



Shell Western E&P Inc.

A Subsidiary of Shell Oil Company

April 14, 1986

P.O. Box 576
Houston, TX 77001

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

Gentlemen:

SUBJECT: EXPANSION OF WATERFLOOD PROJECT
SHELL-BLACK LEASE
LANGLIE MATTIX SEVEN RIVERS QUEEN POOL
UNIT LETTER J, 1980' FSL & 1980' FEL
WELL NO. 1
SEC. 21, T-24S, R-37E, NMPM
LEA COUNTY, NEW MEXICO

Shell Western E&P Inc. (SWEPI) respectfully requests administrative approval for expansion of the subject waterflood project and conversion of the subject well to water injection service.

NMOCD Order No. R-2747, granted July 29, 1964, authorized SWEPI to institute a waterflood project in the Langlie-Mattix Pool by the injection of water through four wells on the subject lease. Two of these four wells have recently been taken out of injection service: Black No. 5 (temporarily abandoned 2/86) and Black No. 7 (plugged and abandoned 2/86). The Black No. 5 will be plugged following approval of this application.

Black No. 1 has been temporarily abandoned for several years. The well was a Seven Rivers-Queen producer from 1936 until temporary abandonment. We now propose to convert the subject well to injection service for the purpose of enhanced recovery.

The following information is submitted in support of this request:

1. Plat of lease identifying the proposed injector and its project area.
2. A tabulation of data of all wells of public record within the area of review which penetrate the proposed injection interval.
3. Plugging detail for the four plugged and abandoned wells within the area of review.
4. A well data sheet that includes a diagrammatic sketch of the proposed well, injection tubing, packer and proposed Seven Rivers-Queen injection interval.
5. The water source will be reinjected produced water.

6. A chemical analysis of the nearest producing fresh water well.
7. Geological data on the injection zone and the fresh water source overlying the injection zone.
8. Our proposed stimulation program will consist of treating the gross injection interval with 1000 gallons of 15 percent HCl-NEA.
9. Injection will be into the Seven Rivers-Queen formation at an open hole interval of 3226' to 3627' (an uncemented slotted liner exists to 3557'). Daily volume of injection water is anticipated to be maintained at 350 barrels per day. Expected maximum injection pressure is approximately 1000 psig.
10. An Affidavit of Publication certifying the newspaper legal notice.
11. List of offset operators and surface owner.
12. All entities in Item Twelve have been notified by certified mail.

If additional information is required, please advise.

Yours very truly,



A. J. Fore
Supervisor Regulatory and Permitting
Production Administration
Western Division

JMW:LG

Attachments

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

State of New Mexico
Office of Land Commissioner
P. O. Box 1148
Santa Fe, NM 87501

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no

II. Operator: SHELL WESTERN E&P INC.

Address: P. O. BOX 576, HOUSTON, TX 77001 (WCK 4435)

Contact party: A. J. FORE Phone: (713) 870-3797

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 R-2747.

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:

350 350

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; AVG = 300 PSI; MAX = 1000 PSI
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: A. J. FORE Title SUPERVISOR REG. & PERMITTING

Signature: A. J. Fore Date: APRIL 14, 1986

* 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.

III. WELL DATA

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

10

Store

36

State

GU!!
W.B.P.
W. Conder
EST. 1911
F.M. Evans

Cont'd., et al
HBP
27724
All Sec.

12
MYERS LANGIE
MATTIX UNIT
GETTY(OPER)
U.S., MI
J.J. Smith, S

115 MI

J.J.Smith Clyde N.
Texaco HNG
Q922458 4-1-73

THE TELEOPERATOR

ANGLIE TDEC
MATTIX Benj. Guy
NIT NO. 1 /24--

Security
Tran.

U.S., MI
J.J. Smith, S
Canoe GEC
27-81 to 4000' C-2

Rock Bear DEG
J 3-28 9^o
James To 4000
mons 5 22 81
3610
12-8-55
Corrie.

- - - - 25 Hair etc.
shoe OEG
to 4000'
High Cont. 327 III.e

Getty
PROOF "Tonto" G.W. Green
Clive N. Cawser (S)

Gulf
CB-1732
phase W DOLLARHIDE
6A. Smith

• GETTY (OPE)
75ST

TD3170

"msg-State"

D) 0325-96
D. D. Dev. Co. of Te
Corporation
S. M.

PT Cities Service Gas

PORTION OF
LANGLIE MATTIX
SEVEN RIVERS QUEEN POOL
LEA COUNTY, NEW MEXICO

1"=4000' ○ SUBJECT WELL
● FRESH WATER WELL

(CHEMICAL ANALYSIS ATTACHED) Right Side of Te
Cylinder

UNICHEM INTERNATIONAL
 707 NORTH LEECH P.O. BOX 1499
 HOBBS, NEW MEXICO 88240

COMPANY : SHELL WESTERN
 DATE : 04/04/86
 FIELD, LEASE&WELL : LANGLIE MATTIX (BLACK)
 SAMPLING POINT: DOOM WATER WELL
 DATE SAMPLED : 04/03/86

SE/4 SE/4 sec. 21
 T-24-S R-37-E

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 756
 PH = 6.04

ME/L MG/L

CATIONS

CALCIUM	(CA)+2	4.4	88.1
MAGNESIUM	(MG)+2	1.6	19.4
SODIUM	(NA), CALC.	5.0	116.

