12336240 SWD

RICHARDSON OPERATING COMPANY

1700 Lincoln, Suite 1700
Denver, Colorado 80203 (303) 830-8000
FAX (303) 830-8009

August 17, 2001

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

Re: Application for Authorization to Inject
San Juan County, New Mexico

Gentlemen:

Richardson Operating Company is requesting administrative approval for salt water disposal into the Salty Dog No. 2 well. This well is not yet drilled, but is scheduled to spud near the end of August. The well will be completed in the Blanco Mesaverde field, and will be located in the NW/4SE/4 of Section 5, Township 29 North, Range 14 West, San Juan County, New Mexico. Richardson owns the surface and 100% leasehold interest, surface to base of Pictured Cliffs formation. Conoco Inc. owns 100% leasehold interest below the base of the Pictured Cliffs formation.

Enclosed are two copies of Application for Authorization to Inject (Form C-108). An additional copy has been forwarded to the District Office in Aztec.

There is only one well which penetrates the proposed injection zone within one half mile of the Salty Dog No. 2 location. The plugged and abandoned Pubco-Carr Russell Federal No. 1 well is located in the NE/4NE/4 of Section 8, T29N, R14W. Pertinent well records are attached as Exhibit 2.

Information from the State Engineer's Office in Aztec indicates there are no shallow fresh water wells within one mile of the Salty Dog No. 2 location.

If you have any questions or if you need additional information, please call John Durham, Operations Manager, (505) 564-3100.

Sincerely,

RICHARDSON OPERATING COMPANY

Cathleen Colby

Cathleen Colby
Land Manager

cc: Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

List of Exhibits to Application for Authorization to Inject C-108:

Exhibit 1	Well and Lease Plat - 2 mile radius
Exhibit 2	Well Records - Pubco-Carr Russell Federal No. 1
Exhibit 3	Operations Plan
Exhibit 4	BOP Diagram
Exhibit 5	Injection Well Data Sheet
Exhibit 6	Wellbore Diagram
Exhibit 7	Survey Plat and Well Pad
Exhibit 8	Water Analysis: Mesaverde
Exhibit 9	Water Analysis: Fruitland Coal and Pictured Cliffs
Exhibit 10	Affidavit of Publication
Exhibit 11	Proof of Notice

Side 2

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.

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 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __X__Disposal _____Storage
Application qualifies for administrative approval? _____Yes _____No

II. OPERATOR: Richardson Operating Company

ADDRESS: 1700 Lincoln, Suite 1700, Denver, CO 80203

CONTACT PARTY: John Durham PHONE: (505) 564-3100

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 __X__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: David B. Richardson TITLE: President

SIGNATURE: David B. Richardson DATE: August 17, 2001

* 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

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(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.

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R15W

R14W

T 30 N

T 29 N

2 miles

½ mile

Richardson Fed NM 97843

Mesa Twin Mounds

Richardson Fed NM 99003

Bi Knobs 2R

Bi Knobs 91

Dugan State

Bi Knobs

LG 3045-2

Richardson State E-3555-16

Dugan State E-6714-8

Bi Knobs Com 90

WF Fed 33-1

Burlington Fed SF 080466

WF Fed 34-3

Dugan Fee

Conoco Fed SF 079968

WF Fed 33-3

Cline 1

Richardson Fed NM 20699

WF Fed 34-2

WF Fed 34-1

Richardson State E-3150-11

Mayre 90R Fed

Pitham Pond

Richardson Fed NM 10758

Richardson Fed NM 99026

Richardson Fee

Bushman Fed 6-1

WF Fed 5-4

WF Fed 5-2

Salty Dog 2

WF Fed 5-3

Ropco 5-4

Ropco 4-4

Ropco 4-1

Richardson/Conoco Fed SF 079968

Ropco 4-3

Ropco 4-2

WF Fed 3-1

WF Fed 3-2

Fed 1-99

Fed 1-7

Dugan Fed

Locke

Fed 1-98

SF 078110

Richardson Fee

Richardson Fed NM 101551

Hynes Kennedy 1

Kirtland 10

Ropco 8-1

Ropco 8-2

Ropco 8-3

Ropco 8-4

Sterling 1Y

Sterling 2

Ropco 9-1

Ropco 9-4

Ropco 9-3

Richardson Fed NM 40647

Ropco 10-2

McWhorter Duncan 1

Richardson/ Energen

Kirtland 18-3

Kirtland 18-1

Richardson Navajo

Richardson State V-5375-1

Enron/BR State B112-42

Conoco State E-3553-4

Chase State E-2516-4

Richardson Fed NM 101993

NAVAJO INDIAN RESERVATION BOUNDARY

San Juan County, NM

To: Cathy 1-303-930-8009
From: Ken at CtHouse 334-9471

Form 9-331a
(Feb. 1961)

Budget Bureau No. 42-R358.8.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. NM 0[illegible]
Unit

RECEIVED
JUL 27 1954
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	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	
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)

July 22, 19 54

Pubco-Carr Russell Federal
Well No. 1 is located [illegible] ft. from {N/S} line and [illegible] ft. from {E/W} line of sec. 8

NW¼ Sec. 8 (¼ Sec. and Sec. No.) | 29N (Twp.) | 14W (Range) | N.M.P.M. (Meridian)

Twin Mesavle Ext. (Field) | San Juan (County or Subdivision) | New Mexico (State or Territory)

The elevation of the ground level above sea level is 5332.4 ft.

RECEIVED
JUL 28 1954
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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)

It is proposed to drill with rotary tools to the top of the Pictured Cliffs formation, estimated to be at a depth of 3000 feet. It is proposed to core and drill stem test the Pictured Cliff formation and several possible zones in the Mesaverde formation. Tentative casing program as follows:

10-3/4 surface casing 250 feet
Production string

Drilling Unit: W½ of Section 8 - ~~Wildcat~~ Mesaverde test.

A Blanket Drilling Bond has heretofore been filed and approved by the Commission.

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

Company Pubco Development, Inc.

Address Post Office Box 1366

Albuquerque, New Mexico

By Frank D. Gorham, Jr.

Title Vice President

U. S. GOVERNMENT PRINTING OFFICE 16—84337-8

Company PUBCO DEVELOPMENT CO.

