DATE IN 4.27.12	SUSPENSE	ENGINEER TW	LOGGED IN 4.27.12	TYPE PMX	APP NO 1211850572

PTGW

ABOVE THIS LINE FOR DIVISION USE ONLY

-263

SM Energy Co 15490 3

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505

RECEIVED OCD

1289

Pure Gold Pearsall Unit #519

ADMINISTRATIVE APPLICATION CHECKLIST

30-015-39878

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

" #520

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

30-015-39879

" #521

30-015 39880

Fed (Eddy

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

K-35-19S-29E

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ■ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

" "

[D] Other: Specify _____

F- " " "

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

F- "

[B] ■ Offset Operators, Leaseholders or Surface Owner

R-9821
R-9822

[C] ■ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ■ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

1275 PSI as per 2003 IPI

IPI-205

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Ann Ritchie		Regulatory Agent	4-18-12
Print or Type Name	Signature	Title	Date

ann.wtor@gmail.com
E-Mail Address

Affidavit of Publication

NO. 22124

STATE OF NEW MEXICO

County of Eddy:

Danny Scott

being duly sworn, says that he is the **Publisher**

of the Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/days on the same day as follows:

First Publication April 25, 2012

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Subscribed and sworn to before me this

25th day of April 2012

OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/12/2015

Latisha Romine

Latisha Romine
Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

SM Energy Company c/o P.O. Box 953, Midland, Texas 79702, has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to convert the following-described wells to water injection wells within the Parkway Delaware Unit Pressure Maintenance Project, Parkway-Delaware Pool, Eddy County, New Mexico:

Parkway Delaware Unit No. 519: (API No. 30-015-39878) 1980' FSL & 1380' FWL (Unit K) Section 35, Township 19 South, Range 29 East. Injection Interval: Selected perforated intervals from 3,864'-4,338' (Cherry Canyon Unitized Interval)

Parkway Delaware Unit No. 520: (API No. 30-015-39879) 2450' FNL & 1330' FWL (Unit F) Section 35, Township 19 South, Range 29 East. Injection Interval: Selected perforated intervals from 3,864'-4,338' (Cherry Canyon Unitized Interval)

Parkway Delaware Unit No. 521: (API No. 30-015-39880) 1420' FNL & 1330' FWL (Unit F) Section 35, Township 19 South, Range 29 East. Injection Interval: Selected perforated intervals from 3,864'-4,338' (Cherry Canyon Unitized Interval)

The average and maximum injection rates will be 500 and 1,500 barrels of water per day, respectively, and the average and maximum surface injection pressure is anticipated to be 773 psi and 1,280 psi, respectively.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Ms. Ann Ritchie, Regulatory Agent, SM Energy Company at (432) 684-6381.

Published in the Artesia Daily Press, Artesia, N.M., April 25, 2012. Legal No. 22124.

Warnell, Terry G, EMNRD

From: Ann Ritchie [ann.wtor@gmail.com]
Sent: Monday, April 30, 2012 3:45 PM
To: Warnell, Terry G, EMNRD
Subject: SM Energy - PDU C108 Newspaper Notice
Attachments: SM Energy PDU newspaper notice.pdf

Please see newpaper notice attached for the C108 filing we submitted to you last week, wells #519, 520 & 521.
Thank you,
Ann Ritchie

--
West Texas Oil Reports
"Since 1948"
P.O. Box 953
Midland, TX 79702
432 684-6381
432 682-1458-fax

April 18, 2012

Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Attention: Ms. Jami Bailey, Division Director

Re: Form C-108
SM Energy Company
Parkway Delaware Unit Wells No. 519, 520 & 521
Parkway-Delaware Pool (49625)
Eddy County, New Mexico

Dear Ms. Bailey,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) to expand the Parkway Delaware Unit Pressure Maintenance Project. Division Order No. R-9822 dated January 6, 1993 approved secondary recovery operations within the Parkway Delaware Unit Area (approved by R-9821). SM Energy Company proposes to convert the Parkway Delaware Unit Wells No. 519, 520 & 521 to water injection wells in order to complete an efficient production/injection pattern within the Unit Area. These wells are located in Section 35, Township 19 South, Range 29 East, NMPM, Eddy County, New Mexico.

All the required information is enclosed. If additional information is needed, please contact me at (432) 684-6381.

Sincerely,

Ann Ritchie
Agent for SM Energy Company
P.O. Box 953
Midland, Texas 79702

Xc: OCD-Artesia

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery __X__Pressure Maintenance _____Disposal _____Storage
Application qualifies for administrative approval? __X__Yes _____No

II. OPERATOR: SM Energy Company (OGRID-154903)

ADDRESS: c/o P.O. Box 953 Midland, Texas 79702

CONTACT PARTY: Ann Ritchie, Regulatory Agent PHONE: (432) 684-6381

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.

IPI-205

IV. Is this an expansion of an existing project? __X__Yes _____No
If yes, give the Division order number authorizing the project: **R-9822 dated 1/6/93. WFX-685; PMX-256, 257 & 258.**

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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: Ann Ritchie TITLE: Regulatory Agent

SIGNATURE:  DATE: 4-18-12

E-MAIL ADDRESS: ann.wtor@gmail.com

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

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.

C-108 Application
SM Energy Company
Parkway Delaware Unit Wells No. 519, 520 & 521
Section 35, T-19S, R-29E, NMPM
Eddy County, New Mexico

I. The purpose of the application is to request approval to convert three (3) wells to water injection within the Parkway Delaware Unit Pressure Maintenance Project, Parkway-Delaware Pool, Eddy County, New Mexico, in order to complete an efficient injection/production pattern.

II. SM Energy Company
c/o Ann Ritchie-Agent
P.O. Box 953
Midland, Texas 79702
Contact Party: Ms. Ann Ritchie (432) 684-6381

III. Injection well data sheets and wellbore diagrams for each injection well are attached showing the proposed wellbore configurations. (Wells have not yet been drilled.)

IV. This is an expansion of the Parkway Delaware Unit Pressure Maintenance Project. The initial pressure maintenance project within the Parkway Delaware Unit was approved by Division Order No. R-9822 issued in Case No. 10619 on 1/6/1993.

V. Enclosed is a map that identifies all wells/leases within a 2-mile radius of the proposed injection wells and also shows the ½ mile "Area of Review" ("AOR").

VI. Attached is the AOR well construction/plugging data for all wells within the AOR. An examination of AOR well data indicates that all wells are constructed and/or plugged in such a manner so as to confine the injected fluid to the proposed injection interval.

VII. 1. The proposed water injection rate is 500 BWPD per well, and the proposed maximum injection rate is 1,500 BWPD per well. If the average or maximum rates increase in the future, the Division will be notified.

2. This will be a closed system.

3. The proposed average and maximum water injection pressure is 773 and 1,280 psi. If a higher injection pressure is necessary, SM Energy Company will conduct step rate injection tests in accordance with a procedure approved by the OCD.

4. Produced water from the Parkway-Delaware Pool originating from wells within the Unit Area will be re-injected into the subject injection wells. A representative formation water analysis obtained from the Parkway Delaware Unit No. 702 is attached. This formation water analysis shows

total dissolved solids to be approximately 40,779 mg/L. Also attached is a fresh water analysis obtained from the Osage Water Supply Well No. 8. This fresh water analysis was presented as evidence in Case No. 10619.

5. Injection is to occur into a formation that is oil productive.

VIII. See attached geologic discussion submitted as evidence in Case No. 10619.

IX. No stimulation is planned, however, should a stimulation treatment become necessary, then a mild 7 ½% NEFE HCL treatment with the appropriate additives will be used.

X. Logs will be filed subsequent to completion of drilling operations.

XI. Attached is a water analysis from Osage Water Supply Well No. 8.

XII. Affirmative statement is enclosed.

XIII. Proof of Notice is enclosed.

GEOLOGY

The Parkway (Delaware) Field produces oil and gas from the sandstones of the Permian age Delaware Mountain Group. In the Parkway Field, the major source area for the Delaware clastics was the Pedernal Massif to the northwest. Delaware sands accumulated on and behind the Capitan, Goat Seep and Getaway carbonate shelves during Guadalupian time. As the sand load increased to the point of being hydrologically and tectonically unstable, it moved as a gravity induced density flow through gaps in the reef, down the reef slope through channels and out into the Delaware Basin depocenter. Subsequently these clastics were reworked by deep-water longshore currents forming elongated sand bodies subparallel to the basin margin.

The Parkway (Delaware) Filed is a combination structural-stratigraphic trap of the upper portion of the Delaware Mountain Group clastics. The areal extent of the oil production portion of the Parkway anticlinal feature is slightly larger than one square mile. Stratigraphy plays an important role in the Parkway Field in that the Delaware sand interval is effectively divided by impermeable dolomitic shale barriers into three major reservoirs, the A, B, and C. The C reservoir is further subdivided by minor dolomitic shale barriers into the C1, C2, and C3. The C1, C2, and C3 reservoirs each have a distinct gas-oil contact. The cross-section is attached illustrating the subdivision of the Parkway (Delaware) field into the A, B, and C Sands.

The correlative well log tops for each of the Delaware A, B, and C sands were chosen by the Parkway Delaware Committee and independently verified by Michael G. Clemenson, Petroleum Geologist, retained by the Engineering Committee. A series of eight structural cross-sections through the Parkway Field were constructed to demonstrate the continuity and lateral thickness variations for each of the reservoirs, as well as to represent each interval where the wells had been perforated.

Delaware C Sand

The Delaware C Sand is a massive sand body with an overall average gross thickness of approximately 120 feet. The C Sand is the primary producing reservoir of the Parkway Field.

The top of the Delaware C Sand occurs at a subsea depth of -793 to -925 feet in the productive wells on the Parkway structure.

Figure 7 is a structure map on top of the C Sand. Seventeen well have been perforated in the Delaware C Sand. As previously noted, the Delaware C interval is subdivided by impermeable dolomitic shale barriers into three separate reservoirs, the C1, C2, and C3.

The need to subdivide the C Sand was recognized by varying gas-oil contacts within wells completed in the C Sand. Evidence that the C1, C2, and C3 are stratigraphically separate reservoirs was based on analysis of neutron-density crossover "gas effect" and production test data provided by the operators. The field wide correlation of dolomitic shale beds within the massive C Sand further confirmed that the C Sand was actually comprised of three separate reservoirs, each with its own distinct gas-oil contact. The subsea depth of the gas-oil contacts for each of the reservoirs are as follow:

C1 - -808 feet
C2 - -825 feet
C3 - -850 feet

The average gross interval from top to base if each of the reservoirs is as follow:

C1 - 15 feet
C2 - 36 feet
C3 - 70 feet

Isopach maps are attached showing gross thickness for the C1, C2, and C3.

Net sand isolith and net pay isopach maps of each of the reservoirs were constructed using data from the results of the well-log analysis generated by Platt, Sparks and Associates, Inc. These net sand isolith maps of the Delaware C1, C2, and C3 are also attached. These maps were constructed using log analysis cutoff parameters of porosity greater than or equal to 16% and shale column less than 50%. The average net thickness for each of the reservoirs is as follows:

C1 - 6 feet
C2 - 18 feet
C3 - 43 feet

Net gas pay isopach maps of the Delaware C1, C2, and C3 are attached. The net gas pay thickness were determined using log analysis cutoff parameters of porosity greater than 16% shale volume less that 50%, and water saturation less than 55%. The thickness of the gas cap was then mapped for each reservoir using that interval above the subsea depth of the gas-oil contacts listed above for the respective reservoirs.

The average thickness of the net gas pay for each reservoir is as follows:

C1 - 5 feet
C2 - 10 feet
C3 - 8 feet

Net oil pay isopach maps for the C1, C2, and C3 reservoirs using log analysis cutoff parameters of porosity greater than 16%, shale column less than 50%, and water saturation less than 55% were constructed and are attached. The interval mapped is from the base of the gas cap (gas-oil contact) to the subsea depth where water saturation exceeds 55%. The average thickness of the net oil pay for each reservoir is as follows:

C1 - 5 feet
C2 - 16 feet
C3 - 41 feet

Isopermeability maps for the C1, C2, and C3 reservoirs, using average permeability data generated by Platt, Sparks and Associates, Inc. were constructed and are presented.

Delaware B Sand

The top of the Delaware B Sand occurs at a subsea depth of approximately -655 to -831 feet in productive wells on the Parkway structure. The average gross thickness of the B Sand is 148 feet. The average net thickness of the B Sand using log analysis cutoff parameters of porosity greater than 15% and shale volume less than 50% os 85 feet. The Delaware B Sand has an average net pay thickness of 50 feet based on log analysis cutoff parameters of 15% porosity, shale volume less than 50%, and water saturations less than 55%. Figure 23 is a structure map on top of the B Sand. The B Sand is separated from the C Sand by 5 to 20 feet of dolomitic shale. Nine wells in the Parkway Field have been perforated in the B interval.

