

SUSPENSE

ENGINEER

LOGGED IN

TYPE

APP NO.

6/12/03

WJS

RN

SWD

PKR10315353752

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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

ABOVE THIS LINE FOR DIVISION USE ONLY

ADMINISTRATIVE APPLICATION CHECKLIST

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

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]

- [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
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
WFX PMX **SWD** IPI EOR PPR
- [D] Other: Specify _____

*Rec: 5-28-2003
1:45 PM*

DOMINION'S
FEDERAL WDW 32 #44
SAN JUAN COUNTY, NM

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or _ Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [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

*Reviewed
6/8/03 WJS
LOOKS OK*

[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.

Print or Type Name

Signature

Title

Date

BRIAN WOOD
(505) 466-8120
FAX 466-9682

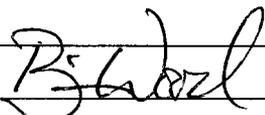
CONSULTANT

5-27-03

e-mail Address

brian@permitswest.com

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XXX Disposal _____ Storage
Application qualifies for administrative approval? XXX Yes _____ No
- II. OPERATOR: DOMINION OKLAHOMA TEXAS EXPLORATION & PRODUCTION, INC.
ADDRESS: 14000 QUAIL SPRINGS PARKWAY, SUITE 600, OKLAHOMA CITY, OK 73134
CONTACT PARTY: BRIAN WOOD c/o PERMITS WEST, INC. PHONE: 505 466-8120
- 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 XXX No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate 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: BRIAN WOOD TITLE: CONSULTANT
SIGNATURE:  DATE: 5-27-03
- * 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: _____

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.

INJECTION WELL DATA SHEET

DOMINION OKLAHOMA TEXAS EXPLORATION & PRODUCTION, INC.

OPERATOR: _____

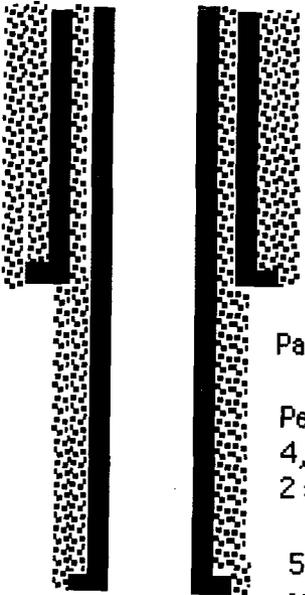
WELL NAME & NUMBER: _____ FEDERAL WDW 32 #44

WELL LOCATION: 700' FSL & 700' FEL	P	32	27N	11W
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing



8-5/8" 24# J-55
set @ 300' and cemented
to the surface with 100% excess

Packer @ 4,080'

Perforate (0.375") from
4,130' to 4,470' with
2 shots per foot

5-1/2" 17# J-55
set @ 4,550' and cemented
to the surface with 20% excess

Hole Size: 12-1/4" Casing Size: 8-5/8" @ 300'
 Cemented with: 165 sx. or 251 ft³
 Top of Cement: SURFACE Method Determined: VISUAL &
TEMP. SURVEY

Intermediate Casing

Hole Size: _____ Casing Size: _____
 Cemented with: _____ sx. or _____ ft³
 Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2" @ 4,550'
 Cemented with: 820 sx. or 951 ft³
 Top of Cement: SURFACE Method Determined: VISUAL &
 Total Depth: 4,550' **BOND LOG**

Injection Interval

4,130' feet to 4,470'

(Perforated or Open Hole; indicate which)

DOMINION OKLAHOMA TEXAS EXPLORATION & PRODUCTION, INC.
FEDERAL WDW 32 #44
700' FSL & 700' FEL
SEC. 32, T. 27 N., R. 11 W.
SAN JUAN COUNTY, NEW MEXICO

PAGE 1

I. Purpose is water disposal.

II. Operator: Dominion Oklahoma Texas Exploration & Production, Inc.
Operator phone number: (405) 748-2759
Operator address: 14000 Quail Springs Parkway, #600
Oklahoma City, OK 73134
Contact: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: BLM lease NMSF-078896
Lease Size: 1,920 acres
Lease Area: all within T. 27 N., R. 11 W.
all Section 29
NE4 Section 30
N2 & SE4 Section 32
all Section 33
Closest Lease Line: 700'
Well Name & Number: Federal WDW 32 #44
Well Location: 700' FSL and 700' FEL Sec. 32, T. 27 N., R. 11 W.
(see Exhibit A)

A. (2) Surface casing (8-5/8", 24#, J-55) will be set at ≈300' in a 12-1/4" hole and cemented to the surface. Cement will be ≈165 sacks (= 100% excess) Class III + 2% CaCl₂ + 1/4 pound per sack cello flake. Yield = 1.52 cubic feet per sack. Weight = 14.5 pounds per gallon. If cement does not circulate, a temperature survey will be run to find the T. O. C. and will then finish cementing to the surface through 1" pipe. Centralizers will be set @ ≈260', ≈220', and ≈180'.

Production casing (5-1/2", 17#, J-55) will be set at ≈4,550' in a 7-7/8" hole and cemented to the surface. T. O. C. will be determined by visual observation and bond log. Cement will be ≈820 (≥20% excess) sacks BJ Premium Lite High Strength FM + 10%

gypsum + 5% polymer + 1/4 pound per sack cello flake. Yield = 1.16 cubic feet per sack. Weight = 13.5 pounds per gallon. Volumes will be determined by caliper. Centralizers will be set on top of the shoe joint and every other joint to $\approx 1,000'$. A cement basket will be set every 600'.

U. S. Environmental Protection Agency Method B will be used for the mechanical integrity test. Pressure/vacuum gauge will be installed and checked weekly to monitor down hole conditions once operational.

- A. (3) Tubing will be plastic coated 2-3/8" 4.7# J-55 injection string. It will be set at $\approx 4,100'$.
- A. (4) A Baker packer or its equivalent will be set at $\approx 4,080'$ ($\approx 50'$ above the top perforation at $\approx 4,130'$).
- B. (1) Disposal zone will be the Point Lookout sandstone member of the Mesa Verde sandstone. Fracture gradient is expected to be normal ≈ 0.58 psi per foot.
- B. (2) Disposal interval will be $\approx 4,130'$ to $\approx 4,470'$ (well logs will determine exact interval after drilling). It will be perforated (0.375") with two shots per foot.
- B. (3) Well has not yet been drilled. It will be drilled for the exclusive use by Dominion and for the sole purpose of water disposal from present and future Dominion wells. Water analyses from Dominion wells in the Fruitland coal and Pictured Cliffs are attached.
- B. (4) Well bore has not yet been perforated since it has not been drilled. It will be perforated from $\approx 4,130'$ to $\approx 4,470'$ (logs will determine exact interval after drilling).
- B. (5) Top of the Point Lookout is at $\approx 4,094'$. Gas is produced elsewhere in the San Juan Basin from the Point Lookout as part of the Blanco Mesa Verde field. Closest Mesa Verde production is 10+ miles northeast. Bottom of the closest overlying productive zone (Pictured Cliffs) is at $\approx 1,805'$. There will be a $\approx 2,325'$ interval between the highest injection perforation and the bottom of the Pictured Cliffs. Closest underlying productive formation is the

Gallup. Top of the Gallup is at ≈5,200'. There will be a ≈730' interval between the lowest injection perforation (≈4,470') and the top of the Gallup. Most of the intervening strata is Mancos shale.