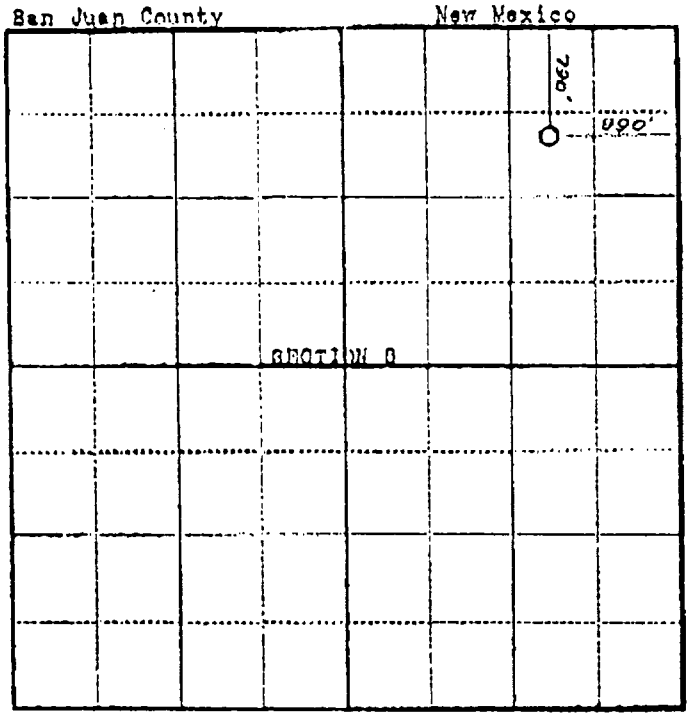
Lease PUBCO-CARR-RUSSELL FEDERAL. Well No. 1

Sec. 8 T. 29 N R. 14 W N.M.P.M.

Location 790 feet from north line; 990 feet from east line.

Elevation: 5832.4 GL

San Juan County New Mexico



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Stephen H. Kinney

STEPHEN H. KINNEY
Registered Professional
Engineer and Land Surveyor

Surveyed July 19, 19 54

Seal:

Budget Bureau No. 42-R-355.5.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE .....
SERIAL NUMBER .....
LEASE OR PERMIT TO PROSPECT .....

SEP 1 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company ..... Address Box 844, Aztec, New Mexico
Lessor or Tract Pubco-Carr Field Twin Mounds State New Mexico
Well No. Russell-Federal Sec. ..... T. ..... R. ..... Meridian ..... County San Juan
Location 1790 ft. [N.] of S Line and 990 ft. [E.] of E Line of Sec. 8 Elevation (Derrick floor relative to sea level) 5338

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Bill A. Street

Date August 30, 1954 Title District Geologist

The summary on this page is for the condition of the well at above date.

Commenced drilling 8-9, 19 54 Finished drilling 8-25, 19 54

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ..... to ..... No. 4, from ..... to .....
No. 2, from None to ..... No. 5, from ..... to .....
No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

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

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
10 3/4	32.75	8	Spang	216.90	Texas				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	216.90	200	Howco		

SEP 1 1954
OIL CON. COM.
DIST. 3

MARK

FOLD

PLUGS AND ADAPTERS

Heaving plug Material ..... Length ..... Depth set .....

Adapters Material ..... Size .....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

DATES

....., 10..... 3386 Put to producing ....., 10.....

The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; .....%

emulsion; 8-26 % water; and .....% sediment. Gravity, °B6 T & A 2-26 54

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

....., Driller ....., Driller

....., Driller ....., Driller

Bannor Drlg Co

FORMATION RECORD

~~J. L. Copeland~~ ~~Elmer Sanders~~

R. H. Copeland

FROM	TO	TOTAL FEET	FORMATION
0	714	714	Kirtland-Fruitland
714	845	131	Pictured Cliffs
845	2275	1430	Lewis
2275	2352	77	Mesaverde-Cliffhouse
2352	3184	832	Menefee
3184	3325	141	Point Lookout
3325	3386 TD	61	Mancos

[OVER]

CONSERVATION RECORD - Confidential

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

Form 9-331a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SF 079965
Unit

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	XX		

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

RECEIVED JAN 27 1960 U. S. GEOLOGICAL SURVEY FARMINGTON, NEW MEXICO

Aztec, New Mexico January [illegible], 19 60

Fulco Carr-Russell Federal
Well No. 1 is located [illegible] ft. from {N/S} line and [illegible] ft. from {E/W} line of sec. [illegible]

[illegible] Section [illegible] (¼ Sec. and Sec. No.) [illegible] (Twp.) [illegible] (Range) N.M.P.M. (Meridian)

Twin Mounds Area (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

RECEIVED JAN 28 1960 OIL CON. COM. DIST. 3

The elevation of the ~~derrick floor~~ Ground above sea level is [illegible] 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)

It is proposed to plug Fulco Carr-Russell #1, TD 33[illegible], [illegible] and [illegible] information indicate a dry hole to [illegible].
DST #1: [illegible] Pictured Cliffs [illegible], [illegible], [illegible], [illegible] [illegible].
DST #2: [illegible] Menefee [illegible], [illegible], [illegible] [illegible], no show of oil.
CORE ANALYSIS: [illegible] water productive, Pictured Cliffs; [illegible] water productive Menefee.
Plugs to be run as designated by Mr. Bill [illegible], U.S.G.S., [illegible]:
33[illegible]-3100, [illegible]-2[illegible], 1190-10[illegible], [illegible]-650, 410-350, 300 [illegible].

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

Company FULCO PETROLEUM CORPORATION

Address 103 [illegible]
Aztec, New Mexico

By [illegible]
[illegible] Russell, Jr.
Title Mgr. [illegible] Dept.

GPO [illegible]

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

Form 9-331a
(Feb. 1961)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. NM 019960
Unit

RECEIVED
JAN 27 1960
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

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NOTICE OF INTENTION TO ABANDON WELL			

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

Aztec, New Mexico January 26, 1960

Pubco Carr-Russell Federal
Well No. 1 is located 790 ft. from [N] line and 990 ft. from [E] line of sec.

NE/4, Section 8 (¼ Sec. and Sec. No.) | 29N (Twp.) | 13W (Range) | N.M.P.M. (Meridian)

Twin Mounds Area (Field) | San Juan (County or Subdivision) | New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 5312.4 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)

Plugging has been accomplished as verbally approved by Mr. Phil McGrath, U.S.G.S. on August 26, 1954.

