



A Subsidiary of
Union Pacific Corporation

November 7, 1984

New Mexico Oil Conservation Commission
State Capitol
Santa Fe, New Mexico 87501

Re: Proposed Waterflood Project
State 5-8-33 and State 5A Leases
Chaveroo (San Andres) Pool
Chaves and Roosevelt Counties, New Mexico

Gentlemen:

Champlin Petroleum Company requests authority to establish a waterflood project on the State 5-8-33 and State 5A Leases located within the Chaveroo (San Andres) Pool, Chaves and Roosevelt Counties, New Mexico. Attached are the following for both wells which will be included in the proposed project:

1. Form C-108
2. Plat of area showing wells and leases within a 0.5 and a 2.0 mile radius.
3. Wellbore Schematic Diagram
4. Copy of the E-Log of the well.
5. Copies of waiver letters sent to offset operators and the surface owners.

Additionally, Champlin knows of no wells completed in any pool other than the Chaveroo (San Andres) within the two mile radius with the exception of the Phillips Petroleum Davis Wells No. 4-N and 5-N located in Sections 18 and 7 respectively of T-8-S and R-33-E in Chaves County which are completed in the Tobac (Penn) Pool.

It is our understanding of Rule 701A and B that this application will require a hearing be held. Champlin respectfully requests that this application be scheduled for hearing under the provisions of Rule 701.

Yours very truly,

CHAMPLIN PETROLEUM COMPANY

A handwritten signature in cursive script that reads 'Donald W. Tally, Jr.' followed by a large, stylized flourish.

D. W. Tally, Jr.
Senior Engineer
Attachments

cc: W. B. Johnston
J. R. Carter

Champlin Petroleum Company
P.O. Box 7946
Midland, Texas 79708-0946
915/697-4004

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Champlin Petroleum Company		ADDRESS P. O. Box 7946, Midland, TX 79708	
LEASE NAME State 5-8-33	WELL NO. 5	FIELD Chaveroo (San Andres)	COUNTY Chaves
LOCATION UNIT LETTER <u>G</u> ; WELL IS LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>5</u> TOWNSHIP <u>8-S</u> RANGE <u>33-E</u> NMPM.			