IV. This is not an expansion of an existing injection project.

V. A map (See Exhibit B) is attached showing all 4 well bores (2 P & A + 1 existing gas + 1 planned Dominion gas) within a half mile radius and all 78 (1 water + 30 P & A + 47 oil or gas) existing well bores within a two mile radius. Details on the wells within a half mile radius are below.

<u>OPERATOR</u>	<u>WELL</u>	<u>LOCATION</u>	<u>ZONE</u>	<u>TD</u>	<u>STATUS</u>	<u>DISTANCE</u>
Depco	Fed. 32-44	SESE 32-27n-11w	PC	1,870'	P & A	458'
Beta-Mesa	Henderson 1	NENE 5-26n-11w	Dakota	6,400'	P & A	1,492'
Dominion	Henderson 5-1	NENE 5-26n-11w	Fruit. Coal & PC	2,000'	Planned	1,580'
Dominion	Fed. 33-24	SESW 33-27n-11w	PC	1,900'	Gas Well	2,205'

A map (see Exhibit C) showing all leases (3 BLM + 1 allotted lease) within a half mile and all leases within two miles is attached. Except for an allotted lease comprising SW4 32-27n-11w, all other leases in the 2 mile radius are BLM. Details on the leases within a half mile are:

<u>AREA</u>	<u>TYPE LEASE</u>	<u>LEASE #</u>	<u>LESSEE(S)</u>
E2 32 & W2 33 27n-11w	BLM	NMSF-078896	Dominion Burlington ConocoPhillips El Paso Natural Gas XTO Energy
SW4 32 27n-11w	Navajo Allotment	I-149-Ind-9110	ConocoPhillips
NW4 4 26n-11w	BLM	NMSF-078641A	ConocoPhillips Energen Resources J G & R V Merrion Trust Merrion Oil & Gas Corp.

<u>AREA</u>	<u>TYPE LEASE</u>	<u>LEASE #</u>	<u>LESSEE(S)</u>
N2 5 26n-11w	BLM	NMNM-0359212	Dominion Burlington ConocoPhillips El Paso Natural Gas XTO Energy

VI. Three existing wells and one planned well are within a half mile. Only one (Henderson 1) of the four did or will penetrate the Point Lookout. See Exhibit D for a profile, construction details, and plugging Sundry of the P & A Henderson.

- VII. 1. Average injection rate = 1,000 bwpd. Maximum = 2,000 bwpd.
 2. System will be open (water will be trucked). Facilities will include four ≈400 barrel water tanks, filtration unit, and injection pump.
 3. Average injection pressure = 1,000 psi
 Maximum pressure = 1,500 psi
 4. Water source will be present and future Dominion wells in the San Juan Basin... Five produced water analyses (Exhibit E) from the Pictured Cliffs and Fruitland are attached. Averages follow. No local sample exists from the Point Lookout.

Calcium	472 mg/l
Iron	186 mg/l
Magnesium	258 mg/l
Potassium	120 mg/l
Sodium	21,340 mg/l
Chloride	32,460 mg/l
Sulfate	17 mg/l
Alkalinity Bicarbonate (as CaCO ₃)	547 mg/l CaCO ₃
Alkalinity Total (as CaCO ₃)	547 mg/l CaCO ₃
Hardness (as CaCO ₃)	2,244 mg/l
pH	6.9 pH units
Resistivity	0.13 ohms
Specific Gravity	1.04 units
Total Dissolved Solids (residue allowable)	53,180 mg/l
Total Dissolved Solids (calculated)	55,800 mg/l

5. The Point Lookout has not been proven productive within two miles of the proposed well. (Dominion will attempt to swab load water back after stimulation and take a Point Lookout water sample. If successful, then the analysis will be provided to the New Mexico Oil Conservation Division.) According to Stone et al in Hydrogeology and water resources of San Juan Basin, New Mexico, Point Lookout water generally has a specific conductance of >1,500 μ mhos. Point Lookout water from deeper parts of the basin can have a specific conductance of >59,000 μ mhos. Summaries of analyses of Mesa Verde water follow (also see Exhibit F).

Parameter	Sanchez O'Brien #1	GCU #13	King Gas Comm. #1
Bicarbonate	548 mg/l	1,780 mg/l	14,152 mg/l
Calcium	336 mg/l	76 mg/l	40 mg/l
Carbonate	-	-	1,200 mg/l
Chloride	22,137 mg/l	12,600 mg/l	10,600 mg/l
Hydrogen Sulfide	No Trace	-	-
Iron	3 mg/l	-	1.9 mg/l
Magnesium	57 mg/l	12 mg/l	73 mg/l
pH	7.23	7.6	8.4
Potassium	84 mg/l	-	-
Resistivity	0.16 ohms @ 76° F	0.38 ohms @ 66° F	-
Sodium	-	8,700 mg/l	-
Sodium Chloride	36,415 mg/l	-	-
Sodium + Potassium	14,075 mg/l	-	-
Sulfate	0 mg/l	-	90 mg/l
Specific Gravity	1.025	1.0174	-
Total Hardness	1,074 mg/l	-	8 mg/l
Total Dissolved Solids	37,823 mg/l	23,000 mg/l	-
Location	13-28n-13w	6-24n-9w	-
Distance	15 miles SW	16 miles NNW	-

VIII. The Point Lookout sandstone is a shoreline marine sandstone. It produces gas elsewhere in the basin (e. g., Blanco Mesa Verde). It is estimated it will be \approx 371' thick in the well bore. Top will be \approx 4,094'. Bottom will be \approx 4,465'. Estimated well bore formation tops are:

Nacimiento Mudstone & Sandstone: 0'
 Ojo Alamo Sandstone: 579'

Kirtland Shale: 709'
Fruitland formation: 1,291'
Upper Basal Fruitland Coal: 1,567'
Basal Fruitland Coal: 1,637'
Pictured Cliffs Sandstone: 1,654'
Base of Pictured Cliffs: 1,805'
Huerfanito Bentonite: 2,045'
Cliff House Sandstone: 2,525'
Menefee Formation: 3,255'
Point Lookout Sandstone: 4,094'
Mancos Shale: 4,466'
Total Depth: 4,550'

There is only one water well within a two mile radius. It is $\approx 3,057'$ southeast and 230' deep. Water bearing strata are 0' to 708'. The well bore is in the Nacimiento. No existing underground drinking water sources are below the Point Lookout within a two mile radius. There will be $\approx 3,864'$ vertical separation between the bottom of the lowest existing underground water source and the top of the Point Lookout.