Plugs Left: 3387-3100
2400-2200
1190-1000
860-690
410-350
Surface

RECEIVED
JAN 28 1960
OIL CON. COM.
DIST. 3

Total, 300 sax, spotted by Howco; installed 8' of 4" OD steel pipe for abandonment marker; pits filled and location cleaned up.

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

Company PUBCO PETROLEUM CORPORATION

Address 108 West Chuska

Aztec, New Mexico

By R. E. Maxwell, Jr.

Title Mgr. Prod. Dept.

GPO 9 16 867

Exhibit 3

RICHARDSON OPERATING COMPANY
OPERATIONS PLAN

SALTY DOG No. 2

August 17, 2001

I. Location: Section 5, Township 29 North, Range 14 West, NMPM
1495' FSL and 1477' FEL
San Juan County, New Mexico

Field: Blanco Mesaverde Elevation: 5297'
Surface: Fee - Richardson Production Company
Minerals: Federal SF-079968

II. Geology:

Formation Tops	Depths
Fruitland Coal	600 feet
Basal Coal	790 feet
Pictured Cliffs	800 feet
Lewis	930 feet
Cliff House	2200 feet
Menefee	2440 feet
Point Lookout	3310 feet
Total Depth	3700 feet

Estimated depths of anticipated water, oil, gas and other mineral bearing formations which are expected to be encountered:

Water and gas:	600 feet	Fruitland Coal
	790 feet	Basal Coal
	800 feet	Pictured Cliffs
Water:	2200 feet	Cliff House
	3310 feet	Point Lookout

A. Logging Program: Induction /GR and Density Logs at TD

B. The maximum expected bottom hole pressure is 400 psi. This pressure will be contained as specified in III B. and C. below. No overpressured zones are expected in this well. No H2S zones are anticipated in this well.

III. Drilling:

A. Contractor: To be determined

B. Mud Program: The surface hole will be drilled with a fresh water mud. The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids, or if conditions dictate, barite. The maximum mud weight expected is 8.7 ppg.

C. Minimum Blowout Control Specifications:

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 2,000 psi model (see attached Exhibit 4) or comparable model will be used. Double ram type or annular system with a rotating head will be used. All ram preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials:

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
9 7/8"	200'	8 5/8"	24# J-55
6 3/4"	3700'	5 ½"	15.5# K-55

B. Float Equipment:

a) Surface Casing: None

b) Production Casing: 5 ½" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every other joint from the top of the well.

V. Cementing:

Surface casing: 8 5/8", use 43 sx (50 cu ft) of Cl "B" with 2% CaCl2 (Yield = 1.18 cu ft/sx; slurry weight = 15.6 ppg). 100% excess to circulate cement to surface. WOC 12 hrs. Pressure test surface casing to 600 psi for 30 min.
Production casing: 5 ½", before cementing circulate hole with at least 1 ½ hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 185 sx (382 cu ft) of Cl "B" with 2% metasilicate (Yield = 2.06 cu ft/sx; slurry weight = 12.5 ppg). Tail with 130 sx (160 cu ft) of Cl "B" with 2% CaCl2 (Yield = 1.18 cu ft/sx slurry weight = 15.6 ppg). Total cement volume is 542 cu ft. (75% excess to circulate cement to surface).

VI. Stimulation: If stimulation is required, 4000 gal 15% HCl acid will be pumped into Mesaverde perforations.

VII. Operations:

Average Daily Rate:	1000 bwpd
Maximum Daily Rate:	1000 bwpd

System is closed.

Average Injection Pressure:	600 psi
Maximum Injection Pressure:	740 psi

Source of water to be injected is from Fruitland Coal and Pictured Cliffs wells in the area. Representative samples of this water are included in this report.

A water sample from the Mesaverde taken from the Stella Needs A Com #1E well, located in the NE/4SW/4 of Section 36, Township 30 North, Range 14 West, is also included in this report.

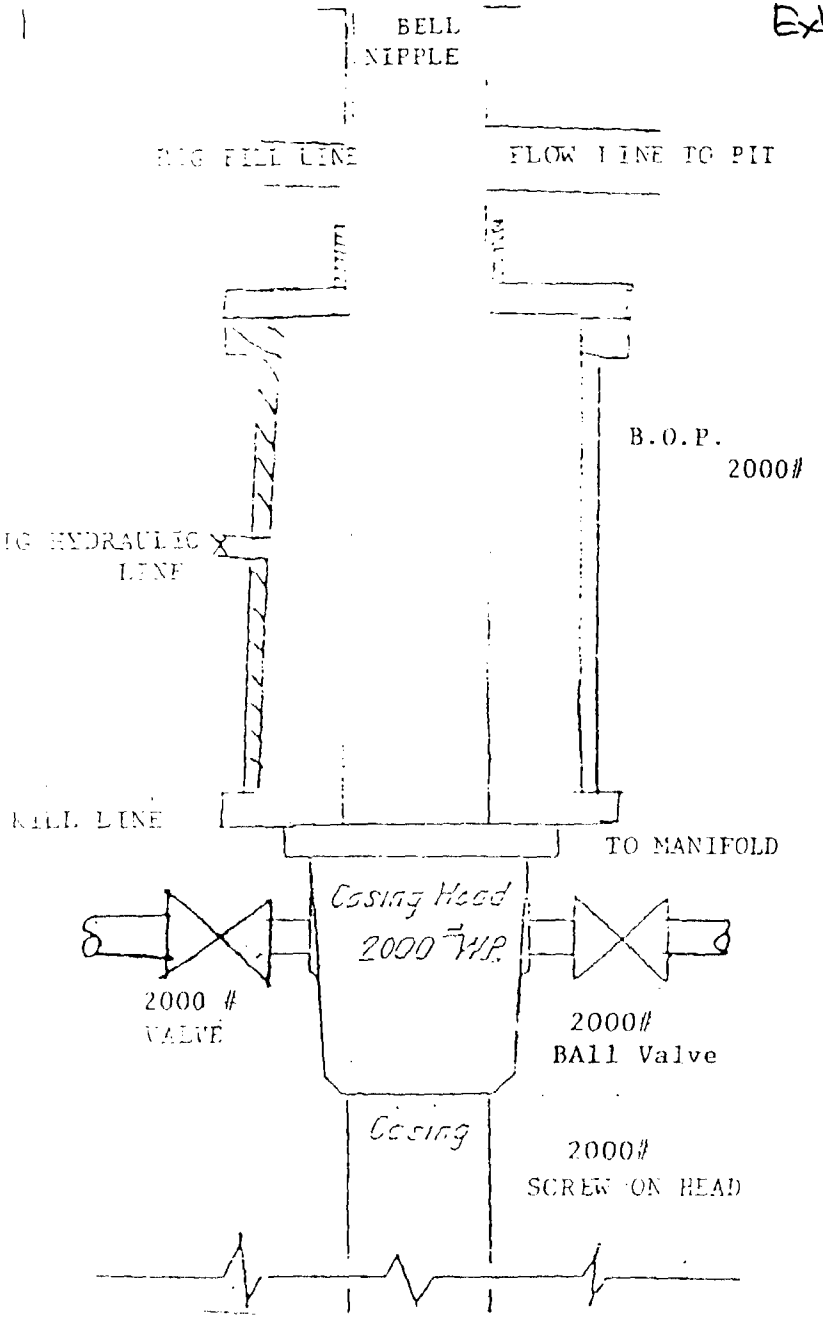
Geological data for the disposal zone is presented in Administrative Order SWD-595.