Delaware A Sand

The top of the Delaware A sand occurs at a subsea depth of approximately -590 to -700 feet in productive wells on the Parkway structure. The average gross thickness of the Delaware A Sand id 75 feet. The average net thickness of the A Sand using log analysis cutoff parameters of porosity greater than 15% and shale volume less than 50% is 50% is 40 feet. The Delaware A Sand has an average net pay thickness if 21 feet based on log analysis cutoff parameters of porosity greater than 15%, shale volume less than

50%, and water saturations less than 55%. The A Sand is separated from the B Sand by 5 to 17 feet of shale. Five wells in the Parkway Field have been perforated in the A Sand.

Fresh Water Zones

The Rustler Formation is an overlying fresh water zone that exists from 100-200; in depth. This zone has 767 ppm chlorides and total dissolved solids of 3481 ppm. See the attached Martin Water Lab analysis on 2/12/92. There are no underlying fresh water zones in this area.

INJECTION WELL DATA SHEET

OPERATOR: SM Energy Company

WELL NAME & NUMBER: Parkway Delaware Unit No. 519 **(API No. 30-015-39878)**

WELL LOCATION:	1980' FSL & 1380' FWL	K	35	19 South	29 East
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

Total Depth: 4,500'
Injection Interval: 3,864'-4,338'
(Cherry Canyon Unitized Interval)

WELL CONSTRUCTION DATA (PROPOSED)

Surface Casing

Hole Size: 24" Casing Size: 20" @ 275'

Cemented with: 633 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: 17 ½" Casing Size: 13 3/8" @ 1,500'

Cemented with: 1052 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: 11" Casing Size: 8 5/8" @ 3,200'

Cemented with: 894 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 4,500'

Cemented with: 255 Sx. or _____ ft^3

Top of Cement: 3,000' Method Determined: Calculate

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Internally Plastic Coated

Type of Packer: Lok-Set Packer

Packer Setting Depth: 3,764' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: X Yes ____ No

   If no, for what purpose was the well originally drilled: ____

2. Name of the Injection Formation: Delaware (Cherry Canyon)

3. Name of Field or Pool (if applicable): Parkway-Delaware Pool (49625)

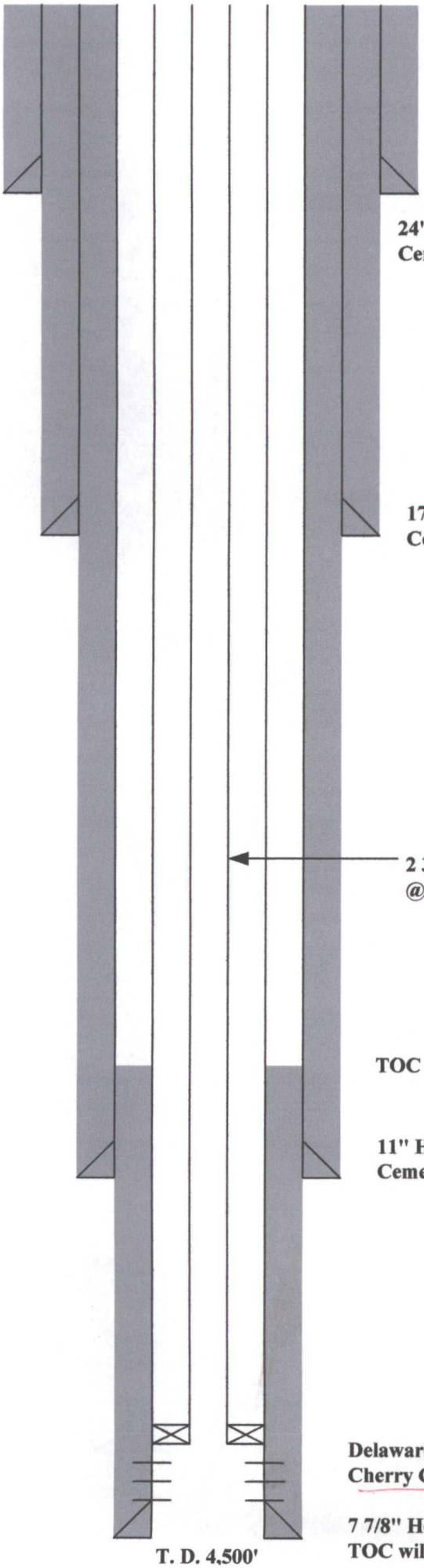
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

   None

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

   Parkway-Yates Pool (49642)

SM Energy Company
Parkway Delaware Unit No. 519
API No. 30-015-39878
1980' FSL & 1380' FWL, Unit K
Section 35, T-19S, R-29E



24" Hole; 20" csg. set @ 275' w/633 sx.
Cement will be circulated to surface

Proposed Completion

17 ½" Hole; 13 3/8" csg set @ 1,500' w/1052 sx.
Cement will be circulated to surface

2 3/8" IPC Tubing set in a Lok-Set packer
@ approximately 3,764' or 100' above top perforation

TOC @ 3,000'

11" Hole; 8 5/8" csg. set @ 3,200' w/894 sx.
Cement will be circulated to surface

Delaware Perfs: To Be Determined
Cherry Canyon Unitized Interval: 3,864'-4,338'

7 7/8" Hole; 5 ½" csg. set @ 4,500' w/255 sx.
TOC will be at approximately 3,000'

T. D. 4,500'

INJECTION WELL DATA SHEET

OPERATOR: SM Energy Company

WELL NAME & NUMBER: Parkway Delaware Unit No. 520 **(API No. 30-015-39879)**

WELL LOCATION:	2450' FNL & 1330' FWL	F	35	19 South	29 East
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

Total Depth: 4,500'
Injection Interval: 3,864'-4,338'
(Cherry Canyon Unitized Interval)

WELL CONSTRUCTION DATA (PROPOSED)

Surface Casing

Hole Size: 24" Casing Size: 20" @ 225'

Cemented with: 633 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: 17 ½" Casing Size: 13 3/8" @ 1,500'

Cemented with: 1052 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: 11" Casing Size: 8 5/8" @ 3,200'

Cemented with: 894 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 4,500'

Cemented with: 255 Sx. or _____ ft^3

Top of Cement: 3,000' Method Determined: Calculate

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Internally Plastic Coated

Type of Packer: Lok-Set Packer

Packer Setting Depth: 3,764' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: X Yes ____ No

   If no, for what purpose was the well originally drilled: ____

2. Name of the Injection Formation: Delaware (Cherry Canyon)

3. Name of Field or Pool (if applicable): Parkway-Delaware Pool (49625)

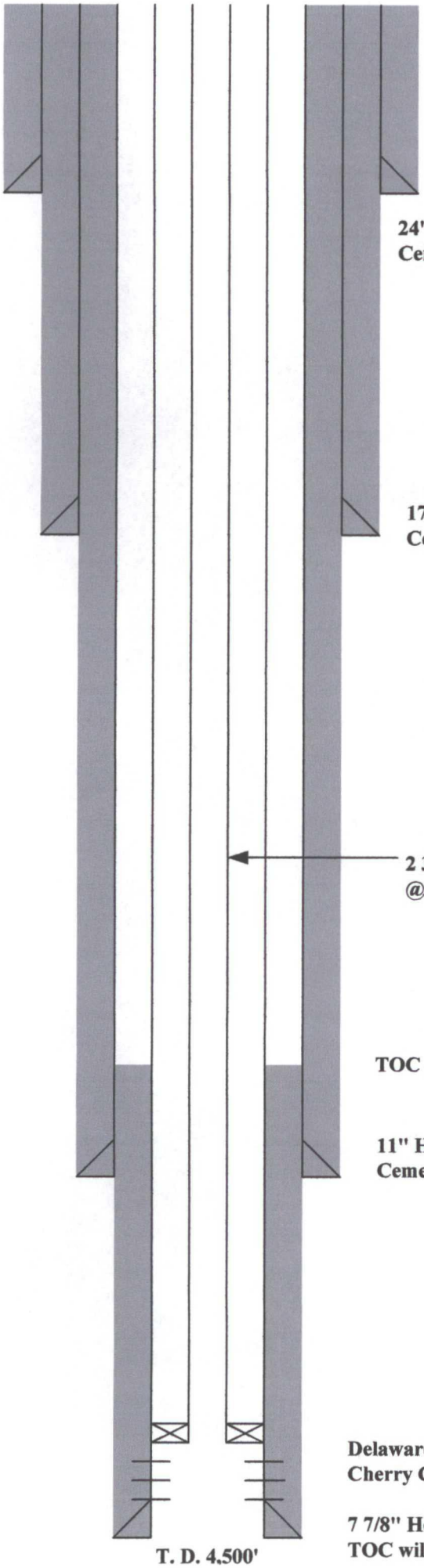
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

   None

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

   Parkway-Yates Pool (49642)

SM Energy Company
Parkway Delaware Unit No. 520
API No. 30-015-39879
2450' FNL & 1330' FWL, Unit F
Section 35, T-19S, R-29E



24" Hole; 20" csg. set @ 225' w/633 sx.
Cement will be circulated to surface

Proposed Completion

17 ½" Hole; 13 3/8" csg set @ 1,500' w/1052 sx.
Cement will be circulated to surface

2 3/8" IPC Tubing set in a Lok-Set packer
@ approximately 3,764' or 100' above top perforation

TOC @ 3,000'

11" Hole; 8 5/8" csg. set @ 3,200' w/894 sx.
Cement will be circulated to surface

Delaware Perfs: To Be Determined
Cherry Canyon Unitized Interval: 3,864'-4,338'

7 7/8" Hole; 5 ½" csg. set @ 4,500' w/255 sx.
TOC will be at approximately 3,000'

T. D. 4,500'

INJECTION WELL DATA SHEET

OPERATOR: SM Energy Company

WELL NAME & NUMBER: Parkway Delaware Unit No. 521 **(API No. 30-015-39880)**

WELL LOCATION:	1420' FNL & 1330' FWL	F	35	19 South	29 East
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

Total Depth: 4,500'

Injection Interval: 3,864'-4,338'
(Cherry Canyon Unitized Interval)

WELL CONSTRUCTION DATA (PROPOSED)

Surface Casing

Hole Size: 26" Casing Size: 20" @ 200'

Cemented with: 590 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: 17 ½" Casing Size: 13 3/8" @ 1,500'

Cemented with: 1250 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: 11" Casing Size: 8 5/8" @ 3,200'

Cemented with: 1425 Sx. or _____ ft^3

Top of Cement: Surface Method Determined: Circulate

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 4,500'

Cemented with: 415 Sx. or _____ ft^3

Top of Cement: 3,000' Method Determined: Calculate

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Internally Plastic Coated

Type of Packer: Lok-Set Packer

Packer Setting Depth: 3,764' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: X Yes ____ No

   If no, for what purpose was the well originally drilled: ____

2. Name of the Injection Formation: Delaware (Cherry Canyon)

3. Name of Field or Pool (if applicable): Parkway-Delaware Pool (49625)

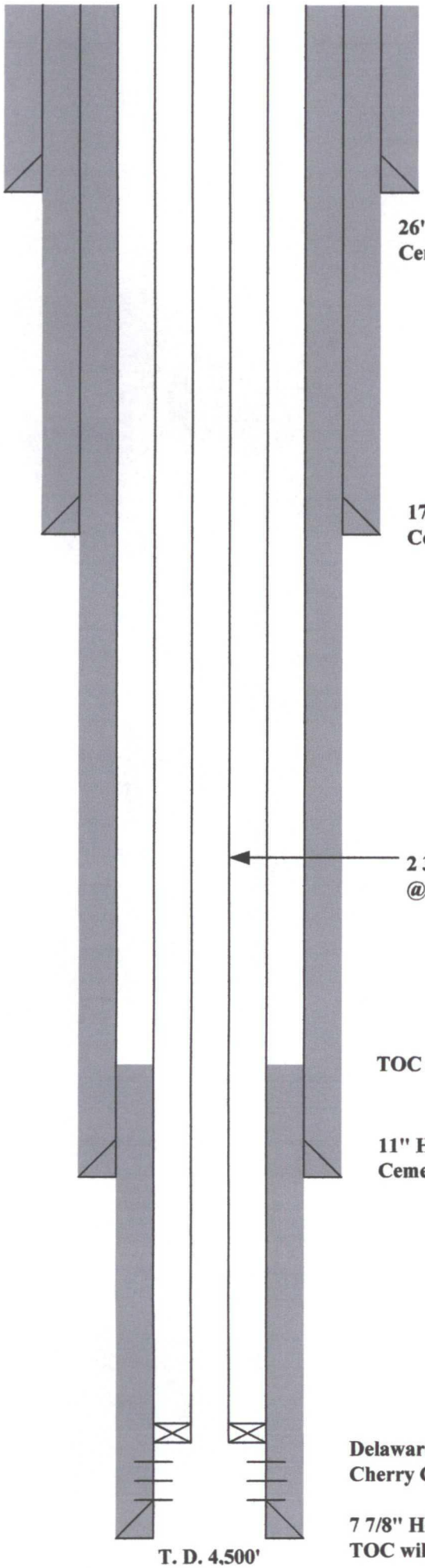
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