IX. The well will be stimulated with a gelled water frac and $\approx 84,000$ pounds of 20/40 sand.

X. DIL log will be run from TD to surface. GR/CNL/CDL, ML, CBL/GR logs will be run from TD to bottom of surface casing. Copies will then be provided to the NMOCD.

XI. There are no water wells within two miles which penetrate the Point Lookout. The only water well within two miles is 230' deep and $\approx 3,057'$ southeast.

XII. Dominion is not aware of any geologic or engineering data which indicate the Point Lookout is in hydrologic connection with any underground sources of

DOMINION OKLAHOMA TEXAS EXPLORATION & PRODUCTION, INC.
FEDERAL WDW 32 #44
700' FSL & 700' FEL
SEC. 32, T. 27 N., R. 11 W.
SAN JUAN COUNTY, NEW MEXICO

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water. There will be $\approx 3,864'$ of vertical separation and three shale or bentonite zones (Kirtland (581' thick), Huerfanito (479' thick), and Menefee (838')) between the top (3,534') of the Point Lookout and the bottom (230') of the closest water well.

XIII. Notice (this application) has been sent to the surface owner (Navajo Nation), operators of all wells (only Dominion), and lease operating right holders (Dominion, Burlington, ConocoPhillips, El Paso, Energen, and Merrions), and lessors (BLM and allotted (c/o FIMO)) within a half mile. A legal ad (see Exhibit G) was published on February 26, 2003.

Market I
 PO Box 1900, Hobbs, NM 88241-1900
 Market II
 811 South First, Artesia, NM 88210
 Market III
 1000 Nio Branso Rd., Aztec, NM 87410
 District IV
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

Form C-102
 Revised October 18, 1994
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* APT Number		* Pool Code		POINT LOOKOUT WATER DISPOSAL			
* Property Code		FEDERAL WDW 32			* Property Name		* Well Number #44
* UGRID No. 025773		* Operator Name Dominion Exploration & Production Inc.				* Elevation 6191	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P.	32	27N	11W		700	South	700	East	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

" Dedicated Acres	" Joint or Infill	" Consolidation Code	" Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16									

700'