ANIONS

BICARBONATE	(HCO3)-1	2.8	170.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.2	205
CHLORIDES	(CL)-1	4	156

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	.34
SARIUM	(BA)+2	0
MANGANESE	(MnO4)	NOT RUN

IONIC STRENGTH (MOLAL) = .016

SCALING INDEX TEMP

CARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	86F
CALCIUM SULFATE INDEX	2.14
CALCIUM SULFATE SCALING	LIKELY
	-15.
	UNLIKELY

GEOLOGICAL DATA

Injection Zone

- 1) Geological Name: Seven Rivers
Thickness: 357'
Depth: 3070'
Lithology: Predominantly limestone with significant anhydrite and sand.

- 2) Geological Name: Queen
Thickness: 203'
Depth: 3427'
Lithology: Predominantly limestone with significant sand and anhydrite. (The sand component is substantially greater in the Queen than in the Seven Rivers.)

Underground Sources of Drinking Water (10,000 mg/l or less)

- 1) Geological Name: Ogallala
Depth: Base at 140'

- 2) Geological Name: Santa Rosa
Depth: Base at 800'

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

1, _____
Robert L. Summers

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period

of _____
One _____ weeks.

Beginning with the issue dated

March 2, 19 86

and ending with the issue dated

March 2, 19 86

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 4 day of

March, 19 86

Vera Murphy
Notary Public.

My Commission expires _____

Nov. 14, 19 88
(Seal)

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

35 - **LEGAL NOTICE**
MARCH 2, 1986
NOTICE is hereby given of the application of Western E&P Inc., ATTN: M. J. Rare, Supervisor Regulatory and Permitting, P. O. Box 578, Houston, TX 77001, (713) 870-3787, to the Oil Conservation Division, New Mexico Energy & Minerals Department, for approval of the following injection well for the purpose of enhanced recovery operations.

Pool Name: Langile Matrix
Seven Rivers Queen
Lease Name: J. F. Black

Well No.: 1
Location: 1980 FSL & 1980 FEL
of Sec. 21, T-24-S, R-37-E;
NMPM, Lea County, New Mexico

The injection formation is the Seven Rivers-Queen at a depth of 3226 feet below the surface of the ground. Expected maximum injection rate is 350 barrels per day and expected maximum injection pressure is 1000 psig. Interested parties must file objections or request for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501-2088, within fifteen (15) days of this publication.

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OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

See, Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
S. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO REOPEN OR RELOCATE TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL GAS WELL OTHER -

2. Name of Operator

TEXACO Inc.

3. Address of Operator

P. O. Box 728 - Hobbs, New Mexico 88240

4. Location of Well

UNIT LETTER K, 1980 FEET FROM THE South LINE AND 1980 FEET FROM
THE West LINE, SECTION 21 TOWNSHIP 24-S RANGE 37-E NMMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
3227' (GR)

6. Farm or Lease Name

J. F. Black

9. Well No.

2

10. Field and Pool, or Wildcat
Jalmat Yates Gas

12. County
Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK
TEMPORARILY ABANDON
PULL OR ALTER CASING
OTHER _____

PLUG AND ABANDON
CHANGE PLANS
OTHER _____

ALTERING CASING
PLUG AND ABANDONMENT
OTHER _____

7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1503.

1. Rigged Up.
2. Set CIBP @ 2850'. Spot 8 sx (35') cement on top of plug.
3. Ran free point. Cut 7" OD csg @ 1338' & pulled 45 joints.
4. Spot 90 sx. cement plug from 1388-1222' (166').
5. Ran free point. Cut 8-1/4" csg @ 302' & pulled 13 joints.
6. Spot 170 sx cmt plug from 360-140' (220').
7. Spot 20 sx cmt plug from 20' - surface (20').
8. Install Dry Hole Marker. Clean up. Well P&A 3-19-77.

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

NED. John W. Rungan

TITLE Asst. District Supt.

DATE 3-23-77

Moved by John W. Rungan

TITLE Geologist

DATE AUG 29 1977

EDITIONS OF APPROVAL, IF ANY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

AFE No. 93998

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OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

SA. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
S. State Oil & Gas Lease No.	

SUNDY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL GAS WELL OTHER- INJECTOR

1. Name of Operator

SHELL OIL COMPANY

2. Address of Operator

P. O. BOX 991, HOUSTON, TX 77001

3. Location of Well

UNIT LETTER N 5 FEET FROM THE SOUTH LINE AND 1340 FEET FROM

THE WEST LINE, SECTION 21 TOWNSHIP 24-S RANGE 37-F NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)

3247' DF

7. Unit Agreement Name

BLACK WATERFLOOD PROJECT

8. Farm or Lease Name

BLACK

9. Well No.

4

10. Field and Pool, or Wildcat

LANGLIE-MATTIX

7 RIVERS QUEEN

12. County

LEA

6.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK

PLUG AND ABANDON

REMEDIAL WORK

ALTERING CASING

TEMPORARILY ABANDON

CHANGE PLANS

COMMENCE DRILLING OPS.