   None

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

   Parkway-Yates Pool (49642)

SM Energy Company
Parkway Delaware Unit No. 521
API No. 30-015-39880
1420' FNL & 1330' FWL, Unit F
Section 35, T-19S, R-29E



26" Hole; 20" csg. set @ 200' w/590 sx.
Cement will be circulated to surface

Proposed Completion

17 ½" Hole; 13 3/8" csg set @ 1,500' w/1250 sx.
Cement will be circulated to surface

2 3/8" IPC Tubing set in a Lok-Set packer
@ approximately 3,764' or 100' above top perforation

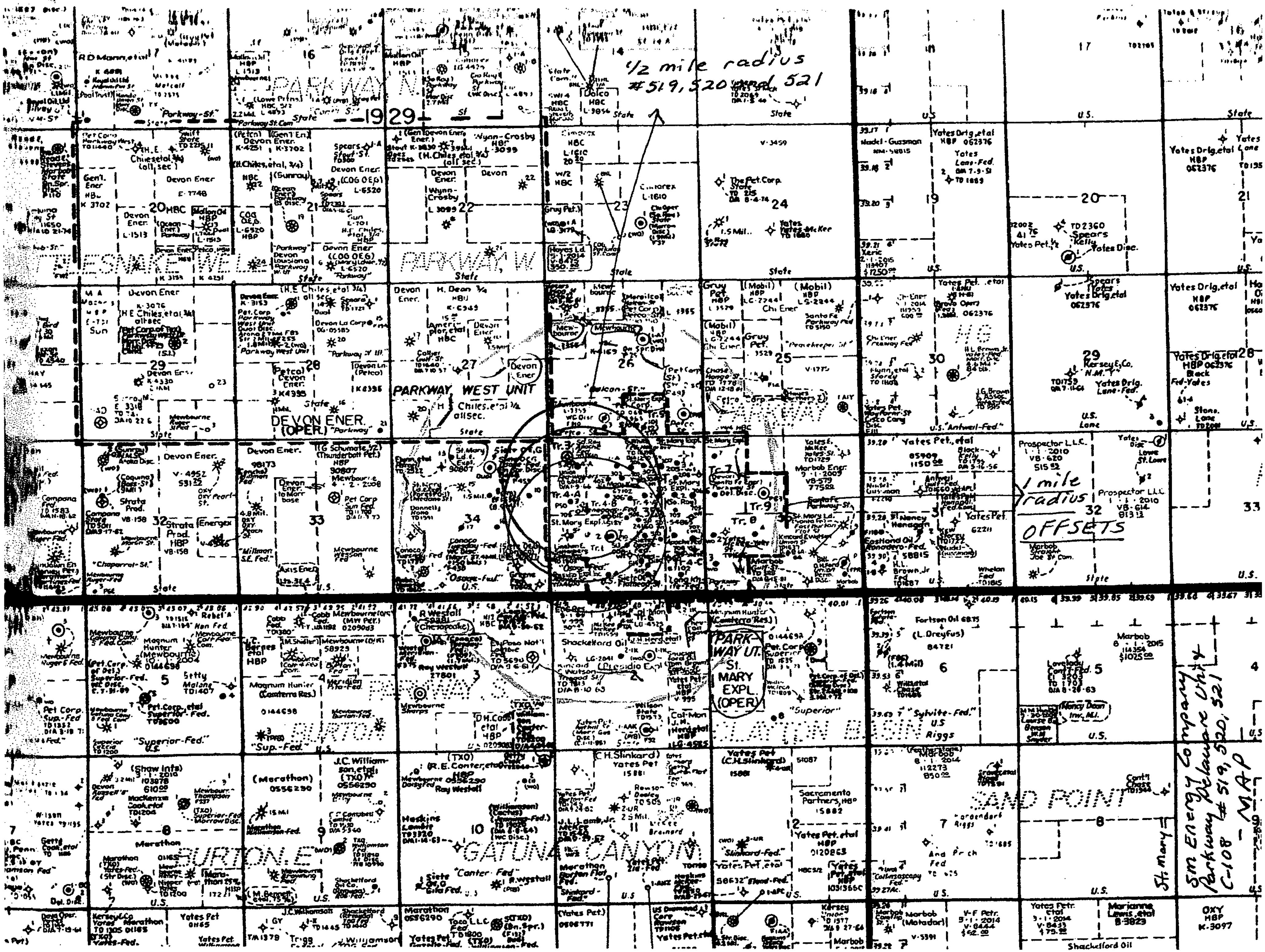
TOC @ 3,000'

11" Hole; 8 5/8" csg. set @ 3,200' w/1425 sx.
Cement will be circulated to surface

Delaware Perfs: To Be Determined
Cherry Canyon Unitized Interval: 3,864'-4,338'

7 7/8" Hole; 5 ½" csg. set @ 4,500' w/415 sx.
TOC will be at approximately 3,000'

T. D. 4,500'



1/2 mile radius
#519, 520 and 521
1 mile radius
OFFSETS
SM Energy Company
Parkway Delaware Unit #519, 520, 521
C-108 - MAP
St. Mary
PARKWAY WEST UNIT
DEVON ENER. (OPER)
PARKWAY UT. St. MARY EXPL. (OPER)
SAND POINT
GATUNA CANYON

April 18, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: **Offset Operators/Lessees & Surface Owners**
(See Attached List)

Re: SM Energy Company
Form C-108 (Application for Authorization to Inject)
Parkway Delaware Unit Wells No. 519, 520 & 521
Section 35, T-19 South, R-29 East, NMPM,
Eddy County, New Mexico

Dear Sir:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the SM Energy Company's Parkway Delaware Unit Wells No. 519, 520 & 521 located in Section 35, T-19 South, R-29 East, NMPM, Eddy County, New Mexico. You are being provided a copy of the application as either the surface owner of the land on which the proposed injection wells are located, or as an offset operator/lease owner. In accordance with the provisions of Division Order No. R-9822, SM Energy Company proposes to inject water into the Delaware formation within the Parkway Delaware Unit Wells No. 519, 520 & 521 in order to complete an efficient injection/production pattern within the Parkway Delaware Unit Pressure Maintenance Project.

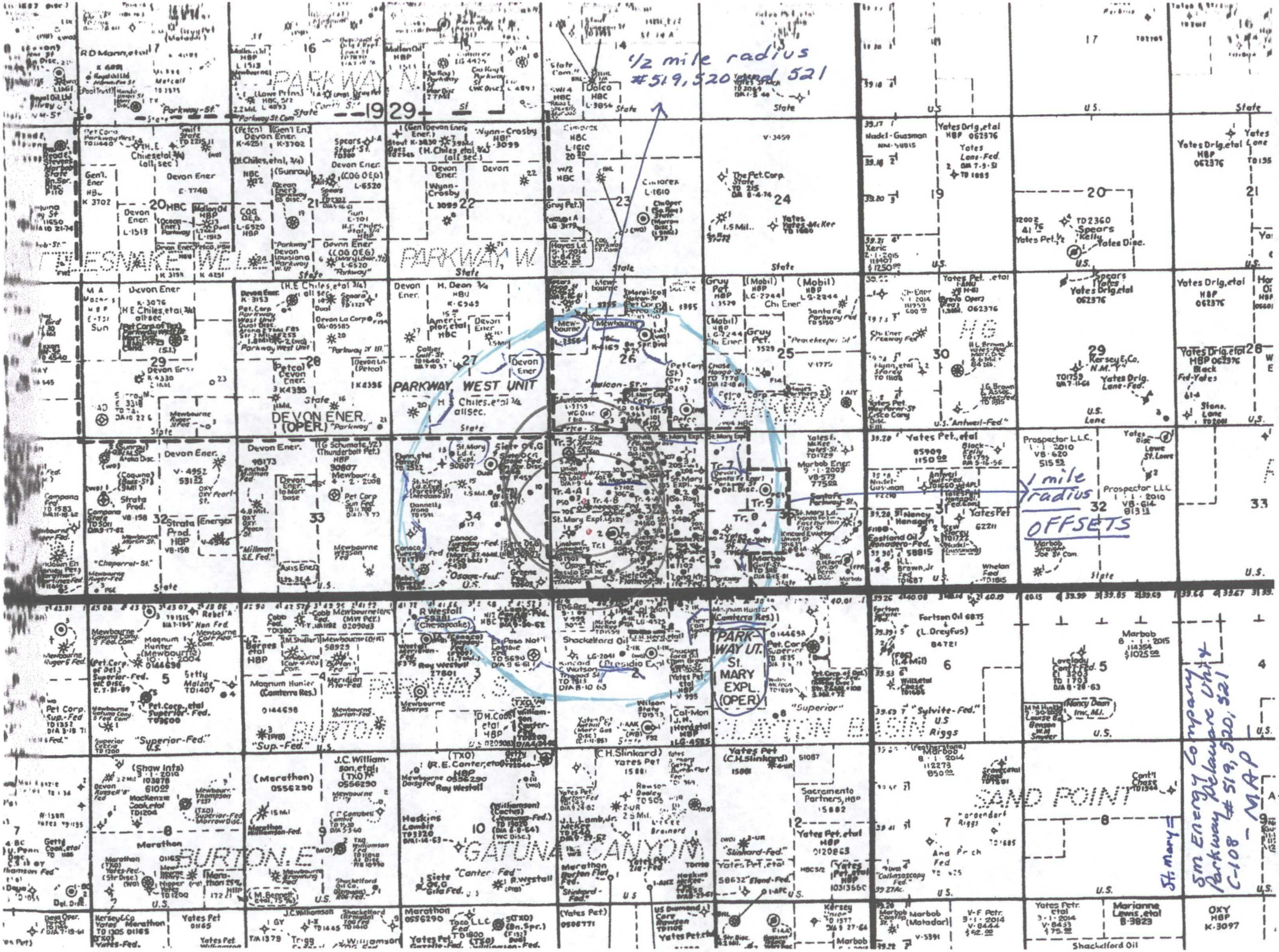
Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (432) 684-6381

Sincerely,

Ann Ritchie
Agent for SM Energy Company
P.O. Box 953
Midland, Texas 79702

Enclosure



1/2 mile radius #519, 520 and 521
1 mile radius
OFFSETS
SM Energy Company
Parkway Delaware Unit
C-108 #519, 520, 521 - MAP
St. Mary
PARKWAY N
PARKWAY W
PARKWAY WEST UNIT
DEVON ENER. (OPER)
PARKWAY
PARKWAY S
PARKWAY UT. St. MARY EXPL. (OPER)
BURTON
BURTON E
GATUNA CANYON
SAND POINT

SM Energy Company
Parkway Delaware Unit Wells No. 519, 520 & 521
Expansion of Existing Injection Project, Form C-108

Operators within one half mile radius:

CAMTERRA RESOURCES, INC.	PO BOX 2069		MARSHALL	TX	75671
CHESAPEAKE OPERATING, INC.	ATTN CHRISTIAN COMBS	PO BOX 18496	OKLAHOMA CITY	OK	73154
DEVON ENERGY PRODUCTION CO, L.P.	20 NORTH BROADWAY SUITE 1500		OKLAHOMA CITY	OK	73102
MEWBOURNE OIL COMPANY	BOX 7698		TYLER	TX	75711

Copy of the OCD Form C-108 Data Sheet & Map has been sent by certified mail to the above parties on April 25, 2012.

