



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

4-7-89

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 1000
HOBBS, NEW MEXICO 88241-1000
(505) 393-6161

WFX-580

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

RE: Proposed:

MC	_____
DHC	_____
NSL	_____
NSP	_____
SWD	_____
WFX	<input checked="" type="checkbox"/>
PMX	_____

Gentlemen:

I have examined the application for the:

Armstrong Energy Corp. West Pearl Queen #169-N 2819-35
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK JS

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/ed

NEW MEXICO RECORD RESEARCH

(505) 392-3319 P.O. BOX 1437
HOBBS, N.M. 88241-1437

April 2, 1989

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

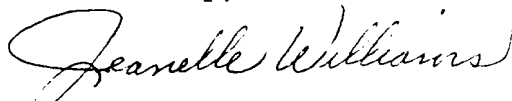
Oil Conservation Division
District 1
P.O. Box 1980
Hobbs, New Mexico 88240

Gentlemen:

Attached is Form C-108 "Application for Authorization to Inject" with all required attachments. Armstrong Energy Corporation is requesting permission to convert West Pearl Queen Unit #169 to an injection well.

If you have any questions, or need additional information, please call me at (505) 392-3319.

Sincerely,


Jeanelle Williams

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APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Armstrong Energy Corporation
Address: P.O. Box 1973, Roswell, NM 88201
Contact party: Jeanelle Williams Phone: (505) 392-3319
- 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-2729.
- 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: Jeanelle Williams Title Agent
Signature: Jeanelle Williams Date: 3/28/89
- * 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.

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED		
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FILE		
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRORATION OFFICE		

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

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator Armstrong Energy Corporation

Address P.O. Box 1973 Roswell, NM 88201

Reason(s) for filing (Check proper box) Other (Please explain)

<input type="checkbox"/> New Well	Change in Transporter of:	
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas
<input checked="" type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	<input type="checkbox"/> Condensate

Name Change effective 5/1/87

If change of ownership give name and address of previous owner Chevron U.S.A. Inc., P.O. Box 670, Hobbs, NM 88240

I. DESCRIPTION OF WELL AND LEASE

Lease Name <u>West Pearl Queen Unit</u>	Well No. <u>169</u>	Pool Name, including Formation <u>Pearl (Queen)</u>	Kind of Lease State, Federal or Fee <u>State</u>	Lease No. <u>E-8183</u> <u>E-8184</u>
Location				
Unit Letter <u>N</u> : <u>1305</u> Feet From The <u>South</u> Line and <u>2565</u> Feet From The <u>West</u>				
Line of Section <u>28</u> Township <u>19S</u> Range <u>35E</u> , NMPM, <u>Lea</u> County				

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

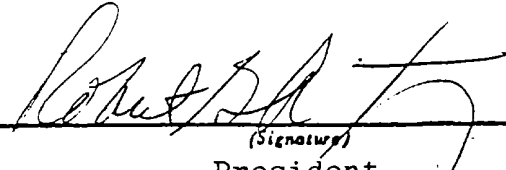
Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> <u>Shell Pipeline Corporation</u>	Address (Give address to which approved copy of this form is to be sent) <u>P.O. Box 1910, Midland, Texas 79702</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	<u>B 32 19 35</u>

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

I. CERTIFICATE OF COMPLIANCE

hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.


(Signature)
President
(Title)
May 1, 1987
(Date)

OIL CONSERVATION DIVISION

APPROVED MAY 11 1987, 19____
BY ORIGINAL SIGNED BY JERRY SEXTON
TITLE DISTRICT I SUPERVISOR

This form is to be filled in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

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

Form C-103
Revised 12-1-79

RECEIVED	
DISTRIBUTION	
DATE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. E-8183 & E-8184	
7. Unit Agreement Name West Pearl Queen Unit	
8. Farm or Lease Name	
9. Well No. 169	
10. Field and Pool, or Wildcat Pearl Queen	
12. County Lea	