PLUG AND ABANDONMENT

PULL OR ALTER CASING

CASING TEST AND CEMENT JOB

OTHER _____

7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11-12-82: Set CIBP @ 3440'.

11-13-82: Circ hole w/9.5# mud and spotted 100' cmt plug.

11-15-82: Cut 4-1/2" csg @ 1490'. Circ hole w/9.5# mud. Spotted 40 sx cmt up to 1440'.

11-16-82: Spotted 30 sx cmt up to 215'. Spotted 15 sx cmt from 50' to surface. Cut 7-5/8" csg 4' below GL and capped 7-5/8" csg w/1/2" steel plate.

11-17-82: Filled cellar and cleaned location. Well now P&A.

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

Eddie Seay for A. J. FORE

TITLE SUPERVISOR REG. & PERMITTING

DATE JANUARY 17, 1983

ORIGINAL SIGNED BY EDDIE SEAY
OIL & GAS INSPECTOR

TITLE _____

DATE _____

DEC 8 1983

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

AFE No. 93999

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

SUNDY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT - I" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL GAS WELL OTHER- INJECTOR

2. Name of Operator

SHELL OIL COMPANY

3. Address of Operator

P. O. BOX 991, HOUSTON, TX 77001

4. Location of Well

UNIT LETTER O FEET FROM THE SOUTH LINE AND 2660 FEET FROM

THE WEST LINE, SECTION 21 TOWNSHIP 24-S RANGE 37-E MMPC.

15. Elevation (Show whether DF, RT, CR, etc.)
3229' DF

7. Unit Agreement Name

BLACK WATERFLOOD PROJECT

8. Form of Lease Name

BLACK

9. Well No.

6

10. Field and Pool or Wildcat
LANGHIE-MATTIX
7 RIVERS QUEEN

12. County

LEA

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK
TEMPORARILY ABANDON
PULL OR ALTER CASING
OTHER _____

PLUG AND ABANDON
COMMENCE DRILLING OPS.
CHANGE PLANS
CASING TEST AND CEMENT JOB
OTHER

ALTERING CASING
PLUG AND ABANDONMENT

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11-09-82: Set CIBP @ 3430'. Circ hole w/9.5# mud and spotted 100' cmt plug on top of BP.

11-10-82: Cut off 4-1/2" csg @ 1150'. Spotted 100' cmt plug 1200' to 1100'.

11-11-82: Spotted cmt plug 308' to 208. Set 50' cmt plug @ surface. Installed dry hole marker. Filled cellar and cleaned location. Well P&A.

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

Eddie Seay
ORIGINAL SIGNED BY EDDIE SEAY

OIL & GAS INSPECTOR

TITLE SUPERVISOR REG. & PERMITTING DATE JANUARY 17, 1983

DEC 8 1983

PROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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LAND OFFICE	1
OPERATOR	1

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

Se. Indicate Type of Lease	
State	<input type="checkbox"/>
Fee	<input checked="" type="checkbox"/>
S. State Oil & Gas Lease No.	

SUNDY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT REServoir.
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.

1. OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER <input type="checkbox"/>	INJECTOR	7. Unit Agreement Name
2. Name of Operator SHELL WESTERN E&P INC.				8. Field or Lease Name BLACK
3. Address of Operator P.O. BOX 576, HOUSTON, TEXAS 77001 (WCK 4435)				9. Well No. 7
4. Location of Well UNIT LETTER J FEET FROM THE SOUTH LINE AND 2660 FEET FROM				10. Field and Pool, or Whichever LANGLIE MATTIX
THE WEST LINE, SECTION 21 TOWNSHIP 24S RANGE 37E SLOPES				11. County LEA
15. Elevation (Sea level, M.F., R.T., G.P., etc.) 3225' GR				
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data.				
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>	
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>	
OTHER <input type="checkbox"/>				

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1003.

1-23-86: Tagged btm @ 3378'.

1-24-86: Set RBP @ 3346'. Located csg 1k btw 251' & 282'. Retrieved RBP.

1-25-86: Set a CIBP @ 3346' & capped w/35' cmt. Circ'd hole w/9.5# mud. Attempted csg 1k sqz w/150 sx Class "C" cmt w/2% CaCl₂. Circ'd 31 sx cmt out surface csg. WOC 24+ hrs.

1-27-86: Tagged TOC @ 209'. Drld out cmt to 276'. Tstd sqz, did not hold.

1-28-86: Re-attempted csg 1k sqz w/100 sx Thick-O-Tropic cmt + 500 gals flocheck + 2% CaCl₂. WOC 24 hrs.

