		
LONG STRING				
SIZE: 4-1/2" 11.6#  TOC: 2700 (estimated)  HOLE SIZE: 6-3/4"  TOTAL DEPTH: 4355'	FEET	DETERMINED BY:	Calculation	sx.
FORMATION: Queen SPUD DATED: 4/19/63 PERFORATED: 4280		POOL OR FIELD:	EK Yates Seven Riv	ers Quee
PERFORATED: 4280	F	'EET TO 428	37 37 63	FEET
STIMULATION: 500 gallo	ons acid, 20,0	00 gallons & 30,0	000# sand	
OTHER PERFORATED ZONES:	None			
	CURRENT	STATUS		
WHAT IS CURRENT STATUS	OF WELL? P&	A		
IF P&A, LIST PLUGGING D at 1700', cut & pull cas	sing at 840', :	25 sxs. 785-890'.	50 sxs. 298-372'	SXS.

N. EK Queen Unit Tract 7 #1
NE/4 NW/4 Sec. 7-18S-34E
Lea County, New Mexico



7-5/8" surface casing set at 336' with cement circulated 50 sxs. 298-372'

Cut and pull casing from 840' 25 sxs. 785-890'

25 sxs. 1600-1700'

35' of cement on CIBP at 4250!

Perforations 4280-4288

4-1/2" production casing set at 4355' with top of cement calculated to be approx. 2700'

OPERATOR: DOB Oil Proper	rties	LEASE:	State	М	· · · · · · · · · · · · · · · · · · ·
WELL NO.: 3	FOOTAGE: 853'	FWL & 330	FNL	SECTION:_	7-18S-34E D
	TUBULAR	DATA			
SURFACE CASING					
SIZE: 8-5/8" 36#	FEET	CEMENTED W	TH:_	215	sx.
TOC: Surface HOLE SIZE: 10"	FEET	DETERMINED SETTING DEF	BY:	Circulation 379'	on
INTERMEDIATE CASING					
SIZE: None TOC: HOLE SIZE:	FEET	CEMENTED WIDETERMINED SETTING DEF	EY: BY: PTH:		sx.
LONG STRING					
SIZE: None TOC: HOLE SIZE:	FEET	DETERMINED	BY:		SX.
TOTAL DEPTH: 4300'					
	PRODUCING	INTERVAL			
FORMATION: None  SPUD DATED: PERFORATED:		POOL OR FIR COMPLETION SET TO	DATE:	:	FEET
STIMULATION: None					
OTHER PERFORATED ZONES:_	None	<del> </del>	,,	<del></del>	
	CURRENT	STATUS			
WHAT IS CURRENT STATUS OF	F WELL? Junk	ced & abando	ned		
IF P&A, LIST PLUGGING DE 25 sxs. 1900-1800', 25 sx	TAILS: 25 s	sxs. 4255-41 10 sxs. sur	face	25 sxs. 30 plug.	00-2900',

Lea County, New Mexico

8-5/8" surface casing set at 379' with cement circulated

25 sxs. plug 325-400'

25 sxs. plug 1800-1900'

25 sxs. plug 2900-3000'

25 sxs. plug 4155-4255'

State "M" #3

NW/4 NW/4 Sec. 7-18S-34E

PERATOR: Pan American	LEASE: State "CL"
VELL NO.: 8 FOOTAGE	GE: 1650' FNL & 990' FEL SECTION: 7-18S-34E H
T	TUBULAR DATA
SURFACE CASING	
SIZE: 13-3/8" 35.6# '	CEMENTED WITH: 320 SX. FEET DETERMINED BY: Circulation
COC: Surface FOLE SIZE: 17-1/2"	SETTING DEPTH: 334'
INTERMEDIATE CASING	
SIZE: None	CEMENTED WITH: SX. FEET DETERMINED BY:
HOLE SIZE:	
LONG STRING	
	CEMENTED WITH: 120 SX.
FOC: 3700 (estimated) FOLE SIZE: 8"	FEET DETERMINED BY: Calculation SETTING DEPTH: 4394'
TOTAL DEPTH: 4400'	<del></del>
PROI	DDUCING INTERVAL
FORMATION: Queen	POOL OR FIELD: E-K Yates-Seven Rivers-Queen
	COMPLETION DATE: 4/2/63
PERFORATED: 4332	COMPLETION DATE: 4/2/63 FEET TO 4354 FEET
STIMULATION: 500 gallons acid	d, 20,000 gallons oil and 40,000# sand
OTHER PERFORATED ZONES:	
JINER TERCORTED ZONEO.	
	CURRENT STATUS
WHAT IS CURRENT STATUS OF WELL?	
IF P&A, LIST PLUGGING DETAILS: 25 sxs. at 3549', 25 sxs. at 33	Cut and pulled casing from 3549', 25 sxs. at 4364 320', 25 sxs. at 1850', 25 sxs. at 334', 10 sxs.
surfa-e plug.	

SURFACE 10 sack surface plug 8-5/8" surface casing set at 334' with cement circulated 500. 25 sxs. at 334' 1000 1500 2000 25 sxs. at 1850' 2500 3000 25 sxs. at 3320' 3500 25 sxs. at 3549' 4000 25 sxs. at 4364' 4500 TD 4400 5000 to be 3700' 5500 Cement 6000 6500 7000 7500 0008 8500

Cut and pull casing from 3549' perforations 4332-4354'

4-1/2" production casing set at 4394' with top of cement estimated

ELL NO.: 4	FOOTAGE: 330'	FEL & 1650' FSL	SECTION: 7-18S-	34E
	TUBULAR	DATA		
URFACE CASING				
IZE: 13-3/8" 36# OC: Surface	FEET	CEMENTED WITH:	250	sx.
OLE SIZE: 17-1/2"				
NTERMEDIATE CASING				
IZE: None		CEMENTED WITH:		sx.
DLE SIZE:		SETTING DEPTH:		
ONG STRING				
IZE: 5-1/2" 14# OC: 3683 OLE SIZE: 8"	nana.	CEMENTED WITH:	150	sx.
OLE SIZE: 8"	FEET	SETTING DEPTH:	Temp. Survey 4352	
OTAL DEPTH: 4380'				
	<del></del>			
		INTERVAL		
	PRODUCING		E-K Yates Seven Ri	vers Ou
ORMATION: Queen PUD DATED: 5/3/56	PRODUCING	POOL OR FIELD:_ COMPLETION DATE		
ORMATION: Queen PUD DATED: 5/3/56 ERFORATED: Open Hole 4	PRODUCING	POOL OR FIELD:_ COMPLETION DATE	: 6/5/56	vers Qu
ORMATION: Queen PUD DATED: 5/3/56 ERFORATED: Open Hole 4	PRODUCING	POOL OR FIELD:_ COMPLETION DATE	: 6/5/56	
ORMATION: Queen PUD DATED: 5/3/56 ERFORATED: Open Hole 4	PRODUCING	POOL OR FIELD:_ COMPLETION DATE	: 6/5/56	
ORMATION: Queen PUD DATED: 5/3/56 ERFORATED: Open Hole 4. TIMULATION: None	PRODUCING 352 F	POOL OR FIELD:_ COMPLETION DATE	: 6/5/56	
ORMATION: Queen PUD DATED: 5/3/56 ERFORATED: Open Hole 4 TIMULATION: None THER PERFORATED ZONES:	PRODUCING 352 F	POOL OR FIELD:_ COMPLETION DATE	: 6/5/56	
ORMATION: Queen PUD DATED: 5/3/56 ERFORATED: Open Hole 4. TIMULATION: None	PRODUCING 352 F	POOL OR FIELD:_ COMPLETION DATE EET TO 4380	: 6/5/56	
ORMATION: Queen PUD DATED: 5/3/56 ERFORATED: Open Hole 4 FIMULATION: None THER PERFORATED ZONES:	PRODUCING  352 F  None  CURRENT	POOL OR FIELD: COMPLETION DATE EET TO 4380  STATUS	: 6/5/56	
ORMATION: Queen PUD DATED: 5/3/56 ERFORATED: Open Hole 4. TIMULATION: None	PRODUCING  352 F  None  CURRENT  OF WELL? P&  ETAILS: Cemen	POOL OR FIELD:_ COMPLETION DATE EET TO 4380  STATUS  A t plug 4380-4173	:_ 6/5/56  ', cut & pull casi	FEET

SURFACE

500\_

1000

1500

2000

2500

3000

3500

4000

4500

5000

5500

6000

6500

700Q

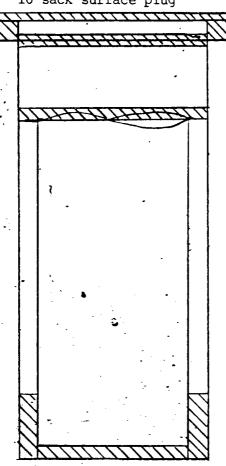
750Q

8000

8500

9000

10 sack surface plug



13-3/8" surface casing set at 251 with cement circulated 25 sxs. 239-260'.

Casing cut & pulled from 1010\* 50 sxs. 927-1010\*

Cement plug 4173-4380

Open Hole 4352-4380

5-1/2" production casing set at 4352' with top of cement at 3683'

Cement

TD 4380'

OPERATOR: Sunray Mid-Continent Oil Co	LEASE: New M	exico State "G"	
WELL NO.: 3 FOOTAGE: 198	30' FSL & 1858.6'	FWEECTION: 7-1	8S-34E K
TUBULAF	R DATA		
SURFACE CASING			
SIZE: 13-3/8" 36#         TOC: Surface FEET         HOLE SIZE: 17-1/2"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	250 Circulation 249'	sx.
INTERMEDIATE CASING			
SIZE: None TOC: FEET HOLE SIZE:	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:		<del>-</del>
LONG STRING			
SIZE: 5-1/2" 14#  TOC: 3052 FEET  HOLE SIZE: 8"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	300 Temp. Survey 4689'	SX.
TOTAL DEPTH: 5443'			
	: INTERVAL		
FORMATION: None SPUD DATED:	POOL OR FIELD:		
PERFORATED: F	COMPLETION DATE	i	FEET
STIMULATION:			
OTHER PERFORATED ZONES: 4597-4622', 4 126 sxs., 3324-3338', 4354-80'	l squeeze holes a	t 3450', cement	ed with
CURRENT	STATUS		
WHAT IS CURRENT STATUS OF WELL?			<del></del> _
IF P&A, LIST PLUGGING DETAILS: CIBP 4 squeeze holes at 3450' cemented w/1 at 3399', casing cut and pulled from 10 sxs. surface plug.	26 sxs. with cem	ent left inside	casing

State of New Mexico G #3 NE/4 SW/4 Sec. 7-18S-34E Lea County, New Mexico

K

SURFACE

500.

1000

1500

2000

2500

3000

3500

4000

4500

5000

5500

6000

6500

700Q

7500

8000

8500

10 sack surface plug

TD 5443

13-3/8" surface casing set at 249 with cement circulated

25 sxs. 218-250'

50 sxs. 1404-1472' Casing cut & pulled from 1472'

Top of cement in annulus 3052'
Perforations 3324-3338'
4 squeeze holes at 3450' with 126 sxs.
cement with top of cement inside
casing at 3399'.

Perforations 4354-80'
CIBP at 4410' with 10' cement on top
Perforations 4597-4622'

5-1/2" production casing set at 4689' & cemented with 300 sxs.

Cement

	Chevron		LEASE: Lea	"XA" State	
WELL NO.:	3	FOOTAGE: 198	80' FSL & 1980' F	WLSECTION: 7-185	-34Е к
		TUBULAR	R DATA		
SURFACE CAS	ING				
SIZE: 13-3, TOC: Surfa HOLE SIZE:		FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	Circulation	sx.
INTERMEDIAT	E CASING				
SIZE: 8-5/8 TOC: Surfa	8" 24 & 28# ace	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	Circulation	SX.
LONG STRING	· <u>}</u>				
SIZE: 5-: TOC: 32° HOLE SIZE:	1/2" 15.5 & 1 00 7-7/8"		CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	Temp. Survey	sx.
		PRODUCING	; INTERVAL		
FORMATION:	Bone Springs	5		Mescalero Escarpo	e Bone Sprir
Chith Damen.				12 3/3/04	
SPUD DATED: PERFORATED:	8609	F	COMPLETION DATE EET TO 8703		FEET
PERFORATED:	8609 1: 12,400 ga				FEET
SPUD DATED: PERFORATED:					FEET
SPUD DATED: PERFORATED: STIMULATION	12,400 ga	allons acid			FEET
SPUD DATED: PERFORATED: STIMULATION	12,400 ga	allons acid	'EET TO 8703		FEET
SPUD DATED: PERFORATED: STIMULATION	12,400 ga	allons acid	'EET TO 8703		FEET
SPUD DATED: PERFORATED: STIMULATION OTHER PERFO	n: 12,400 ga	allons acid	EET TO 8703		FEET
SPUD DATED: PERFORATED: STIMULATION OTHER PERFO	n: 12,400 ga	CURRENT	STATUS  STATUS  Sping Oil Well		
SPUD DATED: PERFORATED: STIMULATION OTHER PERFO	DRATED ZONES:	CURRENT	STATUS  STATUS  Sping Oil Well		

OPERATOR: Chevron	LEASE: Lea	"XA" State	
WELL NO.: 1 FOOTAGE: 198		SECTION: 7-18S-3	4EL
TUBULAR	R DATA		
SURFACE CASING			
SIZE: 13-3/8" 48#	CEMENTED WITH:	500	SX.
TOC: Surface FEET HOLE SIZE: 17-1/2"	DETERMINED BY:	Circulation	
HOLE SIZE: 17-1/2"	SETTING DEPTH:	555	
INTERMEDIATE CASING			
SIZE: 8-5/8" 28#	CEMENTED WITH:	1550	sx.
TOC: Surface FEET	DETERMINED BY:	Circulation	
	SETTING DEPTH:		<del></del>
LONG STRING	_		
SIZE: 5-1/2" 15.5 & 17#	CEMENTED WITH:	1100	SX.
SIZE: 5-1/2" 15.5 & 17#  TOC: FEET	DETERMINED BY:		
HOLE SIZE: 7-7/8"	SETTING DEPTH:	8949	<del></del>
TOTAL DEPTH: 8950  PRODUCING	G INTERVAL		
FORMATION: Bone Springs	POOL OR FIELD:	Mescalero Escarpe	Bone Sprin
FORMATION: Bone Springs SPUD DATED: 5/23/84	COMPLETION DATE	:	
PERFORATED: 8641 F	FEET TO 8748		FEET
STIMULATION: 4000 gallons acid			
OTHER PERFORATED ZONES: None			
	r status		
WHAT IS CURRENT STATUS OF WELL? Pu	imping Oil Well		<del></del>
IF P&A, LIST PLUGGING DETAILS:		· · · · · · · · · · · · · · · · · · ·	<del>- 1. ( </del>

OPERATOR: Sunray DX Oil Co.	LEASE: New Mexico State G
WELL NO.: 1 FOOTAGE: 660	FSL & 660' FWL SECTION: 7-18S-34E M
TUBULAR	R DATA
SURFACE CASING	
SIZE: 13-3/8" 36#	CEMENTED WITH: 275 SX.
TOC: Surface FEET HOLE SIZE: 17-1/4"	DETERMINED BY: Circulation SETTING DEPTH: 262'
INTERMEDIATE CASING	202
SIZE: None FEET	CEMENTED WITH: SX. DETERMINED BY:
TOC: FEET	DETERMINED BY:
HOLE SIZE:	SETTING DEPTH:
LONG STRING	
SIZE: 5-1/2" 14#	CEMENTED WITH: 200 SX.
TOC: 3300 (estimated) FEET	CEMENTED WITH: 200 SX. DETERMINED BY: Calculated
HOLE SIZE: 8"	SETTING DEPTH: 4344'
TOTAL DEPTH: 4384'	
PRODUCING	G INTERVAL
FORMATION: Queen	POOL OR FIELD: E-K Yates Seven Rivers Quee
SPUD DATED: 5/13/55	COMPLETION DATE: 6/4/55
PERFORATED: Open Hole 4344	
STIMULATION: 10,000 gallons refined	oil & 15,000# sand
OTHER PERFORATED ZONES: None	
CURRENT	I STATUS
WHAT IS CURRENT STATUS OF WELL? P8	AZ
IF P&A, LIST PLUGGING DETAILS: 25 sx 25 sxs. in & out of stub at 1119.25',	ks. 4385-4150', cut & pull casing from 1119', 25 sxs. at 1120', 25 sxs. at 268', 10 sxs.
surface plug	

New Mexico State "G" #1 SW/4 SW/4 Sec. 7-18S-34E Lea County, New Mexico

500.