Ann E. Ritchie, Regulatory Agent

SM Energy Company
3300 N. "A" St, Bldg 7, Suite 200
Midland, TX 79705

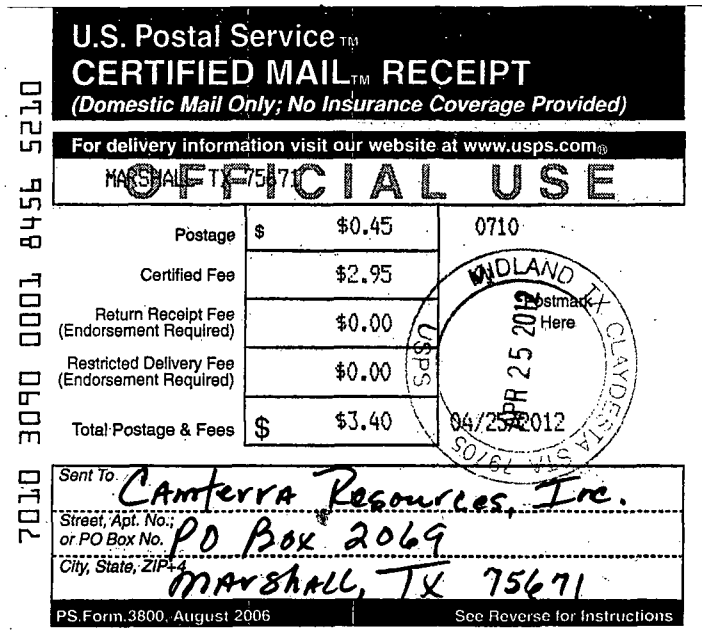
U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OKLAHOMA CITY OK 73154
OFFICIAL USE

Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$0.00
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $3.40

0710
MIDLAND TX CLAYDESTA STA 79705
APR 25 2012
Postmark Here
USPS
04/25/2012

Sent To: Chesapeake Operating, Inc.
Street, Apt. No.; or PO Box No.: PO Box 18496
City, State, ZIP+4: Oklahoma City, OK 73154

PS Form 3800, August 2006 See Reverse for Instructions



U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
MARSHALL TX 75671
OFFICIAL USE

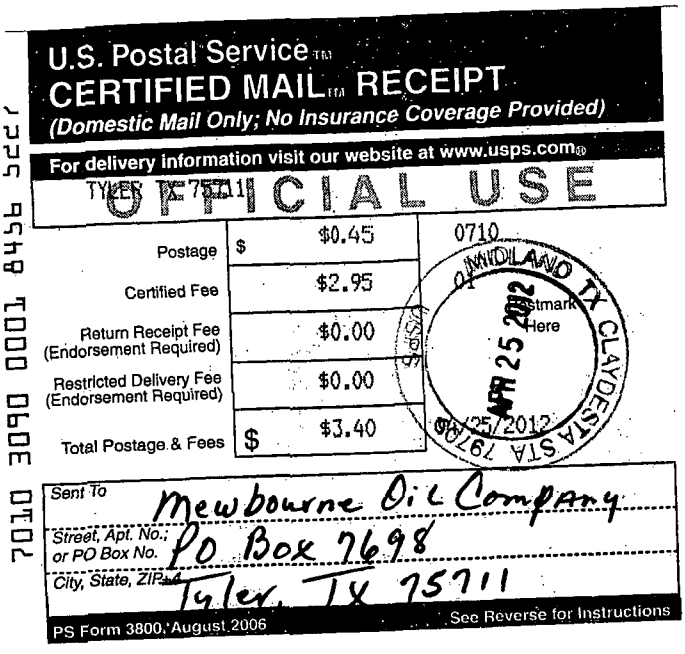
Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$0.00
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $3.40

0710
MIDLAND TX CLAYDESTA STA 79705
APR 25 2012
Postmark Here
USPS
04/25/2012

7010 3090 0001 8454 5210

Sent To: Camterra Resources, Inc.
Street, Apt. No.; or PO Box No.: PO Box 2069
City, State, ZIP+4: Marshall, TX 75671

PS Form 3800, August 2006 See Reverse for Instructions



U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
TYLER TX 75711
OFFICIAL USE

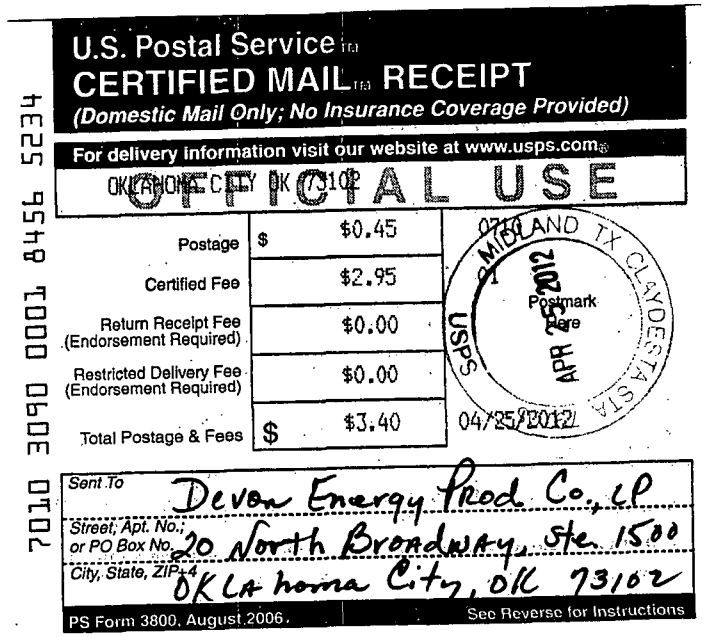
Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$0.00
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $3.40

0710
MIDLAND TX CLAYDESTA STA 79705
APR 25 2012
Postmark Here
USPS
04/25/2012

7010 3090 0001 8454 5225

Sent To: Mewbourne Oil Company
Street, Apt. No.; or PO Box No.: PO Box 7698
City, State, ZIP+4: Tyler, TX 75711

PS Form 3800, August 2006 See Reverse for Instructions



U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OKLAHOMA CITY OK 73102
OFFICIAL USE

Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$0.00
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $3.40

0710
MIDLAND TX CLAYDESTA STA 79705
APR 25 2012
Postmark Here
USPS
04/25/2012

7010 3090 0001 8454 5234

Sent To: Devon Energy Prod. Co., LP
Street, Apt. No.; or PO Box No.: 20 North Broadway, Ste. 1500
City, State, ZIP+4: Oklahoma City, OK 73102

PS Form 3800, August 2006 See Reverse for Instructions

SM ENERGY COMPANY
AREA OF REVIEW WELL DATA
PARKWAY DELAWARE UNIT WELLS NO. 519, 520 & 521 (Page 1)

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TOTAL DEPTH	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS
30-015-03618	Linehan & Stoltenberg	Getty Federal	1	P	PA	1980'	S	660'	W	L	35	19S	29E	May-60	1,605'	Unk.	10 3/4"	169'	N/A	N/A	N/A	Unk.	8 5/8"	264'	N/A	N/A	N/A		Well PA'd 5/60. Schematic Attached
																						Unk.	7"	435'	50	152'	File		
30-015-03619	UNOCAL	Federal Walter 35	1		PA	660'	N	660'	W	D	35	19S	29E	Nov-55	6,010'	13 3/4"	11 3/4"	153'	150	Surface	Calc.	10 3/4"	8 5/8"	1200'	250	173'	Calc.		Well PA'd 1956. Schematic Attached
																						7 7/8"	5 1/2"	4,700'	225	3,500'	Calc.		Estimated Hole Sizes
30-015-25960	SM Energy Company	PDU	501	P	Active	1980'	S	1980'	E	J	35	19S	29E	Jul-88	5,910'	17 1/2"	13 3/8"	353'	150	Surface	Circ.	12 1/4"	8 5/8"	3,193'	2,860'	Surface	Circ. *	3,915'-4,260' Perf.	* Perf 5 1/2" csg @ 2170' & squeeze cmt.
																						7 7/8"	5 1/2"	5,908'	620	2,190' *	CBL		w/420 sx. * Circ. via 1" tubing.
30-015-25984	SM Energy Company	PDU	502	P	Active	1980'	S	1980'	W	K	35	19S	29E	Oct-88	5,000'	17 1/2"	13 3/8"	363'	540	Surface	Circ.	7 7/8"	5 1/2"	4,993'	1500	Surface	Circ.	4,028'-4,187' Perf.	5 1/2" csg. stage cemented.
30-015-25985	SM Energy Company	PDU	401	P	Active	1980'	N	1980'	W	F	35	19S	29E	Sep-88	5,800'	17 1/2"	13 3/8"	357'	665	Surface	Circ.	7 7/8"	5 1/2"	5,795'	2915	Surface	Circ.	4,146'-4,220' Perf.	5 1/2" csg. stage cemented. DV-2,987'
30-015-26005	SM Energy Company	PDU	301	P	Active	1980'	N	1980'	E	G	35	19S	29E	Nov-88	5,000'	17 1/2"	13 3/8"	365'	500	Surface	Circ.	12 1/4"	8 5/8"	3,201'	1840	Surface	Circ. *	3,918'-4,211' Perf.	* Circ. via 1" tubing.
																						7 7/8"	5 1/2"	5,000'	350	3,155'	Calc.		
30-015-26006	SM Energy Company	PDU	302	P	Active	2230'	N	760'	W	E	35	19S	29E	Nov-88	5,000'	17 1/2"	13 3/8"	363'	700	Surface	Circ.	12 1/4"	8 5/8"	3,202'	1840	Surface	Circ. *	4,024'-4,294' Perf.	* Circ. via 1" tubing.
																						7 7/8"	5 1/2"	5,000'	450	2,766'	Calc.		
30-015-26007	SM Energy Company	PDU	503	P	Active	660'	S	1910'	E	O	35	19S	29E	Nov-88	5,000'	17 1/2"	13 3/8"	360'	750	Surface	Circ.*	12 1/4"	8 5/8"	3,218'	2295	Surface	Circ. *	4,201'-4,320' Perf.	* Circ. via 1" tubing.
																						7 7/8"	5 1/2"	5000'	400	2,968'	Calc.		
30-015-26028	SM Energy Company	PDU	504	P	Active	660'	S	1980'	W	N	35	19S	29E	Dec-88	5,000'	17 1/2"	13 3/8"	381'	400	Surface	Circ.	12 1/4"	8 5/8"	3,200'	1405	Surface	Circ. *	4,198'-4,208' Perf.	* Circ. via 1" tubing.
																7 7/8"	5 1/2"	5,000'	420	2,885'	Calc.		4"	4,328'	120	Surface	Circ.		
30-015-26029	SM Energy Company	PDU	505	P	Active	1980'	S	760'	W	L	35	19S	29E	Nov-88	5,000'	26"	20"	172'	200	Surface	Circ.	17 1/2"	13 3/8"	364'	500	Surface	Circ.	4,020'-4,272' Perf.	* Circ. via 1" tubing.
																12 1/4"	8 5/8"	3,200'	2140	Surface	Circ.*	7 7/8"	5 1/2"	5,000'	450	2,772'	Calc.		
30-015-26030	Siete Oil & Gas Corp.	Osage Federal	6	P	ND	990'	S	660'	W	D	35	19S	29E	**Never Drilled**															
30-015-26050	Siete Oil & Gas Corp.	Renegade Federal	4	P	ND	1980'	N	2094'	W	F	35	19S	29E	**Never Drilled**															
30-015-26051	SM Energy Company	Osage Federal	7	P	PA	1980'	S	2080'	W	K	35	19S	29E	Jan-89	1,705'	12 1/4"	13 3/8"	350'	400	Surface	Circ.	7 7/8"	5 1/2"	1,700'	810	Surface	Circ.*	1,434'-1,449' Perf.	Yates Completion. Well PA'd 5/08
30-015-26063	SM Energy Company	PDU	201	P	Active	990'	N	2310'	W	C	35	19S	29E	Apr-89	4,550'	17 1/2"	13 3/8"	372'	725	Surface	Circ.*	12 1/4"	8 5/8"	3,200'	2,700	Surface	Circ. *	3,949'-4,264' Perf.	* Circ. via 1" tubing.
																						7 7/8"	5 1/2"	4,550'	540	2,100'	T.S.		
30-015-26083	SM Energy Company	PDU	202	P	Active	990'	N	1980'	E	B	35	19S	29E	Apr-89	4,550'	17 1/2"	13 3/8"	365'	478	Surface	Circ.*	12 1/4"	8 5/8"	3,210'	2300	Surface	Circ. *	3,956'-4,229' Perf.	* Circ. via 1" tubing.
																						7 7/8"	5 1/2"	4,550'	500	2,255'	Calc.		
30-015-26143	SM Energy Company	PDU	204	P	Active	990'	N	940'	W	D	35	19S	29E	Jul-89	4,550'	17 1/2"	13 3/8"	353'	425	Surface	Circ.*	12 1/4"	8 5/8"	3,200'	4145	Surface	Circ.	3,984'-4,028' Perf.	* Circ. via 1" tubing.
																						7 7/8"	5 1/2"	4,550'	425	1,956'	CBL		
30-015-26291	Southland Royalty Co.	Apache "A" Fed	5	P	PA	890'	N	840'	W	D	35	19S	29E	Feb-90	1,540'	17 1/2"	13 3/8"	220'	350	20'	T.S.	11"	8 5/8"	1,470'	750	Surface	Well File		Well PA'd 1/91. Schematic Attached
30-015-27445	SM Energy Company	PDU	303	I	Active	1420'	N	2500'	W	F	35	19S	29E	May-93	4,800'	26"	20"	258'	828	Surface	Circ. *	17 1/2"	13 3/8"	1,180'	950	Surface	Circ. *	4,138'-4,247' Perf.	* Circ. via 1" tubing.
																12 1/4"	8 5/8"	3,200'	1615'	Surface	Circ. *	7 7/8"	5 1/2"	4,800'	485	Surface	Circ.		5 1/2" csg. stage cmt. DV-2,991'
30-015-27464	SM Energy Company	PDU	506	I	Active	2635'	S	2640'	E	J	35	19S	29E	Jun-93	4,750'	26"	20"	350'	325	Surface	Circ.	17 1/2"	13 3/8"	1,185'	315	Surface	Circ.	3,930'-4,203' Perf.	* Circ. via 1" tubing.
																12 1/4"	8 5/8"	3,200'	965	Suface	Circ.*	7 7/8"	5 1/2"	4,750'	625	Surface	Circ.		5 1/2" csg. stage cmt. DV-2,997'
30-015-28136	Siete Oil & Gas Corp.	PDU	809	P	ND	2630'	S	1485'	E	J	35	19S	29E	**Never Drilled**															
30-015-33714	SM Energy Company	PDU	513	I	Active	1700'	S	2630'	E	J	35	19S	29E	Mar-05	4,718'	17 1/2"	13 3/8"	403'	450	Surface	Circ.	12 1/4"	9 5/8"	1,535'	480	Surface	Circ.	3,940'-4,235' Perf.	
																8 1/2"	7"	3,195'	195	1,894'	Calc.	6 1/2"	4 1/2"	4,600'	250	Surface	Circ.		
30-015-33997	SM Energy Company	PDU	307Y	P	Active	1500'	N	2060'	E	G	35	19S	29E	Apr-05	4,600'	17 1/2"	13 3/8"	415'	350	Surface	Circ.	12 1/4"	9 5/8"	1,500'	480	Surface	Circ.	3,952'-4,422' Perf.	*7" casing cemented w/147 bbls Class C
Original wellbore lost at a depth of 2,230' and was PA'd. Well No. 307Y was drilled as replacement well:																8 1/2"	7"	3,220'	147 *	Surface	Circ.	6 1/2"	4 1/2"	4,600'	350	2,219'	Calc.		
30-015-33998	SM Energy Company	PDU	512Y	P	Active	2615'	S	1945'	W	K	35	19S	29E	Apr-05	4,600'	17 1/2"	13 3/8"	398'	345	Surface	Circ.	12 1/4"	9 5/8"	1,528'	500	Surface	Circ.	3,962'-4,190' Perf.	
																8 1/2"	7"	3,221'	525	394'	Calc.	6 1/2"	4 1/2"	4,585'	300	2,577'	Calc.		
30-015-34121	SM Energy Company	PDU	207	I	Active	995'	N	1461'	E	B	35	19S	29E	May-05	4,590'	17 1/2"	13 3/8"	394'	500	Suface	Circ.*	12 1/4"	9 5/8"	1,488'	550	Surface	Circ.	3,991'-4,218' Perf.	* Circ. via 1" tubing.
																8 1/2"	7"	3,227'	325	1,152'	Calc.	6 1/2"	4 1/2"	4,577'	262	2,794'	Calc.		
30-015-34128	SM Energy Company	PDU	206	I	Active	1000'	N	2452'	E	B	35	19S	29E	Oct-05	4,600'	17 1/2"	13 3/8"	398'	790	Surface	Circ.*	12 1/4"	9 5/8"	1,505'	480	Surface	Circ.	3,950'-4,214' Perf.	* Circ. via 1" tubing.
																8 1/2"	7"	3,214'	460	Surface	Circ.	6 1/2"	4 1/2"	4,595'	300	Surface	Circ.		
30-015-34129	SM Energy Company	PDU	402	P	Active	1437'	N	1986'	W	F	35	19S	29E	Jun-05	4,600'	17 1/2"	13 3/8"	422'	620	Surface	Circ.*	12 1/4"	9 5/8"	1,500'	480	Surface	Circ.	3,962'-4,210' Perf.	* Circ. via 1" tubing.
																8 1/2"	7"	3,230'	215	1,664'	Calc.	6 1/2"	4 1/2"	4,595'	260	2,745'	Calc.		
30-015-34130	SM Energy Company	PDU	514	P	Active	1210'	S	2065'	E	O	35	19S	29E	Nov-05	4,607'	17 1/2"	13 3/8"	397'	700	Suface	Circ.*	12 1/4"	9 5/8"	1,516'	480	Surface	Circ.	3,970'-4,232' Perf.	* Circ. via 1" tubing.
																8 1/2"	7"	3,198'	460	574'	Calc.	6 1/2"	4 1/2"	4,593'	300	Surface	Circ.		
30-015-34407	SM Energy Company	PDU	515	P	Active	1300'	S	1675'	W	K	35	19S	29E	Feb-06	4,600'	17 1/2"	13 3/8"	400'	345	Suface	Circ.	12 1/4"	9 5/8"	1,532'	480	Surface	Circ.	4,184'-4,236' Perf.	
																8 3/4"	7"	3,190'	425	Surface	Circ.	6 1/4"	4 1/2"	4,597'	330	Surface	Circ.		
30-015-39188	Mewbourne Oil Co.	Four Peaks 35 Fed	1H.	P	Drilling	560'	N	330'	W	D	35	19S	29E	Sep-11	8,227'	26"	20"	202'	500	Surface	Circ.	17 1/2"	13 3/8"	1,580'	1050	Surface	Circ.		* Circ. via 1" tubing. Well is currently
					BHL	990'	N	330'	E	A	35	19S	29E			12 1/4"	9 5/8"	3,310'	1730	Surface	Circ.*	8 3/4"	7"	8,420'	1150	Surface	Circ.		drilling and has not yet been completed.
																						6 1/8"							Proposed Bone Spring completion.