1-29-86: Tagged TOC @ 196'. Drld out cmt to 283'. Pres tstd sqz to 480#, bled off to 380# in 15 min.

(CONTINUED ON REVERSE SIDE)

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

ISSUED A. J. Fore A. J. FORE TITLE SUPERVISOR REG. & PERMITTING DATE FEBRUARY 6, 1986

David H. Smith

TITLE OIL & GAS INSPECTOR

APR 1 - 1986

SHELL - BLACK LEASE
WELL NO. 1

SURFACE OWNER

Mr. J. J. Smith
c/o Sarah Rebecca Smith
Star Route #1
P. O. Box 150
Jal, NM 88252

OFFSET OPERATORS

Clyde Petroleum, Inc.
P. O. Box 1666
Breckenridge, TX 76024

Conoco Inc.
P. O. Box 460
Hobbs, NM 88240

Amerada Hess Corporation
Dr. D
Monument, NM 88265

Texaco USA
P. O. Box 728
Hobbs, NM 88240

Alpha Twenty-One Production Company
200 West Illinois, Ste. 200
Midland, TX 79701

El Paso Natural Gas Company
P. O. Box 1492
El Paso, TX 79978

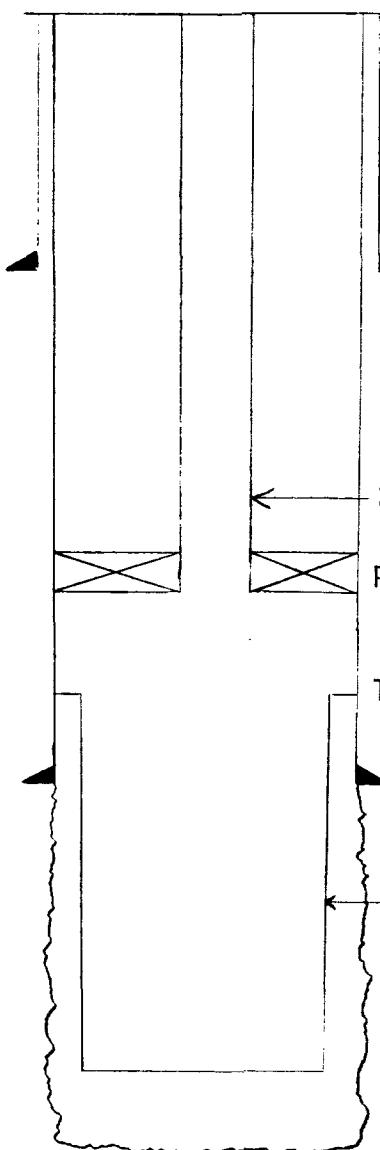
INJECTION WELL DATA SHEET

SHELL WESTERN E&P INC.
OPERATORBLACK
LEASE

1	1980' FSL & 1980' FEL	21	24-S	37-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

(NOT TO SCALE)

Tabular DataSurface CasingSize 12-1/2" Cemented with 150 sx.TOC SURFACE feet determined by CALCULATIONHole size 17-1/2"Intermediate CasingSize 12 1/2" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long stringSize 8-5/8" Cemented with 575 sx.TOC 286 3/8 feet determined by CALCULATIONHole size 11"Total depth 3627'Injection intervalTOL @ 3136' 3226 feet to 3627 feet
(perforated or open-hole, indicate which)

8-5/8" @ 3226'

5-1/2" UNCEMENTED SLOTTED LINER 3136' - 3557'

BOL @ 3557'

TD @ 3627'

Tubing size 2-3/8" lined with FIBERGLASS set in a (material)ARROW TYPE H TENSION (brand and model) packer at 3005 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation SEVEN RIVERS-QUEEN
2. Name of Field or Pool (if applicable) LANGLIE MATTIX SEVEN RIVERS QUEEN POOL
3. Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? PRODUCER
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. YATES @ 2730', 7 RIVERS @ 3070' & QUEEN @ 3427'