1000

1500

2000

2500

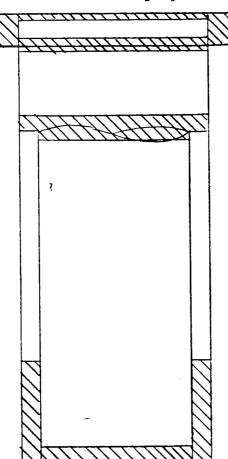
3000

3500

4000

4500

500Q



13-3/8" surface casing set at 262' with cement circulated. 25 sxs. plug at 268'

25 sxs. plug at 1120'
25 sxs. plug in and out of stub
at 1119'
Cut & pull casing from 1119'

Calculated top of cement at approx. 3200'

25 sxs. 4385-4150' Open Hole 4344-4385'

5-1/2" production casing set at 4344'

T.D. 4385'

5500\_

6000

6500

7000

750Q

0008

8500

Cement

OPERATOR: Chevron			LEASE: Lea "XA" State					
WELL NO.:	2	FOOTAGE: 660'	FSL & 330'	FWL	SECTION: 7-18S-34	<u>E</u>		
		TUBULAR	DATA					
SURFACE CAS	SING							
TOC: Surf	8" 48 & 54.5# ace 17-1/2"	FEET	CEMENTED WI DETERMINED SETTING DEP	BY:	Circulation	sx.		
INTERMEDIAT		·····		****		<del></del>		
SIZE: 8-5/ TOC: Surf	8" 28# ace 11'		CEMENTED WIDETERMINED SETTING DEP	BY:	Circulation	sx.		
LONG STRING	<u>-</u>							
SIZE: 5-1/ TOC: 39 HOLE SIZE:	2" 15.5 & 17# 10 7-7/8"	FEET		BY: 7	Temperature Survey	sx.		
		PRODUCING	INTERVAL					
_	Bone Springs 6/19/84				escalero Escarpe B 8/7/84	one Sprin		
PERFORATED:		F	EET TC	8765	8///84	FEET		
STIMULATION	N: 54,400 ga	uls. acid						
						<del></del>		
OTHER PERFO	PRATED ZONES:_	None						
		CURRENT	STATUS			· · · · · · · · · · · · · · · · · · ·		
WHAT IS CUF	RRENT STATUS O			211		· · · · · ·		
IF P&A, LIS	ST PLUGGING DE	TAILS:						

OPERATOR: Sunray DX Oil Co.	LEASE: New M	Mexico State "G"	
WELL NO.: 2 FOOTAGE: 189	58.6' FWL & 660'	FSBECTION: 7-18S-34E	N
TUBULAF	R DATA		<del></del>
SURFACE CASING			
	CEMENTED WITH:	250 Circulation	_sx.
TOC: Surface FEET HOLE SIZE: 17-1/2"	SETTING DEPTH:	247'	
INTERMEDIATE CASING			
SIZE: None  TOC: FEET HOLE SIZE:	DETERMINED BY:_		
LONG STRING	_		
TOC: 3300' (estimated) FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	200 Calculation 4355	_sx.
TOTAL DEPTH: 4388'	<del>-</del>		-
	G INTERVAL		
FORMATION: Queen SPUD DATED: 7/7/55	POOL OR FIELD:	E-K Yates Seven Rive 9/4/55	rs Quee
PERFORATED: Open Hole	FEET TO		FEET
STIMULATION: 10,000 gallons refined	oil and 10,000#	sand	
			<del></del>
OTHER PERFORATED ZONES: None			
		-	
CURRENT	r status		
WHAT IS CURRENT STATUS OF WELL? PS	ΣA		<del></del>
IF P&A, LIST PLUGGING DETAILS: 25 sy from 619', 25 sxs. in and out of stubplug.			

New Mexico State "G" #2 SE/4 SW/4 Sec. 7-18S-34E Lea County, New Mexico

25 sxs. at 250'

13-3/8" surface casing set at 247' with cement circulated

25 sxs. in & out of stub at 619' Casing cut & pulled from 619'

Calculated top of cement at 3300'

25 sxs. at 4349' Open Hole 4355-4388'

5-1/2" casing set at 4355'

10 sack surface plug

T.D. 4388'

Cement

5500

SURFACE

500

1000

1500

2000

2500

3000

3500

4000\_

4500

5000

6000

6500

700Q

7500

2000

8500

OPERATOR:_	Chevron	<del></del>	LEASE: Lea	"XA" State	<del></del>
WELL NO.:_	4	FOOTAGE: 990'	FSL & 1650' FWL	SECTION: 7-18S-3	4E N
		TUBULAR	DATA		
SURFACE CAS	SING				
SIZE: 13- TOC: Sur HOLE SIZE:	-3/8" 48# :face 17-1/2"		CEMENTED WITH: DETERMINED BY: SETTING DEPTH:		sx.
INTERMEDIA			_		
SIZE: 8 TOC: Surf	3-5/8" 24# ace 11"		CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	Circulation	sx.
LONG STRING	<u>G</u>				
TOC: Surf	/2" 15.5 & 1 face 7-7/8"		CEMENTED WITH:_ DETERMINED BY:_ SETTING DEPTH:		sx.
TOTAL DEPTH					<del></del>
FORMATION: SPUD DATED PERFORATED	Bone Spring: 9/29/84: 8691	PRODUCING		Mescalero Escarpe: 11/7/84	Bone Spring
	N: 23,500 ga				<del></del>
OTHER PERF	ORATED ZONES:	None			
		CURRENT	STATUS		
WHAT IS CU	RRENT STATUS (	OF WELL? Pum	ping oil well		<del></del>
				<del></del>	<del></del>

OPERATOR: Sunray DX Oil Co.	LEASE: New Me	exico State	е Н	<del></del>
VELL NO.; 1 FOOTAGE: 1980	O' FEL & 660' FSL	SECTION:	7-18S-34E	0
TUBULAR	R DATA			
SURFACE CASING				
COC: Surface FEET	CEMENTED WITH:	Circulation	on	_sx.
INTERMEDIATE CASING				
SIZE: None  FOC: FEET  HOLE SIZE:	CEMENTED WITH:			_sx.
LONG STRING				
SIZE: 5-1/2" 14#  TOC: 3600 (estimated) FEET  HOLE SIZE: 8"  TOTAL DEPTH: 4410'	CEMENTED WITH: DETERMINED BY:_ SETTING DEPTH:	150 Calculatio	on	_sx.
	: INTERVAL			
FORMATION: Queen SPUD DATED: 9/11/55	POOL OR FIELD: 1 COMPLETION DATE	E-K Yates :	Seven River	s Que
SPUD DATED: 9/11/55 PERFORATED: Open Hole 4390  F	'EET TO 4410			FEET
STIMULATION: 10,000 gallons oil and 1	15,000# sand			<del></del>
				<del></del>
OTHER PERFORATED ZONES: None				
CURRENT	C STATUS			
WHAT IS CURRENT STATUS OF WELL? PS	ΣA			
IF P&A, LIST PLUGGING DETAILS: 25 sxs 25 sxs. 3100-3230', 25 sxs. 915-1015'	s. 4300-4404', cu	t & pull ca	asing from . surface p	997 <b>',</b> olug

T.D. 4410'

13-3/8" surface casing set @ 245' with cement circulated
25 sxs. 150-250'

25 sxs. 915-1015' Cut & pull casing from 997'

25 sxs. 3100-3230'

Calculated top of cement at approx. 3600'

25 sxs. 4300-4404' Open hole 4390-4410'

5'1/2 production casing set at 4390'

Cement

OPERATOR: Perry R. Bass	LEASE: State of New Mexico			
	FSL & 660' FEL SECTION: 7-18S-34E	P		
TUBULAR	DATA			
SURFACE CASING				
SIZE: 9-5/8" 40#  TOC: Surface FEET  HOLE SIZE: 13-3/4"	CEMENTED WITH: 400 SX.  DETERMINED BY: Circulation SETTING DEPTH: 352.73'			
INTERMEDIATE CASING				
TOC: FEET	CEMENTED WITH: SX.  DETERMINED BY: SETTING DEPTH:			
LONG STRING				
SIZE: 5-1/2" 17#  TOC: 2865 _ FEET  HCLE SIZE: 7-7/8"	CEMENTED WITH: 400 SX. DETERMINED BY: Temp. Survey SETTING DEPTH: 4434.50'			
PRODUCING	INTERVAL			
FORMATION: Queen	POOL OR FIELD: E-K Yates Seven Rivers O	ıeeı		
SPUD DATED: 12/30/55	COMPLETION DATE: 1/22/56  EET TO 4389 FEET			
STIMULATION: 500 gallons acid, 10,000				
OTHER PERFORATED ZONES: None				
		i		
CURRENT	STATUS			
WHAT IS CURRENT STATUS OF WELL? P&A				
IF P&A, LIST PLUGGING DETAILS: CIBP @ 50 sxs @ 1900-2100', 50 sxs. @ 1185-13 surface plug.	4350' w/35' cement on T/plug, 232', 45 sxs. @ 300-400' & 20 sxs.			

SURFACE

500

1000

1500

2000

2500

3000

3500

4000\_

4500

5000

5500

6000

6500

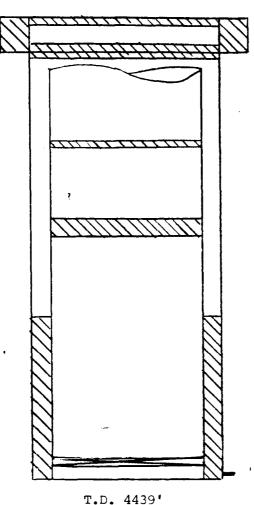
7000

7500

0008

8500

20 sack surface plug



9-5/8" surface casing set at 352.73' with cement circulated 45 sxs. 300-400' Casing cut and pulled at 486'

50 sxs. 1185-1232'

50 sxs. 1900-2100'

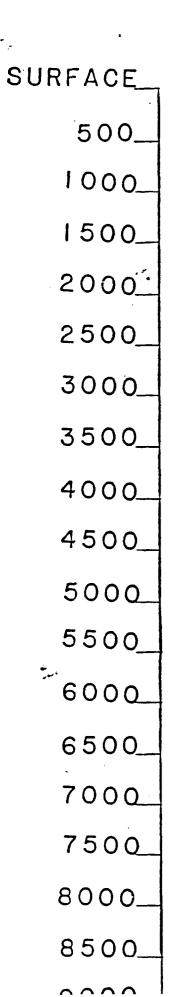
Top of cement at 2865'

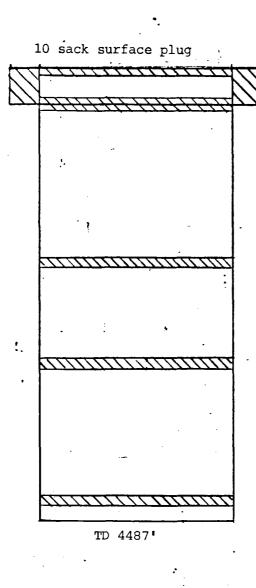
CIBP at 4350' with 35' cement on plug Perforations 4376-4389'

5-1/2" production casing set at 4434.5'

Cement

OPERATOR: J. Cecil Rhode	s	LEASE:	Jere		
WELL NO.: 2	FOOTAGE: 660'	FNL & 1980'	FEL	SECTION: 8-18S-34	4E B
<u>.                                    </u>	TUBULAR	DATA		· · · · · · · · · · · · · · · · · · ·	
SURFACE CASING					
SIZE: 8-5/8" 24# TOC: Surface HOLE SIZE: 11"	FEET	CEMENTED WI DETERMINED SETTING DEP	TH:_ BY:_ TH:_	300 Circulation 355'	sx.
INTERMEDIATE CASING					
SIZE: None TOC: HOLE SIZE:	FEET	CEMENTED WI DETERMINED SETTING DEF	TH:_ BY:_ TH:_		sx.
LONG STRING					
SIZE: None TOC: HOLE SIZE:	FEET	DETERMINED	BY:		
TOTAL DEPTH:					
	PRODUCING				
FORMATION: None SPUD DATE: PERFORATED:		POOL OR FIE COMPLETION EET TO	LD:_ DATE	·	FEET
STIMULATION: None					
			· · · · · ·		
OTHER PERFORATED ZONES:					
	CHIPPENI	CM3 mile			
WHAT IS CURRENT STATUS O	CURRENT F WELL? P&A				
IF P&A, LIST PLUGGING DE 35 sxs. 1925-1825', 35 s	TAILS: 35 sxs	. 4226-4126			





8-5/8" surface casing set at 355' with cement circulated 35 sxs. plug 270-370'.