There are no fresh water wells within one mile of this location.

I 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.

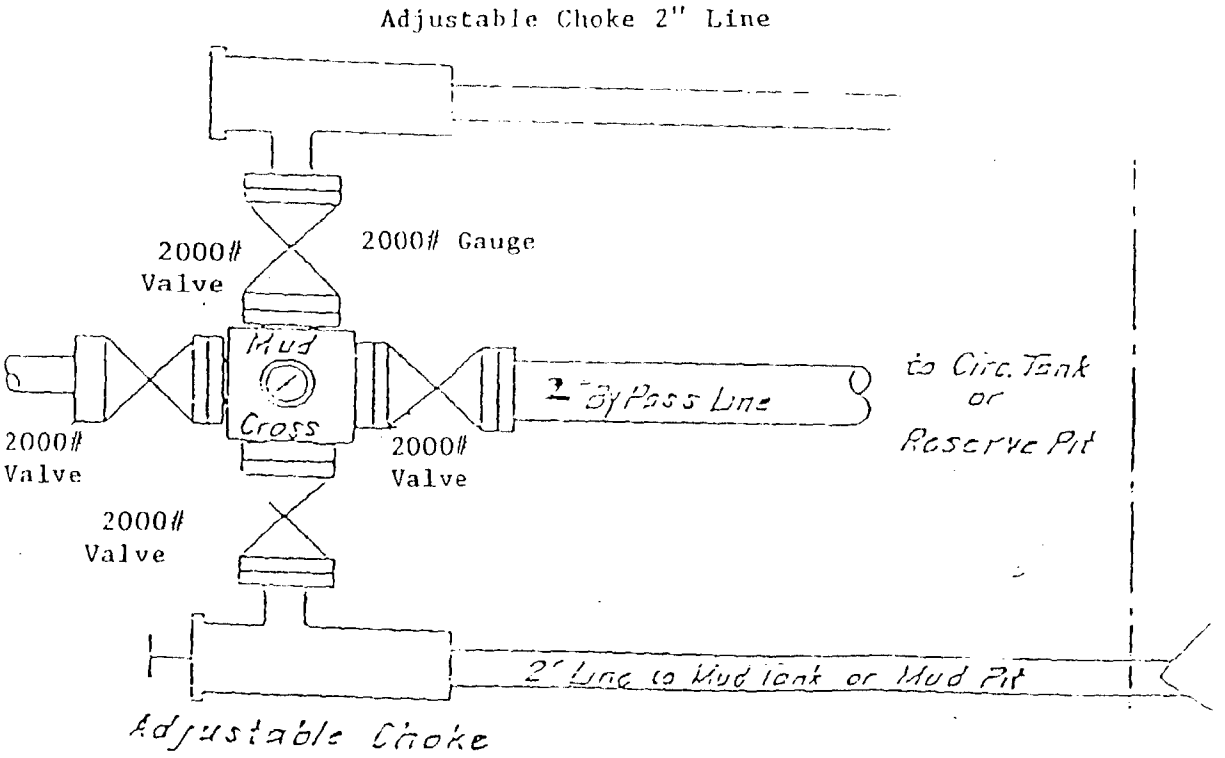
David B. Richardson
President

Exhibit 4



Notes:

1. Length of Kelly does not allow enough room for a Kelly Cock.
2. All Fittings will be screw on fitting types. (Valves, Nipples and T's)
3. All Fittings , B.O.P. & Surface Casing will be pressure tested to 500 pds. prior to drilling from surface pipe.



** 2000# Rubber hose will be used from Well Head to Manifold & from Well Head to Kill Line.

Side I

INJECTION WELL DATA SHEET

OPERATOR: Richardson Operating Company

WELL NAME & NUMBER: Salty Dog No. 2

WELL LOCATION: 1495' FSL, 1477' FEL | J | 5 | 29N | 14W

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 9 7/8 Casing Size: 8 5/8, 24#

Cemented with: 43 sx. *or* 50 ft^3

Top of Cement: Surface Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 6 3/4 Casing Size: 5 1/2, 15.5#

Cemented with: 185 + 130 sx. *or* 542 ft^3

Top of Cement: Surface Method Determined: _____

Total Depth: 3700'

Injection Interval

MV perfs: 2200' - 3580' feet to perforated

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8", 6.4#, J-55 Lining Material: None

Type of Packer: 5 1/2" x 2 7/8"