SHELL WESTERN E&P INC. - BLACK NO. 1
 AREA OF REVIEW
 SEC. 21, 22 & 28; T24S, R37E
 LEA COUNTY, NM

Well #	Lease Zone	Name/Operator	Well Status	Original Comp. Date	Footage	Location	Total Depth	Perfs	CASING		
									Surface Size & Depth	Cement	Production Size & Depth
<u>Langlie Jack Unit/Continental Oil</u>											
11.	Seven Rivers-Queen	Producer	01/13/1938	1980 FSL + 660 FWL	3,575	3,180-3,575(0H) 9 5/8"	@ 1170	300	7"	@ 3180	200
<u>JF Black/Texaco Inc.</u>											
1.	Seven Rivers-Queen	Producer	01/12/1937	1990 FNL + 1980 FEL	3495	3,365-3,495(0H)	12½"	@ 185	40		
				Section 21		10 3/4"	@ 770	set			
						8 5/8"	@ 1304	50			
3.	Seven Rivers-Queen	Producer	09/17/1938	660 FNL + 1980 FEL	3600	3,390-3,495(0H)	15½"	@ 130	set		
				Section 21		12½"	@ 192	50			
						10"	@ 820	set			
						8 5/8"	@ 1384	150			
4.	Seven Rivers-Queen	Producer	01/12/1939	1980 FNL + 1980 FWL	3565	3,352-3,565(0H)	15½"	@ 122	set		
				Section 21		12½"	@ 201	50			
						10¾"	@ 852	set			
						8 5/8"	@ 1368	100			
5.	Seven Rivers-Queen	Shut-In	09/24/1965	1980 FSL + 2030 FWL	3700	3,421-3,700(0H) 7"	@ 251	250	4½"	@ 3421	150
				Section 21							
6.	Seven Rivers-Queen	Injector	09/16/1965	2630 FNL + 1340 FWL	3696	3,457-3,658	7"	@ 251	250	2 7/8"	@ 3696
				Section 21							325
7.	Seven Rivers-Queen	TA'd	09/29/1965	1310 FNL + 2626 FWL	3635	3,397-3,555	7"	@ 250	250	2 7/8"	@ 3631
				Section 21							325

Well #	Lease Zone	Name/Operator	Well Status	Original Comp. Date	Footage Location	Total Depth	Perfs	CASING			Production Size & Depth	Cement
								Surface Size	Perf Depth	Size & Depth		
<u>Black/Shell</u>												
2Y.	Seven Rivers-Queen	Producer	10/26/1964	560 FSL + 1880 FEL	Section 21	3,653	3,428-3,620	8 5/8"	@ 273	250	5½"	@ 3651 175
3.	Seven Rivers-Queen	Producer	11/25/1937	330 FSL + 2310 FWL	Section 21	3,565	3,230-3,565(0H)	12½"	@ 145	Set	7" (0D)@3230	100
								10 3/4"	@ 859	Set	4½" liner @	
								8 5/8"(O.D.)@1470	450	Set	3133-3563	
5.	Seven Rivers-Queen	TA'd	11/06/1964	1300 FSL + 1340 FWL	Section 21	3,742	3,468-3,657	7 5/8"	@ 278	250	4½"	@ 3741 150
<u>Knight/Clyde Petroleum Inc.</u>												
1.	Seven Rivers-Queen	Producer	09/05/1936	1980 FSL + 660 FEL	Section 21	3,470	3,367-3,470	15½"	@ 100	set		
								12½"	@ 735	set		
								10"	@ 830	set		
								8½"	@ 1370	set		
2.	Seven Rivers-Queen	Producer	11/27/1936	1980 FSL + 660 FWL	Section 22	3,485	3,263-3,485(0H)	15¼"	@ 142	set		
								10 3/4"	@ 785	set		
								8¼"	@ 1377	150		
3.	Seven Rivers-Queen	Producer	01/04/1937	660 FSL + 660 FEL	Section 21	3,535	3,218-3,535(0H)	15½"	@ 140	set		
								10 3/4"	@ 821	set		
								8 5/8"	@ 1400	150		
5.	Seven Rivers-Queen	Injector	11/27/1963	1315 FSL + 5 FWL	Section 22	3,634	3,384-3,634(0H)	10 3/4"	@ 175	set	7"	@ 3218 150
6.	Seven Rivers-Queen	Injector	01/20/1964	1315 FSL + 1315 FEL	Section 21	3,640	3,387-3,640(0H)	8 5/8"	@ 796	420	4½"	@ 3387 100
7.	Seven Rivers-Queen	Injector	02/24/1964	2635 FSL + 1315 FEL	Section 21	3,620	3,363-3,620(0H)	8 5/8"	@ 817	420	4½"	@ 3,363 100

Well #	Lease Zone	Name/Operator	Well Status	Original Comp. Date	Footage Location	Total Depth	Perfs	Surface Size & Depth	CASING Production	
									Cement	Size & Depth
8.	Seven Rivers-Queen	Injector	Injector	01/02/1964	2635 FSL + 5 FWL Section 22	3,645	3,396-3,645(0H)	8 5/8"	420	4½"
12.	Seven Rivers-Queen	Injector	Injector	03/09/1964	5 FSL + 1315 FEL Section 21	3,660	3,386-3,660(0H)	8 5/8"	400	4½"
14.	Queen	Producer	Producer	08/29/1982	1315 FSL + 660 FEL Section 21	3,709	3,390-3,492	8 5/8"	500	5½"
<u>Jamison/Clyde Petroleum Inc.</u>										
1.	Seven Rivers-Queen	Producer	Producer	11/29/1936	2310 FNL + 990 FEL Section 21	3,494	3,060-3,494(0H)	15½"	@ 116	set
2.	Seven Rivers-Queen	Producer	Producer	03/16/1937	2310 FNL + 330 FWL Section 22	3,485	3,092-3,485(0H)	15½"	@ 130	set
3.	Seven Rivers-Queen	Producer	Producer	10/25/1937	990 FNL + 990 FEL Section 21	3,669	3,336-3,669(0H)	15½"	@ 130	set
5.	Seven Rivers-Queen	TAD	TAD	12/21/1964	1325 FNL + 1315 FEL Section 21	3,650	3,354-3,650(0H)	10 3/4" @ 236	set	6 5/8"
<u>Shell Black/El Paso Natural Gas Co.</u>										
2.	Yates-Seven Rivers	Producer	Producer	04/15/1937	660 FSL + 1980 FEL Section 21	3,484	2,898'-3,076'	15½"	@ 147	set
								10 3/4" @ 780	set	8 5/8" @ 1450
								300	300	6 5/8" @ 3219
										314