35 sxs. plug 1825-1925'

35 sxs. plug 2860-2960'

35 sxs. plug 4126-4226

Cement

OPERATOR:	Ray Westall		LEASE: Jo	annie	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
WELL NO.:	1	FOOTAGE: 660'	FNL & 1980'	FWL	SECTION: 8-18	S-34E C	
		TUBULAR	DATA				
SURFACE CASIN	1G						
SIZE: 13-3 TOC: Surf HOLE SIZE:	/8" 35.6# ace 17-1/2"	FEET	CEMENTED WIT DETERMINED B SETTING DEPT	TH:	450 Circulation 318'	sx.	
INTERMEDIATE							
SIZE: 8-5/8" TOC: Unknow HOLE SIZE:	24 & 32# n 11"	FEET	CEMENTED WIT DETERMINED B SETTING DEPT		250 Unknown 3262'	sx.	
LONG STRING	•						
SIZE: 4-1/2" TOC: Unknow. HOLE SIZE:	n 7 <b>-</b> 7/8 <b>"</b>	FEET	CEMENTED WIT DETERMINED B SETTING DEPT	3Y:	Unknown	sx.	
TOTAL DEPTH:	4073	PRODUCING	INTERVAL				
FORMATION: SPUD DATED: PERFORATED:	7/25/73		POOL OR FIEL COMPLETION D	D: E	-K Yates Seven 8/16/73	Rivers Qu	ieen
		ons 15% acid, 2					
OTHER PERFORA	ATED ZONES:_	None					
NUAM TO CILDO	ביאות פתיאתיופ ס	CURRENT F WELL? Pur		11			
IF P&A, LIST			while off met				
							•

OPERATOR: Ray Westall	LEASE: Joannie			
WELL NO.: 4 FOOTAGE: 660	O' FNL & 990' FWL	SECTION: 8-18S-3	4E D	
TUBULA	R DATA	· · · · · · · · · · · · · · · · · · ·		
SURFACE CASING				
SIZE: 8-5/8" 20#  TOC: Surface FEET  HOLE SIZE: 11"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	275 Circulation 325	sx.	
INTERMEDIATE CASING				
SIZE: None TOC: FEET HOLE SIZE:	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:			
LONG STRING				
SIZE: 4-1/2" 10.5# & 5-1/2" 15.5#  TOC: Unknown FEET  HOLE SIZE: 7-7/8"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	600 Unknown 4502'	sx.	
TOTAL DEPTH: 4670'				
PRODUCINO	G INTERVAL			
FORMATION: Queen SPUD DATED: 11/13/73 PERFORATED: 4324  F	POOL OR FIELD: E	G-K Yates Seven Ri 11/27/73		
	FEET TO 433	34	FEET	
STIMULATION: 500 gallons acid				
OTHER PERFORATED ZONES:				
	<del></del>			
CURRENT	T STATUS			
WHAT IS CURRENT STATUS OF WELL?	Pumping oil well		<del></del>	
IF P&A, LIST PLUGGING DETAILS:		<del></del>		
			<del></del>	

OPERATOR: Ray Westall	LEASE: Joanni	.e	
WELL NO.: 3 FOOTAGE: 990	)' FWL & 1650' FNI	SECTION: 8-18S-34E	E
TUBULAF	R DATA		
SURFACE CASING			
SIZE: 10-3/4" 32.75#  FOC: Surface FEET  HOLE SIZE: 15"	CEMENTED WITH: DETERMINED BY: C SETTING DEPTH:	250 Circulation 365'	_sx.
NTERMEDIATE CASING			
SIZE: None FOC: FEET HOLE SIZE:	DETERMINED BY:		
LONG STRING			
SIZE: 4-1/2" 9.5# FOC: Unknown FEET HOLE SIZE: 8-3/4"	DETERMINED BY:	Unknown	_sx.
ORMATION. Oueen	FOOL OR FIELD:	E-K Yates Seven Rive	ers Que
PERFORATED: 4/22/74 PERFORATED: 4360 F	COMPLETION DATE: EET TO 4370	5/7/74	FEET
TIMULATION: 500 gallons 15% acid, 20/40 sand.	10,000 gallons ge		
OTHER PERFORATED ZONES: None			<del></del>
CURRENT	STATUS		
WHAT IS CURRENT STATUS OF WELL? Pum	ping oil well		
IF P&A, LIST PLUGGING DETAILS:			
	·		

OPERATOR: Ray Westall	LEASE: Joannie
WELL NO.: 5 FOOTAG	GE: 1650' FNL & 1980' FWL SECTION: 8-18S-34E F
	TUBULAR DATA
SURFACE CASING	
SIZE: 8-5/8" 24#  TOC: Surface HOLE SIZE: 11"	CEMENTED WITH: 300 SX.  FEET DETERMINED BY: Circulation SETTING DEPTH: 365'
INTERMEDIATE CASING	
SIZE: None TOC: HOLE SIZE:	CEMENTED WITH: SX. FEET DETERMINED BY: SETTING DEPTH:
LONG STRING	
TOC: Unknown	CEMENTED WITH: 175 SX. FEET DETERMINED BY: Unknown SETTING DEPTH: 4419'
FORMATION: Queen	POOL OR FIELD: E-K Yates Seven Rivers Quee COMPLETION DATE: 6/11/74
STIMULATION: 500 gallons 15%	FEET TO 4391 FEET s acid, 10,000 gallons gelled brine &
20,000# 20/40 sand	
OTHER PERFORATED ZONES: No	ne
	CURRENT STATUS
WHAT IS CURRENT STATUS OF WELL	? Pumping oil well

OPERATOR: V-F Petroleum	m Inc.	LEASE: E-	K 8 State	
WELL NO.: 1	FOOTAGE: 1650	' FSL & 2100'	FEL SECTION: 8-18S-3	4E
	TUBULAR	DATA		
SURFACE CASING				
SIZE: 8-5/8" 24#  TOC: Surface  HOLE SIZE: 12-1/4"	FEET	CEMENTED WITH DETERMINED BY SETTING DEPTH	: 250 : Circulation : 401'	sx.
INTERMEDIATE CASING				
SIZE: None TOC: HOLE SIZE:	FEET	CEMENTED WITH DETERMINED BY SETTING DEPTH	:	sx.
LONG STRING				
SIZE: None TOC: HOLE SIZE:	FEET	CEMENTED WITH DETERMINED BY SETTING DEPTH	:	sx.
TOTAL DEPTH:				
	PRODUCING	INTERVAL		
FORMATION: None SPUD DATE:	<del></del>	POOL OR FIELD	:	<del></del>
PERFORATED:	FI	COMPLETION DA	TE:	FEET
STIMULATION:				
OTHER PERFORATED ZONES:				
	CURRENT	STATUS		
WHAT IS CURRENT STATUS (	OF WELL? P&A			<del></del>
IF P&A, LIST PLUGGING DI at 450', 10 sxs. surfac		s. at 4400', 2	5 sxs. at 3150', 25	sxs.

E-K 8 State #1 NW/4 SE/4 Sec. 8-18S-34E Lea County, New Mexico

J

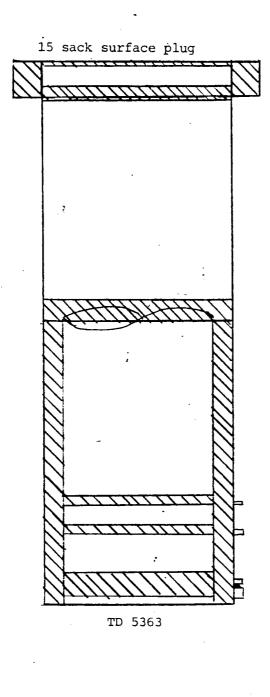
TD 4460

25 sxs. plug at 3150'

25 sxs. plug at 4400'

Cement

OPERATOR: Richarson & Bass	LEASE: State of New Mexico Lease E-5014
WELL NO.: 3 FOOTAGE: 1980'	FWL & 1980' FSL SECTION: 8-185-34E K
TUBULAR I	DATA
SURFACE CASING	
SIZE: 8-5/8" 24# .	CEMENTED WITH: 260 SX.
SIZE:       8-5/8"       24#       6         TOC:       Surface       FEET       I         HOLE SIZE:       12"       5	DETERMINED BY: Circulation SETTING DEPTH: 349.29'
INTERMEDIATE CASING	
SIZE: None COTOC: FEET INDUCTION SIZE: SIZ	CEMENTED WITH: SX. DETERMINED BY: SETTING DEPTH:
LONG STRING	
SIZE: 5-1/2" 17# CONTRIBUTION OF SIZE: 7-7/8" FEET IN SIZE: 7-7/8" SIZE: 7-7/8"	CEMENTED WITH: 600 SX. DETERMINED BY: Temp. Survey SETTING DEPTH: 5362'
TOTAL DEPTH: 5363'	
PRODUCING :	INTERVAL
FORMATION: None I SPUD DATE: C PERFORATED: FEI	POOL OR FIELD:  COMPLETION DATE:  ET TO FEET
STIMULATION:	
OTHER PERFORATED ZONES: 5324-5334', 5	306-5318', 5272-5283', 4615-4630'
CURRENT :	STATUS
WHAT IS CURRENT STATUS OF WELL? P&A	
IF P&A, LIST PLUGGING DETAILS: Squeezes Squeezed perfs. 5306-5318 with 100 sxs 75 sxs. Squeezed perfs. 4615-4630 with	• Squeezed perfs. 5272-5283 with



8-5/8" surface casing set at 349.29' with cement circulated

50 sxs. plug from 215-368'

50 sxs. plug from 2333-2495'
Casing cut and pulled from 2500'

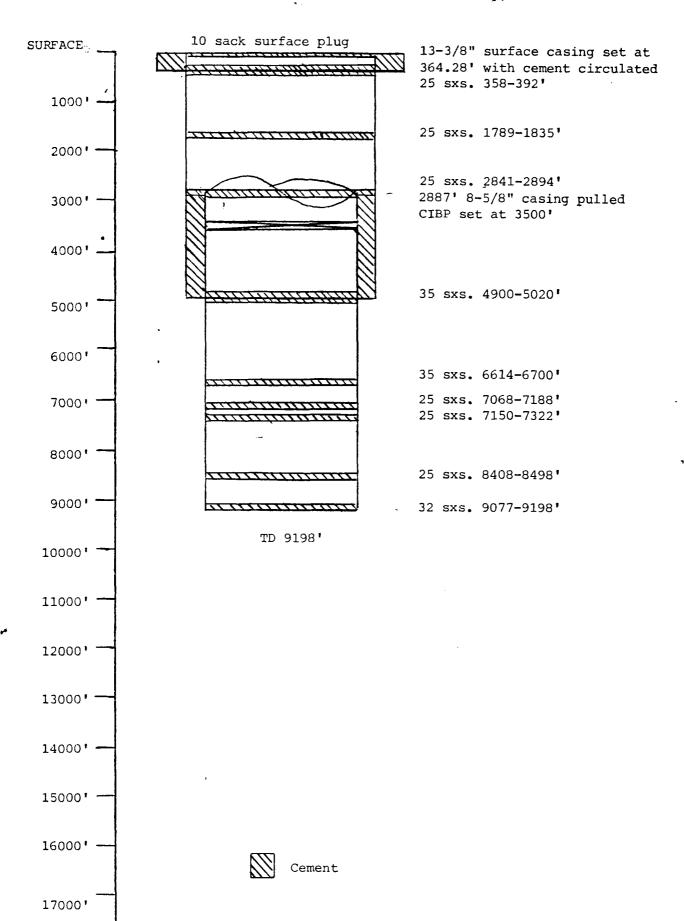
Perfs 4394-4416 squeezed w/50 sxs. Perfs 4615-4630 squeezed w/50 sxs. Perfs. 5272-5283 squeezed w/75 sxs. Perfs. 5306-5318 squeezed w/100 sxs Perfs. 5324-5334 squeezed w/75 sxs.

5-1/2" casing set at 5362' with top of cement at 2577'.

| | Cement

OPERATOR: Seely Oil Company	LEASE:	<del></del>	
WELL NO.: 1 FOOTAGE: 660	' FSL & 330' H	FWL SECTION: 8-18S	5-34E M
TUBULA	R DATA		
SURFACE CASING			
SIZE: 8-5/8" 24#  TOC: Surface FEET  HOLE SIZE: 11"	CEMENTED WIT DETERMINED E SETTING DEPT	TH: 760  3Y: Circulation  TH: 1701	sx.
INTERMEDIATE CASING			
SIZE: None TOC: FEET HOLE SIZE:	CEMENTED WIT DETERMINED E SETTING DEPT	TH: 3Y:	sx.
LONG STRING			
SIZE: 4-1/2" 10.5#  TOC: 3400 (estimated) FEET  HOLE SIZE: 7-7/8"	CEMENTED WIT DETERMINED E SETTING DEPT	TH: 350  SY: Calculation  TH: 4800'	sx.
TOTAL DEPTH: 4800'			
PRODUCINO	G INTERVAL		
FORMATION: Queen SPUD DATED: 7/22/83 PERFORATED: 4381	POOL OR FIEL	LD: E-K Yates Seven  DATE: 8/29/83  4606	Rivers Que
STIMULATION: 1180 gallons acid, 30,0			
STIMOLATION: TIRO GALLOUS ACID, 50,0	oo garions ge	ried water & 43,400	- Salid
OTHER PERFORATED ZONES: None			
CURREN	T STATUS		
WHAT IS CURRENT STATUS OF WELL? Pu	imping oil wel	1	·
IF P&A, LIST PLUGGING DETAILS:			<del></del>
		<del></del>	

OPERATOR: Forest Oil Corp.	LEASE: State-Sunray			
WELL NO.: 1 FOOTAGE: 990'	FWL & 330	FSL SECTION: 8-18S-34E	М	
TUBULAR	DATA			
SURFACE CASING				
SIZE: 13-3/8" 48# ,  TOC: Surface FEET  HOLE SIZE: 17-1/4"	CEMENTED WIT DETERMINED B SETTING DEPT	TH: 400 Y: Circulation TH: 364.28'	_sx.	
INTERMEDIATE CASING				
SIZE: 8-5/8" 32#  TOC: Surface FEET  HOLE SIZE: 11"	CEMENTED WIT DETERMINED B SETTING DEPT	TH: 1200 Y: Circulation TH: 4971	_sx.	
LONG STRING				
TOC: FEET	DETERMINED E	TH: SY: TH:	_sx.	
PRODUCING	INTERVAL			
FORMATION: None  SPUD DATE: PERFORATED: FE	POOL OR FIEL COMPLETION D	D: DATE:	FEET	
STIMULATION: None				
N				
OTHER PERFORATED ZONES: None				
CURRENT WHAT IS CURRENT STATUS OF WELL?  P&A	STATUS			
IF P&A, LIST PLUGGING DETAILS: Pulled as follows: 35 sxs. plug from 9198-907 plug from 7322-7150, 35 sxs. plug from 35 sxs. plug from 5020-4900, CIBP at 35 plug from 1835-1789, 25 sxs. plug from	7, 25 sxs. pl 7188-7068, 2 500, 25 sxs.	lug from 8498-8408, 50 s 25 sxs. plug from 6700-6 plug from 2894-2841, 25	xs. 614,	



OPERATOR: Sunray DX Oil	Co.	LEASE: New Mexico "H" State			
WELL NO.: 2	FOOTAGE: 660'	FWL & 660' FSI	SECTION: 8-185-34E	M	
	TUBULAR	DATA		<u></u>	
SURFACE CASING					
SIZE: 13-3/8" 36#  POC: Surface HOLE SIZE: 11"	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	250 Circulation 243.16	_sx.	
INTERMEDIATE CASING					
SIZE: None TOC: HOLE SIZE:	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:		sx.	
LONG STRING					
SIZE: 5-1/2" 14#  FOC: 3640  HOLE SIZE: 8"	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	150 Temp. Survey 4379'	sx.	
FORMATION: Queen	PRODUCING		E-K Yates Seven Rive	rs Que	
SPUD DATED: 3/19/56 PERFORATED: Open Hole 4:		COMPLETION DAT	'E: 4/24/56	FEET	
STIMULATION: 10,000 ga					
OTHER PERFORATED ZONES:	None				
			<del> </del>	-	
	CURRENT	STATUS			
WHAT IS CURRENT STATUS C	F WELL? P&A				
IF P&A, LIST PLUGGING DE 25 sxs. 2010-1910', 25	TAILS: 25 sxs	. 4404-4300', c	cut casing off at 1640 -145, 10 sxs. surface	plug.	

