

Ernie Busch

From: Ernie Busch
To: Ben Stone
Subject: HALLWOOD ENERGY COMPANIES (SWD)
Date: Friday, March 22, 1996 2:29PM
Priority: High

USA #1

P-24-32N-13W

RECOMMEND: APPROVE FOR MORRISON AND BLUFF FORMATIONS ONLY, DO NOT INCLUDE THE DAKOTA FORMATION BECAUSE OF FUTURE POTENTIAL PRODUCTION AND IF YOU LOOK AT THE AOR WELL (MONTOKA 25 #1) BECAUSE OF THE FISH, IT MAY NOT BE PLUGGED PROPERLY IN THE DAKOTA.

FORM C-115- OPERATORS MONTHLY REPORT (CONTINUATION)

OPERATOR: LOUIS DREYFUS NATURAL GAS CORP | CORRID: 025773 | MONTH/YEAR 08/95 | PAGE 8 OF 26

			INJECTION		PRODUCTION					DISPOSITION OF OIL, GAS, AND WATER						
7 POOL NO. AND NAME PROPERTY NO. AND NAME WELL NO. AND U-L-S-T-R API NUMBER	8 C O D E 1	9	10 PRESSURE	11 C O D E 2	12 BBL'S OF OIL/COND- ENSATE PRODUCED	13 BBL'S OF WATER PRODUCED	14 GAS PRODUCED (MCF)	15 DAYS PRODUCED	16 C O D E 3	17 POINT OF DISPOS- ITION	18 GAS BTU OR OIL API GRAV	19 OIL ON HAND AT BEGINNING OF MONTH	20 VOLUME (BBL'S/MCF)	21 TRANS- PORTER CORID	22 C O D E 4	23 OIL ON HAND AT END OF MONTH
005957 FEDERAL COAL																
12-23 K-12-27N-12W 30-045-28402	P				0	143	8056	31								
18-24 N-18-27N-11W 30-045-28397	T				0	0	0	0	G	1190830	1020		7690	025773		
									G				366		U	
005959 HANCOCK									W	1190850			143		O	
003 R K-01-27N-12W 30-045-06333	P				0	0	2945	31								
004R A-11-27N-12W 30-045-06732	P				0	33	4575	31								
32-1 G-01-27N-12W 30-045-28837	P				0	131	5123	31								
42-12 H-12-27N-12W 30-045-28918	F				0	71	17186	31								
									G	1190330	1020		4465	025773		
									G	1190430	1020		2811	025773		
									G	1190530	1020		4367	025773		
									G	2804975	1020		16406	025773		
									G				1334		U	
									G				446		V	
									W	1190350			131		O	
									W	1190550			33		O	

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 945
RETURN RECEIPT REQUESTED

Mr. William LeMay, Director
State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
MAR 18 1996

OIL CON. DIV.
DIST. 1

RE: Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL x 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

Dear Mr. LeMay:

Hallwood Petroleum, Inc. respectfully requests administrative approval for conversion of the currently inactive USA #1 well, to a water disposal well. We are proposing (requesting) that the well be approved for water disposal into three formations -- Dakota, Morrison and Bluff. However, as discussed in detail in the enclosed application and exhibits, Hallwood plans to initially (after obtaining all approvals) dispose of water into the Dakota formation.

If the Dakota formation is not adequate for handling of the planned 550-1200 BWPD, we would proceed with deepening this well to the additional Morrison and Bluff disposal formations.

Enclosed is the Form C-108 and required data, including "proof of notice" to the Landowner (U.S. Government) and offset leasehold operators. Upon receiving proof of mailing notices (return receipt cards) we will furnish these to your office.

Please contact me at (303) 850-6303 with any questions or comments you have on this application for injection, or if you need additional information.

Sincerely,

HALLWOOD PETROLEUM, INC.



Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea
Enclosures

Mr. William LeMay, Director
State of New Mexico
March 15, 1996
Page 2

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

KEO96.012

APPLICATION FOR AUTHORIZATION TO INJECT OIL CON. DIST. 3

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Hallwood Petroleum, Inc.
ADDRESS: P. O. Box 378111, Denver, CO 80237
CONTACT PARTY: Kevin E. O'Connell PHONE: 303-850-6303
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed 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 geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such 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 source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Kevin E. O'Connell TITLE: Drilling & Production Manager
SIGNATURE: Kevin E. O'Connell DATE: 03/15/96
- * 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 circumstance of the earlier submittal. _____

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

III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and 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, PO Box 2088, Santa Fe, NM 87504-2088 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☐DEEPEN ☒

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☐OTHER SWDSINGLE
ZONE ☐MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Hallwood Petroleum, Inc.

3. ADDRESS AND TELEPHONE NO.

P. O. Box 378111, Denver, CO 80237 (303) 850-6303

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

812' FSL x 804' FEL, SE SE

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 miles NE of LaPlata, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

804'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2600' West

16. NO. OF ACRES IN LEASE

320

19. PROPOSED DEPTH

7800'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

N/A

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5936' KB

5925' GL

22. APPROX. DATE WORK WILL START*

June/July 1996

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12.25	8.625	23	312'	225 sxs
7.875	4.50	10.5	6995'	1645 sxs
above casing strings are existing				
3.875	open hole	---	6995'-7800'	N/A

Hallwood Petroleum, Inc. has submitted a C-108 application to perform a possible 2-part conversion of this depleted Mesa Verde/Dakota well (drilled in 1980) to a water disposal well.

Part 1. Propose to cement squeeze Mesa Verde perfs at 4606 - 4696'; reperforate and frac Dakota zones (6810-6975') and dispose of water via 2 7/8" tubing and packer at 6775'.

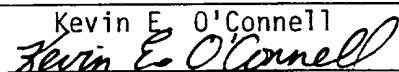
Part 2. If Dakota Formation does not provide sufficient injectivity and/or disposal capacity, Hallwood requests permission to deepen well approximately 800'. This would be done with 3.875" hole from 6995-7800'; through Morrison and Bluff formations, TD'ing in Summerville formation. Open hole interval would be slick water fracture stimulated and water disposal commenced via 2 7/8" tubing and packer at 6775'.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Kevin E. O'Connell

SIGNED



TITLE Drilling & Production Mgr

DATE

03/12/96

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____

TITLE _____

DATE _____

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001. makes it a crime for any person knowingly and willfully to make to any department or agency of the

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill or deepen an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the operator elects to initiate drilling operation on an oil and gas lease.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alicarnate) Bureau Clearance Officer, (WO-771), 1849 C Street, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0136), Washington, D.C. 20503.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the operator elects to initiate drilling operations on an oil and gas lease.

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address: Hallwood Petroleum, Inc. P. O. Box 378111 Denver, CO 80237		OGRID Number 009812
Property Code 4918	Property Name USA #1 SWD	API Number 30 - 045-24023
		Well No. 1

7 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	24	32N	13W		812	South	804	East	San Juan

8 Proposed 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
Proposed Pool 1					Proposed Pool 2				

Work Type Code D	Well Type Code S	Cable/Retary R	Lease Type Code F	Ground Level Elevation 5925
Multiple N	Proposed Depth 7800	Formation Summerville	Contractor not known	Spud Date 6/96

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
existing	8.625"	23	312'	225	surface
casing	4.50"	10.5	6995'	1645	surface
3.875"	open hole	----	6995-7800'	N/A	----

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Hallwood Petroleum, Inc. has submitted a C-108 application to perform a possible 2-part conversion of this depleted Mesa Verde/Dakota well (drilled in 1980) to a water disposal well.