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO OPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT - 1" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>
2. Name of Operator Gulf Oil Corporation
3. Address of Operator P. O. Box 670, Hobbs, NM 88240
4. Location of Well UNIT LETTER <u>N</u> <u>1305</u> FEET FROM THE <u>South</u> LINE AND <u>2565</u> FEET FROM THE <u>West</u> LINE, SECTION <u>28</u> TOWNSHIP <u>19S</u> RANGE <u>35E</u> N.M.P.M.
15. Elevation (Show whether DF, RT, GR, etc.) 3707' GL

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 OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <u>Add Perfs In Queen</u> <input checked="" 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 1103.

POH with production equipment. Perf 4846-50' with (2) 1/2" JHPF. Break down perfs with 8.6# GKF at 400# at 1.5 BPM. Spot 1000 gals 15% NE double inhibited acid. ISIP 1900#, AIR 3 BPM. Swab and test. GIH with tubing, MA, perf nipple, SN; tubing at 4958'. Ran pump and rods, hung on. Complete after adding 1 zone of perforation 9-16-82.

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

SIGNED Tamara A. Luvial TITLE Area Engineer DATE 9-30-82
APPROVED BY Edwin W. L... TITLE OIL & GAS INSPECTOR DATE OCT 5 1982
CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG5a. Indicate Type of Lease
State ☒ Free ☐

5. State Oil & Gas Lease No.

E-8183 & 8184

7. Unit Agreement Name

West Pearl Queen Unit

8. Farm or Lease Name

9. Well No.

169

10. Field and Pool, or Wildcat

Pearl Queen

12. County

Lea

a. TYPE OF WELL

OIL WELL ☒GAS WELL ☐DRY ☐OTHER ☐

b. TYPE OF COMPLETION

NEW WELL ☒WORK OVER ☐DEEPEN ☐PLUG BACK ☐DIFF. RESVR. ☐OTHER ☐

c. Name of Operator

Gulf Oil Corporation

d. Address of Operator

Box 670, Hobbs, N.M. 88240

e. Location of Well

NIT LETTER N LOCATED 1305 FEET FROM THE South LINE AND 2565 FEET FROM

NE West LINE OF SEC. 28 TWP. 19-S RGE. 35-E N.M.P.M.

5. Date Spudded 2-15-77 16. Date T.D. Reached 3-2-77 17. Date Compl. (Ready to Prod.) 3-27-77 18. Elevations (DF, RAB, RT, GK, etc.) 3707' G L 19. Elev. Casinghead --

20. Total Depth 5000' 21. Plug Back T.D. 5000' 22. If Multiple Compl., How Many Single 23. Intervals Drilled By Rotary Tools 0 to 5000 Cable Tools --

24. Producing Interval(s), of this completion - Top, Bottom, Name

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

Gamma Ray-Comp. Neutron-Comp. Density-Dual Laterolog-Sonic

27. Was Well Cored

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1800'	12 1/4"	600 sacks-circulated	
5 1/2"	15.50#	5000' *	7 7/8"	1800 sacks-circulated	
		* DV tool at 3192'			

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	4959'	

30. TUBING RECORD

31. Perforation Record (Interval, size and number)

Perforated 5 1/2" casing with 2--.45" JHFP at 4721-27, 4910-13 and 4922-26.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4721-27	1000 gallons 15% NEA acid and frac with 15,000 gallons gel water containing 1/2 to 2" SPG.
4910-13, 4922-26	1000 gallons 15% NEA acid and*

33. * frac with 18,000 PRODUCTION gallons gel water containing 1/2 to 2" SPG

Date First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)

Well Status (Prod. or Shut-in)

3-27-77

Pump

Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
4-24-77	24	2"		99	--	130	--
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
--	--		99	--	130	35.1	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented--Waiting on flow line connection