10 sacks surface plug TD 4404

13-7/8" surface casing set at 243.16' with cement circulated 25 sxs. at 145-245'

Casing cut off and pulled from 1640' 25 sxs. at 1550-1650'

25 sxs. at 1910-2010'

25 sxs. at 4300-4404 Open Hole 4379-4404

5'1/2" casing set at 4379' with top of cement at 3640'

Cement

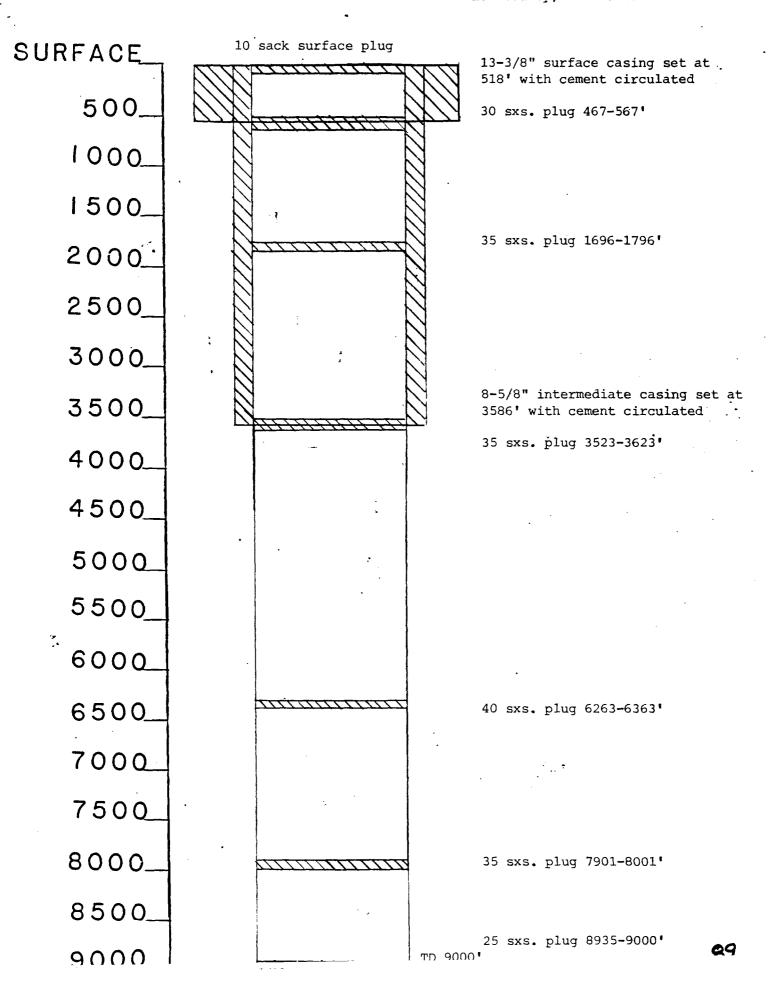
OPERATOR: Seely Oil Compa	ny	LEASE: State of New Mexico				
WELL NO.: 2 FO	OOTAGE: 1980'	FWL & 660'	FSL S	ECTION: 8	-18S-34F	<u> </u>
	TUBULAR	DATA				<del></del>
SURFACE CASING						
SIZE: 8-5/8" 24# . TOC: Surface HOLE SIZE: 12"	FEET	CEMENTED WIT DETERMINED B SETTING DEPT	H: Y: Ci H:	250 rculation 354.95	1	_sx.
INTERMEDIATE CASING						
SIZE: None TOC: HOLE SIZE:	FEET	CEMENTED WIT DETERMINED B SETTING DEPT	Y:			
LONG STRING						
SIZE: 5-1/2" 17# TOC: 2090 HOLE SIZE: 7-7/8"	FEET	CEMENTED WIT DETERMINED B SETTING DEPT	H: Y: Tem	400 p. Survey 4454		_sx.
TOTAL DEPTH: 4477'						
	PRODUCING	INTERVAL				
FORMATION: Queen SPUD DATED: 6/11/56 PERFORATED: 4428	FE	POOL OR FIEL COMPLETION DEET TO 4436	D: E-K	Yates Se 6/28/56	ven Rive	FEET
STIMULATION: 500 gallons	15% acid,	10,000 gallon	s oil	<u>&amp; 20,000#</u>	20/40	sand
OTHER PERFORATED ZONES: N	one					
	CURRENT	STATUS				
WHAT IS CURRENT STATUS OF						
IF P&A, LIST PLUGGING DETA		oing oir weir				

OPERATOR:	Seely Oil Co	LEASE: State BC				
WELL NO.:	1	FOOTAGE: 660'	FSL & 1980	FEL	SECTION: 8-18S-3	4E 0
		TUBULAR	DATA			· · · · · ·
SURFACE CAS	ING					
SIZE: 8-5/	′8 <b>"</b> 24#	:	CEMENTED WI	[TH:	275 Circulation	sx.
TOC: Surf	ace 11"	FEET	DETERMINED SETTING DEF	BY:	Circulation 373.27'	
INTERMEDIAT	E CASING					
SIZE: NO TOC: HOLE SIZE:	one	FEET	CEMENTED WI DETERMINED SETTING DEF	TH: BY: PTH:		sx.
LONG STRING	•					
SIZE: 5-1/ TOC: 2800 HOLE SIZE:	/2" 14# ) (estimated) 7-7/8"	FEET	CEMENTED WIDETERMINED SETTING DEF	TH: BY: TH:	300 Calculation 4454'	sx.
	± 4456 '	PRODUCING	INTERVAL			
FORMATION:	Oueen		POOL OR FI	ELD: F	E-K Yates Seven Ri	vers One
SPUD DATED:	1/23/57		COMPLETION	DATE	E-K Yates Seven Ri 2/22/57	
PERFORATED:	4424	F	EET TO	4450	•	FEET
STIMULATION	: 500 gallo	ons acid, 15,00	00 gallons o	oil &	15,000# 20/40 san	d
OTHER PERFO	RATED ZONES:	None		· · · · · · · · · · · · · · · · · · ·		
						· · · · · · · · · · · · · · · · · · ·
		CURRENT	STATUS			
WHAT IS CUR	RENT STATUS (	OF WELL? Pum	ping oil wel	L1	, ,	<del></del>
IF P&A, LIS	T PLUGGING DI	ETAILS:				<del></del>
	<del></del>					

OPERATOR: Seely Oil C	ompany	LEASE: State BC			
WELL NO.: 2				P	
	·	<del></del>			
	TUBULAR	DATA			
SURFACE CASING					
SIZE: 8-5/8" 2	2.7#	CEMENTED WITH:_	275	_sx.	
SIZE: 8-5/8" 2  FOC: Surface HOLE SIZE: 11"	FEET	DETERMINED BY: SETTING DEPTH:	Circulation 373,27		
NTERMEDIATE CASING					
SIZE: None	FEET	CEMENTED WITH:		_sx.	
OLE SIZE:		SETTING DEPTH:			
LONG STRING					
SIZE: 5-1/2" 14# COC: 2800 (estimated	) FEET	DETERMINED BY:	300 Calculation	_sx.	
NOTAL DEPTH: 4500'		SETTING DEPTH:	4452.31'		
	PRODUCING	INTERVAL			
FORMATION: Queen SPUD DATED: 3/27/57		POOL OR FIELD: COMPLETION DATE	E-K Yates Seven Rive: 4/20/57	rs Que	
SPUD DATED: 3/27/57 PERFORATED: 4405	F	EET TO 4432	: 4/20/57	FEET	
STIMULATION: 500 gal	lons acid, 15,00	O gallons lease (	crude & 20,000# 20/4	) sand	
OTHER PERFORATED ZONES	S:None		· · · · · · · · · · · · · · · · · · ·		
	CURRENT	STATUS			
WHAT IS CURRENT STATUS	S OF WELL? Pum	ping oil well			
IF P&A, LIST PLUGGING	DETAILS:				

OPERATOR:	Amoco Production Co.			LEASE: State CN			
WELL NO.:	1	FOOTAGE:_	1980 <b>'</b>	FSL 8	1980'	FELSECTION: 9-18S-34E	J
		TUBU	LAR D	ATA			
SURFACE CAS	ING						
SIZE: 13- TOC: Sur: HOLE SIZE:	3/8" 48# face 17-1/2"	FEE	C T D	EMENTE ETERMI ETTING	D WITH: NED BY: DEPTH:	550 Circulation 518'	_sx.
INTERMEDIAT	E CASING						
HODE SIZE:	,	FEE	T D	EMENTE ETERMI ETTING	D WITH: NED BY: DEPTH:	400 Calculation 3586'	_sx.
LONG STRING SIZE: Nor TOC: HOLE SIZE: TOTAL DEPTH	ne	FEE	T D	ETERMI	D WITH: NED BY: DEPTH:		_sx.
		PRODUC	ING I	NTERVA	L		
	None 10/28/84		P	OOL OR	FIELD:	Vacuum W.	
PERFORATED:	None None		FEE	T TO	None	2 12/5/84	FEET
STIMULATION	: None	:			<del></del>		
OTHER PERFO	RATED ZONES:_	None					<del></del>
		CURF	RENT S	TATUS			
WHAT IS CUR	RENT STATUS O	F WELL?	P&A				
8001-7901,	T PLUGGING DE 40 sxs. plug 696, 30 sxs.	from 6363-	6263,	35 sx	s. pluo	00-8935, 35 sxs. plug f from 3623-3523, 35 sx surface plug.	rom s. plu
							<del></del>

Lea County, New Mexico



OPERATOR: Seely Oil Co	ompany	LEASE: Sta	te HS Com.	
WELL NO.: 1	FOOTAGE: 1980	' FSL & 1980'	FWL SECTION: 9-18S-34E	<del></del>
	TUBULAR	DATA		<del></del>
SURFACE CASING				
SIZE: 13-3/8" 48# TOC: Surface HOLE SIZE: 17"	FEET	CEMENTED WITH DETERMINED BY SETTING DEPTH	: 370 : Circulation : 400'	_sx.
INTERMEDIATE CASING				
SIZE: 9-5/8" 40#  TOC: Surface  HOLE SIZE: 12-1/4"	FEET	DETERMINED BY	: 5600 : Circulation : 5900'	_sx.
LONG STRING				
SIZE: 5-1/2" 23# TOC: 3580 HOLE SIZE: 8-3/4" TOTAL DEPTH: 13,745'	FEET	CEMENTED WITH DETERMINED BY SETTING DEPTH	: 3750 : CBL : 13,717'	_sx.
	PRODUCING	INTERVAL		
FORMATION: Bone Springs SPUD DATE: 5/11/81 PERFORATED: 8050		POOL OR FIELD COMPLETION DA EET TO842	TE: 12/17/81	FEET
STIMULATION: 3000 gallo				·
OTHER PERFORATED ZONES:_ 11,446-11,469, 11,315-13	11,110-11,12 1,385		10,854-11004, 11,487-	11 <b>,</b> 56
	CURRENT	STATUS		
WHAT IS CURRENT STATUS O	F WELL?Te	mporarily aban	doned.	
IF P&A, LIST PLUGGING DE	TAILS:			

OPERATOR: Ray Westall	LEASE: Joannie Shell			
WELL NO.: 1 FOOTAGE: 330	O' FNL & 330' FWL SECTION: 16-18S-34E			
TUBULAI	R DATA			
SURFACE CASING				
SIZE: 8-5/8" 24#  TOC: Surface FEET  HOLE SIZE: 11"	CEMENTED WITH: 279 SX.  DETERMINED BY: Circulation  SETTING DEPTH: 325'			
INTERMEDIATE CASING				
TOC: FEET	CEMENTED WITH: SX.  DETERMINED BY: SETTING DEPTH:			
LONG STRING				
SIZE: 4-1/2" 10.5#  TOC: 3000' (est.) FEET  HOLE SIZE: 7-7/8"  TOTAL DEPTH: 4682'	CEMENTED WITH: 400 SX.  DETERMINED BY: Calculation  SETTING DEPTH: 4625'			
	G INTERVAL			
SPUD DATE: 10/27/73	POOL OR FIELD: EK Yates-Seven Rivers-Queer  COMPLETION DATE: 11/9/73  FEET TO 4450 FEET			
STIMULATION: Acid - 1500 gals. 15%, sand	Frac - 50,000 gals. brine & 50,000# 20/40			
OTHER PERFORATED ZONES: None				
CURREN	T STATUS			
WHAT IS CURRENT STATUS OF WELL? Pro	oducing from Queen			
IF P&A, LIST PLUGGING DETAILS:				