Packer Setting Depth: 2150' estimate

Other Type of Tubing/Casing Seal (if applicable): N/A

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: Mesaverde

3. Name of Field or Pool (if applicable): Blanco Mesaverde

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. No

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

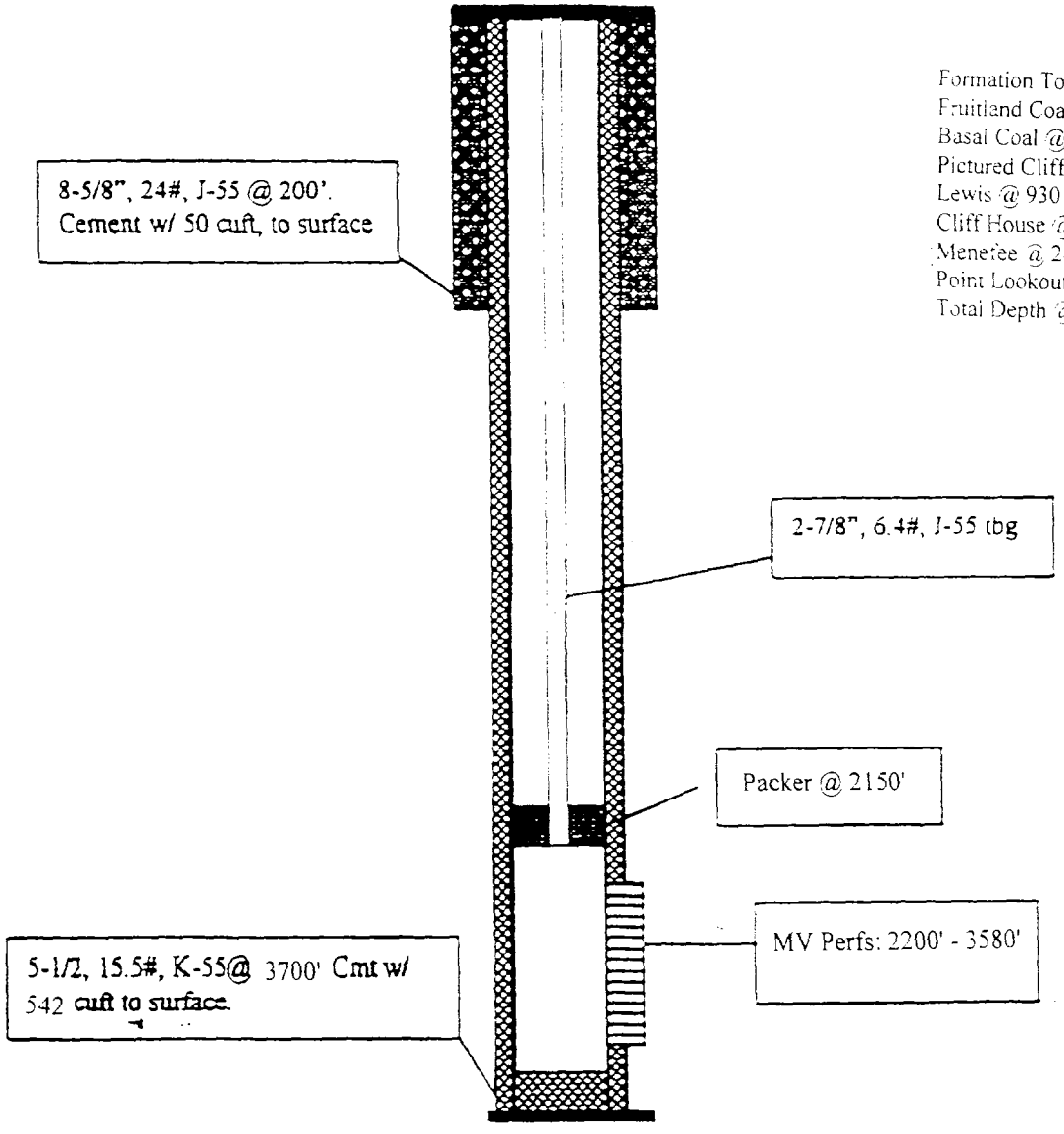
   Pictured Cliffs 800'

   Gallup 5000'

Exhibit 6

Salty Dog SWD #2
1495' FSL and 1477' FEL
Sec.5-T29N-R14W
San Juan County, NM
Blanco Mesaverde

Elev: 5297' GR



Formation Tops:
Fruitland Coal @ 600 feet
Basal Coal @ 790 feet
Pictured Cliffs @ 800 feet
Lewis @ 930 feet
Cliff House @ 2200 feet
Menefee @ 2440 feet
Point Lookout @ 3310 feet
Total Depth @ 3700 feet

Exhibit 7

State of New Mexico
Energy, Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C - 102

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name

Property Code	Property Name	Well Number
	SALTY DOG	2
OGRID No.	Operator Name	Elevation
	RICHARDSON OPERATING COMPANY	5297'

Surface Location

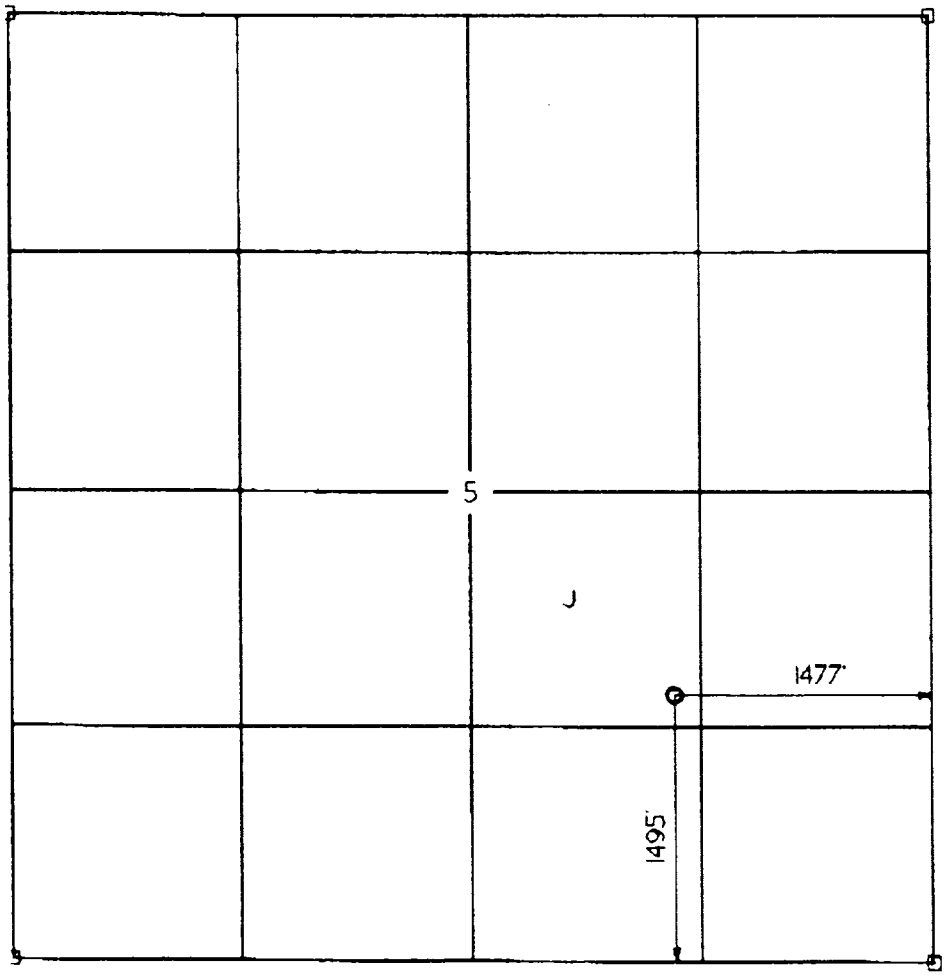
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet From	North/South	Feet From	East/West	County
J	5	29 N.	14 W.		1495	SOUTH	1477'	EAST	SAN JUAN