Well #	Lease Zone	Name/Operator	Well Status	Original Comp. Date	Footage Location	Total Depth	Perfs	CASING		
								Surface Size & Depth	Size & Depth	Cement
<u>E1 Paso Smith/Alpha 21 Prod. Co.</u>										
1.	Yates-Seven Rivers	Producer	03/30/1980	990 FSL + 1650 FWL Section 21	3,300	2,951-3,083	8 5/8"	@ 414	300	5½" @ 3300
										525
<u>Langlie Mattix Woolworth Unit/Amerada Hess Corp.</u>										
101.	Seven Rivers-Queen	TA'd	10/08/1937	330 FNL + 2310 FWL Section 28	3,601	3,238-3,601(0H)	12½"	@ 32	50	7" @ 3238
							9 5/8"	@ 1282	450	150
301.	Seven Rivers-Queen	Producer	07/13/1937	660 FNL + 1980 FEL Section 28	3,543	3,234-3,543(0H)	10"	@ 792	set	7" @ 3234
							8¼"	@ 1393	300	150

Plugging detail for P&A'd wells within the area of review is attached.



Shell Western E&P Inc.

A Subsidiary of Shell Oil Company

May 9, 1986

P.O. Box 576
Houston, TX 77001

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
ATTN David Catanach
P. O. Box 2088
Santa Fe, NM 87504-2088

Gentlemen:

SUBJECT: APPLICATION FOR AUTHORIZATION TO INJECT
SHELL WESTERN E&P INC. - BLACK NO. 1
LANGLIE MATTIX SEVEN RIVERS QUEEN POOL
UNIT LETTER J, 21-24S-37E
LEA COUNTY, NEW MEXICO

Attached is Shell Western's estimate of cement tops for wells in the one-half ($\frac{1}{2}$) mile radius area of review of Black No. 1. The top of cement for each well was calculated using the following assumptions:

Hole size: Largest bit size which could be run in existing
casing string (with obvious exceptions)
Type cement: Neat
Yield (cu ft/sack): 1.32
Fill-up efficiency: 50%.

The results tabulated on the attachment represent conservative estimates.

Shell Western has contacted Mr. Mike Oney (Alpha Twenty-One) and we have agreed to run the following surveys:

- 1) Cement Bond Log
- 2) Tracer Survey thirty (30) days after commencing injection
- 3) Tracer Survey one (1) year after commencing injection.

Based on our agreement, we understand Alpha Twenty-One will advise you, by letter, that it will withdraw its objection to issuance of an injection well permit for Shell Western's Black No. 1.

Should you have any questions concerning the top of cement data, please contact Joe Balbona at (713) 870-3977.

Yours very truly,

A handwritten signature in black ink, appearing to read "A. J. Fore".

A. J. Fore
Supervisor Regulatory and Permitting
Western Division

AJF/dmu

BNBG8612901

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

SHELL WESTERN E&P INC. - BLACK NO. 1
 AREA OF REVIEW
 SEC. 21, 22 & 28; T24S, R37E
 LEA COUNTY, NM

Well #	Lease Zone	Name/Operator	Well Status	Original Comp. Date	Footage Location	Total Depth	Perfs	CASING			Est. Surface String Production
								Surface Size & Depth	Size & Depth	Cnt	
<u>Langlie Jack Unit/Continental Oil</u>											
11.	Seven Rivers-Queen	Producer	01/13/38	1980 FNL/1980 FWL Section 21	3575	3180- 3575(0H)	9 5/8" @ 1170	300	7" @ 3180	200	Surface 2423'
1.	Seven Rivers-Queen	Producer	01/12/37	1990 FNL/1980 FEL	3495	3365- 3495(0H)	12½" 10 3/4" @ 770	40 set			108' FS 1174' FS 2355' FS
3.	Seven Rivers-Queen	Producer	09/17/38	660 FNL/1980 FEL Section 21	3600	3390- 3495(0H)	15½" 12½" 10"	@ 130 set	7" @ 3365	125	1174' FS 2355' FS
4.	Seven Rivers-Queen	Producer	01/12/39	1980 FNL/1980 FWL Section 21	3565	3352- 3565(0H)	15½" 12½" 10¼"	@ 122 set			95' FS 104' FS
5.	Seven Rivers-Queen	Shut-In	09/24/65	1980 FSL/2030 FWL Section 21	3700	3421- 3700(0H)	8 5/8" 8 5/8"	@ 192 50 set	7" @ 1368 100	125	782' FS 2342' FS
6.	Seven Rivers-Queen	Injector	09/16/65	2630 FNL/1340 FWL Section 21	3696	3457- 3658	7"	@ 251 250	4½" @ 3421	150	surface 2596' FS
7.	Seven Rivers-Queen	TA'd	09/29/65	1310 FNL/2626 FWL Section 21	3635	3397- 3555	7"	@ 250 250	2 7/8" @ 3631	325	surface 2474' FS