OPERATOR: The Atlantic Refining Co.	_ LEASE:	State "AJ"	
FOOTAGE: 330	' FNL & 1984	.5' FEISECTION:	17-18S-34E
TUBULAR	DATA		<del></del>
URFACE CASING			
SIZE: 8-5/8" 18# ' COC: Surface FEET  MOLE SIZE: 12-1/4"	CEMENTED WI DETERMINED SETTING DEP	TH: 300 BY: Circulation TH: 330	0 sx.
NTERMEDIATE CASING			
IZE: None OC: FEET OLE SIZE:	CEMENTED WI DETERMINED SETTING DEF	TH: BY: TH:	sx.
ONG STRING			
SIZE: 5-1/2" 14, 15.5 & 17#  OC: 12' FEET  HOLE SIZE: 7-7/8"  TOTAL DEPTH: 4496'	CEMENTED WI DETERMINED SETTING DEF	TH: 14 BY: Visual ins PTH: 44	00 sx. pection 95'
PRODUCING  CORMATION: Queen  EPUD DATE: 4/12/57  PERFORATED: 4463  F	POOL OR FIE	DATE: 5/6/5	7
ERFORATED: 4463 F	EET TO	4469	FEET
TIMULATION: 500 gallons 7-1/2% MCA sand	acid, 2000	gallons oil an	d 2000# 20/40
OTHER PERFORATED ZONES:			
CURRENT	STATUS		
HAT IS CURRENT STATUS OF WELL? P&A	·		
F P&A, LIST PLUGGING DETAILS: 20 s	xs. 4250-446	50', 20 sxs. 16	5-240',
10 sxs. at surface.	<del></del>		

State "AJ" #2 NW/4 NE/4 Sec. 17-18S-34E Lea County, New Mexico

В

8-5/8" surface casing set at 336' with cement circulated 20 sxs. 165-240

5-1/2" production casing set at 4495' with top of cement 12' from surface

20 sxs. 4250-4460'

Perforations 4463-4469'

10 sack surface plug TD 4496

Cement

8000

8500

9000

OPERATOR:	Seely Oil Co	mpany	LEASE: Santa I	Fe State	
WELL NO.:_	1	FOOTAGE: 330'	FNL & 2310' FWL	SECTION: 17-18S-3	34E C
		TUBULAR	DATA		
SURFACE CAS	SING				
SIZE: 8-5 TOC: Sur HOLE SIZE:	5/8" 24 face 11"	#FEET	CEMENTED WITH: DETERMINED BY: C SETTING DEPTH:	800 Circulation 1659'	sx.
INTERMEDIA	re Casing				
SIZE: N TOC: HOLE SIZE:	Ione	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:		sx.
LONG STRING	<u>.</u>				
SIZE: 4-1 TOC: 340 HOLE SIZE:	./2" 10.5# 00 (estimated) 7-7/8"	FEET	CEMENTED WITH: DETERMINED BY: C SETTING DEPTH:	350 Calculation 4820	sx.
TOTAL DEPTH	H: 4820'				
		PRODUCING	INTERVAL		
FORMATION:	Queen		POOL OR FIELD: I	E-K Yates Seven Riv	vers Queer
PERFORATED	: 1/5/85 : 4462	FI	EET TO 4692	<u>11/8/85</u>	FEET
STIMULATION	N: 20,200 ga	11ons gel & 32	.000# sand		
					<del></del>
OTHER PERF	ORATED ZONES:	None			
		CURRENT	STATUS		
WHAT IS CU	RRENT STATUS (	OF WELL? Pump	ing Oil Well		
					<del></del>
IF FAM, DI	T EDOGATNA D.	TIUTIO:			
		<del></del>			

OPERATOR: The Ohio Oil	Co.	LEASE:	State EKA	
WELL NO.: 6	FOOTAGE: 330'	FNL & 1650'	FWL SECTION:	17-185-34E C
SURFACE CASING	TUBULAR	DATA		
CTTP. 10-3/4" 32	75#.	GENENMED LITT	250	ev.
SIZE: 10-3/4" 32 TOC: Surface	FEET	CEMENTED WITH DETERMINED BY	H: 250 Y: Circulation	SX.
HOLE SIZE: 13-3/4"		SETTING DEPT	380.83'	
INTERMEDIATE CASING				
SIZE: None		CEMENTED WITH	H:	SX.
TOC:	FEET	DETERMINED BY	<b>Z:</b>	
HOLE SIZE:		SETTING DEPT	H:	
LONG STRING				
SIZE: 5-1/2" 15.5#		CEMENTED WITH	н: 650	sx.
TOC: 2700	FEET	DETERMINED BY	Y: Temp. Surve	v
HOLE SIZE: 8-3/4"		SETTING DEPT	H: 4516.50'	
FORMATION: Queen SPUD DATED: 8/24/56	PRODUCING		D: E-K Yates S	even Rivers Quee
SPUD DATED: 8/24/56		COMPLETION D	ATE: 10/2/56	
PERFORATED: 4444	FE	ET TO 44	64	FEET
STIMULATION: 500 gall	ons mud acid, 10,	000 gallons	oil & 10,000 s	and.
	<del></del>			
OTHER PERFORATED ZONES	: None			
	CURRENT	STATUS		
WHAT IS CURRENT STATUS	OF WELL? P&A			
IF P&A, LIST PLUGGING retainer and 50 sxs.	above retainer.	Tagged cemen	t at 3431. Cu	t & pulled
casing from 778'. 50	sxs. at 817', 50	) sxs. at 408	', 10 sxs. sur	face plug.

State EKA #6 NE/4 NW/4 Sec. 17-18S-34ELea County, New Mexico

SURFACE

500\_

1000

1500

2000

2500

3000

3500

4000

4500

5000

5500

600Q

6500

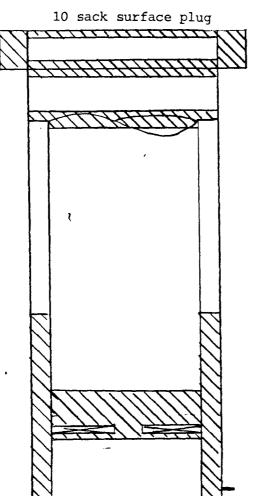
7000

750Q

8000\_

8500

9000



10-3/4" surface casing set at 380.83' with cement circulated

50 sxs. 308-408°

50 sxs. 717-817'

Cut and pulled casing from 778'

Top of cement at 2700'

Top of cement inside casing at 3431'

Cement retainer at 3818' 50 sxs. cement below retainer

Perforations 4444-4464'

5-1/2 production casing set at 4516.5'

Cement

TD 4517

OPERATOR: Seely Oil Co	ompany	LEASE: Stat	e AJ	<del></del>
WELL NO.: 1	FOOTAGE: 660'	FNL & 661.5' FV	VL SECTION: 17-18S	-34E D
	TUBULAR	DATA		
SURFACE CASING				
SIZE: 8-5/8" 24# TOC: Surface HOLE SIZE: 12-1/4"	FEET	DETERMINED BY:	Circulation	
INTERMEDIATE CASING				
SIZE: None TOC: HOLE SIZE:	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:		SX.
LONG STRING				
SIZE: 5-1/2" 15.5# TOC: 1800 (estimated) HOLE SIZE: 7-7/8"	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	1200 Calculation 4490'	SX.
TOTAL DEPTH: 4490'				
	PRODUCING			
FORMATION: Queen SPUD DATED: 2/26/86		POOL OR FIELD: COMPLETION DATE	E-K Yates Seven R	ivers Queer
PERFORATED: 4434		EET TO		FEET
STIMULATION: 500 gallor	ns acid, 10,000	gallons & 10,00	00# sand	<del></del>
	······································			
OTHER PERFORATED ZONES:	None			
		<del> </del>		
	CURRENT	STATUS		
WHAT IS CURRENT STATUS	OF WELL? Pum	ping oil well		<del></del>
IF P&A, LIST PLUGGING D	ETAILS:	<del> </del>		<del></del>

OPERATOR: The Ohio Company		LEASE:		State EKA				
ELL NO.: 5	<del></del>	FOOTAGE: 660'	FWL .	1980'	FNL	SECTION:	17 <b>-</b> 185-3	4E
		TUBULAR	DATA			·		
URFACE CASING								
IZE: 10-3/4" OC: Surrace OLE SIZE: 13	32.75#	FEET	CEMEN DETER SETTI	TED WITED WITED ING DEP	TH:_ BY:_ TH:_	250 Circulatio	on	sx.
NTERMEDIATE CAS								
SIZE: None COC:		FEET	CEMEN DETER SETT	TED WIRMINED	TH:_ BY:_ TH:_			sx.
ONG STRING	•							
None OC: OLE SIZE: OTAL DEPTH:		FEET	DETE	RMINED	BY:		_	
		PRODUCING	INTE	RVAL				
CORMATION:	None		POOL COMPI	OR FIE	LD:_ DATE:			
PERFORATED:		F	EET TO	)				FEET
TIMULATION:	None					<del></del>		
			<del></del>					
THER PERFORATED	ZONES:_	None			<del> </del>	<del></del>		
				<del></del>			····-	
		CURRENT	STAT	JS				
HAT IS CURRENT	STATUS O	F WELL? P&A		<del></del>			<del></del>	
F P&A, LIST PLU from 467-267',							' cement	plug
	-							

E

State EKA #5 SW/4 NW/4 Sec. 17-18S-34E Lea County, New Mexico

Ε

15' surface plug TD 4546

Lea County, New Mexico

10-3/4" surface casing set at 367' with cement circulated

CIBP at 200'

200' cement plug 267-467'

150' cement plug 4396-4546'

Cement

OPERATOR: Seely Oil Company	LEASE: Santa Fe State			
WELL NO.: 2 FOOTAGE: 3	30' FNL & 990' FEL SECTION: 18-18S-34E A			
TUBUL.	AR DATA			
SURFACE CASING				
TOC: Surface FEET	CEMENTED WITH: 700 SX.  DETERMINED BY: Circulation SETTING DEPTH: 1700'			
INTERMEDIATE CASING				
TOC: FEET	CEMENTED WITH: SX.  DETERMINED BY: SETTING DEPTH:			
LONG STRING				
SIZE: 4-1/2" 10.5#  TOC: 3000 (estimated) FEET  HOLE SIZE: 7-7/8"	CEMENTED WITH: 600 SX.  DETERMINED BY: Calculation  SETTING DEPTH: 4800'			
TOTAL DEPTH: 4800	<u></u>			
	NG INTERVAL			
FORMATION: Queen SPUD DATED: 1/12/86	POOL OR FIELD: E-K Yates Seven Rivers Quee			
PERFORATED: 1/12/86	FEET TO 4414 FEET			
STIMULATION: 1000 gallons acid, 19,	000 gallons & 21,000# sand			
OTHER PERFORATED ZONES: None				
CURRE	NT STATUS			
WHAT IS CURRENT STATUS OF WELL? P	Pumping oil well			
IF P&A, LIST PLUGGING DETAILS:				

OPERATOR: Marathon Oil Company	LEASE: State EKA
WELL NO.: 3 FOOTAGE: 660'	FNL & 660' FEL SECTION: 18-18S-34E A
TUBULAR	DATA
SURFACE CASING	
TOC: Surface FEET	CEMENTED WITH: 200 SX.  DETERMINED BY: Circulation SETTING DEPTH: 383.04'
INTERMEDIATE CASING	
TOC:FEET	CEMENTED WITH: SX.  DETERMINED BY: SETTING DEPTH:
LONG STRING	
SIZE: 7" 23#  TOC: 2700 (estimated) FEET  HOLE SIZE: 8-3/4"	CEMENTED WITH: 400 SX.  DETERMINED BY: Calculated  SETTING DEPTH: 4489'
TOTAL DEPTH: 4490'	
PRODUCING	
FORMATION: Queen SPUD DATED: 2/14/56	POOL OR FIELD: E-K Yates Seven Rivers Queen COMPLETION DATE: 3/15/56
SPUD DATED: 2/14/56 PERFORATED: 4414 F	EET TO 4426 FEET
STIMULATION: 500 gallons acid, 10,000	gallons lease oil and 10,000# sand
OTHER PERFORATED ZONES: None	
CURRENT	STATUS
WHAT IS CURRENT STATUS OF WELL? P&A	
10 sxs. above retainer. Cut and pull	retainer at 4350' with 40 sxs. below and ed casing at 789', 50 sxs. at 655-755',
50 sxs. 340-440', 10 sxs. surface plu	ıg.

10-3/4 surface casing set at 383.04 with cement circulated 50 sxs. 340-440'

Casing cut and pulled from 789'

Top of cement calculated at 2700'

Cement retainer set at 4350' with 40 sxs. below retainer and 10 sxs. above retainer

Perforations 4414-4426'

7" production casing set at 4489'

OPERATOR: Marathon O	il Company	LEASE: State	e EKA	
WELL NO.: 2	FOOTAGE: 660	FNL & 1980' FEL	SECTION: 18-18:	5-34E 1
	TUBULAR	DATA		
SURFACE CASING				
SIZE: 10-3/4" 4 TOC: Surface HOLE SIZE: 13-3/4"	FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	200 Circulation 348'	sx.
INTERMEDIATE CASING				
SIZE: None TOC: HOLE SIZE:	FEET	DETERMINED BY:		
LONG STRING				
SIZE: 7" 23# TOC: 2800 (estimate HOLE SIZE: 8-3/4"	ed) FEET	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	375 Calculation 4489'	SX.
TOTAL DEPTH: 4490'	PRODUCING	TNITEDIAL		
FORMATION: Queen	PRODUCING		E-K Yates Seven 1	Rivers Ouee
SPUD DATED: 9/26/55		COMPLETION DATE	: 10/31/55	
PERFORATED: 4430		EET TO 44		FEET
STIMULATION: 500 gal	lons acid, 10,000	gallons oil & 1	0,000# sand	
OTHER PERFORATED ZONI	ES: None			
	······································			
	CURRENT	STATUS		
WHAT IS CURRENT STATE	JS OF WELL? P&	A		
IF P&A, LIST PLUGGING the retainer and 10	sxs. above retain	er. Cut & pulle	d casing from 18	
50 sxs. 1934-1834',	ou sxs. 430-330',	10 sxs. surface	plug.	

