### MURPHY H. BAXTER

814 BUILDING OF THE SOUTHWEST TELEPHONE 915-684-6307 MIDLAND, TEXAS 79701 February 11, 1986 MAIL ADDRESS:
P. O. BOX 2040
MIDLAND, TEXAS 79702



Oil Conservation P. O. Box 2088 Santa Fe, New Mexico 87501

> RE: Convert to Water Injection North EK Queen 2-2 1980' FNL & 660' FEL Section 1, T18S, R33E Lea County, New Mexico

Dear Sir:

Murphy H. Baxter is requesting permission to convert the North EK Queen Unit 2-2 well to water injection. We anticipate this conversion to offset production declines in our newer wells, North EK Queen 2-6 and 2-7.

Attached is the Form C-108 and other required information.

We converted the North EK Queen Unit 2-3 to water injection in June of last year. The NMOC assigned Well No. 2-3 a maximum injection pressure of 1900 psi. This pressure was determined from a step-rate test done on that well. In order to expedite the administrative order we request the same injection pressure be assigned to the North EK Queen Unit 2-2.

Murphy H. Baxter would appreciate your immediate attention to this application.

If you have any questions concerning this application please call me.

Yours truly;

Chuck Sledge

Petroleum Engineer

Chuck Sledge

Attachments

### **OIL CONSERVATION DIVISION**

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING **GANTA FE, NEW MEXICO 8/501**  FORM C-108 Revised 7-1-81

APPLICATION FOR AUT	HORIZATION	TO	INJECT
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t.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Dyes One
11.	Operator: Murphy H. Baxter
	P. O. Box 2040, Midland, TExas 79702
	Contact party: Chuck Sledge Phone: 915-684-6307
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project?
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-balf mile radius circle drawn around each proposed injection

- well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
  - VII. Attach data on the proposed operation, including:
    - Proposed average and maximum daily rate and volume of fluids to be injected;
    - Whether the system is open or closed:
    - 3. Proposed average and maximum injection pressure;
    - Sources and an appropriate analysis of injection fluid and compatibility with 4. 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 proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- Attach appropriate geological data on the injection zone including appropriate lithologic \*VIII. detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
  - IX. Describe the proposed stimulation program, if any.
- х. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- Attach a chemical analysis of fresh water from two or more fresh water wells (if XI. available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
  - Applicants for disposal wells must make an affirmative statement that they have XII. examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

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

Chuck Sledge Petroleum Engineer Title 1-30-86 Signature: 📐 Date:

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. 3-14-85Further information available from

North EK Queen Water Injection Conversion (Order No. WXF548) DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

### III. WELL DATA

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

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

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

### XIV. PROOF OF NOTICE

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

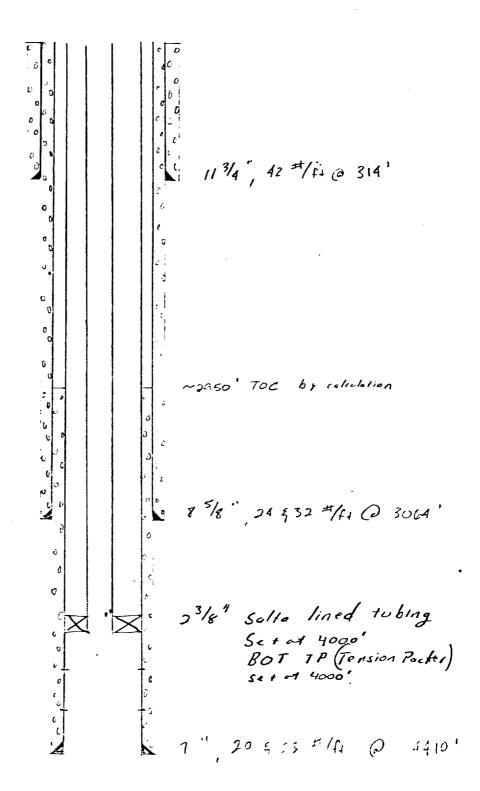
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