Well #	Lease Zone	Name/Operator	Well Status	Original Comp. Date	Footage Location	Total Depth	Perfs	Surface Size & Depth	CASING			Est. Surface String Production	
									Cnt	Size & Depth	Production Cnt		
<u>Black/Shell</u>													
2Y.	Seven Rivers-Queen	Producer	10/26/64	560 FSL/1880 FEL	3653 Section 21	3428-3620	8 5/8"	@ 273 250	5 1/2"	@ 3651	175	surface	2891' FS
3.	Seven Rivers-Queen	Producer	11/25/37	330 FSL/2310 FWL	3565 Section 21	3230-3565(0H)	12 1/2" 10 3/4" 8 5/8"(0.D.)	@ 145 Set @ 859 Set @1470 450	7" 4 1/2" liner @ 3133-3563	@3230	100	300' FS	2423' FS
5.	Seven Rivers-Queen	TA'd	11/06/64	1300 FSL/1340 FWL	3742 Section 21	3468-3657	7 5/8"	@ 278 250	4 1/2"	@ 3741	150	surface	3069' FS
<u>Knight/Clyde Petroleum Inc.</u>													
1.	Seven Rivers-Queen	Producer	09/05/36	1980 FSL/660 FEL	3470 Section 21	3367-3470	15 1/2" 12 1/2" 10" 8 1/2"	@ 100 set @ 735 set @ 830 set @ 1370 set	8 1/2"	@ 3367	150	-	2247' FS
2.	Seven Rivers-Queen	Producer	11/27/36	1980 FSL/660 FWL	3485 Section 22	3263-3485(0H)	15 1/4" 10 3/4" 8 1/4"	@ 142 set @ 785 set @ 1377 150	6 5/8"	@ 3263	100	842' FS	2515' FS
3.	Seven Rivers-Queen	Producer	01/04/37	660 FSL/660 FEL	3535 Section 21	3218-3535(0H)	15 1/2" 10 3/4" 8 5/8"	@ 140 set @ 821 set @ 1400 150	7"	@ 3218	150	691' FS	2008' FS
5.	Seven Rivers-Queen	Injector	11/27/63	1315 FSL/5 FWL	3634 Section 22	3384-3634(0H)	10 3/4"	@ 175 set	4 1/2"	@ 3384	75	-	3048' FS
6.	Seven Rivers-Queen	Injector	01/20/64	1315 FSL/1315 FEL	3640 Section 21	3387-3640(0H)	8 5/8"	@ 796 420	4 1/2"	@ 3387	100	surface	1597' FS
7.	Seven Rivers-Queen	Injector	02/24/64	2635 FSL/1315 FEL	3630 Section 21	3363-3620(0H)	8 5/8"	@ 817 420	4 1/2"	@ 3363	100	surface	1573' FS

Well #	Lease Zone	Name/Operator	Well Status	Original Comp. Date	Footage Location	Total Depth	Perfs	Surface Size & Depth	Production			Casing String	Surface Production	Est. TOC
									Cmt	Size & Depth	Cnt			
8.	Seven Rivers-Queen	Injector	01/02/64	2635 FSL/5 FWL Section 22	3645	3396- 3645(0H)	8	5/8" @ 808	420	4½"	@ 3396	100	surface	1606' FS
12.	Seven Rivers-Queen	Injector	03/09/64	5 FSL/1315 FEL Section 21	3660	3386- 3660(0H)	8	5/8" @ 833	400	4½"	@ 3386	100	surface	1596' FS
14.	Queen	Producer	08/29/82	1315 FSL/660 FEL Section 21	3709	3390- 3492	8	5/8" @ 834	500	5½"	@ 3707	280	surface	2492' FS
<u>Jamison/Clyde Petroleum Inc.</u>														
1.	Seven Rivers-Queen	Producer	11/29/36	2310 FNL/990 FEL Section 21	3494	3060- 3494(0H)	15½"	@ 116	set				surface	650' FS
2.	Seven Rivers-Queen	Producer	03/16/37	2310 FNL/330 FWL Section 22	3485	3092- 3485(0H)	15½"	@ 130	set				surface	
3.	Seven Rivers-Queen	Producer	10/25/37	990 FNL/990 FEL Section 21	3669	3336- 3669(0H)	15½"	@ 166	set				surface	
5.	Seven Rivers-Queen	TA'd	12/21/64	1325 FNL/1315 FEL Section 21	3650	3354- 3650(0H)	10 3/4" @ 236	set	4½"	@ 3354	100	surface	1564' FS	
<u>Shell Black/E1 Paso Natural Gas Co.</u>														
2.	Yates-Seven Rivers	Producer	04/15/37	660 FSL/1980 FEL Section 21	3484	2898- 3076	15½"	@ 147	set					
						10 3/4" @ 780								
						8 5/8" @ 1450	300	6 5/8" @ 3219	314	33' FS	869' FS			