Test Witnessed By

R. M. Magee

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED

D.F. Berlin

TITLE Area Engineer

DATE

4-25-77

INSTRUCTIONS

Form C-101

to be filled with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled well. It shall be accompanied by one copy of all electrical and radio-activity run on the well and a summary of all special tests including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filled in quintuplicate except on land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____ 1740	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____ 1866	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____ 3220	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ 3484	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____ 4010	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____ 4719	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ 4910 _____ to _____ 4926 _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet _____
 No. 2, from _____ to _____ feet _____
 No. 3, from _____ to _____ feet _____
 No. 4, from _____ to _____ feet _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1740		Red Beds				
1740	3484		Salt & Anhydrite				
3484	5000		Dolomite, Sandstone and Shale.				

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F. B. I.

INJECTION WELL DATA SHEET

Armstrong Energy Corporation West Pearl Queen Unit
 OPERATOR LEASE
#169 1305' FSL & 2565' FWL 28 19-S 35-E
 WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE
Lea County, New Mexico

Schematic



8-5/8" @ 1800'
cement circulated
600 sx

DV tool @ 3192'

5 1/2" @ 5000' 1800 sx
cement circulated

Tabular Data

Surface Casing

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

TOC surface feet determined by circulation

Hole size 12 1/4"

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5 1/2" " Cemented with 1800 sx.

TOC _____ feet determined by _____

Hole size 7-7/8"

Total depth 5000'

Injection interval

4721 feet to 4926 feet Perforated
(perforated or open-hole, indicate which)

Tubing size 2-7/8" lined with 2-1/6 IJ plastic coated set in a
(material)

5 1/2" Baker AD-1 Tension packer at 4650' 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) Pearl Queen West

3. Is this a new well drilled for injection? ☐ Yes ☒ No

If no, for what purpose was the well originally drilled? As an oil 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. No known overlying zones. San Andres 5630' to 5920'.

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DATA ON THE PROPOSED OPERATION

Proposed Injection Volume: Average - 400 Bbl/Day
Maximum - 500 Bbl/Day

Proposed Injection Pressure: Average 1700# surface pressure.
Maximum 2150# surface pressure.

Injection system is closed.

Sources of injection fluid are produced saltwater and freshwater. The appropriate chemical analysis is included.

Injection is into a zone productive of oil and/or gas.

No stimulation program is proposed on the well to be converted.

GEOLOGICAL DATA ON THE INJECTION ZONE

Lithologic Detail: Dolomite, sandstone and shale.

Geological Name: Queen

Thickness: 3484' to 5000'.

Average Depth:

Underground source of drinking water overlying the injection zoned in the proposed area is the Ogallala at an average depth of 50'.

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HOBBS OFFICE

Armstrong
ENERGY CORPORATION

1000 SUNWEST CENTRE

P. O. Box 1973
ROSWELL, NEW MEXICO 88201
505/623-8726

February 7, 1989

Ref: Application for conversion
of the WPQU #169 from producing
oil well to water injection well,
NMOCD Form C-108 Section XII.

I hereby state that I have evaluated information derived from logs, well files and other available geologic and engineering data, concerning this wellbore and other wellbores in the area of interest. I have found no evidence of open faults or any other hydrologic connection between the water injection zones in the Queen formation and any underground source of drinking water.

ARMSTRONG ENERGY CORPORATION

Thomas K. Scroggin

Thomas K. Scroggin
Production Supervisor

STATE OF NEW MEXICO)
) ss.
COUNTY OF EDDY)

The foregoing instrument was acknowledged before me this
7th day of February, 1989, by Thomas K.
Scroggin.