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

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

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

- A 1) North EK Queen Unit Tract 2: Well No. 2-2, Section 1, Township 18S, Range 33E, 1980 ft from the North Line and 660 ft from the East Line.
  - 2) Surface: 11 3/4", 42#/ft, Set at 314' with 275 sxs of cement, 15" hole size, cement circulated. Intermediate: 8 5/8", 24 & 32#/ft, set at 3064' with 250 sxs of cement, 11" hole size, cement circulated. Production: 7", 20 & 23#/ft, set at 4410' with 650 sxs of cement, 7 7/8" hole size, cement top at 2950', made by calculation.
  - 3) 2 3/8" plastic lined tubing set at 4100'.
  - 4) 2 3/8" X 7" Brown TP (Tension) Packer set at 4100'.
- B 1) EK Yates Seven Rivers Queen
  - 2) Perforated 4136' 4160'; 2 shots per foot
  - 3) Well was originally drilled to be an oil well
  - 4) –
  - 5) –



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Part VI
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- Tract 1, Well No. 1 -- See Order No. WXF 548
- Tract 2, Well No. 1 -- See Order No. WXF548
- Tract 2, Well No. 3 -- See Order No. WXF548
- Tract 2, Well No. 4 -- See Order No. WXF548
- Tract 2, Well No. 5 -- See Order No. WXF548
- Tract 2, Well No. 6 -- See Order No. WXF548
- Tract 3, Well No. 1 -- See Order No. WXF548
- Tract 3, Well No. 2 -- See Order No. WXF548
- Section 31, T-17-S, R34E, Neville Penrose (Phillips) 330' FSL & 330' FWL
  - -- See Order No. WXF548

Tract 3, Well No. 3

- -- Injection well (TA 11-15-82)
- Section 6, T-18-S, R34E, 2301' FNL & 1650' FWL Lea County, New Mexico
- Spud 6-21-62, TD 4195', PBTD 4154' Ran 8 5/8'' csg to 302' with 325 sxs cement
- Ran 4 1/2" csg to 4190' with 300 sxs cement Perf 32/4117 4133', treated with 500 gal 15% acid. Fraced with 15,000 gallons and 22,500# sand. Completed 7-7-62

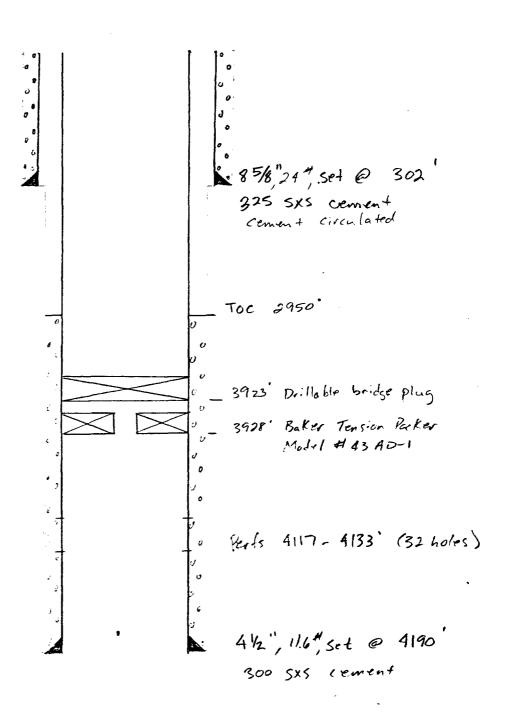
Tract 4, Well No. 1

-- See Order No. WXF548

Tract 2, Well No. 7

- -- Oil well
- Section 1, T-18-S, R33E, 1610' FNL and 2050' FEL Lea County, New Mexico
- Spud 2-14-85, TD 4300', PBTD 4214'
  Ran 5 5/8" csg to 366', cemented w/ 225 sxs
  Ran 4 1/2" csg to 4286', cemented w/ 1425 sxs
  Perf 57/4116' 4144' Treated with 1500 gallons acid
- Fraced w/10,000 gal, 1700# sand and 2226 gal CO Completed  $3-15-8\overline{5}$

North EK Queen 3-3 Lea Co., N.M. TA (11-15-82)



Pan American

990' FSL & 330 FEL

Sec 1 T185' R33E

Lea County New Mexico

Spud 6/4/62 COMP 7/3/62 Eleu, 4098'DF

333' 13% (sg cemented w/ 375sx

### Part VII

- 1) Average daily rate 16 bbl/hr
  Max daily rate 20 bbl/hr
  400 480 bbls fluid to be injected per day
- 2) This is a closed system
- 3) Average injection pressure 1800# Maximum injection pressure - 1900# - Determined by step rate test
- 4) Injecting produced water
- 5) –

### Part VIII

See Order No. WXF548

### Part IX

1500 gallons 15% HCL with Corrosion Inhibitor, Iron sequesterant and clay stabilizer.