17 OPERATOR CERTIFICATION

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

Brian Wood

Signature

BRIAN WOOD

Printed Name

CONSULTANT

Title

JAN. 24, 2003

Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

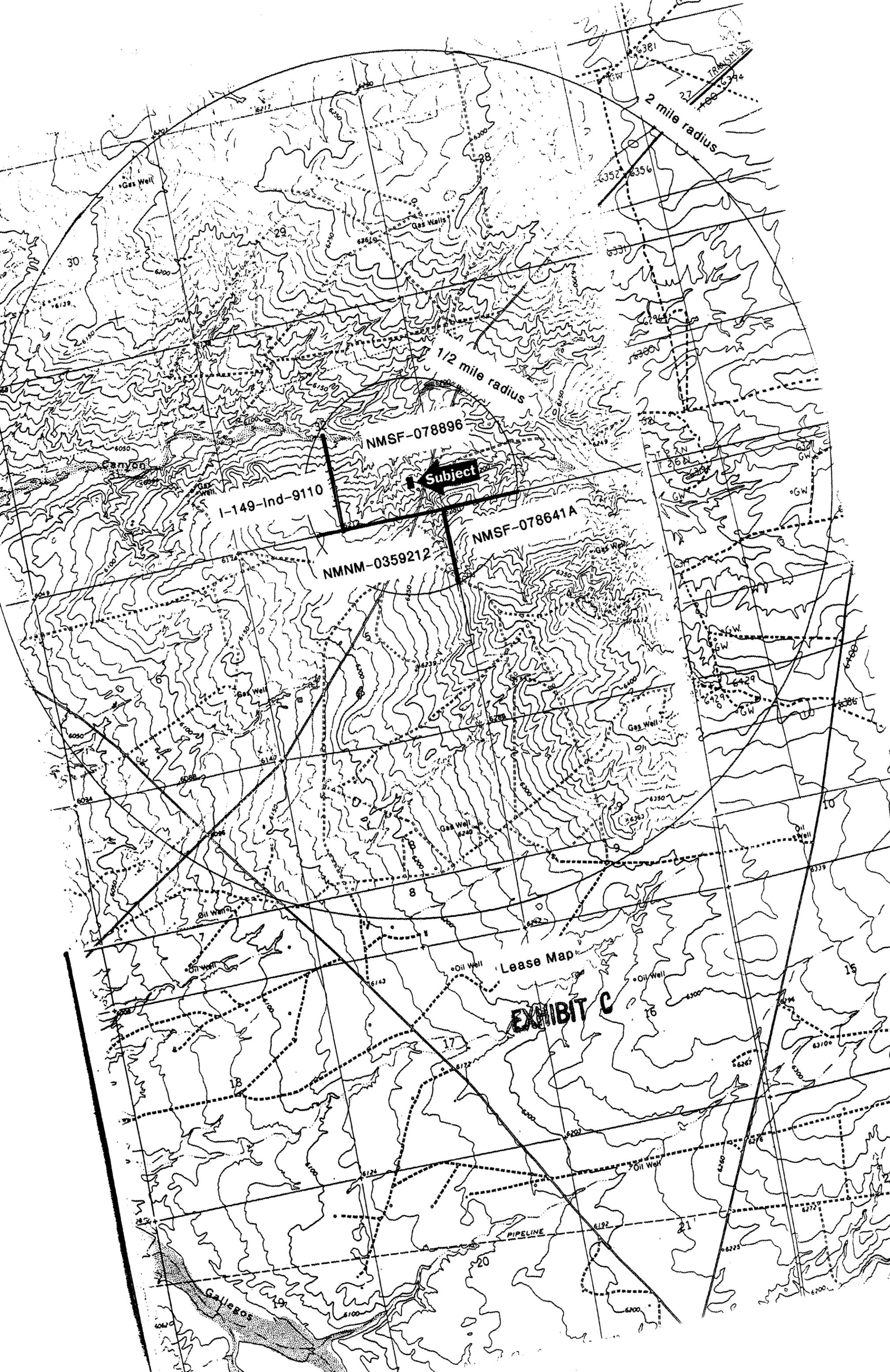
July 18, 2002

Date of Survey

Cecil B. Tullis

Signature and Seal of Professional Surveyor

EXHIBIT A



HENDERSON 1

10-3/4" 32.5#
set @ 209' in
13-3/4" hole

Cemented to surface
with 150 sx

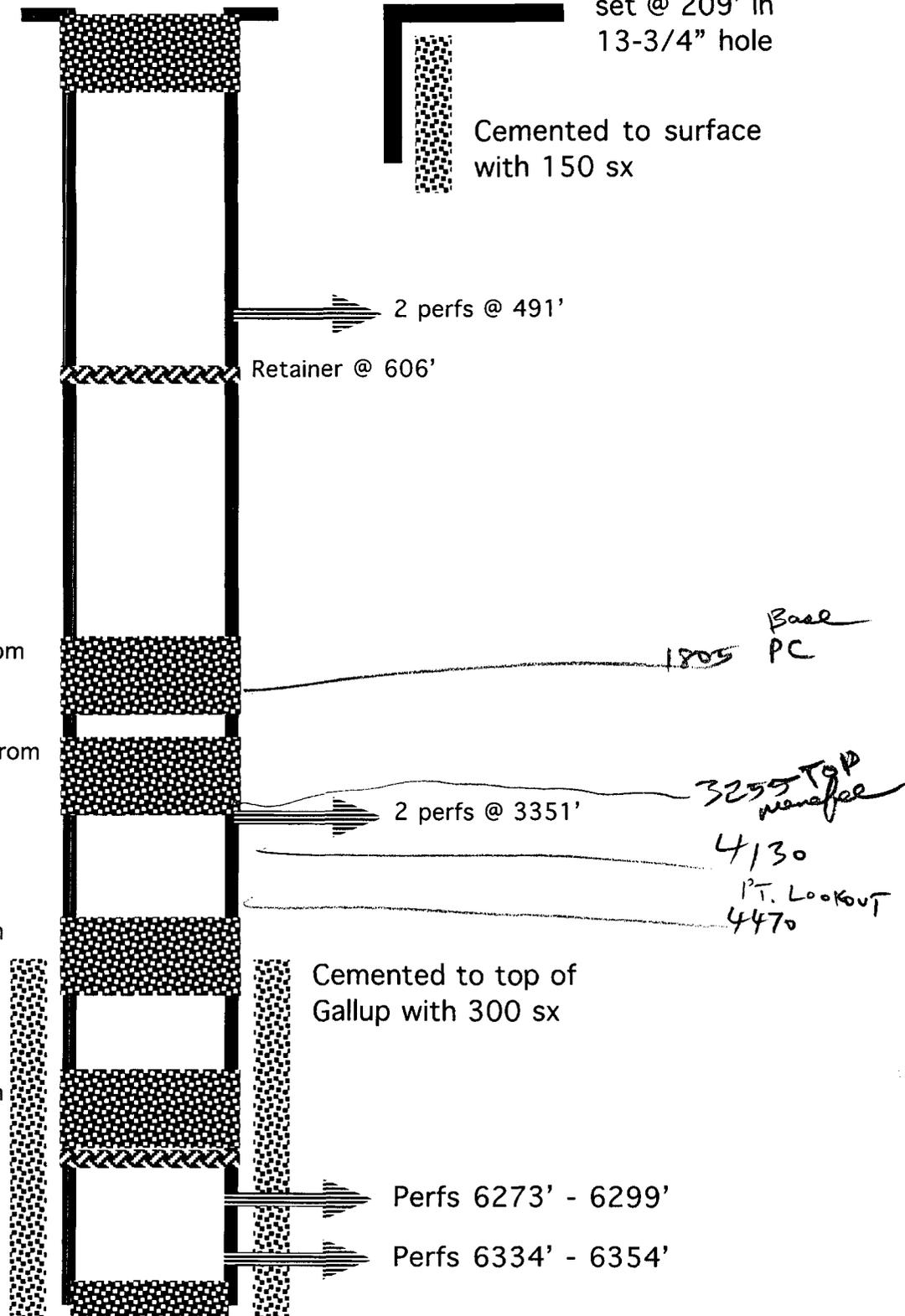
Set retainer @ 606'
Tested annulus to 1500 psi
Pumped 400 sx down tubing
Squeezed below retainer
Opened annulus
Pumped 260 sx through retainer
Perforated @ 491'
Pumped 300 sx
Cement returns to surface

Plug w/ 95 sx from
2032' - 776'

Plug w/ 100 sx from
3350' - 2032'

Plug w/ 45 sx from
5399' - 4805'

Plug w/ 15 sx from
6160' - 5964'
CIBP @ 6160'



2 perms @ 491'

Retainer @ 606'

Base
1805
PC

2 perms @ 3351'

3250 Top
manifold
4130
PT. LOOKOUT
4470

Cemented to top of
Gallup with 300 sx

Perfs 6273' - 6299'

Perfs 6334' - 6354'

PBTD = 6378' 4-1/2" 10.5#
TD = 6401' set @ 6400'

Spudded: 6-12-61
Plugged: 10-6-88

EXHIBIT D

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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
MAIL ROOM
88 OCT 31 PM 1:33
FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

5. LEASE DESIGNATION AND SERIAL NO. NM-0359212

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME HENDERSON FEDERAL

9. WELL NO. #1

10. FIELD AND POOL, OR WILDCAT Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5-26N-11W

12. COUNTY OR PARISH San Juan

13. STATE NM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6234' GR

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR Beta Development Company

3. ADDRESS OF OPERATOR c/o Mesa Operating Ltd Partnership, P.O.Box 2009, Amarillo, TX

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface 790' FNL/790' FEL

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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.)*

MI & RU Big A # 6 on 10/3/88 to plug and abandon as follows: Tagged CIBP @ 6160'. Pmpd 225 bbls 9.1 ppg 53 vis mud. Pump down annulus; circ up tubing; set packer press to 1000 psig below packer; POH to 3314'; pumped 3 bbls down tbg w/3000 psig; circ up 4 1/2" csg; RU Western; spotted 15 sx cement Class "B" from 6160'-5964'; spotted 45 sx Class "B" cmt plug from 5399'-4805'; RIH w/WL; perf's @ 3351'; RU Western, mixed & spotted 100 sx cement plug from 3350'-2032'; mixed & spotted 95 sx plug from 2032'-776'; set retainer @ 606'; tstd annulus to 1500 psig; mixed & pumped 400 sx down tubing and squeezed below retainer; opened 10 3/4" x 4 1/2" annulus and mixed & pumped 260 sx Class "B" cement thru retainer w/mud returns on 10 3/4" x 4 1/2" annulus. No cement returns to surface. Perf'd @ 491'; broke circ down 4 1/2" csg and up 10 3/4" x 4 1/2" annulus. Mixed & pmpd 300 sx Class "B" cement. Had cement returns to surface. ND BOP's, Cut off wellhead. Installed dry hole marker. Witnessed by Mark Philliber w/BLM. Well PUA 10/6/88.

Approved as to plugging of _____

RECEIVED
NOV 07 1988
OIL CON. DIV.
DIST. 3

xc: BLM-F (0+5), Prod Rcds, Reg, Land, Expl.