CASING AND TUBING DATA

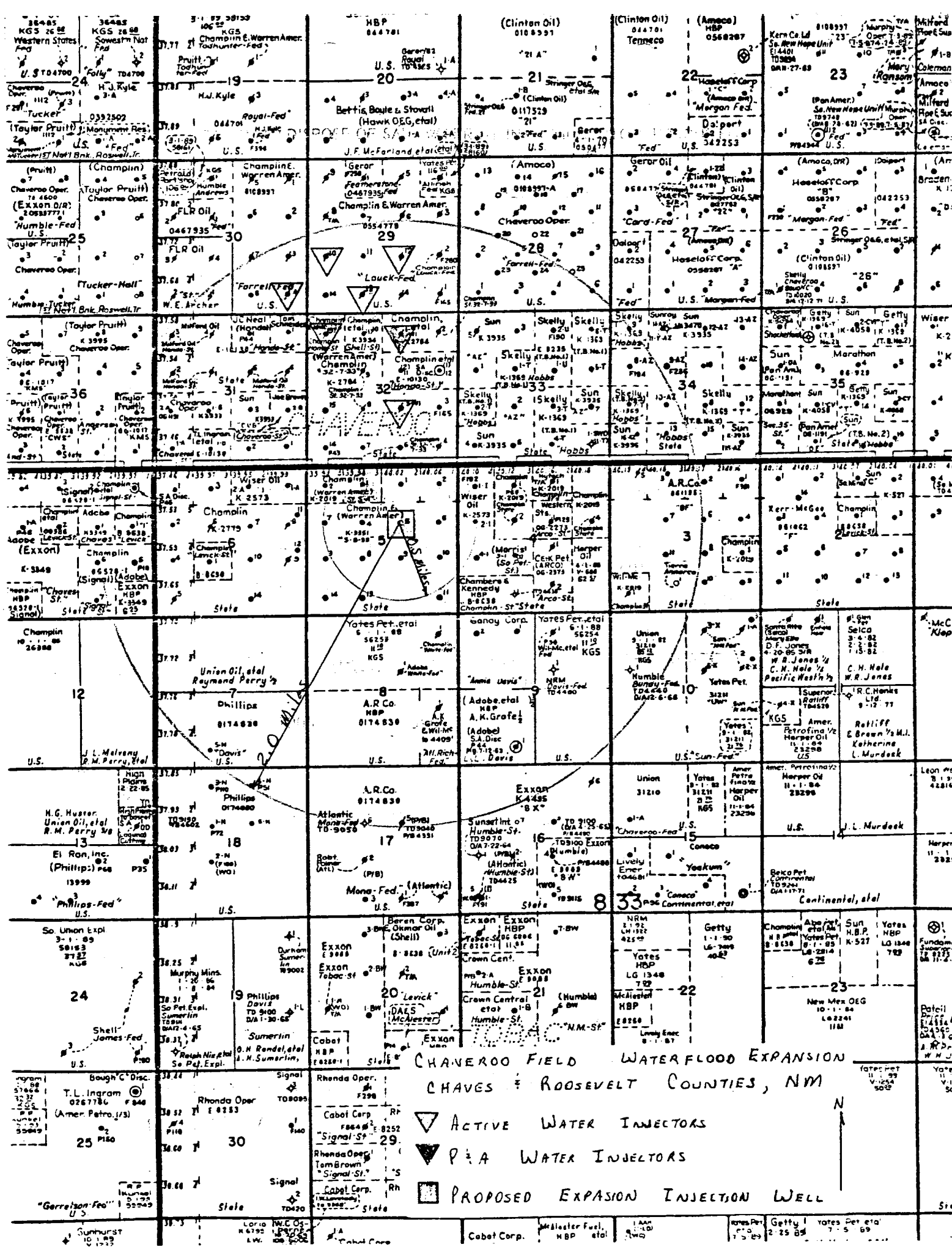
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8	1940	850	Surface	Circulation
INTERMEDIATE					
LONG STRING	4-1/2	4525	250	3427	70% Vol. Calc.
TUBING	2-3/8	4170	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Lok-Set Tension Packer @ 4170'		
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 3591'		BOTTOM OF FORMATION 4489 PBTB
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 4223-4401		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH					

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 170		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 500	MINIMUM 500	MAXIMUM 1000	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 1000
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) State of New Mexico (Owner)					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Wiser Oil Co. 904 Bldg. of the Southwest, Midland, TX 79701					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA Yes		ELECTRICAL LOG Yes	
				THE NEW MEXICO STATE ENGINEER N/A	
				DIAGRAMMATIC SKETCH OF WELL Yes	

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Donald W. Tally Senior Engineer Nov. 6, 1984
(Signature) (Title) (Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.



STATE S WELL N-5

1980' ENCEL

S-5, T8S, R35E

CHAUVERON FIELD

CHAVES Co, NM

Elev.

4435' GR

4446' RKB

12 1/2" Hole

to 1150'

11" Hole

to 1940'

Cmt: 600 ex Lita # 250 ex Class "C" 2% CaCl (Circ. to Surf.)
Csg: 8 5/8", 24", H-40 STFC SA 1940'

7 1/8" Hole

TOC-3427 (Calc. w/ 30% Washout)

2 3/8" Tubing

Tension Packer @ 4170'

Perfs: 4223-4401 (20 Holes)

Cmt: 250 ex 52.50 lbm/l 2% gel # 3#/ex Salt
Csg: 4 1/2", 10.5#, J-55 STFC SA 4525'

TI 4525'

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS





A Subsidiary of
Union Pacific Corporation

November 7, 1984

State of New Mexico
State Capitol
Santa Fe, New Mexico 87501

Re: Champlin Petroleum Company
State 5-8-33 Well No. 5
Chaveroo - San Andres Pool
Chaves County, New Mexico

Gentlemen:

Champlin Petroleum Company proposes to convert the subject well, located in Unit G of Section 5, T-8-S, R-33-E, Chaveroo-San Andres Pool, Chaves County, New Mexico, to water injection. Attached for your review is a copy of Application Form C-108 and an area plat.