Well #	Lease Zone	Name/Operator	Well Status	Original Comp. Date	Footage Location	Total Depth	Perfs	Surface Size & Depth	Production Size & Depth	CASING		Est. Surface String	TOC Production
										Cnt	Cmt		
<u>E1 Paso Smith/Alpha 21 Prod. Co.</u>													
1.	Yates-Seven Rivers	Producer	03/30/80	990 FSL/1650 FWL	Section 21	3300	2951-3083	8 5/8"	@ 414	300	5½"	@ 3300	525 surface
<u>Langlie Mattix Woolworth Unit/Amerada Hess Corp.</u>													
101.	Seven Rivers-Queen	TA'd	10/08/37	330 FNL/2310 FWL	Section 28	3601	3238-3601(0H)	12½"	@ 32	50	7"	@ 3238	150 surface
301.	Seven Rivers-Queen	Producer	07/13/37	660 FNL/1980 FEL	Section 28	3543	3234-3543(0H)	10"	@ 792	set	7"	@ 3234	150 surface
Plugging detail for P&A'd wells within the area of review is attached.													



ALPHA TWENTY-ONE PRODUCTION COMPANY

POST OFFICE BOX 1206
JAL, NEW MEXICO 88252

505/395-3056

April 25, 1986

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501
ATTN: Mr. Richard Stamets

RE: Expansion of Waterflood Project
Shell Black Lease
Langlie Mattix Seven Rivers Queen Pool
Unit Letter J, 1980' FSL & 1980' FEL
Black Well No. 1
Section 21, T-24-S, R-37-E
Lea County, New Mexico

Mr. Stamets:

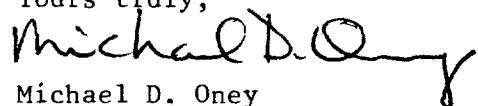
Alpha Twenty-One Production Company respectfully protests and requests a hearing with notification of hearing regarding the Shell Western E & P Incorporated's (SWEPI) Application for Authorization to Inject Fluid into the above referenced well.

Alpha Twenty-One is concerned with the age of this well, approximately fifty years old, and the fact that it has been temporarily abandoned for several years, in regards to the deterioration of the casing and cement in the referenced well. Another concern is the difference between the top of the injection zone (3226') and the bottom perforation (3083') in the producing zone of our El Paso Smith No. 1 well which is within the area of review of SWEPI's application. This mere difference of 143' is worth considering on the long range effects of the injection of produced water on casing, cement and formation.

Alpha Twenty-One proposes stipulations be set in the advent this application is approved. Stipulations are as follows:

1. Bond log be run to determine the top of the cement and bonding quality.
2. Injection profile be run after a pre-determined time interval to insure injected water is going into the proposed injection zone.

We greatly appreciate your kind and considerate cooperation regarding this matter. If further assistance is needed, please contact me.

Yours truly,

Michael D. Oney
Drilling Superintendent

MDO

cc: Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Alpha Twenty-One Production Company
200 W. Illinois, Suite 200
Midland, Texas 79701

Shell Western E & P Inc.
P.O. Box 576
Houston, Texas 77001



CLYDE PETROLEUM, INC.

Box 1666 -- 1826 W. Walker
Breckenridge, Texas 76024

817/559-6521

April 24, 1986

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

Re: Shell Western E&P Inc.
Expansion of Waterflood Project
Shell-Black Lease
Langlie Mattix Seven Rivers Queen
Unit Letter J, 1980' FSL&1980' FEL
Well No. 1
Sec. 21, T-24S, R37E, NMPM
Lea County, New Mexico

Gentlemen,

Clyde Petroleum, Inc., as offset operator to the above proposed project, acknowledge and support the application of SWEPI.

If you should desire any additional information, please do not hesitate to contact me.

Sincerely,
CLYDE PETROLEUM, INC.

A handwritten signature in black ink, appearing to read "Bob D. Griffin".
Bob D. Griffin
General Manager, U.S. Operations

cc: A.J. Fore
Shell Western E&P Inc.
P.O. Box 576
Houston, TX 77001

Energy & Minerals Dept.
P.O. Box 1980
Hobbs, New Mexico 88240



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

TONEY ANAYA
GOVERNOR

April 21, 1986

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC

DHC

NSL

NSP

SWD

WFX

XX

S60

PMX

Gentlemen:

I have examined the application for the:

Shell Western E&P Inc.	Block #1-J-	21-24-37	
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK -- Jerry

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/mc