PA - 4
Active - 21
Drilling - 1

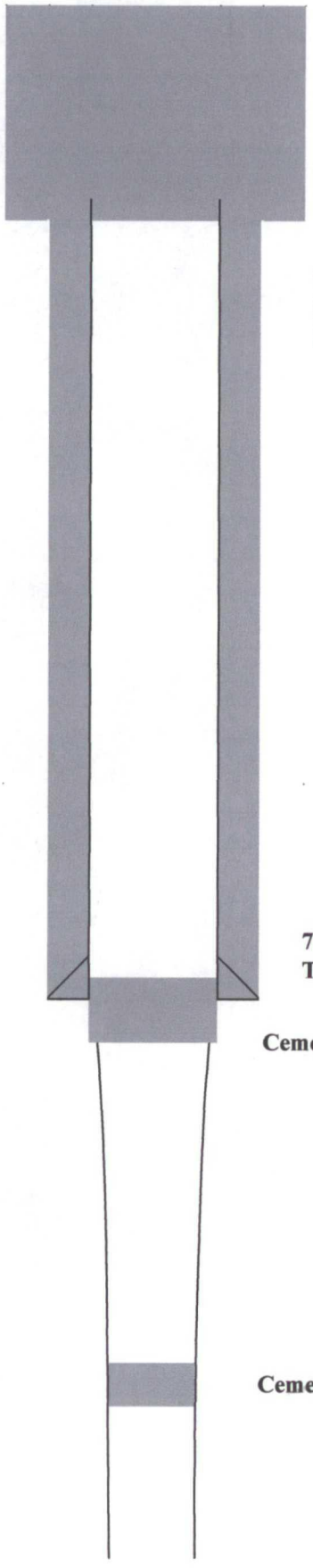
SM ENERGY COMPANY
AREA OF REVIEW WELL DATA
PARKWAY DELAWARE UNIT WELLS NO. 519, 520 & 521 (Page 2)

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TOTAL DEPTH	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS
30-015-29503	SM Energy Company	PDU	304	I	Active	1485'	N	1485'	E	G	35	19S	29E	Apr-97	4,430'	17 1/2"	13 3/8"	356'	665	Surface	Circ.*	12 1/4"	9 5/8"	1,500'	535	Surface	Circ.	4,154'-4,261' Perf.	* Circ. via 1" tubing.
																8 3/4"	7"	3,045'	550	Surface	Circ.	6 1/4"	4 1/2"	4,422'	250	1,920'	CBL		
30-015-29504	SM Energy Company	PDU	507	I	Active	2628'	S	1485'	E	J	35	19S	29E	Apr-97	4,400'	17 1/2"	13 3/8"	354'	390	Surface	Circ.	12 1/4"	9 5/8"	1,366'	500	Surface	Circ.	4,164'-4,280' Perf.	
																8 3/4"	7"	2,988'	480	Suface	Circ.	6 1/4"	4 1/2"	4,399'	210	2,810'	Well File		
30-015-30029	SM Energy Company	PDU	508	I	Active	1350'	S	2520'	E	J	35	19S	29E	Jan-98	4,400'	17 1/2"	13 3/8"	359'	350	Surface	Circ.	12 1/4"	9 5/8"	1,480'	560	Surface	Circ.	4,160'-4,278' Perf.	
																8 3/4"	7"	3,000'	700	Surface	Circ.	6 1/4"	4 1/2"	4,400'	200	2,100'	CBL		
30-015-33071	SM Energy Company	PDU	305	P	Active	2000'	N	1564'	E	G	35	19S	29E	Nov-03	4,550'	17 1/2"	13 3/8"	344'	930	Suface	Circ.*	12 1/4"	8 5/8"	3,200'	2,805	Surface	Circ.*	4,060'-4,230' Perf.	* Circ via 1" tubing.
																						7 7/8"	5 1/2"	4,550'	585	Surface	Circ.		
30-015-33072	SM Energy Company	PDU	510	P	Active	1870'	S	1480'	E	J	35	19S	29E	Nov-03	4,553'	17 1/2"	13 3/8"	341'	800	Surface	Circ.*	12 1/4"	8 5/8"	3,200'	1450	Surface	Circ.	4,172'-4,200' Perf.	* Circ via 1" tubing.
																						7 7/8"	5 1/2"	4,553'	585	Surface	Circ.		
30-015-33073	SM Energy Company	PDU	511	P	Active	2570'	S	2225'	E	J	35	19S	29E	Oct-03	4,550'	17 1/2'	13 3/8"	304'	350	Surface	Circ.	12 1/4"	8 5/8"	3,210'	1250	Surface	Circ.	3,940'-4,146' Perf.	
																						7 7/8"	5 1/2'	4,550'	504	340'	CBL		
30-015-33711	SM Energy Company	PDU	306	I	Active	2090'	N	2430'	E	G	35	19S	29E	Nov-04	4,620'	17 1/2"	13 3/8"	390'	350	Surface	Circ.	12 1/4"	8 5/8"	3,185'	1750	Surface	Circ.*	3,924'-4,228' Perf.	* Circ via 1" tubing.
																						7 7/8"	5 1/2'	4,626'	600	Surface	Circ.		
30-015-33713	SM Energy Company	PDU	512	P	PA	2615'	S	1980'	W	K	35	19S	29E	Jan-05	2,326'	17 1/2"	13 3/8"	386'	600	Surface	Circ.*	**Stuck pipe in the Capitan Reef at a depth of 2,326' and well was subsequently plugged and abandoned. See attached sundry notice detailing plugging operations from 2,326' to surface.**								
30-015-39420	Mewbourne Oil Co.	Four Peaks 35 Fed	2H	P	NDY	1975'	N	330'	W	E	35	19S	29E	NYD		**26"**	**20"**	**185**		**Surface**		**17 1/2"**	**13 3/8"**	**1,300'**		**Surface**			**Bone Spring Completion**
		Proposed BHL				2310'	N	330'	E	H	35	19S	29E			**12 1/4"**	**9 5/8"**	**3,300'**		**Surface**		**8 3/4"**	**7"**	**8,455'**		**1,670'**			**Proposed casing/cementing design**
																						6 1/8"	**4 1/2"**	**8,250'-12,516'**					
30-015-03615	James L. Lamb, Jr.	Pan American	1	P	PA	330'	S	330'	E	P	34	19S	29E	Aug-62	1,555'		8 5/8"	392'	50	192'	File	**Non-productive well was PA'd from 1,555' to surface. See attached sundry notice detailing plugging.**							
30-015-20446	The Petroleum Corp.	Sun Federal	1	P	ND	660'	N	660'	E	A	34	19S	29E	**Never Drilled**															
30-015-26178	SM Energy Company	Osage Federal	10	P	Active	1980'	N	660'	E	H	34	19S	29E	Sep-89	9,500'	26"	20"	347'	510	Surface	Circ.*	17 1/2"	13 3/8"	1,150'	750	Surface	Circ.	7,034'-7,192' Perf.	Bone Spring Completion
																12 1/4"	8 5/8"	3,200'	1175	1,781'	File	7 7/8"	5 1/2"	9,500'	1300	2,743'	Calc.		* Circ. via 1" tubing.
30-015-26188	Siete Oil & Gas Corp.	Osage Federal	11	P	ND	2030'	S	660'	E	I	34	19S	29E	**Never Drilled**															
30-015-26201	Siete Oil & Gas Corp.	Osage Federal	12	P	ND	990'	N	990'	E	A	34	19S	29E	**Never Drilled**															
30-015-20440	The Petroleum Corp.	Petco State Com	2	P	PA	660'	S	1980'	W	N	26	19S	29E	May-71	10,685'	15"	11 3/4"	605'	650	Surface	Circ.*	11"	8 5/8"	3,800'	700	1,080'	T.S.	9,622'-9,646' Perf.	PA'd 2/72 Schematic Attached
																						7 7/8"	4 1/2"	9,779'	360	8,319'	Calc.	Wolfcamp Comp.	* Circ. via 1" tubing.
30-015-26112	SM Energy Company	PDU	101	P	Active	330'	S	1980'	E	O	26	19S	29E	Jun-89	4,731'	17 1/2"	13 3/8"	357'	350	Surface	Circ.	12 1/4"	8 5/8"	3,285'	3000	Surface	Circ.*	4,028'-4,084' Perf.	PBTD-4,154'
																						7 7/8"	5 1/2'	4,731'	250	3,398'	Calc.		*Circ via 1" tubing.
30-015-26113	Mewbourne Oil Co.	Petco State	3	P	Active	330'	S	1980'	W	N	26	19S	29E	Dec-89	4,740'	17 1/2"	13 3/8"	358'	450	Surface	Circ.	12 1/4"	8 5/8"	3,325'	3130	Surface	Circ. *	4,316'-4,458' Perf.	* Circ. via 1" tubing.
																						7 7/8"	5 1/2"	4,740'	300	2,946'	Calc.		
30-015-37850	Mewbourne Oil Co.	Parkway 26 State	4H	P	Active	380'	S	330'	W	M	26	19S	29E	Jun-10	8,228'	26"	20"	243'	500	Surface	Circ.	17 1/2"	13 3/8"	1,502'	1050	Surface	Circ.		Bone Spring Horizontal Completion
					BHL	373'	S	362'	E	P	26	19S	29E		TVD	12 1/4"	9 5/8"	3,523'	1,330	Surface	Circ.*	8 3/4"	7"	8,443'	1000	200'	T.S.		*Circ via 1" tubing.
																						6 1/8"	4 1/2"	8516'-12380'	NA	NA	NA		
30-015-26169	SM Energy Company	Agave IK State	1	P	TA	330'	N	2310'	W	C	2	20S	29E	Aug-89	4,600'	24"	20"	450'	1,125	Surface	Circ.	17 1/2"	13 3/8"	1,068'	1350	Surface	Circ.	3,760'-4,291' Perf.	TA'd w/CIBP @ 3,790' & 4,250'
																12 1/4"	8 5/8"	3,670'	1,600	950	T.S.	7 7/8"	5 1/2"	3,350'-4,600'	250	3,490'	CBL		