State EKA #2 NW/4 NE/4 Sec. 18-18S-34E Lea County, New Mexico

В

10-3/4" surface casing set at 348' with cement circulated 50 sxs. 330-430'

Cut and pull casing from 1884' 50 sxs. 1834-1934'

Top of cement in annulus at 2800 (estimated)

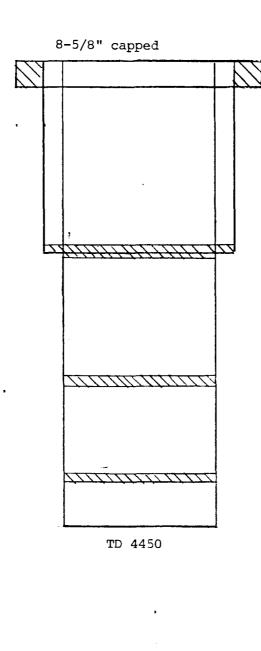
Cement retainer set at 4350' with 40 sxs. below retainer and 10 sxs. above retainer

Perforations 4430-4440'

7" production casing set at 4489'

OPERATOR: T. J. Sivley	·	_ LEASE:	Fox		
WELL NO.: 3	FOOTAGE: 330'	FNL & 2370'	FWL	SECTION: 18-	18S-34E
	TUBULAR	DATA			
SURFACE CASING					
SIZE: 13-3/8" 40# FOC: Surface HOLE SIZE: Unknown	FEET	DETERMINED	BY:	220 Circulation 240	sx.
NTERMEDIATE CASING		SETTING BEF		240	
SIZE: 8-5/8" FOC: None HOLE SIZE: Unknown	FEET	CEMENTED WI DETERMINED SETTING DEP	TH: BY: TH:	Mudded None 1775'	SX.
LONG STRING					
SIZE: None TOC: HOLE SIZE:	FEET	DETERMINED	BY:		
TOTAL DEPTH: 4450'		TNIMEDIZAZ			
FORMATION: None	PRODUCING		LD:		
PERFORATED:	·F	EET TO	DATE		FEET
STIMULATION: None					
OTHER PERFORATED ZONES:_	None		·		
	CURRENT	STATUS			
WHAT IS CURRENT STATUS O	F WELL? P	A.	<del> </del>		
IF P&A, LIST PLUGGING DE 1800', 8-5/8" casing was	TAILS: 10 sx	s. at 4000',	20 s	xs. at 3100',	20 sxs. at
1000 , 0 5/0 Cubing was					

8500



13-3/8" surface casing set at 240' with cement circulated

8-5/8" set at 1775' and mudded in 20 sxs. at 1800'

20 sxs. at 3100'

10 sxs. at 4000'

Cement

OPERATOR: T. J. Sivley	LEASE: Fox	
WELL NO.: 2 FOOTAGE: 66	O' FNL & 660' FWL SECTION: 18-18	3S-34E
<u>.</u>		
TUBULA	R DATA	
SURFACE CASING		
SIZE: 8-5/8" 24#	CEMENTED WITH: 175	sx.
TOC: Surface FEET HOLE SIZE: Unknown	DETERMINED BY: Circulation SETTING DEPTH: 299'	
INTERMEDIATE CASING	· · · · · · · · · · · · · · · · · · ·	
SIZE: None	CEMENTED WITH:	SX.
SIZE: None TOC: FEET	DETERMINED BY:	
HOLE SIZE:	SETTING DEPTH:	
LONG STRING		
SIZE: None	CEMENTED WITH:	sx.
SIZE: None  TOC: FEET  HOLE SIZE:	DETERMINED BY:	
	SETTING DEPTH:	
TOTAL DEPTH: 4441'		
PRODUCIN	G INTERVAL	
FORMATION: None SPUD DATE:	POOL OR FIELD:	
SPUD DATE: PERFORATED:	COMPLETION DATE:	
PERFORATED:	FEET TO	FEET
STIMULATION: None		
OTHER PERFORATED ZONES: None		
	······································	
CURREN	T STATUS	
WHAT IS CURRENT STATUS OF WELL? P&	A	
IF P&A, LIST PLUGGING DETAILS: 20 s 1800', 15 sxs. at 330', cap put in 9	·	o sxs. at

Fox #2 NW/4 NW/4 Sec. 18-18S-34E Lea County, New Mexico

8-5/8" capped SURFACE 3-5/8" surface casing set at 299' with cement circulated 500 15 sxs. at 330' 1000 1500 2000 20 sxs. at 1800' 2500 3000 20 sxs. at 3100' 3500 4000 20 sxs. at 4000' 4500 5000 TD 4441 5500 600Q Cement 6500 7000 750Q

8000

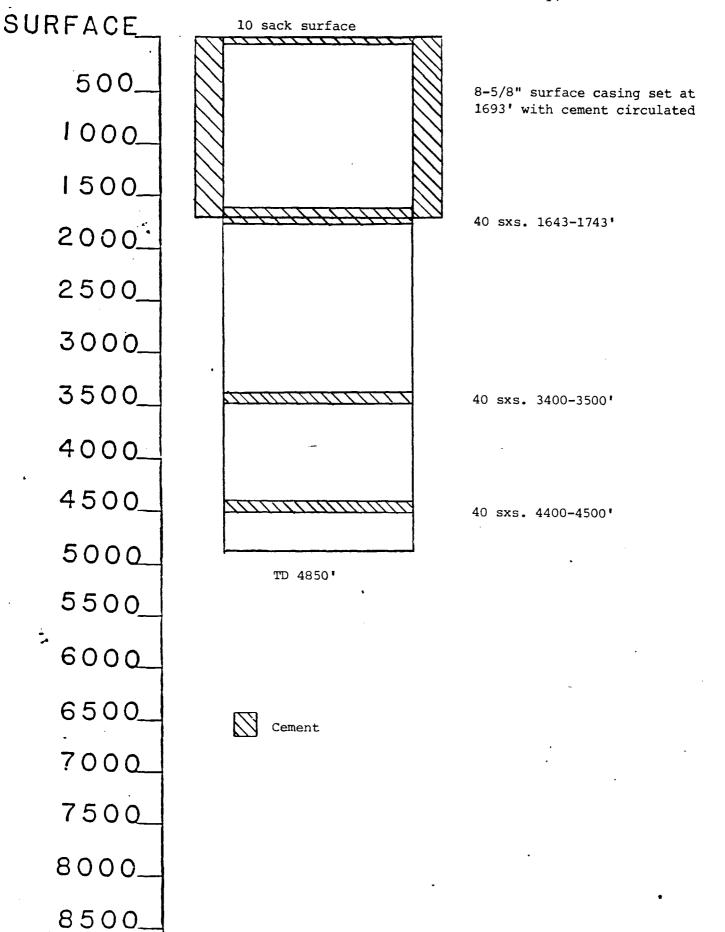
8500

OPERATOR: Oryx	_ LEASE: Mes	calero Ridge	"C" Federal
WELL NO.: 1 FOOTAGE: 330	' FNL & 330' F	WL SECTION:	18-18S-34E r
TUBULAR	DATA		
SURFACE CASING			
	CEMENTED WITH DETERMINED BY SETTING DEPTH	: Circulation	
INTERMEDIATE CASING			
TOC: Surface FEET	CEMENTED WITH DETERMINED BY SETTING DEPTH	: Circulation	
LONG STRING			
SIZE: 5-1/2" 15.5 & 17#  POC: Surface FEET  HOLE SIZE: 7-7/8"	CEMENTED WITH DETERMINED BY SETTING DEPTH	1: 195 7: Circulatio	50 SX.
TOTAL DEPTH: 9180 ·			
	INTERVAL	_	
FORMATION: Bone Springs SPUD DATE: 9/20/85	COMPLETION DA	:Mescalero Es ATE: 12/9/85	scarpe Bone Sprir
	EET TO	8890	FEET
and 270,000 SCF nitrogen	4,000 gallons	Versagel and	34,500# sand
OTHER PERFORATED ZONES: None			
CURRENT	'STATUS		
WHAT IS CURRENT STATUS OF WELL? Pun	mping oil well		
IF P&A, LIST PLUGGING DETAILS:			

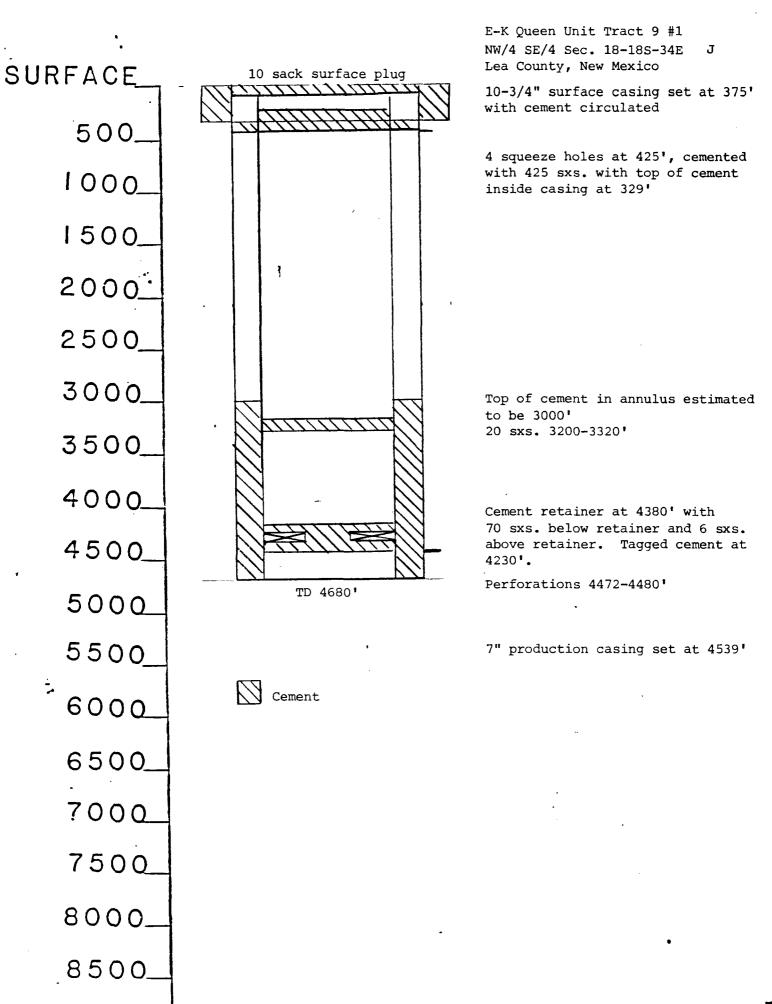
OPERATOR: Santa Fe Exploration LEASE: E-K Queen Unit Tract 4				4	
WELL NO.: 1 FOOTAGE	E: <u>1980'</u>	FNL & 660'	FWL	SECTION: 18-18	3S-34E
		· · · · · · · · · · · · · · · · · · ·			
TU	JBULAR	DATA			
SURFACE CASING					
SIZE: 8-5/8" 24#		CEMENTED WI			sx.
		DETERMINED 1			
OLE SIZE: Unknown	<del></del>	SETTING DEP	TH:	1760'	
NTERMEDIATE CASING					
IZE: None		CEMENTED WI	TH:		sx.
OC:F	FEET	DETERMINED I	BY:		
OLE SIZE:	<del></del>	SETTING DEP	TH:		<u></u>
ONG STRING					
IZE: 5-1/2" 15.5#		CEMENTED WI	TH:	100	SX.
OC: 3800 (estimated) F	FEET	DETERMINED :	BY:	Calculation	
ICLE SIZE: 7-7/8"		SETTING DEP	TH:	4373	
TOTAL DEPTH: 4413	OUCTNG	INTERVAL			
FORMATION: Queen SPUD DATE: 12/20/54		POOL OR FIE	LD: E	-K Yates-Seven	Rivers-Que
SPUD DATE: 12/20/54 PERFORATED: Open Hole 4373	•FF	COMPLETION :	DATE:	<u>2/13/55</u> 413	FEET
STIMULATION: None		<del> </del>			
OTHER PERFORATED ZONES: None					
					<del></del>
CU	URRENT	STATUS			
WHAT IS CURRENT STATUS OF WELL?	Act	ive water i	nject	ion well	<del>- · · ·</del>
IF P&A, LIST PLUGGING DETAILS:					
				- · · · · · · · · · · · · · · · · · · ·	

OPERATOR: Santa Fe Exploration Co.	LEASE: Amoc	o-State	_
WELL NO.: 1 FOOTAGE: 198	0' FNL & 660' FEL	SECTION: 18-18S-34E	- Н
TUBULA	R DATA		_
SURFACE CASING			
SIZE: 13-3/8" 54.5#  FOC: Surface FEET  HOLE SIZE: 17-1/2"	CEMENTED WITH: DETERMINED BY:	425 SX Circulation	•
HOLE SIZE: 17-1/2" INTERMEDIATE CASING	SETTING DEPTH:	409'	_
SIZE: 8-5/8" 32#  FOC: Surface FEET  HOLE SIZE: 12-1/4"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	2700 SX Circulation 5249'	• - -
LONG STRING			
SIZE: 5-1/2" 17#  FOC: 5000 FEET  HOLE SIZE: 7-7/8"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	1050 SX Temp. Survey 14,000'	•
TOTAL DEPTH: 14,002			
PRODUCIN	G INTERVAL		
FORMATION: Bone Springs SPUD DATED: 3/30/83 PERFORATED: 8576	POOL OR FIELD: COMPLETION DATE	Mescalero Escarpe Bone s : 10/9/84	<u>S</u> pri
PERFORATED: 8576	FEET TO 858	8 FEE	T
STIMULATION: 200 gallons 15% NEFE,	2000 gallons 15%	MSR with 800 STF nitroge	<u>e</u> n/11
			_
OTHER PERFORATED ZONES: Morrow 13,44 10,728-11,170' acidized w/8000 gals; acidized w/11,000 gals & squeezed w/ w/9500 gals. & squeezed w/200 sxs; Q CURREN	Bone Springs 10,4 100 sxs; 8440-8470	443-10,485'& 9682-9699' O'& 8682-9036' acidized	_
WHAT IS CURRENT STATUS OF WELL?Te	mporarily abandone	ed	<del></del>
IF P&A, LIST PLUGGING DETAILS:			_
			_ _