If you, as surface owner, have no objection to this application, please execute two copies of this letter, forwarding one copy to the New Mexico Oil Conservation Commission in Santa Fe, New Mexico and returning one copy to our Midland office. Included for your convenience are pre-addressed envelopes.

Yours very truly,

CHAMPLIN PETROLEUM COMPANY

D. W. Tally, Jr.
Senior Engineer
DWT:ld
Attachments

Approved:

Company: _____

By: _____

Date: _____



A Subsidiary of
Union Pacific Corporation

November 7, 1984

Wiser Oil Co.
904 Building of the Southwest
Midland, Texas 79701

Re: Champlin Petroleum Company
State 5-8-33 Well No. 5
Chaveroo - San Andres Pool
Chaves County, New Mexico

Gentlemen:

Champlin Petroleum Company proposes to convert the subject well, located in Unit G of Section 5, T-8-S, R-33-E, Chaveroo-San Andres Pool, Chaves County, New Mexico, to water injection. Attached for your review is a copy of Application Form C-108 and an area plat.

If you, as offset operator, have no objection to this application, please execute two copies of this letter, forwarding one copy to the New Mexico Oil Conservation Commission in Santa Fe, New Mexico and returning one copy to our Midland office. Included for your convenience are pre-addressed envelopes.

Yours very truly,

CHAMPLIN PETROLEUM COMPANY

D. W. Tally, Jr.
Senior Engineer
DWT:ld
Attachments

Approved:

Company: _____

By: _____

Date: _____

Champlin Petroleum Company
P.O. Box 7946
Midland, Texas 79708-0946
915/697-4004

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Champlin Petroleum Company		ADDRESS P. O. Box 7946, Midland, TX 79708	
LEASE NAME State "5-A"	WELL NO. 1	FIELD Chaveroo (San Andres)	COUNTY Chaves
LOCATION UNIT LETTER <u>C</u> ; WELL IS LOCATED <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>West</u> LINE, SECTION <u>5</u> TOWNSHIP <u>8-S</u> RANGE <u>33-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8	374.5	250	Surface	Circulation
INTERMEDIATE					
LONG STRING	4-1/2	4430	325	3003	Calculated
TUBING	2-3/8	4150	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Lok-Set Tension Packer @ 4150'		

NAME OF PROPOSED INJECTION FORMATION San Andres		TOP OF FORMATION 3582	BOTTOM OF FORMATION 4428 PBD
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing	PERFORATIONS OR OPEN HOLES? Perforations	PROPOSED INTERVAL(S) OF INJECTION 4216-4398	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No	

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 170	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None
ANTICIPATED DAILY INJECTION VOLUME (BBL/S.) 500	MINIMUM 500	MAXIMUM 1000
OPEN OR CLOSED TYPE SYSTEM Closed		IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure
APPROX. PRESSURE (PSI) 1000		
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE Yes		WATER TO BE DISPOSED OF Yes
NATURAL WATER IN DISPOSAL ZONE Yes		ARE WATER ANALYSES ATTACHED? No

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) State of New Mexico (Owner)
--

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Wiser Oil Co., 904 Bldg. of the Southwest, Midland, TX 79701