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

SIGNED Carolyn McKee TITLE Regulatory Analyst DATE 10/28/88

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

EXHIBIT D

*See Instructions on Reverse Side

612 E. Murray Drive
Farmington, NM 87401

iiná bá

P.O. Box 2606
Farmington, NM 87499

Off: (505) 327-1072

Fax: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Dominion E & P
Work Order: 0303011
Project: Produced Water
Lab ID: 0303011-001A

Client Sample Info: Produced Water
Client Sample ID: Mudge A #9 (From Hand Coal)
Collection Date: 3/12/2003 8:52:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		SW6010B		Analyst: DJC		
Calcium	421	100		mg/L	100	3/17/2003
Iron	86.6	2.40		mg/L	100	3/19/2003
Magnesium	252	0.700		mg/L	100	3/21/2003
Potassium	92.3	6.20		mg/L	100	3/21/2003
Sodium	21500	18.0		mg/L	1000	3/21/2003
ANIONS BY ION CHROMATOGRAPHY		E300		Analyst: HNR		
Chloride	37500	300		mg/L	5000	3/19/2003
Sulfate	ND	10.0		mg/L	100	3/18/2003
ALKALINITY, TOTAL		M2320 B		Analyst: HNR		
Alkalinity, Bicarbonate (As CaCO ₃)	630	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Total (As CaCO ₃)	630	5		mg/L CaCO ₃	1	3/20/2003
HARDNESS, TOTAL		M2340 B		Analyst: HNR		
Hardness (As CaCO ₃)	2000	1		mg/L	1	3/21/2003
PH		E150.1		Analyst: HNR		
pH	6.70	2.00		pH units	1	3/13/2003
Temperature	20.0	0		Deg C	1	3/13/2003
RESISTIVITY (@ 25 DEG. C)		M2510 C		Analyst: HNR		
Resistivity	0.121	0.001		ohm-cm	1	3/18/2003
SPECIFIC GRAVITY		M2710 F		Analyst: HNR		
Specific Gravity	1.040	0.001		Units	1	3/18/2003
TOTAL DISSOLVED SOLIDS		E100.1		Analyst: HNR		
Total Dissolved Solids (Residue, Filterable)	57000	40		mg/L	1	3/18/2003
TOTAL DISSOLVED SOLIDS		CALC		Analyst: HNR		
Total Dissolved Solids (Calculated)	59800	5		mg/L	1	3/24/2003

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
 C - Analyte detected below Practical Quantitation Limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted precision limits
 F - Value above Upper Quantitation Limit (UQL)

612 E. Murray Drive
Farmington, NM 87401

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P.O. Box 2606
Farmington, NM 87499

Off: (505) 327-1072

Fax: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Dominion E & P
Work Order: 0303011
Project: Produced Water
Lab ID: 0303011-002A

Client Sample Info: Produced Water
Client Sample ID: Hancock 42-12 (Frac. H₂ & Coal)
Collection Date: 3/12/2003 10:45:00 AM
Matrix: AQUEOUS

Parameter	Result	FQI	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED						
		SWG010B				Analyst: DJC
Calcium	238	1.00		mg/L	100	3/17/2003
Iron	207	2.40		mg/L	100	3/19/2003
Magnesium	190	0.700		mg/L	100	3/21/2003
Potassium	64.1	6.20		mg/L	100	3/21/2003
Sodium	16900	1.00		mg/L	100	3/21/2003
ANIONS BY ION CHROMATOGRAPHY						
		E300				Analyst: HNR
Chloride	24900	300		mg/L	5000	3/19/2003
Sulfate	ND	10.0		mg/L	100	3/18/2003
ALKALINITY, TOTAL						
		M2320 B				Analyst: HNR
Alkalinity, bicarbonate (As CaCO ₃)	438	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Total (As CaCO ₃)	438	5		mg/L CaCO ₃	1	3/20/2003
HARDNESS, TOTAL						
		M2340 B				Analyst: HNR
Hardness (As CaCO ₃)	1000	1		mg/L	1	3/24/2003
PH						
		E150.1				Analyst: HNR
pH	6.34	2.00		pl Units	1	3/13/2003
Temperature	22.0	0		Deg C	1	3/13/2003
RESISTIVITY (@ 25 DEG. C)						
		M2510 C				Analyst: HNR
Resistivity	0.150	0.001		ohm-cm	1	3/18/2003
SPECIFIC GRAVITY						
		M2710 F				Analyst: HNR
Specific Gravity	1.030	0.001		Units	1	3/18/2003
TOTAL DISSOLVED SOLIDS						
		E160.1				Analyst: HNR
Total Dissolved Solids (Residue, Filtrate)	41800	40		mg/L	1	3/18/2003
TOTAL DISSOLVED SOLIDS						
		CALC				Analyst: HNR
Total Dissolved Solids (Calculation)	42600	5		mg/L	1	3/24/2003

Qualifiers:
 ND - Not Detected at the Practical Quantitation Limit
 J - Analyte detected below Practical Quantitation Limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted precision limits
 F - Value above Upper Quantitation Limit - (UQL)

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

EXHIBIT E

612 E. Murray Drive
Farmington, NM 87401

iiná bá

P.O. Box 2606
Farmington, NM 87499

Off: (505) 327-1072

Fax: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Dominion E & P
Work Order: 0303011
Project: Produced Water
Lab ID: 0303011-004A

Client Sample Info: Produced Water
Client Sample ID: Hancock #4 (Fruitland Coal)
Collection Date: 3/12/2003 10:57:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		SW6010B		Analyst: DJC		
Calcium	466	1.00		mg/L	100	3/17/2003
Iron	ND	2.40		mg/L	100	3/19/2003
Magnesium	300	0.700		mg/L	100	3/21/2003
Potassium	18.3	0.20		mg/L	100	3/21/2003
Sodium	24000	10.0		mg/L	1000	3/21/2003
ANIONS BY ION CHROMATOGRAPHY		E300		Analyst: HNR		
Chloride	36000	300		mg/L	5000	3/19/2003
Sulfate	ND	10.0		mg/L	100	3/18/2003
ALKALINITY, TOTAL		M2320 B		Analyst: HNR		
Alkalinity, Bicarbonate (As CaCO3)	468	5		mg/L CaCO3	1	3/20/2003
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	3/20/2003
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	3/20/2003
Alkalinity, Total (As CaCO3)	468	5		mg/L CaCO3	1	3/20/2003
HARDNESS, TOTAL		M2340 B		Analyst: HNR		
Hardness (As CaCO3)	2400	1		mg/L	1	3/24/2003
PH		E150.1		Analyst: HNR		
pH	7.59	2.00		pH units	1	3/13/2003
Temperature	20.0	0		Deg C	1	3/13/2003
RESISTIVITY (@ 25 DEG. C)		M2510 C		Analyst: HNR		
Resistivity	0.114	0.001		ohm-cm	1	3/18/2003
SPECIFIC GRAVITY		M2710 F		Analyst: HNR		
Specific Gravity	1.043	0.001		Units	1	3/18/2003
TOTAL DISSOLVED SOLIDS		E160.1		Analyst: HNR		
Total Dissolved Solids (Residue, Filterable)	62000	40		mg/L	1	3/18/2003
TOTAL DISSOLVED SOLIDS		CALC		Analyst: HNR		
Total Dissolved Solids (Calculated)	62000	5		mg/L	1	3/24/2003

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
L - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87401

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P.O. Box 2606
Farmington, NM 87499

Off: (505) 327-1072

Fax: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Dominion F & P
Work Order: 0303011
Project: Produced Water
Lab ID: 0303011-003A