Sabra R. Fletcher
Notary Public

My Commission Expires:

Oct. 31, 1992

[illegible]

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TABULATION OF DATA ON WELLS
WITHIN AREA OF REVIEW

Armstrong Energy Corporation

West Pearl Queen Unit-Injection well #108

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 326' w/300sx.
4 1/2" to 4961' w/350 sx. cement
Perforations: 4884-4895', 4815-4845', 4700-4710' (Pearl Queen)
TD: 4975'

West Pearl Queen Unit-Well #121

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 306' w/300sx. cement
5 1/2" to 4908' w/200 sx. cement
Perforation: 4718-4726, Open hole 4908-4924
TD: 4921'

West Pearl Queen Unit-Injection well #122

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 314' w/300 sx. cement
5 1/2" to 4931' w/200 sx. cement
Perforations: 4826-4836', 4886-4888', 4897-4899',
4906-4908' (Pearl Queen)
TD: 4945'

West Pearl Queen Unit-Injection well #120

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 316' w/300 sx. cement
5 1/2" to 4904' w/350 sx. cement
Perforations: Open hole 4915-4946' (Pearl Queen)
TD: 4946'

West Pearl Queen Unit-Well #109

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 326' w/300 sx. cement
4 1/2" to 5002' w/350 sx. cement
Perforations: 4734-4754' (Pearl Queen)
TD: 5020'

West Pearl Queen Unit-Well #124

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 301' w/300 sx. cement
5 1/2" to 4911' w/200 sx. cement
Perforations: 4911-4939', 4853-4863', 4854-4864',
4730-4736' Open hole 4911-4939' (Pearl Queen)
TD: 4939'

West Pearl Queen Unit-Injection well #125

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 302' w/300 sx. cement
5 1/2" to 4919' w/200 sx. cement
Perforations: Open hole 4919-4949'
TD: 4949' Well is TA'd.

West Pearl Queen Unit-Well #126

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 326' w/300 sx. cement
5 1/2" to 4930' w/300 sx. cement
Perforations: 4728-4738', 4865-4876', 4864-4875'
Open hole 4930-4957 (Pearl Queen)
TD: 4957'

West Pearl Queen Unit-Injection well #140

Location: Sec. 33, T-19S, R-35E
Casing: 8-5/8" to 333' w/300 sx. cement
4 1/2" to 4956' w/1800 sx. cement
Perforations: 4773-4785', 4920-4926' (Pearl Queen)
TD: 5010' PBTD: 4954'

West Pearl Queen Unit-Injection well #142

Location: Sec. 33, T-19S, R-35E
Casing: 8-5/8" to 314' w/300 sx. cement
4 1/2" to 4921' w/1850 sx. cement
Perforations: 4737-4741', 4881-4885' Open hole 4933-
4981' (Pearl Queen)
TD: 4981' PBTD: 4900'

West Pearl Queen Unit-Well #143

Location: Sec. 33, T-19S, R-35E
Casing: 8-5/8" to 291' w/300 sx. cement
4 1/2" to 4894' w/2800 sx. cement
Perforations: 4735-4870' Open hole 4905-4960'
TD: 4960'

Petrus Oil Company, L.P.

East Pearl Queen Unit-Well #34

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 100' w/100 sx. cement
5 1/2" to 5057' w/200 sx. cement
Perforations: 4711-4716', 4830-4833', 4884-4888',
4896-4899', 4917-4919'
TD: 5075' PBTD: 5033'

East Pearl Queen Unit-Injection well #24

Location: Sec. 28, T-19S, R-35E
Casing: 8-5/8" to 159' w/150 sx. cement
5 1/2" to 4947' w/200 sx. cement
Perforations: 4691-4703', 4804-4806', 4808-4810'
4856-4859', 4868-4870', 4887-4889'
(Pearl Queen)
TD: 4960' Well is TA'd.