Bottom Hole Location If Different From Surface

UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet From	North/South	Feet From	East/West	County

Dedication	Joint ?	Consolidation	Order No.

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



OPERATOR CERTIFICATION

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

Signature

Printed Name

Title

Date

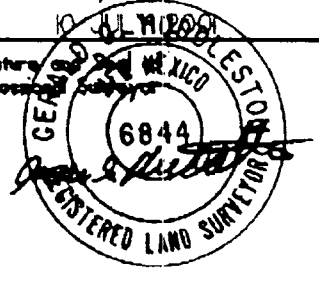
SURVEYOR CERTIFICATION

I hereby certify that the well location 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.

Date of Survey

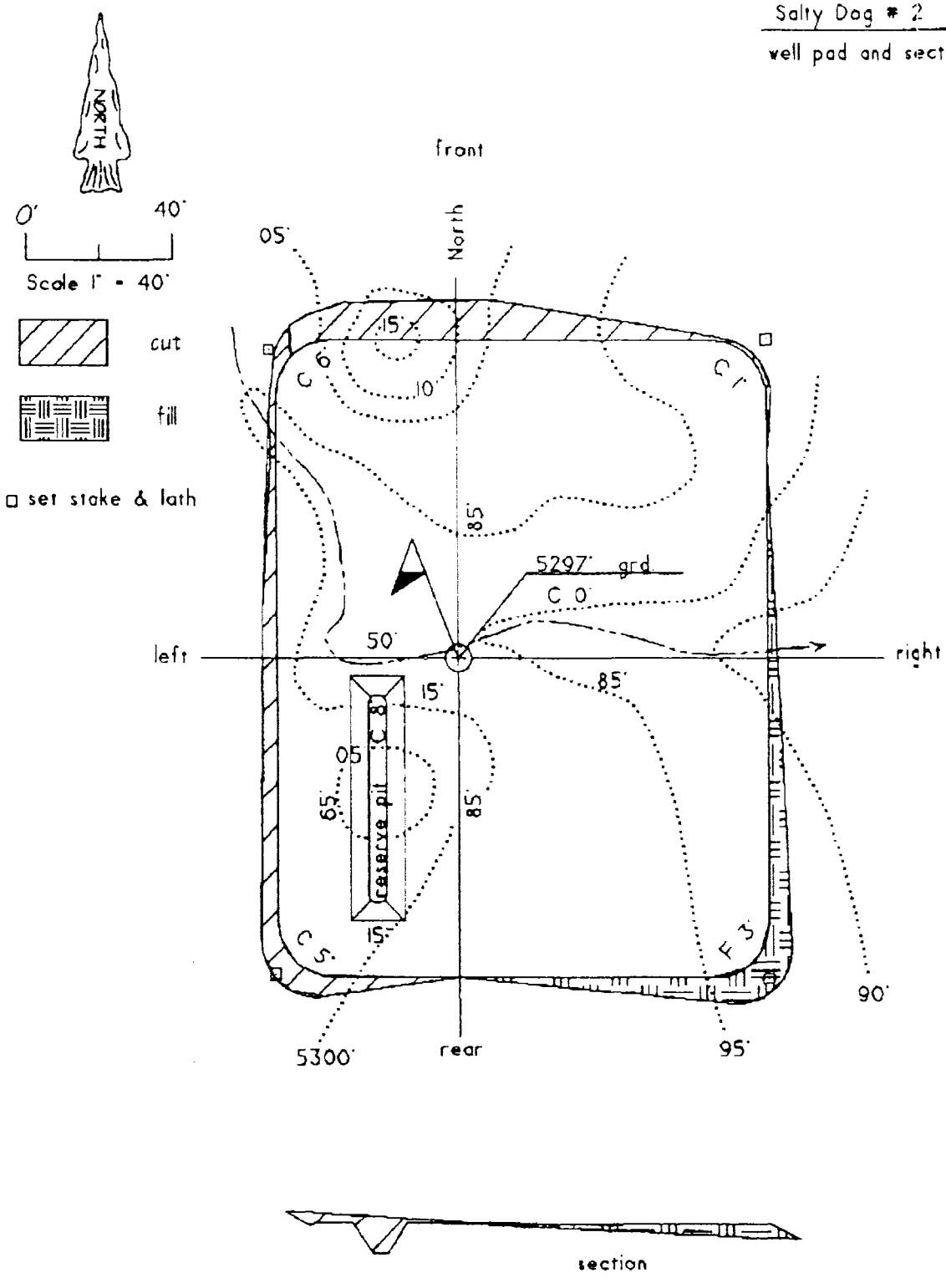
10 JULY 2001

Signature and Seal of Professional Surveyor



Salty Dog # 2

well pad and section



Dugan Production Corp.
Stella Needs A Com No. 1 – Conversion to SWD

MPANY OF NORTH AMERICA

Exhibit 8

API W A T E R A N A L Y S I S

Company:	DUGAN PROD.	W.C.N.A. Sample No.:	S106695
Field:		Legal Description:	
Well:	STELLA NEEDS A COM #1E	Lease or Unit:	
Depth:		Water.B/D:	
ormation:	POINT LOOKOUT/MESA VERDE	Sampling Point:	SWAB
State:	N.M.	Sampled By:	J. ALEXANDER
County:		Date Sampled:	04/24/95