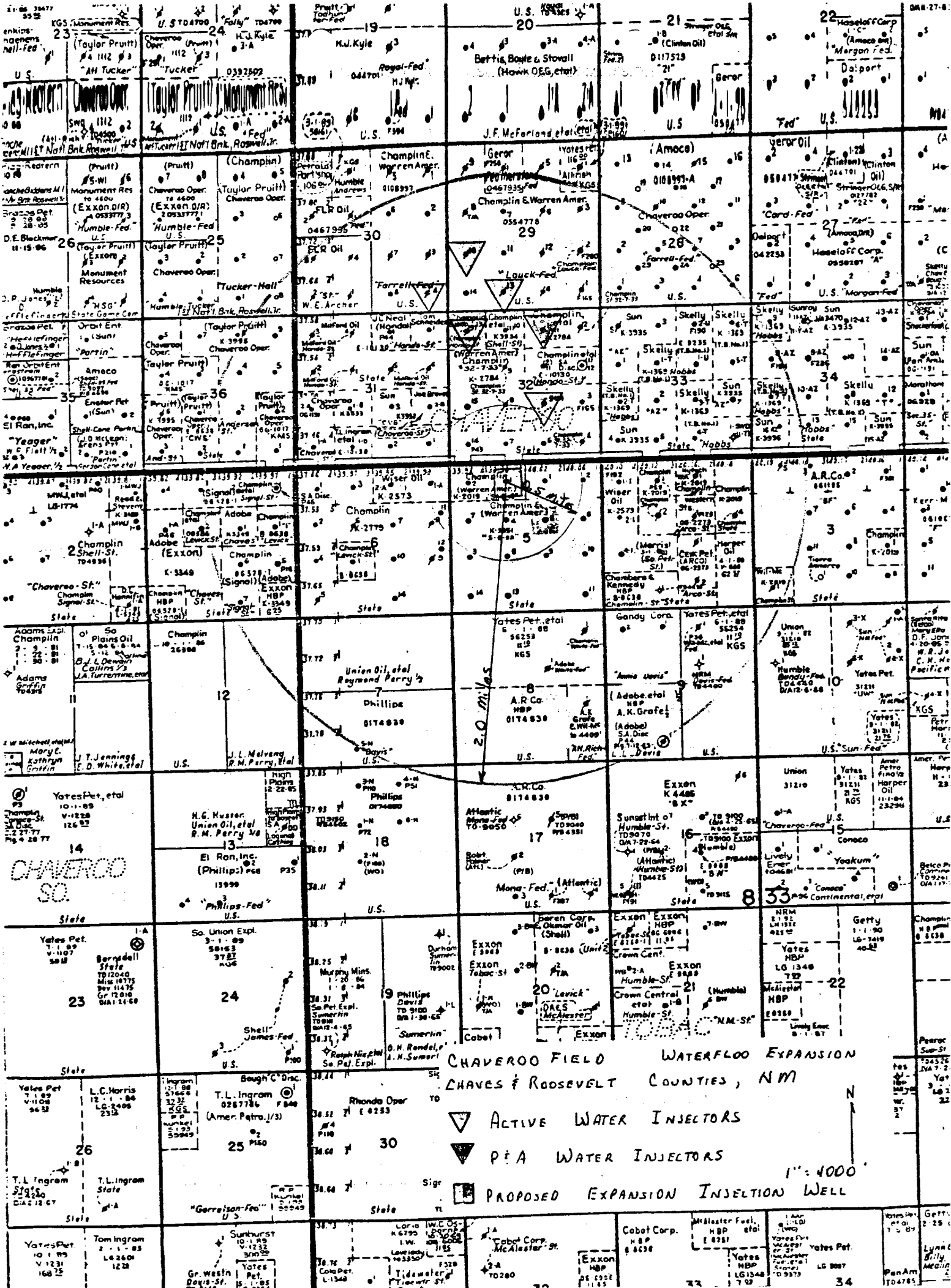
Sun Explor. & Prod. Co., P. O. Box 2339, Hobbs, NM 88240
--

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes	SURFACE OWNER Yes	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	THE NEW MEXICO STATE ENGINEER N/A
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes	PLAT OF AREA Yes	ELECTRICAL LOG Yes	DIAGRAMMATIC SKETCH OF WELL Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Donald W. Tally Senior Engineer Nov. 6, 1984
(Signature) (Title) (Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well. not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.



CHAVEROO FIELD WATERFLOOD EXPANSION

CHAVES & ROOSEVELT COUNTIES, NM

ACTIVE WATER INJECTORS

P&A WATER INJECTORS

PROPOSED EXPANSION INJECTION WELL

1" = 4000'

CHAVEROO FIELD
CHAVES CO., NMElev. 4433 GL
4444 RKB12 1/2"
HoleCmt: 250 ex Rm w/ 2% CaCl₂ & 1/4 #/ex Cello Flake (Circ. to Surf)
Csg: 8 7/8" 120#, STIC SA 3745'

ESG LEAK 1392-1424' Sgs 4/350 ex Class "C" Circ. to Surf.