East Pearl Queen Unit-Well #23

Location: Sec. 28, T-19S, R-35E
Casing: 9-5/7 to 132' w/150 sx. cement
7-7/8", 7-5/8" & 5 1/2" to 4955' w/200 sx. cement
Perforations: 4698-4704', 4810-4816', 4878-4881',
4887-4889', 4896-4899' (Pearl Queen)
TD: 4955' PBD: 4929'

Gulf Oil Corporation
West Pearl Queen Unit #123
Lea County, NM
990' FSL & 660' FEL
Sec. 28, T-18S, R-35E

Casing: 8-5/8" to 378' w/250 sx.
5 1/2" to 5019' w/400 sx.
TOC 2940'
Tubing: 2-7/7" to 4971'

Spud: 1/12/59
Plugged: 2/24/81

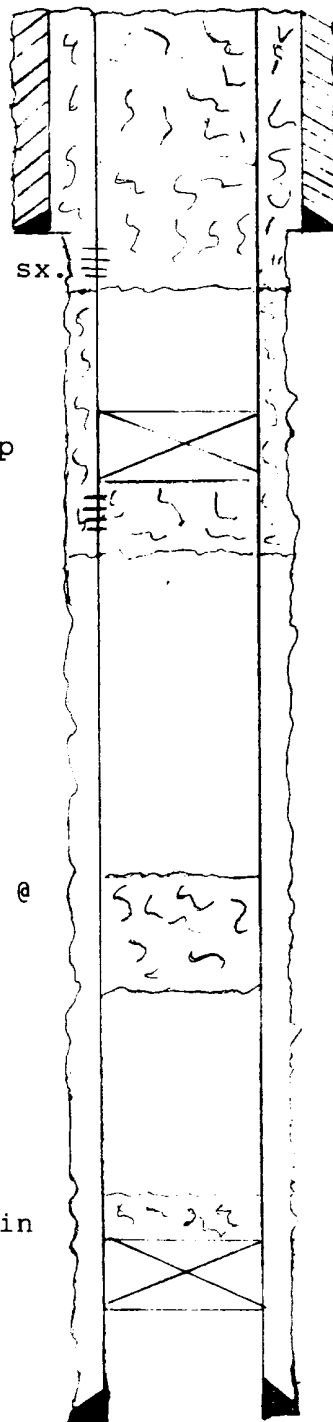
Perf 320'
squeezed w/100 sx.

TOC @ 1040'
Perf 1825' Pump
350 sx. Set CR
1767'.

Spot 100' plug @
3910-3810'.

Spot 35' plug in
CIBP @ 4675'.

TD 4932'



Gulf Oil Corporation
West Pearl Queen Unit #166
Lea County, NM
105' FSL & 1325' FEL
Sec. 28, T-19S, R-35E

Casing: 8-5/8" to 378' w/250 sx.
5 1/2" to 5019' w/400 sx.
TOC 2940'
Tubing: 2-7/8" to 4971

Spud: 10/10/69
Plugged: 2/23/81

Perf 381' w/125
sx circ to
surface.

TOC 1809'
Set CR @ 1822'

Perf 1875' w/525
sx. Set CR @ 2102'

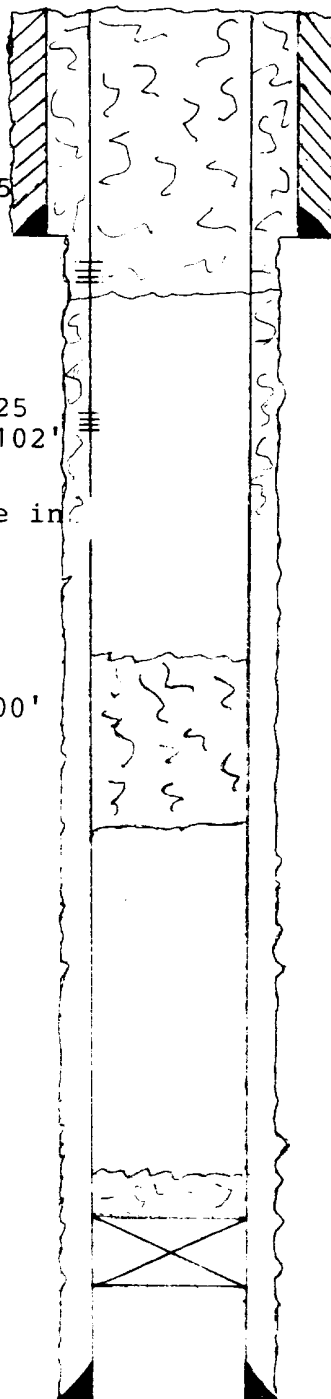
35 sx into hole in
csg. @ 2171'