### Part XI

See Order No. WXF548

### Part XII

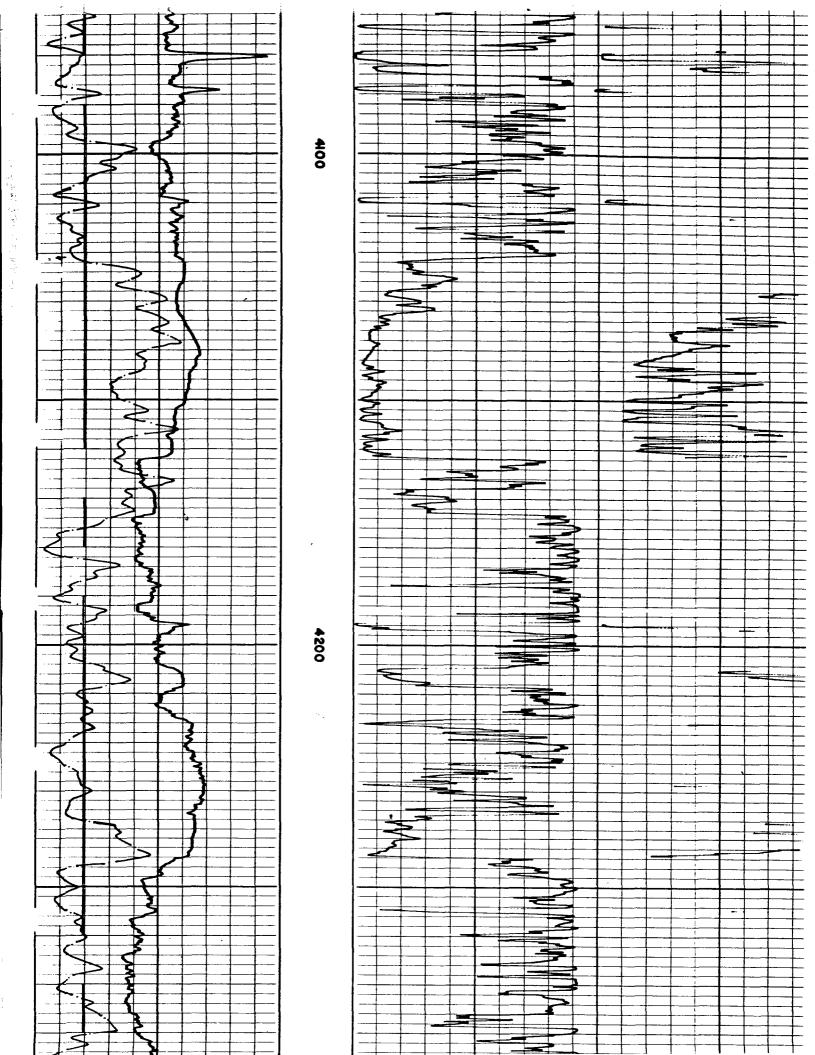
No faulting is shallow enough to affect aquifers existing in the area. There is no hydrologic connection between the injection zone and aquifers



MICROLATEROLOG

SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COMPANY CARPER DRIFTLING  COMPANY  COMP	Location of Well 1980' FROM N/L 660' FROM E/L  Elevation: D.F.: K.B.:4106 or G.L.:4095
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RUN No. DNE TWO	
Date 7-17-61 9-6-61	
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Last Reading 4000 3065	
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# MURPHY H. BAXTER 814 BUILDING OF THE SOUTHWEST TELEPHONE 915-684-6307 MIDLAND, TEXAS 79701

MAIL ADDRESS
P. O. BOX 2040
MIDLAND, TEXAS 79702

February 4, 1986

Cities Service Oil Company Mr. K. D. Van Horn P. O. Box 1919 Midland, Texas 79702

> RE: Convert Well to Water Injection North EK Queen Unit 2-2 Section 1, T18S, R33E 1980' FNL & 660' FEL Lea County, New Mexico

### Gentlemen:

The attached AFE for \$8,000 will cover the cost to convert the North EK Queen Unit 2-2 to water injection.