7 7/8"
Hole

TOC 3000 (calculated w/ 30% workout)

2 3/8" Tubing

Tension Packer @ 4150'

PERFS: 4216 - 4398 (20 HOLES)

Cmt: 325 ex formix 2% gel & 8 #/sx salt
Csg: 4 1/2" 9.5# STIC SA 4430'

TD 4430

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

November 6, 1984

State of New Mexico
State Capital
Santa Fe, New Mexico 87501

Re: Champlin Petroleum Company
State "5A" Well No. 1
Chaveroo - San Andres Pool
Chaves County, New Mexico

Gentlemen:

Champlin Petroleum Company proposes to convert the subject well, located in Unit C of Section 5, T-8-S, R-33-E, Chaveroo-San Andres Pool, Chaves County, New Mexico, to water injection. Attached for your review is a copy of Application Form C-108 and an area plat.

If you, as surface owner, have no objection to this application, please execute two copies of this letter, forwarding one copy to the New Mexico Oil Conservation Commission in Santa Fe, New Mexico and returning one copy to our Midland office. Included for your convenience are pre-addressed envelopes.

Yours very truly,

CHAMPLIN PETROLEUM COMPANY

Donald W. Tally, Jr.

D. W. Tally, Jr.
Senior Engineer
DWT:ld
Attachments

Approved:

Company: _____

By: _____

Date: _____



A Subsidiary of
Union Pacific Corporation

November 6, 1984

Wiser Oil Co.
904 Building of the Southwest
Midland, Texas 79701

Re: Champlin Petroleum Company
State "5A" Well No. 1
Chaveroo - San Andres Pool
Chaves County, New Mexico

Gentlemen:

Champlin Petroleum Company proposes to convert the subject well, located in Unit C of Section 5, T-8-S, R-33-E, Chaveroo-San Andres Pool, Chaves County, New Mexico, to water injection. Attached for your review is a copy of Application Form C-108 and an area plat.

If you, as offset operator, have no objection to this application, please execute two copies of this letter, forwarding one copy to the New Mexico Oil Conservation Commission in Santa Fe, New Mexico and returning one copy to our Midland office. Included for your convenience are pre-addressed envelopes.

Yours very truly,

CHAMPLIN PETROLEUM COMPANY

D. W. Tally, Jr.
Senior Engineer
DWT:ld
Attachments

Approved:

Company: _____

By: _____

Date: _____

Champlin Petroleum Company
P.O. Box 7946
Midland, Texas 79708-0946
915/697-4004



A Subsidiary of
Union Pacific Corporation

November 6, 1984

Sun Exploration and Production Co.
P. O. Box 2339
Hobbs, New Mexico 88240

Re: Champlin Petroleum Company
State "5A" Well No. 1
Chaveroo - San Andres Pool
Chaves County, New Mexico

Gentlemen:

Champlin Petroleum Company proposes to convert the subject well, located in Unit C of Section 5, T-8-S, R-33-E, Chaveroo-San Andres Pool, Chaves County, New Mexico, to water injection. Attached for your review is a copy of Application Form C-108 and an area plat.

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Yours very truly,

CHAMPLIN PETROLEUM COMPANY

Donald W. Tally, Jr.

D. W. Tally, Jr.
Senior Engineer
DWT:ld
Attachments

Approved:

Company: _____

By: _____

Date: _____

Champlin Petroleum Company
P.O. Box 7946
Midland, Texas 79708-0946
915/697-4004

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Champlin Petroleum Co.
Address: P. O. Box 7946, Midland, TX 79703
Contact party: D. W. Tally, Jr. Phone: 915 697-4004
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. 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 proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby-wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground 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.
- Name: Donald W. Tally, Jr. Title Senior Engineer
Signature: Donald W. Tally, Jr. Date: November 28, 1984
- * 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. Data submitted 11-7-84 w/outdated Form C-108
- No known fresh water wells within 1 mile.