OPERATOR: Santa Fe Exploration In	LEASE: Lee Ranch					
WELL NO.: 1 FOOTAGE:	: 1650'	FSL & 660'	FEL	SECTION:	18-18S-34	E_I
TITLE	BULAR I					
SURFACE CASING	DULAR I	DATA				
7						
SIZE: 8-5/8" 24#	( 	CEMENTED WITH	H:	700	)	_sx.
TOC: Surface FE HOLE SIZE: 12-1/4"	EET I	SETTING DEPT	1C; H:	rculation 1693	3 '	
INTERMEDIATE CASING						
SIZE: None	(	CEMENTED WITH	H •			SX.
SIZE: None FE	EET I	DETERMINED B	Y:			
HOLE SIZE:		SETTING DEPT	н:			
LONG STRING						
SIZE: None	(	CEMENTED WITH	н:			SX.
10C: FF	EET I	DETERMINED B	Y:			
		SETTING DEPT	H:			
TOTAL DEPTH: 4850'						
PRODU	UCING :	INTERVAL				
			~ F-	Y Vator-S	ovon Di	
SPUD DATED: 9/7/85		POOL OR FIELD COMPLETION D	ATE:	0/17/05	even kivel	rs-Quee:
PERFORATED:	FE	ET TO		9/11/63		FEET
STIMULATION: None						
OTHER PERFORATED ZONES: None						
				-		<del></del>
CUF	RRENT	STATUS				
WHAT IS CURRENT STATUS OF WELL?	F&A					
IF P&A, LIST PLUGGING DETAILS: 40 sxs. 1643-1743', 10' sxs. suri			, 40	sxs. 3400	)-3500 <b>',</b>	
						<del></del>



OPERATOR: Santa Fe Exploration Inc.	LEASE: E-K Q	ueen Unit Trac	t 9
WELL NO.: 1 FOOTAGE: 198	80' FSL & 1980' F	ELSECTION: 18	-18S-34E J
TUBULAR	C DATA		
SURFACE CASING			
SIZE: 10-3/4" 32.75#         TOC: Surface       FEET         HOLE SIZE: 13-3/8"	DETERMINED BY:	Circulation	
INTERMEDIATE CASING			
SIZE: None  TOC: FEET  HOLE SIZE:	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:		sx.
LONG STRING			
SIZE: 7" 23#  TOC: 3000 (estimated) FEET  HOLE SIZE: 8-3/4"	CEMENTED WITH: DETERMINED BY: SETTING DEPTH:	380 Calculation	SX.
TOTAL DEPTH: 4680'	<del>-</del>		
PRODUCING	S INTERVAL		
FORMATION: Queen SPUD DATE: 6/24/55	POOL OR FIELD:	E-K Yates-Seve	n Rivers-Queen
SPUD DATE: 6/24/55 PERFORATED: 4472	EET TO	4480	FEET
STIMULATION: 10,000 gallons oil and	10,000# sand		
OTHER PERFORATED ZONES: None			
	STATUS		
WHAT IS CURRENT STATUS OF WELL? PE			<del></del>
rement below retainer & 6 sxs. above perf. 4 holes @ 425', cement w/425 sx	retainer w/TOC @	4230', 20 sxs	3200-3320',
plug @ 60'.			



ELL NO.: 2	FOOTAGE: 198	80' FSL & 1980' FSI	SECTION: 18-18	S-34E
,	TUBULA	R DATA		
SURFACE CASING				
SIZE: 8-5/8" 24#	;	CEMENTED WITH:	175	sx.
OC: Surface	FEET	DETERMINED BY:	Circulation	
IOLE SIZE: Unknown		SETTING DEPTH:	311	
NTERMEDIATE CASING				
SIZE: None		CEMENTED WITH:		sx.
SIZE: None	FEET	DETERMINED BY:		<del></del>
OLE SIZE:		SETTING DEPTH:		
LONG STRING				
SIZE: 5-1/2" 14#		CEMENTED WITH:	525	sx.
COC: Unknown	FEET	DETERMINED BY:	Unknown	
HOLE SIZE: Unknown		SETTING DEPTH:	4509	<del></del>
	PRODUCINO	G INTERVAL		
'ORMATION: Queen		POOL OR FIELD: F		Rivers-Qu
FORMATION: Queen SPUD DATE: 8/28/55		POOL OR FIELD: E	9/23/55	
FORMATION: Queen EPUD DATE: 8/28/55 PERFORATED: 4440		POOL OR FIELD: F	9/23/55	Rivers-Qu FEET
		POOL OR FIELD: E	9/23/55	
SPUD DATE: 8/28/55 PERFORATED: 4440		POOL OR FIELD: E	9/23/55	
SPUD DATE: 8/28/55 PERFORATED: 4440	1	POOL OR FIELD: E	9/23/55	
SPUD DATE: 8/28/55 PERFORATED: 4440 STIMULATION: Unknown	1	POOL OR FIELD: E	9/23/55	
SPUD DATE: 8/28/55 PERFORATED: 4440 STIMULATION: Unknown OTHER PERFORATED ZONES:	None CURREN	POOL OR FIELD: E COMPLETION DATE: FEET TO 4	9/23/55	
SPUD DATE: 8/28/55 PERFORATED: 4440 STIMULATION: Unknown	None CURREN	POOL OR FIELD: E COMPLETION DATE: FEET TO 4	9/23/55	
SPUD DATE: 8/28/55 PERFORATED: 4440 STIMULATION: Unknown OTHER PERFORATED ZONES:	None  CURRENT OF WELL? Ac-	POOL OR FIELD: E COMPLETION DATE: FEET TO 4  T STATUS tive water injecti	9/23/55 480 on well	

# TRETOLI?

#### **Chemicals and Services**

PETROLITE

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

: 02/17/93

Reply to: P.O. Box FF

Artesia, New Mexico 88210 (505) 746-3588 Phone (505) 746-3580 Fax

WATER ANALYSIS REPORT

: SEELY OIL CO. Date Company : ARTESIA, NEW MEXICO : F WATER - WASSERHUND Date Sampled : 02/17/93 Address Lease Analysis No.: 029

Well : EDISON STATION

Sample Pt. : LOAD RACK

2. Other 3 (1-2003) 3 2007 33

	ANALYSIS		mg/L		* meq/L
1.	pH 7.5				
2.	H2S NEG				
3.	Specific Gravity 1.000				
4.	Total Dissolved Solids		1109.7		
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	2.0	HCO3	0.0
	Chloride	Cl	746.0	Cl	21.0
13.	Sulfate	SO4	70.0	SO4	1.5
14.	Calcium	Ca	800.0	Ca	39.9
15.	Magnesium	Mg	122.0	Mg	10.0
16.	Sodium (calculated)	Na	-630.4	Na	-27.4
17.	Iron.	Fe	0.1		
18.	Barium	Ba	NR		
19.	Strontium	Sr	NR		
20.			2500.0		

### PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	r +	Compound	Equiv wt	X meq/L	= 11
40 *Ca < *HCO3 /> 10 *Mg> *SO4/ -27 *Na> *Cl  ++  Saturation Values Dist. Wat CaCO3 13 m CaSO4 * 2H2O 2090 m BaSO4 2.4 m	g/L g/L	Ca (HCO3) 2 CaSO4 CaCl2 Mg (HCO3) 2 MgSO4 MgCl2 NaHCO3 Na2SO4 NaCl	81.0 68.1 55.5 73.2 60.2 47.6 84.0 71.0 58.4	0.0 1.5 21.0	1)

**REMARKS:** 

S. HOLLINGER / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted STEVE HOLLINGER



Company : SEELY OIL CO. Date : 02/17/93 Address : ARTESIA, NEW MEXICO Date Sampled: 02/17/93

Lease : F WATER - WASSERHUND

Analysis No. : 029
Analyst : STEVE HOLLINGER : EDISON STATION Well Analyst

: LOAD RACK Sample Pt.

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

S.I. = -1.0 at 60 deg. F or 16 deg. C S.I. = -1.0 at 80 deg. F or 27 deg. C S.I. = -0.9 at 100 deg. F or 38 deg. C S.I. = -0.9 at 120 deg. F or 49 deg. C S.I. = -0.8 at 140 deg. F or 60 deg. C

\*

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

S	=	699	at	60	deg.	F	or	16	deg	С
S	=				deg.					
S	=				deg.					
S	=				deg.					
S	=				deq.					

Petrolite Oilfield Chemicals Group

Respectfully submitted STEVE HOLLINGER



16010 Barker's Point Lane, Suite 450 Houston, Texas 77079-4021 713 558-5200 • Fax: 713 589-4737

Reply to: P.O. Box 5250

Hobbs, New Mexico 88241 505 392-6711 Phone 505 392-3759 Fax

## WATER ANALYSIS REPORT

: SEELY OIL CO. Company Address : ARTESIA, NM

Date : 2-16-93 Date Sampled: 2-16-93 Analysis No.: 260

Lease

: AMOCO ST.

Well

Sample Pt. : BATTERY

	ANALYSIS		mg/L		* meq/L
1.	рН	6.7			
2.	H2S	POSITIVE			
3.	Specific Gravity	1.145			
4.	Total Dissolved Solids	3	241247.2		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkali	inity (CaCO3)			
10.	Methyl Orange Alkalini	ity (CaCO3)	194.0		
11.	Bicarbonate	HCO3	236.7	HCO3	3.9
12.	Chloride	Cl	147639.3	Cl	4164.7
13.		SO4	700.0	SO4	14.6
14.	Calcium	Ca	13539.0	Ca	675.6
15.	Magnesium	Mg	1692.0	Mg	139.2
16.	Sodium (calculated)	Na	77439.0	Na	3368.4
17.	Iron	Fe	1.2		
18.	Barium	Ba	NR		
	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)	)	40776.7		

#### PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg
676 *Ca < *HCO3 4 /> 139 *Mg> *SO4 15	Ca (HCO3) 2 CaSO4 CaCl2	81.0 68.1 55.5	3.9 14.6 657.1	31 99 3646
3368 *Na> *Cl 4165	Mg(HCO3)2 MgSO4 MgC12	73.2 60.2 47.6	139.2	662
Saturation Values Dist. Water 20 C CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L BaSO4 2.4 mg/L	NaHCO3 Na2SO4 NaCl	84.0 71.0 58.4	3368.4	19684

#### REMARKS:

STEVE HOLLINGER / FILE

Petrolite Oilfield Chemicals Group



Company : SEELY OIL CO. Address : ARTESIA, NM

Lease : AMOCO ST.

Well : # 1

Sample Pt. : BATTERY

Date : 2-16-93

Date Sampled: 2-16-93 Analysis No.: 260

Analyst : ROZANNE JOHNSON

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

S.I. = 1.1 at 60 deg. F or 16 deg. C S.I. = 1.1 at 80 deg. F or 27 deg. C S.I. = 1.1 at 100 deg. F or 38 deg. C S.I. = 1.2 at 120 deg. F or 49 deg. C S.I. = 1.2 at 140 deg. F or 60 deg. C

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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

S = 1067 at 60 deg. F or 16 deg C S = 1184 at 80 deg. F or 27 deg C S = 1259 at 100 deg. F or 38 deg C S = 1292 at 120 deg. F or 49 deg C S = 1314 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group



16010 Barker's Point Lane. Suite 450 Houston, Texas 77079-4021 713 558-5200 • Fax: 713 589-4737

Reply to: PO. Box 5250 Hoops, New Mexico 88241 505 392-6711 Phone 505 392-3759 Fax

### WATER ANALYSIS REPORT

Company : SEELY OIL CO. Address : ARTESIA, NM Date : 2-16-93 Date Sampled : 2-16-93 Lease Well : RHOADS : # 1 Analysis No. : 261

BATTERY Sample Pt.

	ANALYSIS		mg/L		* meq/L
1. 2.	หิ2S	7.3 POSITIVE			
3. 4.	Specific Gravity Total Dissolved Solids	1.175	292923.7		
5. 6.	Suspended Solids Dissolved Oxygen		NR NR		
7.	Dissolved CO2		NR		
8. 9.	Oil In Water Phenolphthalein Alkali	nity (CaCO3)	NR		·
10.	Methyl Orange Alkalini	ty (CaCO3)	781.0		
11. 12.	Bicarbonate Chloride	HCO3 Cl	952.8 178351.6	HCO3 Cl	15.6 5031.1
13.		SO4	950.0	SO4	19.8
14. 15.	Calcium Magnesium	Ca Mg	18204.3 1487.8	Ca Mg	908.4 122.4
16.	Sodium (calculated)	Na	92780.2	Na	4035.7
17. 18.	Iron Barium	Fe Ba	197.0 NR		
19.	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)		51586.4		

#### PROBABLE MINERAL COMPOSITION \_\_\_\_\_

*milli equivalents per Liter	:	Compound	Equiv wt	X meq/L	= mç
908	16 20  5031	Ca (HCO3) 2 CaSO4 CaCl2 Mg(HCO3) 2 MgSO4	81.0 68.1 55.5 73.2 60.2	15.6 19.8 873.0	126 134 4844
	g/L	MgCl2 NaHCO3 Na2SO4	47.6 84.0 71.0	122.4	582
_	g/L g/L	NaCl	58.4	4035.7	23584

#### REMARKS:

---- STEVE HOLLINGER / FILE

Petrolite Oilfield Chemicals Group



Company : SEELY OIL CO. Date : 2-16-93 Date Sampled: 2-16-93 Analysis No.: 261 : ARTESIA, NM Address

Lease : RHOADS

: ROZANNE JOHNSON Well : # 1 Analyst

Sample Pt. : BATTERY

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

2.6 at 60 deg. F or 16 deg. C 2.5 at 80 deg. F or 27 deg. C 2.5 at 100 deg. F or 38 deg. C 2.5 at 120 deg. F or 49 deg. C 2.6 at 140 deg. F or 60 deg. C **S.I.** = s.i. =s.i. =S.I. = S.I. =

\*

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

719 at 60 deg. F or 16 deg C 800 at 80 deg. F or 27 deg C 850 at 100 deg. F or 38 deg C 871 at 120 deg. F or 49 deg C 885 at 140 deg. F or 60 deg C **S** = **S** = S = S =

Petrolite Oilfield Chemicals Group



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Hoods, New Mexico 88241 505 392-6711 Phone 505 392-3759 Fax

# WATER ANALYSIS REPORT

Company : SEELY OIL CO.
Address : ARTESIA, NM
Lease : B. C.
Well : # 1 & 2
Sample Pt. : BATTERY

Date

: 2-16-93

Date Sampled: 2-16-93 Analysis No.: 262

. -3-

	ANALYSIS			mg/L		* meq/L
1.	рН	6.8				
2.	H2S	POSITIVE				
3.	Specific Gravity	1.170				
4.	Total Dissolved Solid	s		279493.8		
5.	Suspended Solids			NR		
6.	Dissolved Oxygen			NR		
7.	Dissolved CO2			NR		
8.	Oil In Water			NR		
9.	Phenolphthalein Alkal	inity (Cac	203)			
10.	Methyl Orange Alkalin	ity (Cacos	3)	177.0		
11.	Bicarbonate	F	1C03	215.9	HCO3	3.5
	Chloride		21	170088.2	cl	4798.0
13.	Sulfate	5	504	1100.0	SO4	22.9
	Calcium		Ca	12096.1	Ca	603.6
15.	Magnesium		1g	1225.2	Mg	100.8
16.	Sodium (calculated)		٧a	94719.3	Na	4120.0
17.	Iron	I	Fe	49.0		
18.	Barium	F	3a	NR		
	Strontium		Sr	NR		
20.	Total Hardness (CaCO3	1)		35251.7		

### PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	: 	Compound	Equiv wt	X meq/L	= mg
604 *Ca < *HCO3 /> 101 *Mg> *SO4 // 4120 *Na> *C1	23  4798	Ca (HCO3) 2 CaSO4 CaCl2 Mg (HCO3) 2 MgSO4	81.0 68.1 55.5 73.2 60.2	3.5 22.9 577.2	28 155 3202
Saturation Values Dist. Water	++	MgC12 NaHCO3 Na2SO4	47.6 84.0 71.0	100.8	479
CaSO4 * 2H2O 2090 mg	g/L g/L	NaCl	58.4	4120.0	24077

#### REMARKS:

----- STEVE HOLLINGER / FILE

Petrolite Oilfield Chemicals Group



: SEELY OIL CO. : 2-16-93 Company Address Date : ARTESIA, NM

Lease

Date Sampled: 2-16-93
Analysis No.: 262
Analyst: ROZANNE JOHNSON : B. C. : # 1 & 2 Well Sample Pt. : BATTERY

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

1.2 at 60 deg. F or 16 deg. C 1.2 at 80 deg. F or 27 deg. C 1.2 at 100 deg. F or 38 deg. C 1.2 at 120 deg. F or 49 deg. C 1.2 at 140 deg. F or 60 deg. C S.I. =S.I. =S.I. =S.I. =S.I. =

\*

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

1134 at 60 deg. F or 16 deg C 1258 at 80 deg. F or 27 deg C 1337 at 100 deg. F or 38 deg C 1370 at 120 deg. F or 49 deg C 1393 at 140 deg. F or 60 deg C S = S = S = S = S =

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#### WATER ANALYSIS REPORT

Company : SEELY OIL CO.
Address : ARTESIA, NM
Lease : O. G.
Well : # 1 Date : 2-16-93 Date Sampled : 2-16-93 Analysis No. : 263

Sample Pt. -: BATTERY

	ANALYSIS		mg/L		* meq/L
1.	рН 6.6	ı			
2.	-	ITIVE			
3.	Specific Gravity 1.2	.00			
4.	Total Dissolved Solids		339604.7		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinit	y (CaCO3)			
10.	Methyl Orange Alkalinity		118.0		
11.	Bicarbonate	HCO3		HCO3	2.4
12.	Chloride	Cl	205758.5	Cl	5804.2
	Sulfate	S04	1500.0	SO4	31.2
	Calcium	Ca	7823.6	Ca	390.4
15.		Mg	1132.8	Mg	93.2
16.	Sodium (calculated)	Na	123092.7	Na	5354.2
17.	Iron	Fe	153.0		
	Barium	Ba	NR		
	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)		24201.8		

### PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg
390 *Ca < *HCO3 /> 93 *Mg> *SO4 <br 5354 *Na> *Cl	31 5804	Ca (HCO3) 2 CaSO4 CaCl2 Mg (HCO3) 2 MgSO4	81.0 68.1 55.5 73.2 60.2	2.4 31.2 356.8	19 212 1979
-	/L  /L	MgC12 NaHCO3 Na2SO4 NaC1	47.6 84.0 71.0 58.4	93.2 5354.2	31289

#### REMARKS:

----- STEVE HOLLINGER / FILE

Petrolite Oilfield Chemicals Group



Company : SEELY OIL CO. Address : ARTESIA, NM

: O. G. : # 1

Lease Well

Sample Pt. : BATTERY

: 2-16-93 Date Sampled: 2-16-93

Analysis No.: 263

Analyst : ROZANNE JOHNSON

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

S.I. = 0.7 at 60 deg. F or 16 deg. C S.I. = 0.7 at 80 deg. F or 27 deg. C S.I. = 0.7 at 100 deg. F or 38 deg. C S.I. = 0.7 at 120 deg. F or 49 deg. C S.I. = 0.7 at 140 deg. F or 60 deg. C

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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

1563 at 60 deg. F or 16 deg C 1729 at 80 deg. F or 27 deg C 1831 at 100 deg. F or 38 deg C 1873 at 120 deg. F or 49 deg C 1901 at 140 deg. F or 60 deg C S = S = S =

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### WATER ANALYSIS REPORT

Company : SEELY OIL CO. Address : ARTESIA, NM

Date : 2-16-93

Lease

Date Sampled: 2-16-93 Analysis No.: 264

Address : ARTESIA, NM
Lease : SANTA FE
Well : # 1
Sample Pt. : BATTERY

	ANALYSIS		mg/L		* meq/L
1. 2.	pH H2S	6.1 POSITIVE			
3.	Specific Gravity	1.200			
4.	Total Dissolved Solids		334343.5		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkali				
10.	Methyl Orange Alkalini	ity (CaCO3)	118.0		
11.	Bicarbonate	HC03		HCO3	2.4
	Chloride	Cl	203922.2	Cl	5752.4
13.	Sulfate	SO4	850.0	SO4	17.7
14.	Calcium	Ca	15839.6	Ca	790.4
15.	Magnesium	Mg	1181.5	Mg	97.2
16.	Sodium (calculated)	Na	112302.7	Na	4884.9
17.	Iroņ	Fe	103.5		
18.	Barium	Ba	NR		
	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)	)	44419.9		

### PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mc
790 *Ca < *HCO3 /> 97 *Mg> *SO4	2	Ca(HCO3)2 CaSO4 CaCl2	81.0 68.1 55.5	2.4 17.7 770.3	19 12( 4274
4885 *Na> *Cl	5752	Mg(HCO3)2 MgSO4 MgCl2	73.2 60.2 47.6	97.2	46:
	I/L	NáHCO3 Na2SO4	84.0 71.0		
	;/L ;/L	NaCl	58.4	4884.9	2854

REMARKS:

STEVE HOLLINGER / FILE

Petrolite Oilfield Chemicals Group



Company : SEELY OIL CO. Address : ARTESIA, NM

Lease : SANTA FE

Well : # 1

Sample Pt. : BATTERY

Date : 2-16-93
Date Sampled : 2-16-93
Analysis No. : 264

Analyst : ROZANNE JOHNSON

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

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

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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

740 at 60 deg. F or 16 deg C 823 at 80 deg. F or 27 deg C 873 at 100 deg. F or 38 deg C S = S = 895 at 120 deg. F or 49 deg C 909 at 140 deg. F or 60 deg C S = S =

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### WATER ANALYSIS REPORT

Company : SEELY OIL CO. Date : 2-16-93
Address : ARTESIA, NM Date Sampled : 2-16-93
Lease : A. J. Analysis No. : 265

Lease : A. J.
Well : # 1
Sample Pt. : BATTERY

ANALYSIS mg/L \* meq/L pН 6.8 H2S POSITIVE Specific Gravity 3. 1.155 4. Total Dissolved Solids 258788.7 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 (CaCO3)
11. Bicarbonate HCO3 327.0 HCO3 398.9 HCO3 6.5 Chloride 157922.7 4454.8 12. Cl Cl 13. Sulfate S04 S04 950.0 19.8 14. Calcium 16569.1 Ca Ca 826.8 15. Magnesium 1205.8 Mg Mg 99.2 16. Sodium (calculated) 81732.3 Na 3555.1 Na 17. Iron Fe 10.0 18. Barium Ba NR 19. Strontium Sr NR 20. Total Hardness (CaCO3) 46341.7

### PROBABLE MINERAL COMPOSITION

*milli e	quivalents per Lite	r 	Compound	Equiv wt	X meq/L	= mc
827 99 	*Ca < *HCO3 /> *Mg> *SO4 <br *Na> *Cl	7 20  4455	Ca (HCO3) 2 CaSO4 CaCl2 Mg (HCO3) 2 MgSO4	81.0 68.1 55.5 73.2 60.2	6.5 19.8 800.5	52 134 4441
Saturati Caco Caso Baso	on Values Dist. Wat 3 13 m 4 * 2H2O 2090 m	+	MgC12 NaHCO3 Na2SO4 NaC1	47.6 84.0 71.0 58.4	99.2 3555.1	47: 2077

**REMARKS:** 

----- STEVE HOLLINGER / FILE

Petrolite Oilfield Chemicals Group



Date : 2-16-93
Date Sampled : 2-16-93
Analysis No. : 265
Analyst : ROZANNE JOHNSON Company : SEELY OIL CO. : ARTESIA, NM Address

Lease

: A. J. : # 1 Well

Sample Pt. : BATTERY

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

1.6 at 60 deg. F or 16 deg. C 1.6 at 80 deg. F or 27 deg. C 1.6 at 100 deg. F or 38 deg. C 1.6 at 120 deg. F or 49 deg. C 1.6 at 140 deg. F or 60 deg. C S.I. =s.i. =S.I. = s.I. = S.I. =

\*

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

_					-				-	_
S	=	847	at	60	deg.	F	or	16	deg	C
S	=				deg.					
S	=	1001	at	100	deg.	F	or	38	deg	C
S	=	1027								
S	=	1045								

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### WATER ANALYSIS REPORT

Company : SEELY OIL CO.
Address : ARTESIA, NM
Lease : SANTE FE
Well : # 2
Sample Pt. : BATTERY Date : 2-16-93
Date Sampled : 2-16-93
Analysis No. : 266

	ANALYSIS		mg/L		* meq/L
1.	pН	6.7			
2.	H2S	POSITIVE			
3.	Specific Gravity	1.165			
4.	Total Dissolved Solids		274931.8		
5.	Suspended Solids	_	NR		
6.	Dissolved Oxygen		NR		
	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkal	inity (CaCO3)			
10.	Methyl Orange Alkalin	ity (CàCO3) (	345.0		
11.	Bicarbonate	т ` нсоз	420.9	HCO3	6.9
	Chloride	Cl	167976.5	Cl	4738.4
13.	Sulfate	SO4	350.0	SO4	7.3
14.	Calcium	Ca	13643.2	Ca	680.8
15.		Mg	1220.4	Mg	100.4
16.	Sodium (calculated)	Na	91302.3	Na	3971.4
17.	Iron	Fe	18.5		
18.	Barium	Ba	NR		
	Strontium	Sr	NR		
20.	Total Hardness (CaCO3	)	39095.2		

### PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mc
681 *Ca < *HCO3 /> 100 *Mg> *SO4 // 3971 *Na> *Cl	7 7 7 4738	Ca(HCO3)2 CaSO4 CaCl2 Mg(HCO3)2 MgSO4 MgCl2	81.0 68.1 55.5 73.2 60.2 47.6	6.9 7.3 666.6	55 45 3695
-	g/L g/L	NaHCO3 Na2SO4 NaCl	84.0 71.0 58.4	3971.4	2320

#### REMARKS:

----- STEVE HOLLINGER / FILE

Petrolite Oilfield Chemicals Group



Company Address : SEELY OIL CO. : ARTESIA, NM

Lease : SANTE FE

Well : # 2

Sample Pt. : BATTERY

Date : 2-16-93
Date Sampled : 2-16-93
Analysis No. : 266

Analyst : ROZANNE JOHNSON

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

1.4 at 60 deg. F or 16 deg. C 1.4 at 80 deg. F or 27 deg. C 1.4 at 100 deg. F or 38 deg. C 1.4 at 120 deg. F or 49 deg. C 1.5 at 140 deg. F or 60 deg. C **S.I.** = S.I. = s.i. =**S.I.** =

\*

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

989 at 60 deg. F or 16 deg C 1098 at 80 deg. F or 27 deg C 1167 at 100 deg. F or 38 deg C 1197 at 120 deg. F or 49 deg C 1217 at 140 deg. F or 60 deg C **S** = **S** = S = S = S =

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### WATER ANALYSIS REPORT

Company : SEELY OIL CO. Date : 2-16-93 Date Sampled: 2-16-93 Address : ARTESIA, NM Lease : NEW MEXICO STATE Analysis No.: 267

Well

: # 2 : BATTERY Sample Pt.

	ANALYSIS		mg/L		* meq/L
1.	рН	6.8			
2.	H2S	POSITIVE			
3.	Specific Gravity	1.165			
4.	Total Dissolved Solids	}	273561.0		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkali	nity (CaCO3	)		
10.	Methyl Orange Alkalini		330.0		
11.	Bicarbonate	HCO		HCO3	6.6
12.	Chloride	Cl	167104.2	Cl	4713.8
13.	Sulfate	SO4	400.0	SO4	8.3
14.	Calcium	Ca	13691.3	Ca	683.2
15.	Magnesium	Mg	1191.2	Mg	98.0
16.	Sodium (calculated)	Na	90753.7	Ná	3947.5
17.	Iron	Fe	18.0		
18.	Barium	Ва	NR		
19.	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)		39095.2		

### PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg
683 *Ca < *HCO3 /> 98 *Mg> *SO4 3948 *Na *C1	7  8  4714	Ca (HCO3) 2 CaSO4 CaCl2 Mg(HCO3) 2 MgSO4	81.0 68.1 55.5 73.2 60.2	6.6 8.3 668.3	53 56 3708
Saturation Values Dist. Water 20 C CaCO3 13 mg/L		MgC12 NaHCO3 Na2SO4	47.6 84.0 71.0	98.0	466
	g/L g/L	NaCl	58.4	3947.5	23069

REMARKS:

STEVE HOLLINGER / FILE

Petrolite Oilfield Chemicals Group



Date : 2-16-93
Date Sampled : 2-16-93
Analysis No. : 267
Analyst

Analyst : ROZANNE JOHNSON

: SEELY OIL CO. Company : ARTESIA, NM Address

: NEW MEXICO STATE : # 2

Well

Lease

Sample Pt. : BATTERY

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

1.5 at 60 deg. F or 1.5 at 80 deg. F or 1.5 at 100 deg. F or 1.5 at 120 deg. F or 1.5 at 140 deg. F or 16 deg. C 27 deg. C 38 deg. C 49 deg. C S.I. = S.I. = S.I. =s.i. =S.I. =60 deg. C

\*

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

989 at 60 deg. F or 16 deg C 1099 at 80 deg. F or 27 deg C 1168 at 100 deg. F or 38 deg C 1197 at 120 deg. F or 49 deg C 1217 at 140 deg. F or 60 deg C S = S = **S** = **S** =

Petrolite Oilfield Chemicals Group