100' plug @ 2900'
3000'

35' cement

CIBP @ 4615'

PBTD: 4987'
TD: 5020'



Gulf Oil Corporation
West Pearl Queen Unit #163
Lea County, NM
5' FNL & 1315' FWL
Sec. 33, T-19S, R-35E

Casing: 8-5/8" to 382' w/200 sx
5 1/2" to 5019' w/350 sx
TOC 3125'
Tubing: 2-7/8" to 4960'

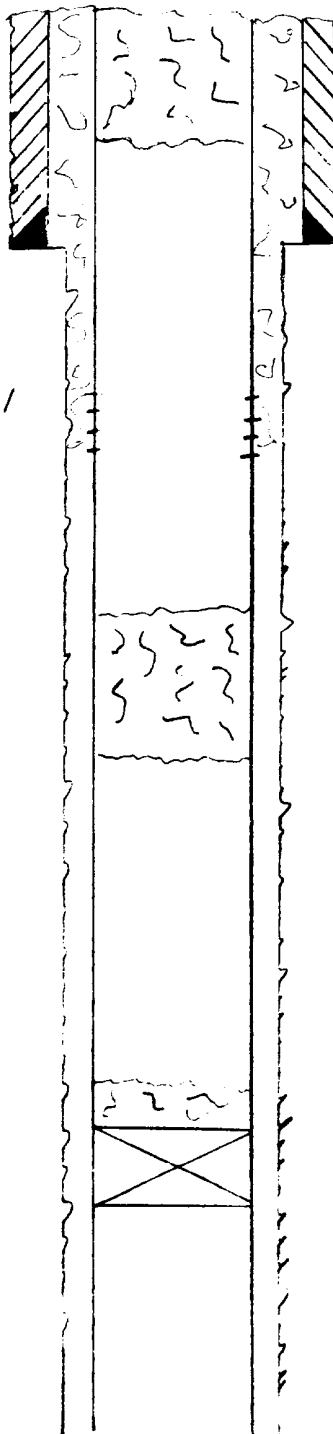
Spud: 12/9/68
Plugged: 2/12/81

50' surface
plug

CR @ 1769'
Perf @ 1840' w/
480 sx

100' cement @
3175-3075'

35' cement
CIBP @ 4480'



Gulf Oil Corporation
West Pearl Queen Unit #141
Lea County, NM
660' FNL & 1980' FWL
Sec. 33, T-19S, R-35E