INJECTION WELL DATA SHEET -- SIDE 2

Tubing size 2-3/8" Fiberglass lined with ----- (material) ----- set in a
Baker Lok Set Tension (or equivalent) packer at 4170 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres
2. Name of Field or Pool (if applicable) Chaveroo (San Andre)
3. Is this a new well drilled for injection? ☐ Yes ☒ No
 If no, for what purpose was the well originally drilled? Oil Production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals
 and give plugging detail (sacks of cement or bridge plug(s) used) No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in
 this area. Tobac (Penn) Pool underlies 1 1/2 miles to south

INJECTION WELL DATA SHEET

SIDE 1

OPERATOR

LEASE

Champlin Petroleum Company

State 5-8-33

WELL NO. 5 FOOTAGE LOCATION

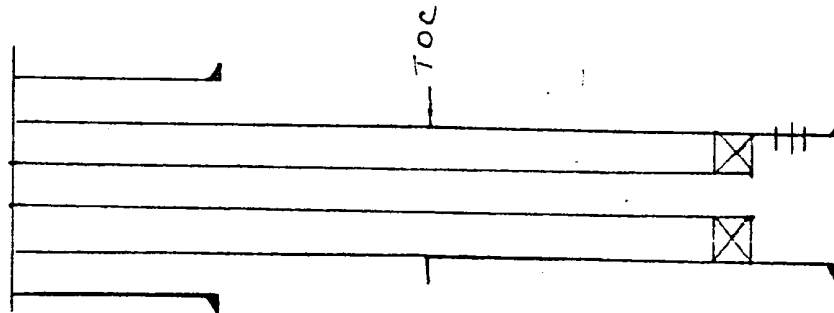
SECTION 5

TOWNSHIP 8-S

RANGE 33-E

5 1980' FN&EL

Schematic



Tabular Data

Surface Casing

Size 8-5/8" Cemented with 600 sx.

TOC Surface feet determined by Circulation

Hole size 12 1/4" to 1150', 11" to 1940'

Intermediate Casing

Size " Cemented with sx.

TOC feet determined by

Hole size

Long string

Size 4 1/2" Cemented with 250 sx.

TOC 3427 feet determined by Calculation w/30% washout

Hole size 7-7/8"

Total depth 4525'

Injection Interval

4223 feet to 4401 feet

(performed XXXXXXXXXX indicate which)

INJECTION WELL DATA SHEET

SIDE 1

OPERATOR

LEASE

CHAMPLIN PETROLEUM COMPANY

STATE 5 "A"

WELL NO. FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

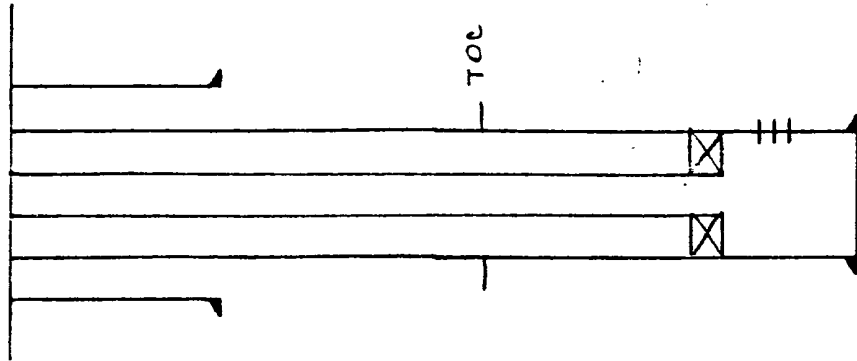
1

660' FNL & 1980' FWL

5

8-S

33-E

SchematicTabular DataSurface CasingSize 8-5/8 " Cemented with 250 sx.TOC Surface feet determined by CirculationHole size 12 1/4" to 374.5'Intermediate CasingSize " Cemented with sx.TOC feet determined by Hole size Long stringSize 4 1/2 " Cemented with 325 sx.TOC 3003 feet determined by Calculation w/30% washout.Hole size 7-7/8"Total depth 4430'Injection Interval

4216 feet to 4398 feet
 (perforated or ~~xxxxxxx~~, indicate which)

RECEIVED
DEC 26 1984

INJECTION WELL DATA SHEET -- SIDE 2

Tubing size 2-3/8" Fiberglass lined with _____ set in a
_____ (material)
Baker Lok-Set Tension (or equivalent) packer at 4150' feet
(brand and model)
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of field or Pool (if applicable) Chaveroo (San Andres)

3. Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Oil Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals
and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in
this area. Tobac (Penn) underlies 2 miles to south.