PA - 3
TA - 1
Active - 11

PA - 7
TA - 1
Active - 32
Total

Linehan & Stoltenberg
Getty Federal No. 1
API No. 30-015-03618
1980' FSL & 660' FWL (Unit L)
Section 35, T-19 South, R-29 East, NMPM



10 ¾" Csg @ 169'
(Pulled from 169')

7" csg. Cut & pulled @ 153'.
Mud & cement placed from
153' to surface.

8 5/8" Csg @ 264'
(Pulled from 264')

7" Csg. @ 435 w/50 sx.
TOC @ 152' (Cut & Pull Depth)

Cement plug-425'-500'

Cement plug-1,100-1,150'

T.D. 1,605'

Drilled: 5/1960
Plugged: 5/1960

N. M. O. C. C. COPY

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

APPROVED
NOV 1 1960
JAMES A. KNAUF

(SUBMIT IN TRIPLICATE)

Land Office Santa Fe

Lease No. NM-01523-A

Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
NOV 2 6 1960

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 20, 1960

Getty Federal
Well No. 1 is located 1980 ft. from [S] line and 660 ft. from [W] line of sec. 35

NW SW Sec. 35 (¼ Sec. and Sec. No.) — 19S (Twp.) — 29E (Range) — N.M.P.M. (Meridian)

Undesignated (Field) — Eddy (County or Subdivision) — New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3315 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We have plugged this well per notice of intention to abandon dated May 31, 1960 as follows:
Well drilled to a total depth of 1605 feet and encountered no oil, gas or water below surface water at 225-33
Filled with mud to 1150 and with cement to 1100.
Filled with mud to 500 feet and put a plug of cement 500-425 up into 7" pipe set at 435.
Knocked off 7" pipe at 152.80 feet and pulled same
Filled with mud to surface, cemented same, put up regulation marker and cleaned up location
Conductor strings (165 feet of 10 3/4" and 264 feet of 8 5/8" were all recovered.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Linehan & Stoltenberg

Address Box 969

Midland, Texas

By T. Roy Holmes

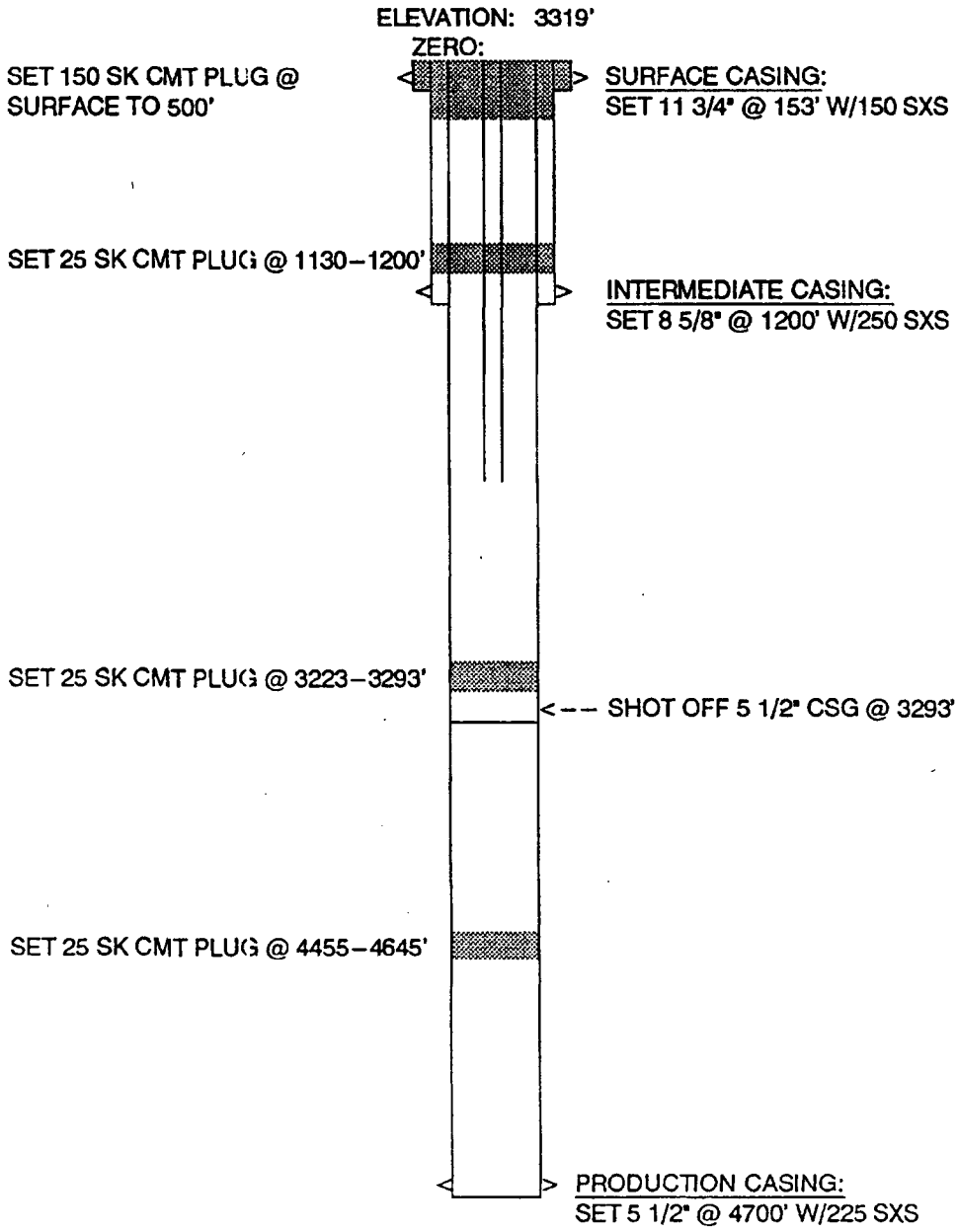
Title Agent

SIETE OIL & GAS CORPORATION

WELL: #1-35 FEDERAL WALTER
FIELD: WILDCAT
INTERVAL: BONE SPRING
Comp: 1/9/56
IP: NONE
Spudded: 11/22/55

LOCATION:
660' FN & 660' FW
SEC 35 20S 29E
EDDY COUNTY, NM

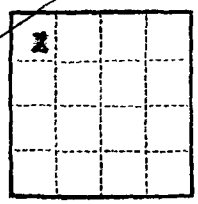
API #:



DRAWN BY: BJG

TD: 6014'

Form 9-331a
(Feb. 1951)



Budget Bureau 42-R358.8.
Approval expires 12-31-55.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office .....
Lease No. [redacted]
Unit .....

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	X
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

[redacted], January, 19 56

Well No. [redacted] is located [redacted] ft. from [N] line and [redacted] ft. from [W] line of sec. [redacted]

[redacted] (¼ Sec. and Sec. No.) [redacted] (Twp.) [redacted] (Range) [redacted] (Meridian)

[redacted] (Field) [redacted] (County or Subdivision) [redacted] (State or Territory)

The elevation of the derrick floor above sea level is [redacted] ft. (D.F.)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

[redacted]

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company [redacted]

Address [redacted]

[redacted]

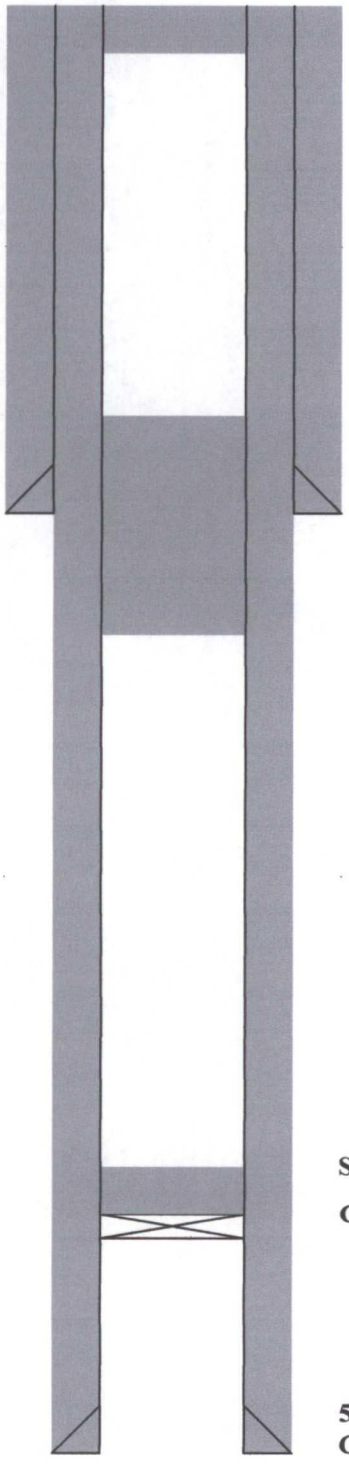
By [redacted]

Title [redacted]

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

SM Energy Company
Osage Federal No. 7
API No. 30-015-26051
1980' FSL & 2080' FWL (Unit K)
Section 35, T-19 South, R-29 East, NMPM

Drilled: 1/1989
Plugged: 5/2008



10 Sx. cmt. @ surface

13 3/8" Csg @ 350'w/400 sx.
Cement circulated to suface.

Set 45 sx. cement plug @ 636'
Tagged plug @ 230'

Set 25 Sx. cement @ 1,330'

CIBP @ 1,330'

5 1/2" Csg. @ 1,700' w/810 sx.
Cement circulated to surface.

T.D. 1,705'

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OM B No 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

5. Lease Serial No.
NM24160

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Osage Federal #7

2. Name of Operator
St. Mary Land & Exploration Company

9. API Well No.
30-015-26051

3a. Address
3300 N. A St. Bldg. 7, Suite 200, Midland, TX 79705

3b. Phone No. *(include area code)*
432-688-1789

10. Field and Pool, or Exploratory Area
Parkway Yates

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1980' FSL & 2080' FWL, Sec. 35, T19S, R29E

JUN 10 2008
OCD-ARTESIA

11. County or Parish, State
Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☑ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

5-2-08 Tag CIBP @ 1330'. Witnessed by Kent Caffall - BLM. Circulate with 9.5# MLF.
Tbg @1330'. Spot 25 sxs 'C' cmt.
Tbg @ 636'. Spot 45 sxs 'C' cmt. WOC & tag. Tag plug @ 230'. K.C. BL.
5-5-08 Tbg @ 60'. Circ 10 sxs 'C' cmt to surface.
Fill Wellbore.
Cut off wellhead & installed dry hole marker.