Type of Water(Produced,Supply, ect.):

PROPERTIES

pH:	6.30	Iron, Fe(total):	250
Specific Gravity:	1.050	Sulfide as H2S:	0
Resistivity (ohm-meter):	.13	Total Hardness:	
Tempature:	78F	(see below)	

D I S S O L V E D SOLIDS

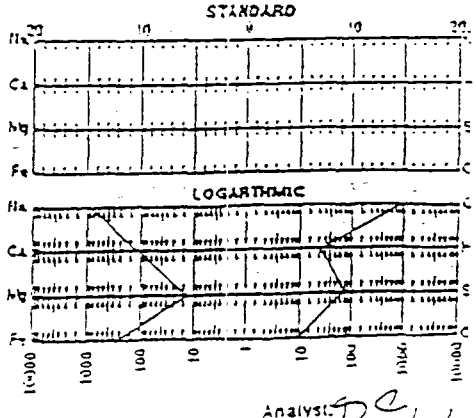
CATIONS	mg/l		me/l			
Sodium, Na:	20470	:	890			
Calcium, Ca:	2084	:	104	Sample(ml):	1.0 ml of EDTA:	5.20
Magnesium, Mg:	170	:	14	Sample(ml):	1.0 ml of EDTA:	.70
Barium, Ba:	N/A	:	N/A			
Potassium, K:		:				

ANIONS	mg/l		me/l			
N: .5000Chloride, Cl:	31905	:	900	Sample(ml):	1.0 ml of AgNO3:	1.80
Sulfate, SO4:	3750	:	78			
Carbonate, CO3:		:		Sample(ml):	1.0 ml of H2SO4:	
Bicarbonate, HCO3:	1830	:	30	Sample(ml):	1.0 ml of H2SO4:	.30

Total Dissolved Solids (calculated):	60209				
Total Hardness:	5900	Sample(ml):	1.0	ml of EDTA:	

REMARKS AND RECOMMENDATIONS:

WATER PATTERNS-me/l



Analyst: DC
Date Analized: 4/24/95

Exhibit 9

FW01W266

BJ SERVICES COMPANY

WATER ANALYSIS #FW01W266

FARMINGTON LAB

GENERAL INFORMATION

OPERATOR:	RICHARDSON OPERATING	DEPTH:	
WELL:	BUSHMAN FEDERAL 6-1	DATE SAMPLED:	10/19/98
FIELD:	SEC06/T29N/R14W	DATE RECEIVED:	10/20/98
SUBMITTED BY:	BRAD SALZMAN	COUNTY:	SAN JUAN STATE: NM
WORKED BY	:D. SHEPHERD	FORMATION:	FC/PC
PHONE NUMBER:			

SAMPLE DESCRIPTION

SAMPLE FOR ANALYSIS

PHYSICAL AND CHEMICAL DETERMINATIONS

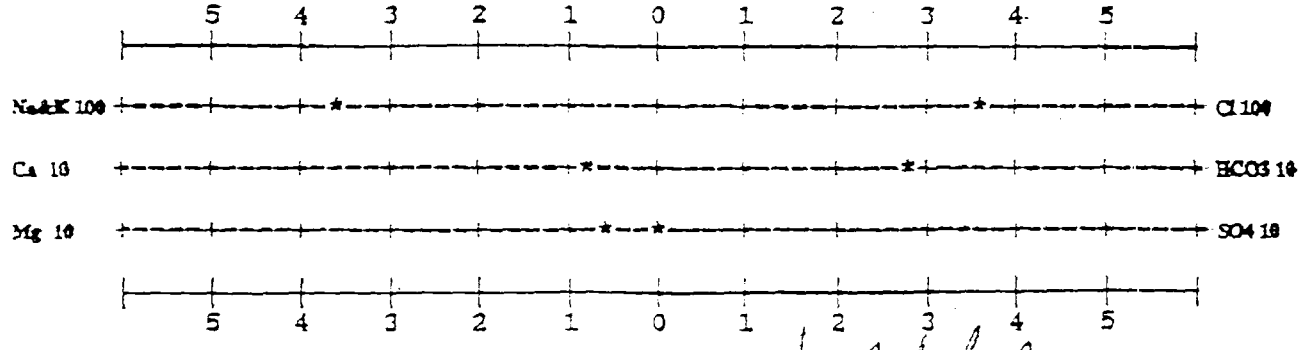
SPECIFIC GRAVITY: 1.015 @ 74°F PH: 7.49
RESISTIVITY (MEASURED): 0.280 ohms @ 76°F

IRON (FE++) :	0 ppm	SULFATE:	39 ppm
CALCIUM:	158 ppm	TOTAL HARDNESS	710 ppm
MAGNESIUM:	77 ppm	BICARBONATE:	1,719 ppm
CHLORIDE:	12,574 ppm	SODIUM CHLORIDE(Calc)	20,685 ppm
SODIUM+POTASS:	8,493 ppm	TOT. DISSOLVED SOLIDS:	23,536 ppm
H2S: NO TRACE		POTASSIUM (PPM):	110 PPM

REMARKS

SAMPLED FROM SEPERATOR

STIFF TYPE PLOT (IN MEQ/L)



ANALYST David Shepherd
D. SHEPHERD

xx TOTAL PAGE.02 xx

AFFIDAVIT OF PUBLICATION

Ad No. 44869

STATE OF NEW MEXICO
County of San Juan:

CONNIE PRUITT, being duly sworn says: That she is the Classified 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, August 15, 2001.

And the cost of the publication is $20.56.

Connie Pruitt

ON 8/17/01 CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

Donny Beck

My Commission Expires April 02, 2004

COPY OF PUBLICATION

918 Legals

LEGAL NOTICE

Richardson Operating Company will file an application on August 17, 2001, for approval to inject water, produced from oil and gas wells, into the Mecaverde formation in the Salty Dog No. 2, located in the NW/4SE/4 of Section 5, Township 29 North, Range 14 West, San Juan County, New Mexico, at a depth from 2000 to 3700 feet with surface injection pressure up to 900 pounds per square inch.