This well is currently making a trace of oil and 100 barrels of water per day. We anticipate this conversion to offset production declines in our newer wells, North EK Queen 2-6 and 2-7.

Your .342389 share of the AFE will be \$2,739.11 . If this meets with you approval, please return one signed copy to this office.

Yours truly;

Chuck Sledge Petroleum Engineer

Attachments

MURPHY H. BAXTER

814 BUILDING OF THE SOUTHWEST TELEPHONE 915-684-6307 MIDLAND, TEXAS 79701

MAIL ADDRESS
P. O. BOX 2040
MIDLAND, TEXAS 79702

February 4, 1986

Phillips Petroleum Company Mr. G. R. Glinsman P. O. Box 1967 Houston, Texas 77001

> RE: Convert Well to Water Injection North EK Queen Unit 2-2 Section 1, T18S, R33E 1980' FNL & 660' FEL Lea County, New Mexico

### Gentlemen:

The attached AFE for \$8,000 will cover the cost to convert the North EK Queen Unit 2-2 to water injection.

This well is currently making a trace of oil and 100 barrels of water per day. We anticipate this conversion to offset production declines in our newer wells, North EK Queen 2-6 and 2-7.

Your .071415 share of the AFE will be \$ 571.32 If this meets with you approval, please return one signed copy to this office.

Yours truly;

Chuck Sledge Petroleum Engineer

Attachments

MURPHY H. BAXTER
814 BUILDING OF THE SOUTHWEST
TELEPHONE 915-684-6307
MIDLAND, TEXAS 79701

MAIL ADDRESS:
P. O. BOX 2040
MIDLAND, TEXAS 79702

January 31, 1986

Scharbauer Cattle Company P. O. Box 1471 Midland, Texas 79702

RE: North EK Queen Unit 2-2 1980' FNL & 660' FEL Section 1, T18S, R33E Lea County, New Mexico Convert to Water Injection

### Gentlemen:

This letter is written to notify Scharbauer Cattle Company of Murphy H. Baxter's intent to convert the North EK Queen Unit 2-2 well to injection.

The well is spotted on the attached unit map.

Thank you.

Yours truly;

Chuck Sledge

Petroleum Engineer

Churk Sledge

Attachment

### MURPHY H. BAXTER 814 BUILDING OF THE SOUTHWEST TELEPHONE 915-684-6307 MIDLAND, TEXAS 79701

MAIL ADDRESS:
P. O. BOX 2040
MIDLAND, TEXAS 79702

January 31, 1986

Amoco Productin Company P. O. Box 68 Hobbs, New Mexico 88240

> RE: North EK Queen Unit 2-2 1980' FNL & 660' FEL Section 1, T18S, R33E Lea County, New Mexico Convert to Water Injection

### Gentlemen:

This letter is written to formally notify Amoco Production Company of Murphy H. Baxter's intent to convert the North EK Queen Unit 2-2 to injection.

According to the application, Murphy H. Baxter must notify all leasehold operators within one-half mile of the wells location.

The well is spotted on the attached unit map.

Thank you.

Yours truly;

Chuck Sledge

Petroleum Engineer

Chuck Slidge



### STATE OF NEW MEXICO

## ENERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

AYAMAYA ROMPEYSD March 3, 1986

POST OFFICE BOX 1980 HOBBS NEW MEX CO 58240 (LOS) 993-5161

OIL CONSERVATION DIVISION P. O. EOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed:     MC
Gentlemen:
I have examined the application for the:
Murphy H. Baxter North EK Queen Ut. Tr-2 #2-H 1-18-33
Operator Lease & Well No. Unit S-T-R
and my recommendations are as follows:
OK but need to require step rate test for this well.
Yours very truly,
Jerry Sexton Supervisor, District 1
/mc