Accepted for record
NMOCD

ACCEPTED FOR RECORD
JUN 6 2008
J. Amos
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Donna Huddleston Title **Production Tech**

Signature Donna Huddleston Date **06/02/2008**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

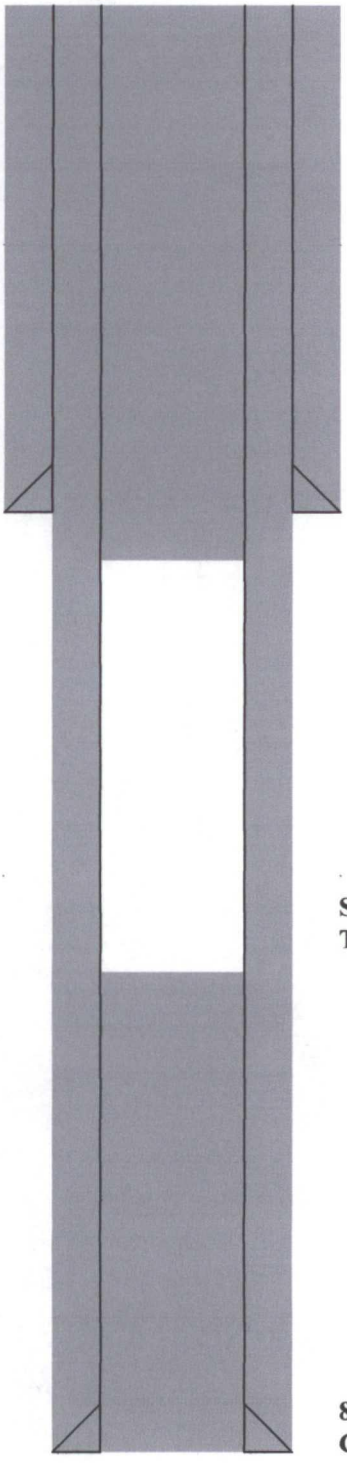
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office

Title 18 USC Section 1001 and Title 43 USC Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Southland Royalty Company
Apache "A" Federal No. 5
API No. 30-015-26291
890' FNL & 840' FWL (Unit D)
Section 35, T-19 South, R-29 East, NMPM

Drilled: 2/1990
Plugged: 1/1991



13 3/8" Csg @ 220'w/350 sx.
TOC @ 20' by T.S.

Set 75 sx. cement plug @ 275'
Cement top @ surface

Set 175 Sx. cement @ 1,538'
Tagged @ 995'

8 5/8" Csg. @ 1,470' w/750 sx.
Cement circulated to surface.

T.D. 1,540'

Form 3160-5
(July 1989)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING OFFICE FOR NUMBER OF COPIES REQUIRED
(Other instructions on reverse side)

BLM Roswell District
Modified Form No.
NM060-3160-4

5. LEASE DESIGNATION AND SERIAL NO.
NM-61582

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-" for such proposals.)

RECEIVED
FEB - 7 1991
O. C. D.
ARTESIA, OFFICE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Southland Royalty Company

8. FARM OR LEASE NAME
Apache "A" Federal

3. ADDRESS OF OPERATOR
21 Desta Dr., Midland, TX 79705

3a. AREA CODE & PHONE NO.
915/686-5600

9. WELL NO.
5

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
890' FNL & 840' FWL

10. FIELD AND POOL, OR WILDCAT
Parkway (Yates)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 35, T19S, R29E

14. PERMIT NO.
30-015-26291

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3311' GR.

12. COUNTY OR PARISH
Eddy

13. STATE
NM

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]				

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Re-entered 1/23/91.

TIH w/TBG to 1538', pumped 175 sx CL C w/4% CaCl2 --WOC 2 hours. Tag cmt @995'. CircCasg W/10# gelled mud. Pulled TBG up to 275'. Mix & pump 75 sx CL C 2% CaCl2. Cmt to Surface.

Plug witnessed by Cathy Queen with BLM.

1/24/91 - Installed dry hole marker & cleaned location.

Pst ID-2
2-8-91
P&A

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Sr. Staff Env./Reg. Spec. DATE 01 February 1991

(This space for Federal or State office use)

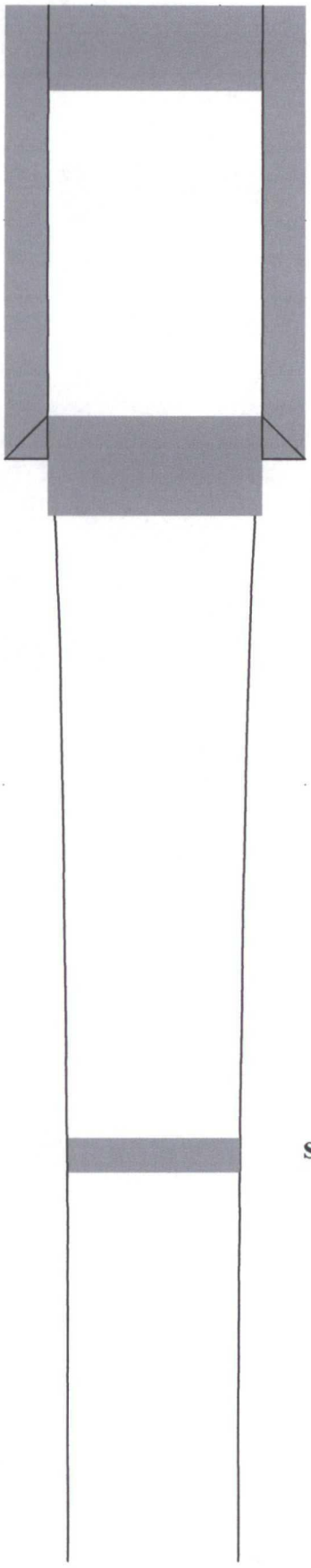
APPROVED BY ________ TITLE ________ DATE 2/6/91

CONDITIONS OF APPROVAL, IF ANY:
Approved as to plugging of the well bore. Liability under bond is retained until surface restoration is completed.

*See Instructions on Reverse Side

SM Energy Company
Parkway Delaware Unit No. 512
API No. 30-015-33713
2615' FSL & 1980' FWL (Unit K)
Section 35, T-19 South, R-29 East, NMPM

Drilled: 1/2005
Plugged: 1/2005



Set 60 sx. cement plug
90'-surface

13 3/8" Csg @ 386' w/600 sx.
Cement circulated to surface

Set 150 sx. cement plug 314'-439'

Set 75 sx. cement plug 1,528'-1664'

T.D. 2,326'

Form 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
NM - 24160

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
Parkway Delaware Unit

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

RECEIVED
FEB 10 2005
OCD-ARTESIA

8. Well Name and No.
PDU #512

2. Name of Operator
St. Mary Land & Exploration Company

9. API Well No.
30-015-33713

3a. Address
580 Westlake Park Blvd., #600, Houston, TX 77079

3b. Phone No. *(include area code)*
281-677-2800

10. Field and Pool, or Exploratory Area
Parkway Delaware

4. Location of Well *(Footage, Sec., T, R., M., or Survey Description)*
2615' FSL & 1980' FWL UL:K, Sec. 35-T19S-R29E, N.M.P.M.

11. County or Parish, State
Eddy

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☑ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Drilled to 2326' and became stuck in the Capitan Reef. Unable to recover dilling tools in hole. P & A as follows:

1/26/2005: Plug #1- 75 sx Premium Plus + 2% Cacl2 @ 1664' to 1528'

Plug #2 - 150 sx Premium Plus + 2% Cacl2 @ 439' to 314'

Plug #3 - 60 sx Premium Plus + 2% Cacl2 @ 90' to surface. Cut off surface casing at 3' below GL and welded on steel plate cap. Installed well maker.

P &A operations were witnessed by BLM representative, Cathy Queen.

Approved as to plugging of the well bore. Liability under bond is retained until surface restoration is competed.

Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Dennis L. Goins

Title Operations Engineer

Signature

Date 2/2/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *(Signature)* (ORIG. SGD.) ALEXIS C. SWOBODA

Name *(Printed/Typed)* PETROLEUM ENGINEER

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

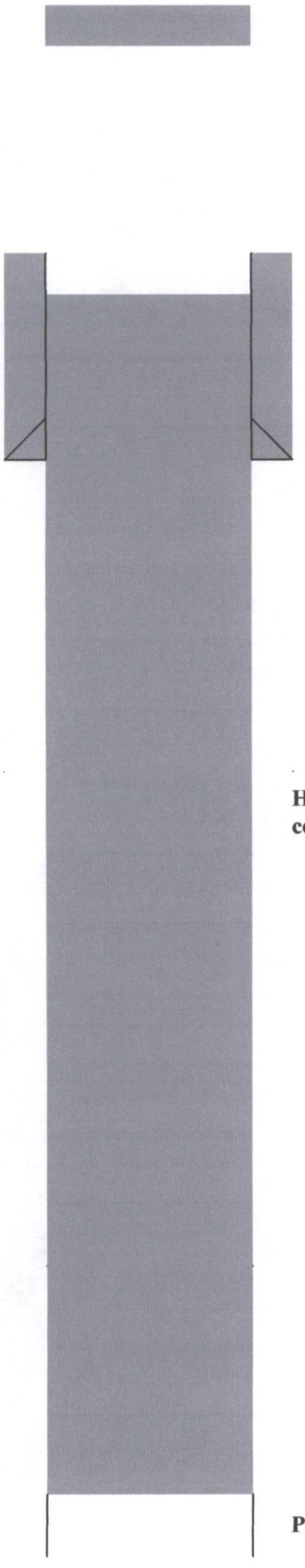
Office RFO

Date FEB 08 2005

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on next page)

James L. Lamb, Jr.
Pan American No. 1
API No. 30-015-03615
330' FSL & 330' FEL (Unit P)
Section 34, T-19 South, R-29 East, NMPM



20' cement
suface plug

Pit mud-20'-212'

Drilled: 8/1962
Plugged: 10/1962

8 5/8" casing cut & pulled @ 129'

8 5/8' Csg @ 392'w/50 sx.
TOC @ 192' (Cut & Pull Depth)

Hole was filled with ready-mix
concrete from 212'-1,485'

Pit Mud-1,485'-1,555'

T. D. 1,555'

Form 9-331a
(Feb. 1951)

Copy to S.F. — N. M. O. C. C. COPY — Unit P.

Budget Bureau No. 42-R358.4.
Form Approved.

(SUBMIT IN TRIPLICATE)

Land Office .....

Lease No. NM 01523-D

Unit P

APPROVED
OCT 10 1962
A. R. BROWN
ACTING DISTRICT ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			
Final Report On Plugged Well	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 8, 1962

Pan American Well No. 1 is located 330 ft. from {N/S} line and 330 ft. from {E/W} line of sec. 34

Subdi. Sec. 34 (¼ Sec. and Sec. No.) | 19-S (Twp.) | 29-E (Range) | N.M.P.M. (Meridian)

Wildcat (Field) | Eddy (County or Subdivision) | New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3321 ft.

RECEIVED
OCT 9 1962
GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

PLUGGING INFORMATION

Filled Hole with pit mud from 1485-1555
Hole was filled with Ready Mix concrete from 212-1485
Used collar buster and knocked off 8 5/8" casing @ 13'
Pulled 129' of 8 5/8" surface casing
Hole was filled with pit mud from 20-212
Regulation Marker and 20' cement plug was set at surface

Location has been cleaned and is now ready for final inspection

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company James L. Lamb, Jr.