Surface owners and offset operators must file any objections or request for public hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87504 within 15 days of the date of this notice. The Richardson Operating Company contact person is John Durham, 3100 La Plata Hwy, Farmington, NM 87401, telephone (505) 564-3100.

Legal No. 44869, published in The Daily Times, Farmington, New Mexico, Wednesday, August 15, 2001.

RICHARDSON OPERATING COMPANY

1700 Lincoln, Suite 1700
Denver, Colorado 80203 (303) 830-8000
FAX (303) 830-8009

August 17, 2001

Mr. William W. Franklin
Conoco Inc.
Mail Code DU 3092
600 North Dairy Ashford
Houston, TX 77079

Certified Mail Return Receipt
7000 1670 0006 8579 3524

Re: Application for Authorization to Inject
Salty Dog No. 2
NW/4SE/4-Section 5-T29N-R14W
San Juan County, New Mexico

Gentlemen:

As a leasehold owner within one-half mile of the proposed Salty Dog No. 2 disposal well, you are being notified of our Application for Authorization to Inject. Richardson Operating Company seeks to dispose of water produced from the Fruitland Coal and Pictured Cliffs formations into the Mesaverde formation. Objections, or a request for hearing, must be filed within 15 days with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505,

Enclosed is a copy of our Form C-108 and associated Exhibits. If you need additional information, please do not hesitate to call.

Sincerely,

RICHARDSON OPERATING COMPANY

Cathleen Colby

Cathleen Colby
Land Manager

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Conoco Inc. - Attn: Bill Franklin
Mail Code DU 3092
600 North Dairy Ashford
Houston, TX 77079

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* | B. Date of Delivery

C. Signature

X ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
7000 1670 0006 8579 3524

PS Form 3811, July 1999 Domestic Return Receipt 102595-00-M-0952

Form 9-331a
(Feb. 1951)

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

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SF 079268
Unit

RECEIVED
JAN 27 1960
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

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	XX
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)

Aztec, New Mexico January 26, 19 60

Pubco Carr-Russell Federal
Well No. 1 is located 790 ft. from [N] line and 990 ft. from [E] line of sec.

NE¼NE¼, Section 8 (¼ Sec. and Sec. No.) | 29N (Twp.) | 14W (Range) | N.M.P.M. (Meridian)

Twin Mounds Area (Field) | San Juan (County or Subdivision) | New Mexico (State or Territory)

The elevation of the Ground above sea level is 5332.4 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)

Plugging has been accomplished as verbally approved by Mr. Phil McGrath, U.S.G.S. on August 26, 1954.

Plugs left: 3327-3100
2400-2200
1150-1000
860-650
410-350
Surface

RECEIVED
JAN 25 1960
OIL CON. COM.
DIST. 3

Total, 300 sax, spotted by Homco; installed 8' of 4" OD steel pipe for abandonment marker; pits filled and location cleaned up.

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

Company PUBCO PETROLEUM CORPORATION

Address 108 West Chuska

Aztec, New Mexico

By
W. E. Maxwell, Jr.

Title Mgr. Prod. Dept.

As per Steve Hayden, No
objection to this applicatio

8/27/01

Form 9-331a
(Feb. 1951)

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

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. NM 079968
Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
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NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	XX		

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

Aztec, New Mexico January 26, 1960

Pubco Carr-Russell Federal
Well No. 1 is located 790 ft. from [N] line and 990 ft. from [E] line of sec. 8

NW/4 NE/4 Section 8 (¼ Sec. and Sec. No.) | 29N (Twp.) | 14W (Range) | N.M.P.M. (Meridian)

Twin Mounds Area (Field) | San Juan (County or Subdivision) | New Mexico (State or Territory)

The elevation of the Ground above sea level is 5332.4 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)

It is proposed to plug Pubco Carr-Russell #1; TD 3396; E-log to TD and DST information indicate a dry hole to TD.

DST #1: 727-773 Pictured Cliffs IF 15#, FF 60#, FSIP 215, rec. 150' sli, Gcm. No gts.

DST #2: 2932-2963 Menefee IF 30#, FF 180, FSIP 1170, rec. 365' wm, no gas or oil.

CORE ANALYSIS: 724-772 water productive, Pictured Cliff; 3223-3227 water productive Menefee.

Plugs to be run as designated by Mr. Emil McGrath, U.S.G.S., 8-26-54; 3327-3100, 2400-2200, 1150-1000, 660-650, 410-350, 300 sax.

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

Company PUBCO PETROLEUM CORPORATION

Address 108 West Chuska

Aztec, New Mexico

By R. E. Maxwell, Jr.

Title Mgr. Prod. Dept.

GPO 9 18 507

Form 9-331a
(Feb. 1951)

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

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. SF 079938
Unit

RECEIVED
JAN 27 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	
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Aztec, New Mexico January 26, 1960

Pubco Carr-Russell Federal
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NE¼NE¼, Section 8 (¼ Sec. and Sec. No.) 29N (Twp.) 14W (Range) N.M.P.M. (Meridian)

Twin Mounds Area (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the Ground above sea level is 5332.4 ft.

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2400-2200
1150-1000
860-650
410-350
Surface

RECEIVED
AUG 30 1960
OIL CON. COM.
DIST. 3

Total, 300 sax, spotted by Howco; installed 8' of 4" OD steel pipe for abandonment marker; pits filled and location cleaned up.

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

Company PUBCO PETROLEUM CORPORATION

Address 108 West Chuska

Aztec, New Mexico

By W. E. Maxwell, Jr.

Title Mgr. Prod. Dept.

GPO 9 18 507

New Mexico Oil Conservation Division---Enginnering Bureau
Administrative Application Process Documentation

Date Application Received: 4-26-01

Date of Preliminary Review: 4-30-01
(Note: Must be within 10-days of received date)

Results: X **Application Complete** _____ **Application Incomplete**

Date Incomplete Letter Sent: _____

Deadline to Submit Requested Information: _____

Phone Call Date: _____
(Note: Only applies if requested data is not submitted within the 7-day deadline)

Phone Log Completed? _____ **Yes** _____ **No**

Date Application Processed: _____

Date Application Returned: _____
(Note: Only as a last resort & only after repeated attempts by the Division to obtain the necessary information to process the application)