Client Sample Info: Produced Water
Client Sample ID: Hancock #1 (Picture & Cliff)
Collection Date: 3/12/2003 10:13:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED				SW6010B		Analyst: DJC
Calcium	404	1.00		mg/L	100	3/17/2003
Iron	2.63	2.40		mg/L	100	3/19/2003
Magnesium	206	0.700		mg/L	100	3/21/2003
Potassium	146	6.20		mg/L	100	3/21/2003
Sodium	19200	1.80		mg/L	100	3/21/2003
ANIONS BY ION CHROMATOGRAPHY				E300		Analyst: HNR
Chloride	28000	300		mg/L	5000	3/19/2003
Sulfate	ND	10.0		mg/L	100	3/18/2003
ALKALINITY, TOTAL				M2320 B		Analyst: HNR
Alkalinity, Dicarboxylate (As CaCO ₃)	547	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	3/20/2003
Alkalinity, Total (As CaCO ₃)	547	5		mg/L CaCO ₃	1	3/20/2003
HARDNESS, TOTAL				M2340 B		Analyst: HNR
Hardness (As CaCO ₃)	1850	1		mg/L	1	3/24/2003
pH				E150.1		Analyst: HNR
pH	6.91	2.00		pH units	1	3/13/2003
Temperature	22.0	0		Deg C	1	3/13/2003
RESISTIVITY (@ 25 DEG. C)				M2510 C		Analyst: HNR
Resistivity	0.144	0.001		ohm-cm	1	3/18/2003
SPECIFIC GRAVITY				M2710 F		Analyst: HNR
Specific Gravity	1.033	0.001		Units	1	3/18/2003
TOTAL DISSOLVED SOLIDS				E160.1		Analyst: HNR
Total Dissolved Solids (Residue, Filterable)	45800	40		mg/L	1	3/18/2003
TOTAL DISSOLVED SOLIDS				CALC		Analyst: HNR
Total Dissolved Solids (Calculated)	45800	5		mg/L	1	3/24/2003

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
 L - Analyte detected below Practical Quantitation Limit
 B - Analyte detected to the associated Method Blank
 * - Value exceeds Maximum Contaminant Level
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted precision limits
 L - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87401

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P.O. Box 2606
Farmington, NM 87499

Off: (505) 327-1072

Fax: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Dominion E & P
Work Order: 0303011
Project: Produced Water
Lab ID: 0303011-005A

Client Sample Info: Produced Water
Client Sample ID: Hancock 13-11 (Richard Cliffs)
Collection Date: 3/12/2003 11:08:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED		SWG010B		Analyst: OJC		
Calcium	832	1.00		mg/L	100	3/17/2003
Iron	ND	2.40		mg/L	100	3/19/2003
Magnesium	343	0.700		mg/L	100	3/21/2003
Potassium	199	6.20		mg/L	100	3/21/2003
Sodium	25100	18.0		mg/L	1000	3/21/2003
ANIONS BY ION CHROMATOGRAPHY		E300		Analyst: HNR		
Chloride	36800	300		mg/L	5000	3/19/2003
Sulfate	16.9	8.00		mg/L	100	3/19/2003
ALKALINITY, TOTAL		M2320 B		Analyst: HNR		
Alkalinity, Bicarbonate (As CaCO3)	654	5		mg/L CaCO3	1	3/20/2003
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	3/20/2003
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	3/20/2003
Alkalinity, Total (As CaCO3)	654	5		mg/L CaCO3	1	3/20/2003
HARDNESS, TOTAL		M2340 B		Analyst: HNR		
Hardness (As CaCO3)	3490	1		mg/L	1	3/24/2003
PH		E150.1		Analyst: HNR		
pH	6.84	2.00		pH units	1	3/13/2003
Temperature	20.0	0		Deg C	1	3/13/2003
RESISTIVITY (@ 25 DEG. C)		M2510 C		Analyst: HNR		
Resistivity	0.115	0.001		ohm m	1	3/18/2003
SPECIFIC GRAVITY		M2710 F		Analyst: HNR		
Specific Gravity	1.043	0.001		Unitless	1	3/18/2003
TOTAL DISSOLVED SOLIDS		E160.1		Analyst: HNR		
Total Dissolved Solids (Residue, Filterable)	58600	40		mg/L	1	3/18/2003
TOTAL DISSOLVED SOLIDS		CALC		Analyst: HNR		
Total Dissolved Solids (Calculated)	63700	5		mg/L	1	3/24/2003

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
 L - Analyte detected below Practical Quantitation Limit
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted precision limits
 U - Value above Upper Quantitation Limit - UQL

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-920113-3

Company <u>BHP Petroleum</u>		Sample No.	Date Sampled <u>1-9-92</u>	
Field	Legal Description <u>Sec 13 - T29N - R13W</u>	County or Parish <u>San Juan</u>		State <u>NM</u>
Lease or Unit	Well <u>GCU 13 500 #1</u>	Depth <u>2870' - 2972'</u>	Formation <u>Mesa Verde Cliffhouse</u>	Water, B/D
Type of Water (Produced, Supply, etc.)		Sampling Point <u>Swab Line</u>		Sampled By



TECH, Inc.
 333 East Main
 Farmington
 New Mexico
 87401
 505/327-3311

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>8,700</u>	<u>380</u>
Calcium, Ca	<u>76</u>	<u>3.8</u>
Magnesium, Mg	<u>12</u>	<u>1</u>
Barium, Ba		

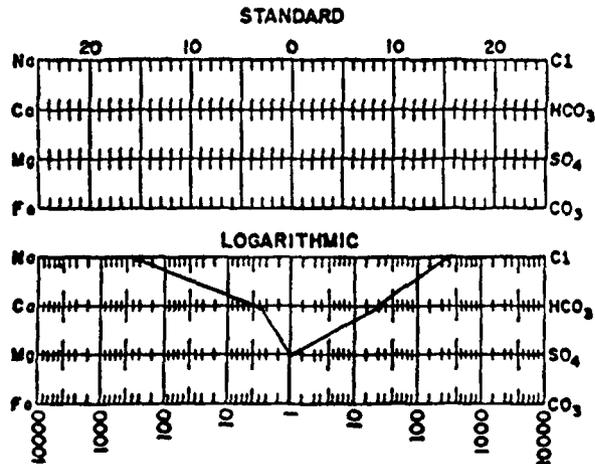
OTHER PROPERTIES

pH	<u>7.60</u>
Specific Gravity, 60/60 F.	<u>1.0174</u>
Resistivity (ohm-meters) <u>66</u> F.	<u>0.88</u>

ANIONS

Chloride, Cl	<u>12,600</u>	<u>356</u>
Sulfate, So ₄	<u>-</u>	<u>-</u>
Carbonate, CO ₃	<u>-</u>	<u>-</u>
Bicarbonate, HCO ₃	<u>1,780</u>	<u>29.2</u>

WATER PATTERNS — me/l



Total Dissolved Solids (calc.)	<u>23,000</u>
Iron, Fe (total)	
Sulfide, as H ₂ S	

REMARKS & RECOMMENDATIONS:

Date Received <u>13th Jan, 1992.</u>	Preserved	Date Analyzed <u>20th Jan, 1992.</u>	Analyzed By <u>R.H.</u>
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EXHIBIT F