Address Box 5305

Midland, Texas

By James L Lamb Jr

Title Owner

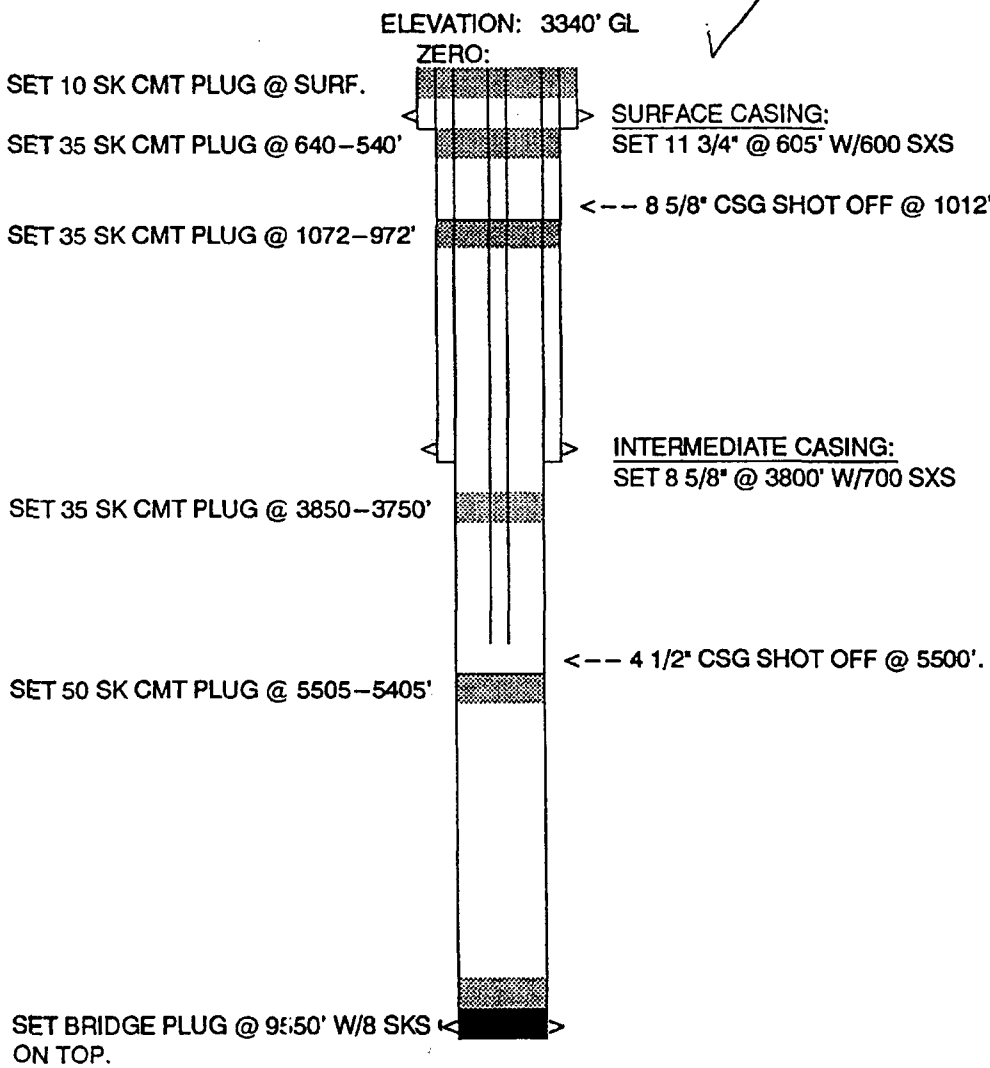
GPO 914974

THE PETROLEUM CORPORATION

WELL: PETCO STATE COM #2
FIELD: PARKWAY
INTERVAL: WOLFCAMP
Comp: 7/4/71
IP: N/A
Spudded: 5/24/71

LOCATION:
660' FSL & 1980' FWL
SEC 26 T19 R29
EDDY COUNTY, NM

API #:



DRAWN BY: BJG

TD: 10685
PBTD: 9651'

NO. OF COPIES RECEIVED	3	
DISTRIBUTION		
SANTA FE	1	
FILE	1	—
U.S.G.S.		
LAND OFFICE		
OPERATOR	1	

RECEIVED
NEW MEXICO OIL CONSERVATION COMMISSION

FEB 24 1972

O. C. C.
ARTESIA, OFFICE

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

5a. Indicate Type of Lease
State [X] Fee [ ]

5. State Oil & Gas Lease No.
L-3355

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.)

1. OIL WELL [X] GAS WELL [ ] OTHER-

7. Unit Agreement Name

2. Name of Operator
THE PETROLEUM CORPORATION

8. Farm or Lease Name
Petco State Com.

3. Address of Operator
3303 Lee Parkway, Dallas, Texas 75219

9. Well No.
2

4. Location of Well
UNIT LETTER N , 660 FEET FROM THE South LINE AND 1980 FEET FROM THE West LINE, SECTION 26 TOWNSHIP 19 RANGE 29 NMPM.

10. Field and Pool, or Wildcat
Parkway Wolfcamp

15. Elevation (Show whether DF, RT, GR, etc.)
GL-3340

12. County
Eddy

16. 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	[ ]			COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[X]
PULL OR ALTER CASING	[ ]	CHANGE PLANS	[ ]	CASING TEST AND CEMENT JOB	[ ]		
OTHER	[ ]			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.

1. Loaded hole w/gel mud.
2. Set bridge plug at 9550' & dump 8 sxs. cement on top.
3. Shot 4-1/2" casing at 5500' & pulled 5500' of 4-1/2" casing.
4. Set 50 sack cement plug 5505 to 5405 feet.
5. Set 35 sack cement plug 3850 to 3750 feet.
6. Shot 8 5/8" casing at 1012 feet and pulled 1012 feet of 8-5/8" casing.
7. Set 35 sack cement plug 1072 to 972 feet.
8. Set 35 sack cement plug 640 to 540 feet.
9. Set 10 sack cement plug at surface.
10. Installed 4 inch marker 2-14-72

Prepare to clean up location -- will advise when ready for inspection.

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

SIGNED Larry C. Shaw TITLE Petroleum Engineer DATE Feb. 21, 1972

APPROVED BY Jackson C. Williams TITLE OIL AND GAS INSPECTOR DATE JUN 14 1972

CONDITIONS OF APPROVAL, IF ANY:

Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	SM Energy Company	Sample #:	7061
Area:	Artesia	Analysis ID #:	9103
Lease:	PARKWAY DELAWARE STATE		
Location:	702 3001526026		
Sample Point:	Wellhead		

Sampling Date:	11/16/2011
Analysis Date:	11/23/2011
Analyst:	Catalyst
TDS (mg/l or g/m3):	40779.4
Density (g/cm3):	1.03
Hydrogen Sulfide:	170
Carbon Dioxide:	13.2
Comments:	

Anions	mg/l	meq/l
Chloride:	22107.7	623.58
Bicarbonate:	207.4	3.4
Carbonate:		
Sulfate:	3100.0	64.54

pH at time of sampling:	7.4
pH at time of analysis:	
pH used in Calculation:	7.4
Temperature @ lab conditions (F):	75

Cations	mg/l	meq/l
Sodium:	12980.0	564.6
Magnesium:	545.8	44.9
Calcium:	1447.0	72.21
Potassium:	338.8	8.66
Strontium:	52.6	1.2
Barium:	0.0	0.
Iron:	0.0	0.
Manganese:	0.078	0.

Conductivity (micro-ohms/cm):	54100
Resistivity (ohm meter):	.1848

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp	Calcite $CaCO_3$		Gypsum $CaSO_4*2H_2O$		Anhydrite $CaSO_4$		Celestite $SrSO_4$		Barite $BaSO_4$	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
100	0.69	13.81	-2.22	0.00	-2.21	0.00	-1.83	0.00	0.00	0.00
120	0.76	16.51	-2.24	0.00	-2.14	0.00	-1.82	0.00	0.00	0.00
140	0.82	19.54	-2.25	0.00	-2.06	0.00	-1.80	0.00	0.00	0.00
160	0.89	22.91	-2.25	0.00	-1.96	0.00	-1.77	0.00	0.00	0.00
180	0.96	26.62	-2.24	0.00	-1.84	0.00	-1.74	0.00	0.00	0.00
200	1.04	30.32	-2.23	0.00	-1.71	0.00	-1.71	0.00	0.00	0.00
220	1.12	33.69	-2.22	0.00	-1.57	0.00	-1.67	0.00	0.00	0.00

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00739			ED	3	4	4	35	19S	29E	589246	3608217	200	110	90

Average Depth to Water: **110 feet**

Minimum Depth: **110 feet**

Maximum Depth: **110 feet**

Record Count: 1

PLSS Search:

Section(s): 35 **Township:** 19S **Range:** 29E

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 29253
SAMPLE RECEIVED 2-5-92
RESULTS REPORTED 2-12-92

TO: Mr. Robert Lee
P. O. Box 2523, Roswell NM 88202

COMPANY Siete Oil & Gas Corporation LEASE Proposed Parkway Delaware Waterflood
FIELD OR POOL Parkway (Delaware)
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Eddy STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from Osage #8 water supply well.
NO. 2 Produced water - taken from Osage #1.
NO. 3 Disposal water - taken from Tuesday Federal Salt Water Disposal.
NO. 4 Raw water - taken from Amax water well.

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0045	1.1570	1.1352	1.1396
pH When Sampled				
pH When Received	4.73	6.94	6.96	7.68
Bicarbonate as HCO_3	78	66	146	200
Supersaturation as $CaCO_3$	---	8	12	4
Undersaturation as $CaCO_3$	236	---	---	---
Total Hardness as $CaCO_3$	2,040	59,000	49,000	16,000
Calcium as Ca	656	19,200	15,600	1,920
Magnesium as Mg	97	2,673	2,430	2,722
Sodium and/or Potassium	331	65,293	54,200	74,895
Sulfate as SO_4	1,552	589	461	6,169
Chloride as Cl	767	142,038	117,892	122,153
Iron as Fe	1.0	10.8	4.1	0.04
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	3,481	229,858	190,729	208,059
Temperature °F.				
Carbon Dioxide, Calculated	0	14	23	7
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	2.01	0.052	0.060	0.057
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

RECEIVED
FEB 21 1992

Form No. 3

By

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 29253 (Page 2)

TO: Mr. Robert Lee
P. O. Box 2523 Roswell, NM 88202

SAMPLE RECEIVED 2-5-92
RESULTS REPORTED 2-12-92

COMPANY Siete Oil & Gas Corporation LEASE Proposed Parkway Delaware Waterflood
FIELD OR POOL Parkway (Delaware)
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Eddy STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Raw water - taken from Eddy Potash water well.
NO. 2 Amax Lake Water.
NO. 3
NO. 4
REMARKS: Mixed Water System

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1657	1.2273		
pH When Sampled				
pH When Received	7.66	7.82		
Bicarbonate as HCO_3	120	102		
Supersaturation as $CaCO_3$	4	0		
Undersaturation as $CaCO_3$	--	--		
Total Hardness as $CaCO_3$	17,000	19,500		
Calcium as Ca	2,480	920		
Magnesium as Mg	2,624	4,180		
Sodium and/or Potassium	91,035	129,126		
Sulfate as SO_4	4,344	7,428		
Chloride as Cl	149,140	207,375		
Iron as Fe	0.54	0.54		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	249,743	349,132		
Temperature °F.				
Carbon Dioxide, Calculated	4	3		
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	0.051	0.041		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: Letter of recommendation attached.

Form No. 3

By W. F. Martin

Form C-108
Affirmative Statement
SM Energy Company
Parkway Delaware Unit Wells No. 519, 520 & 521
Section 35, T-19S, R-29E, NMPM
Eddy County, New Mexico

Available geologic and engineering data have been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

Ann Ritchie
Regulatory Agent
SM Energy Company

4-18-12
Date

Form C-108
SM Energy Company
Parkway Delaware Unit Wells No. 519, 520 & 521
Section 35, T-19 South, R-29 East, NMPM,
Eddy County, New Mexico

Legal notice will be published in the:

Artesia Daily Press
P.O. Box 190
Artesia, New Mexico 88211-0190

A copy of the legal advertisement will be forwarded to the Division upon publication.

SM Energy Company c/o P.O. Box 953, Midland, Texas 79702, has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to convert the following-described wells to water injection wells within the Parkway Delaware Unit Pressure Maintenance Project, Parkway-Delaware Pool, Eddy County, New Mexico:

Parkway Delaware Unit No. 519: (API No. 30-015-39878) 1980' FSL & 1380' FWL (Unit K) Section 35, Township 19 South, Range 29 East. Injection Interval: Selected perforated intervals from 3,864'-4,338' (Cherry Canyon Unitized Interval)

Parkway Delaware Unit No. 520: (API No. 30-015-39879) 2450' FNL & 1330' FWL (Unit F) Section 35, Township 19 South, Range 29 East. Injection Interval: Selected perforated intervals from 3,864'-4,338' (Cherry Canyon Unitized Interval)

Parkway Delaware Unit No. 521: (API No. 30-015-39880) 1420' FNL & 1330' FWL (Unit F) Section 35, Township 19 South, Range 29 East. Injection Interval: Selected perforated intervals from 3,864'-4,338' (Cherry Canyon Unitized Interval)

The average and maximum injection rates will be 500 and 1,500 barrels of water per day, respectively, and the average and maximum surface injection pressure is anticipated to be 773 psi and 1,280 psi, respectively.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Ms. Ann Ritchie, Regulatory Agent, SM Energy Company at (432) 684-6381