Casing: 8-5/8" to 608' w/400 sx
4 1/2" to 4950' w/1790 sx

Spud: 11/6/58
Plugged: 8/3/83

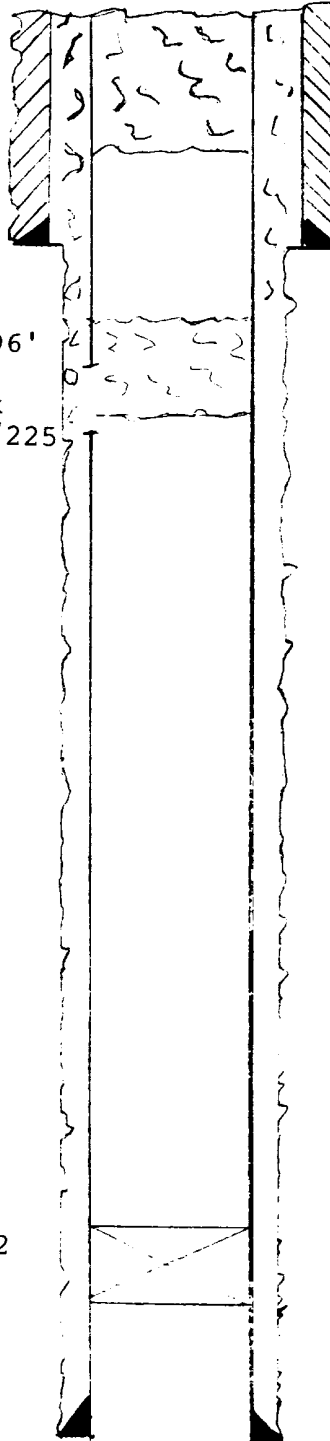
100' surface
plug

Cement plug 796'
to 470'
Sqz'd csg leak
@ 689'-470' w/225
sx.

Please see attached C-103's for
more information.

RBP @ 4700' w/2
sx sand on top

TD 4996'



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OPERATOR	

P & A

3a. Indicate Type of Lease

State ☒ For ☐

5. State Oil & Gas Lease No.

E-5841

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL ☐ GAS ☐ OTHER ☐

2. Name of Operator

Mull Oil Corporation Chevron USA

3. Address of Operator

P.O. Box 670, Hobbs, NM 88240

4. Location of Well

UNIT LETTER C 660 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE, SECTION 33 TOWNSHIP 19S RANGE 35E NMPM.

7. Unit Agreement Name

W. Pearl Queen Unit

8. Farm or Lease Name

9. Well No.

141

10. Field and Pool, or Wildcat

Pearl Queen

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

3714' GL

12. County

Lea

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

TEMPORARILY ABANDON ☐

PULL OR ALTER CASING ☐

OTHER ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING TEST AND CEMENT JOBS ☐

OTHER ☐

ALTERING CASING ☐

PLUG AND ABANDONMENT ☒

OTHER ☐

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.

POH of the. Attempts to enter CSG unsuccessful. Circ hole w/ abandonner
mud. Spot Cmt. plug 796'-470'. Spot surf plug @ 100'. Operations
witnessed by OGD Representative. Install dry hole marker. Clean
Clear location. Well P & A 7-26-83.

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

SIGNED R.D. Prite

TITLE AREA ENGINEER

DATE 8-3-83

APPROVED BY R. M. Miller

TITLE OUT-GAS INSPECTOR

DATE JUN 30 1983

CONDITIONS OF APPROVAL, IF ANY:

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

Form C-103
Revised 10-1-78

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LAND OFFICE		
OPERATOR		

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	For <input type="checkbox"/>
5. State Oil & Gas Lease No.	
E-5841	
7. Unit Agreement Name	
West Pearl Queen Unit	
8. Farm or Lease Name	
9. Well No.	
141	
10. Field and Pool, or Wildcat	
Pearl Queen	
12. County	
Lea	

SUNDRY 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 <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER-
Name of Operator		
Gulf Oil Corporation		
Address of Operator		
P. O. Box 670, Hobbs, NM 88240		
Location of Well		
UNIT LETTER <u>C</u> <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM		
THE <u>West</u> LINE, SECTION <u>33</u> TOWNSHIP <u>19S</u> RANGE <u>35E</u> NMPM.		

15. Elevation (Show whether DF, RT, GR, etc.)
3714' GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Repair Casing Leak - Unsuccessful</u> <input checked="" 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 1103.

POH with production equipment. Set RBP at 4700'. Attempt to load hole, would not load. Set RTTS at 4649', test RBP 500#, ok. Set RTTS at 4030', 3410', 2790', 2170', 1550', 1488', 930', 870', 806', 837', 775', 744', 713', 689', 704'. Found holes 689'-837'. Spot 2 sacks sand on RBP. Set cement retainer at 652', pressure casing 400#. Establish injection rate through leak. Squeeze with 225 sacks Class "C" with CaCl₂. Reverse cement. WOC 21½ hours. Drill cement retainer and cement. Casing parted. LD rods and tubing. Casing repair unsuccessful. Well will be P&A.