SUD 450



BAROID DIVISION
 N L Industries, Inc.
 P.O. Box 1675 Houston, Texas 77001

WATER ANALYSIS TEST REPORT

BAROID TREATING CHEMICALS

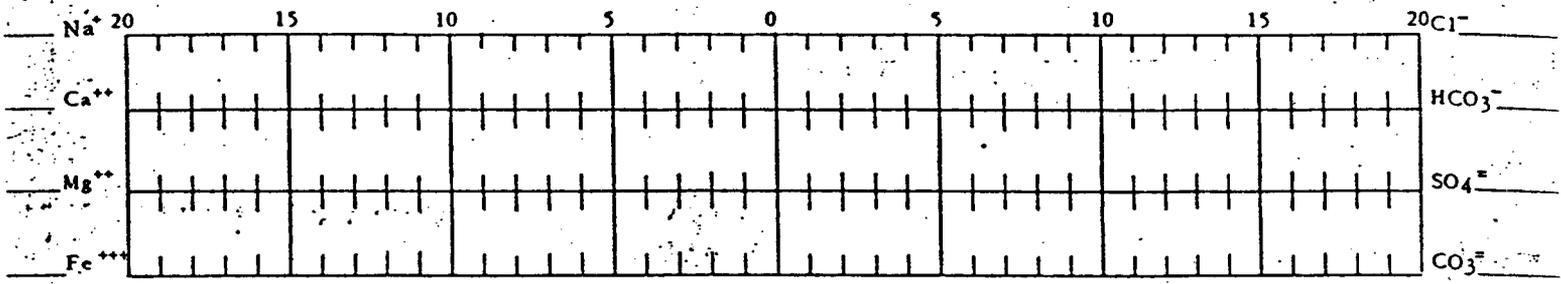
Exhibit D

RECEIVED
 6/23/77

SHEET NUMBER

COMPANY: Energy Reserves
 FIELD: BASIN DAKOTA
 COUNTY OR PARISH: SAN JUAN
 STATE: N MEXICO
 CASE OR UNIT: King Gas Corrm.
 WELL(S) NAME OR NO.: #1
 WATER SOURCE (FORMATION): MESAVERDE - CLIFFHOUSE
 DEPTH, FT.:
 BHT, F:
 SAMPLE SOURCE:
 TEMP, F:
 WATER, BBL/DAY:
 OIL, BBL/DAY:
 GAS, MMCF/DAY:
 TYPE OF OIL:
 API GRAVITY: 0
 TYPE OF WATER: PRODUCED WATER INJECTION WATER OTHER

WATER ANALYSIS PATTERN
 (NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	8	
Sodium, Na ⁺ (calc.)		
Calcium, Ca ⁺⁺	2	40
Magnesium, Mg ⁺⁺	6	73
Iron (Total), Fe ⁺⁺⁺		1.9
ANIONS		
Chloride, Cl ⁻		10,600
Sulfate, SO ₄ ⁼		90
Carbonate, CO ₃ ⁼		1,200
Bicarbonate, HCO ₃ ⁻	232	14,152
Hydroxyl, OH ⁻		-0-
Sulfide, S ⁼		
Phosphate - Meta, PO ₃ ⁼		
Phosphate - Ortho, PO ₄ ⁼		

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	mg/l*
Carbon Dioxide, CO ₂	mg/l*
Oxygen, O ₂	mg/l*

PHYSICAL PROPERTIES

pH	8.4
Eh (Redox Potential)	MV
Specific Gravity	
Turbidity, JTU Units	
Total Dissolved Solids (Calc.)	mg/l*
Stability Index @ F	
CaSO ₄ Solubility @ F	mg/l*
Max. CaSO ₄ Possible (Calc.)	mg/l*
Max. BaSO ₄ Possible (Calc.)	mg/l*
Residual Hydrocarbons	ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide Iron Oxide Calcium Carbonate Acid Insoluble

REMARKS AND RECOMMENDATIONS:

* NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

EXHIBIT F

ENGINEER: Max Woolery
 DIST. NO.:
 ADDRESS: Farmington, N.M.
 OFFICE: 325-29901
 HOME PHONE:
 DATE: 10-77
 DISTRIBUTION: CUSTOMER AREA OR DISTRICT OFFICE
 BTC ENGINEER OR BTC LAB BTC SALES SUPERVISOR

AFFIDAVIT OF PUBLICATION

Ad No. 47508

**STATE OF NEW MEXICO
County of San Juan:**

CONNIE PRUITT, being duly sworn says:
That she is the Advertising Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):
Wednesday, February 26, 2003.

And the cost of the publication is \$35.00

Connie Pruitt

ON 2-26-03 CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

Ginny Beck
My Commission Expires April 2, 2004.

COPY OF PUBLICATION

918 Legals
LEGAL NOTICE
Dominion Oklahoma Texas Exploration & Production, Inc. is applying to drill the Federal WDW 32 #44 water disposal well. The federal WDW 32 #44 will be located at 700' FSL & 700' FEL, Sec. 32, T. 27 N., R. 11 W., San Juan County, NM. The well will dispose of water produced from oil and gas wells into the Point Lookout sandstone at a depth of 4,130' to 4,470' at a maximum rate of 2,000 barrels of water per day and at a maximum pressure of 1,500 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.
Legal No. 87508, published in The Daily Times, Farmington, New Mexico, Wednesday, February 26, 2003.

[Faint, illegible text and markings]

EXHIBIT G

PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

17 Urano Loop, Santa Fe, New Mexico 87508

(505) 466-8120

May 27, 2003

BLM
1235 LaPlata Highway
Farmington, NM 87401

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Dominion Oklahoma Texas Exploration & Production, Inc. is applying (see attached application) to drill its Federal WDW 32 #44 well.

Well Name: Federal WDW 32 #44 Total Depth: 4,550'

Proposed Disposal Zone: Point Lookout (from ≈4,130' to ≈4,470')

Location: 700' FSL & 700' FEL Sec. 32, T. 27 N., R. 11 W.,

San Juan County, NM on a state lease

Approximate Location: ≈13 air miles south-southwest of Bloomfield, NM

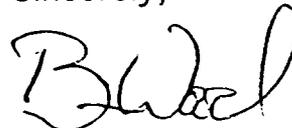
Applicant Name: Dominion Oklahoma Texas Exploration & Production, Inc.

Applicant's Address: 14000 Quail Springs Pkwy, #600 OKC, Ok. 73134-2600

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7468
7002 0460 0000 9182

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.80

SANTA FE NM 87508
MAY 27 2003
MAIL ROOM

Sent To: BLM + FWD
Street, Apt. No. or PO Box No.: 1235 LaPlata Hwy
City, State, ZIP+4: Farmington NM 87401

PS Form 3800, January 2001 See Reverse for Instructions

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
17 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 27, 2003

Burlington Resources Oil & Gas Co. LP
P. O. Box 51810
Midland, TX 79710-1810

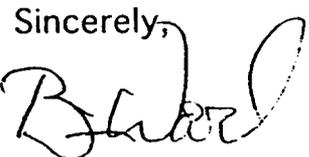
As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Dominion Oklahoma Texas Exploration & Production, Inc. is applying (see attached application) to drill its Federal WDW 32 #44 well.