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

SIGNED R.D. Pite TITLE Area Engineer DATE 4-26-83

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT 1 SUPERVISOR

APPROVED BY _____ TITLE _____ DATE APR 28 1983

CONDITIONS OF APPROVAL, IF ANY:

Per B-1-83

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NEW MEXICO OIL CONSERVATION COMMISSION

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

<p align="center">SUNDRY 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.)</p>		<p>5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Free <input type="checkbox"/></p>
<p>1. Name of Operator Gulf Oil Corporation</p>		<p>5. State Oil & Gas Lease No. E-5841</p>
<p>2. Address of Operator Box 670, Hobbs, New Mexico</p>		<p>7. Unit Agreement Name West Pearl Queen Unit</p>
<p>3. Location of Well UNIT LITTED C 660 FEET FROM THE North LINE AND 1980 FEET FROM TOWNSHIP 33 LINE, SECTION 19-S RANGE 35-E NMPM.</p>		<p>8. Form or Lease Name</p>
<p>15. Elevation (Show whether DF, RT, CR, etc.) 3734 GL</p>		<p>9. Well No. 33-3</p>
<p>12. County Lea</p>		<p>10. Field and Pool, or Wildcat Pearl Queen</p>

<p align="center">Check Appropriate Box To Indicate Nature of Notice, Report or Other Data</p>		<p align="center">SUBSEQUENT REPORT OF:</p>	
<p>NOTICE OF INTENTION TO:</p>	<p>PERFORM REMEDIAL WORK <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>	<p>PLUS AND ABANDON <input type="checkbox"/></p> <p>CHANGE PLANS <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>	<p>REMEDIAL WORK <input checked="" type="checkbox"/></p> <p>COMMENCE DRILLING OPS. <input type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>
<p>ALTERING CASING <input type="checkbox"/></p> <p>PLUS AND ABANDONMENT <input type="checkbox"/></p>		<p>Drilled deeper, acidized & frac treated.</p>	

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

4996' TD.

Drilled deeper with 3-7/8" bit to 4996'. Spotted 250 gallons of 15% NE acid on bottom. Frac treated with 5500 gallons of gelled water containing 1/2 to 1# SPG. Finished with 20 barrels of water. Treating pressure 2300 to 2800#. ISIP 800#, after 5 min 600#. AIR 8.1 bpm. Ran tubing rods and pump and returned well to production.

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

SIGNED G. D. BURLING TITLE Area Production Manager DATE April 6, 1965

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, George W. Moore

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 a supplement thereof for a period

of _____

One weeks.
Beginning with the issue dated

February 6, 19 89
and ending with the issue dated

February 6, 19 89

George W. Moore
Publisher.

Sworn and subscribed to before

me this 8 day of

February, 19 89

W. H. Murphy
Notary Public.

My Commission expires _____

November 14, 19 92
(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 made.

LEGAL NOTICE

February 6, 1989

**NOTICE OF
APPLICATION
FOR FLUID
INJECTION
WELL PERMIT**

Armstrong Energy Corporation, P.O. Box 1973, Roswell New Mexico 88201 has applied to the New Mexico Oil Conservation Commission for a permit to inject fluid into a formation which is productive of oil or gas.

The applicant proposes to inject fluid into the Queen formation, West Pearl Queen Unit Well No. 169, Section 28, T-19S, R-35E. This well will be an expansion of an existing waterflood and will inject a maximum of 500 barrels of water per day at an approximate injection pressure of 1700#.

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.

Contact party for the applicant is Jeanelle Williams, Agent, (505) 392-3319.

Published in the Hobbs News-Sun February 6, 1989.

WEST PEARL QUEEN UNIT #169

Surface Owner

Alta Faye Klein
P.O. Box 1503
Hobbs, New Mexico 88241

Offset Owner

Petrus Oil Company, L.P.
12201 Merit Drive, Suite 900
Dallas, Texas 75251-2293