Well Name: Federal WDW 32 #44 Total Depth: 4,550'
Proposed Disposal Zone: Point Lookout (from ≈4,130' to ≈4,470')
Location: 700' FSL & 700' FEL Sec. 32, T. 27 N., R. 11 W.,
San Juan County, NM on a state lease
Approximate Location: ≈13 air miles south-southwest of Bloomfield, NM
Applicant Name: Dominion Oklahoma Texas Exploration & Production, Inc.
Applicant's Address: 14000 Quail Springs Pkwy, #600 OKC, Ok. 73134-2600

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Brian Wood

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7002 0460 0000 91A2-6508

OFFICIAL USE

Postage	\$		Postmark
Certified Fee			
Return Receipt Fee (Endorsement Required)			
Restricted Delivery Fee (Endorsement Required)			
Total Postage & Fees	\$	8.57	

SANTA FE NM 87508 USPS
MAY 27 2003
SEND CPU

Sent To
Burlington
Street, Apt. No.,
or PO Box No. PO Bx 51810
City, State, ZIP+ 4 Midland TX 79710

PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

17 Mirano Loop, Santa Fe, New Mexico 87508

(505) 466-8120

May 27, 2003

Jim Ball
ConocoPhillips Company
P. O. Box 2197
Houston, Tx. 77252

Dear Mr. Ball:

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

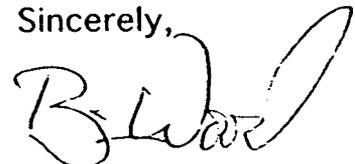
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Applicant Name: Dominion Oklahoma Texas Exploration & Production, Inc.
Applicant's Address: 14000 Quail Springs Pkwy, #600 OKC, Ok. 73134-2600

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

questions.

Sincerely,



Brian Wood

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.97

SANTA FE NM 87508
MAY 27 2003
Postmark Here

Sent To: ConocoPhillips SEND CPU
Street, Apt. No., or PO Box No.: PO Box 2197
City, State, ZIP+4: Houston TX 77252

See Reverse for Instructions

7002 0460 0000 9182 476

PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 17 Merano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 27, 2003

El Paso Natural Gas Co.
 P. O. Box 1087
 Colorado Springs, CO 80944

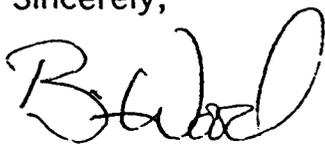
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Applicant's Address: 14000 Quail Springs Pkwy, #600 OKC, Ok. 73134-2600

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

 Brian Wood

7002 0460 0000 9162 7482

**U.S. Postal Service
 CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)**

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	5.57

SANTA FE, NM 87508 USPS
 MAY 27 2003
 QUAIL SPRINGS CPU

Sent To: El Paso Nat Gas
 Street, Apt. No., or PO Box No.: PO Bx 1087
 City, State, ZIP+4: Colo Springs CO 80944

PERMITS WEST.INC.
 PROVIDING PERMITS for LAND USERS
 17 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 27, 2003

Energen Resources Corp.
 605 Richard Arrington Jr. Blvd.
 Birmingham, AL 35203-2707

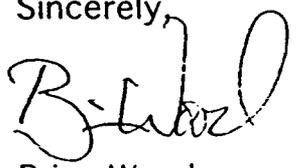
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Please call me if you have any questions.

Sincerely,

 Brian Wood

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

7002 0460 0000 9182 6485

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	5.57

SANTA FE NM 87508 USPS
 MAY 27 2003
 QUICK SEND CPU

Sent To: Energen
 Street, Apt. No.; or PO Box No.: 605 R. Arrington Jr. Blvd
 City, State, ZIP+4: Birmingham AL 35203

Welcome Back!

PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 Mirano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 27, 2003

Mary Lou Drywater
FIMO
1235 LaPlata Highway
Farmington, NM 87401

Dear Mary Lou,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant Name: Dominion Oklahoma Texas Exploration & Production, Inc.
Applicant's Address: 14000 Quail Springs Pkwy, #600 OKC, Ok. 73134-2600

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Questions.

Sincerely,

Brian Wood

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	8.80

SANTA FE, NM 87508
MAY 27 2003

Sent To: BLM + FIMO
Street, Apt. No., or PO Box No.: 1235 LaPlata Hwy
City, State, ZIP+4: Farmington NM 87401

PS Form 3800, January 2001 See Reverse for Instructions

7002 0460 0000 4382-7468

PERMITS WEST .INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 27, 2003

Steve Dunn
 J. R. & R. V. Merrion Trust and Merrion Oil & Gas Corp.
 610 Reilly Ave.
 Farmington, NM 87401

Dear Steve,

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Proposed Disposal Zone: Point Lookout (from ≈4,130' to ≈4,470')

Location: 700' FSL & 700' FEL Sec. 32, T. 27 N., R. 11 W.,

San Juan County, NM on a state lease

Approximate Location: ≈13 air miles south-southwest of Bloomfield, NM

Applicant Name: Dominion Oklahoma Texas Exploration & Production, Inc.

Applicant's Address: 14000 Quail Springs Pkwy, #600 OKC, Ok. 73134-2600

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questions.

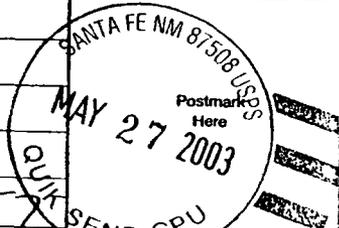
Sincerely,

Brian Wood
 Brian Wood

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	5.57



Sent To: Merrion Trust & Merrion Oil
 Street, Apt. No.; or PO Box No.: 610 Reilly Ave
 City, State, ZIP+4: Farmington NM 87401

7002 0460 0000 9182 7499

PERMITS WEST . INC.
 PROVIDING PERMITS for LAND USERS
 17 Mirano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 27, 2003

XTO Energy Inc.
 810 Houston St., #2000
 Ft. Worth, TX 76102-6298

As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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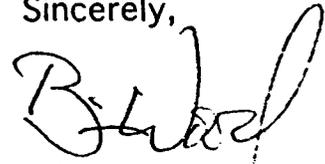
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Please call me if you have any questions.

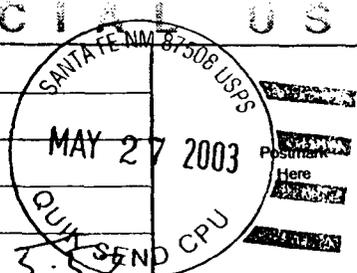
Sincerely,


 Brian Wood

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	3.55



Sent To: **XTO**

Street, Apt. No., or PO Box No.: **810 Houston # 2000**

City, State, ZIP+4: **Ft Worth TX 76102**

7002 0460 0000 9182 6492