Part 1. Propose to cement squeeze Mesa Verde perms at 4606-4696'; reperforate and frac Dakota zones (6810-6975') and dispose of water via 2 7/8" tbg and packer at 6775'.
Part 2. If Dakota formation does not provide sufficient injectivity and/or disposal capacity, Hallwood requests permission to deepen well approximately 800'. This would be done with 3.875" hole from 6995-7800'; through Morrison and Bluff formations, (see

attach-
ment)

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Kevin E. O'Connell</i>		OIL CONSERVATION DIVISION	
Printed name: Kevin E. O'Connell		Approved by:	
Title: Drilling & Production Manager		Title:	
Date: 03/12/96		Approval Date:	Expiration Date:
Phone: (303) 850-7373		Conditions of Approval: Attached <input type="checkbox"/>	

C-101 Instructions

Measurements and dimensions are to be in feet/inches. Well locations will refer to the New Mexico Principal Meridian.

IF THIS IS AN AMENDED REPORT CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

- 18 Geologic formation at TD
- 19 Name of the intended drilling company if known.
- 20 Anticipated spud date.
- 21 Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement
- 22 Brief description of the proposed drilling program and SOP program. Attach additional sheets if necessary.
- 23 The signature, printed name, and title of the person authorized to make this report. The date this report was signed and the telephone number to call for questions about this report.

- 1 Operator's OGRID number. If you do not have one it will be assigned and filled in by the District office.
- 2 Operator's name and address
- 3 API number of this well. If this is a new drill the OCD will assign the number and fill this in.
- 4 Property code. If this is a new property the OCD will assign the number and fill it in.
- 5 Property name that used to be called 'well name'
- 6 The number of this well on the property.
- 7 The surveyed location of this well New Mexico Principal Meridian NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD Unit Letter.

8 The proposed bottom hole location of this well at TD

9 and 10 The proposed pool(s) to which this well is being drilled.

11 Work type code from the following table:

- N New well
- E Re-entry
- D Drill deeper
- P Plugback
- A Add a zone

12 Well type code from the following table:

- O Single oil completion
- G Single gas completion
- M Multiple completion
- I Injection well
- S SWD well
- W Water supply well
- C Carbon dioxide well

13 Cable or rotary drilling code

- C Propose to cable tool drill
- R Propose to rotary drill

14 Lease type code from the following table:

- F Federal
- S State
- P Private
- N Navajo
- J Jicarilla
- U Ute
- I Other Indian tribe

15 Ground level elevation above sea level

16 Intend to multiple complete? Yes or No

17 Proposed total depth of this well

ATTACHMENT

to

Form C-101

USA #1 SWD

#22 - TD'ing in Summerville formation. Open Hole interval would be slick water fracture stimulated and water disposal commenced via 2 7/8" tbg and packer at 6775'.

EXHIBIT III - WELL DATA

Section A

Operator: Hallwood Petroleum, Inc.

Lease Name: USA #1

Location: 812' FSL x 804' FEL, Unit P,
SE SE Section 24-T32N-R13W
San Juan County, New Mexico

Surface Casing: 8.625" 23# at 312' KB in 12.25" hole
cemented with 225 sacks. Cement
reported to have circulated to surface.

Production Casing: 4.50" 10.5# casing at 6995' in 7.875"
hole. This string of casing from 0-
6995' was cemented in 3 stages:
1st stage: 437 sxs of 50/50 Poz cement
followed by 50 sxs Class "B" neat.
Calculated fill is from 6995' up to
5058'.
2nd stage: Thru a DV tool at 4844',
cemented with 434 sxs 50/50 Poz,
calculated fill is from 4844' up to
2849'.
3rd stage: Thru a DV tool at 2404'
cemented with 634 sxs 50/50 Poz cement
with 6% gel, followed by 140 sxs of
50/50 Poz cement with 2% gel. Reported
that 10 bbls of cement circulated to
surface.

Please Note: Although no cement bond
logs were run on this well to confirm
cement top(s), Hallwood believes that
the well is essentially cemented from 0-
6995' with this well designed 3-stage
job. Also, the fact that cement was
circulated to surface on the third is
very encouraging. However, if requested
and required, Hallwood will run a cement
bond log from 0-6995' after cement
squeezing the Mesa Verde perforations at
4606-4696'.

Proposed Tubing: 2 7/8" 6.50# EUE 8rd J-55 grade, new
tubing, unlined, set at 6775'.

Proposed Packer: Guiberson Model UNI-VI set at 6775' with
an on/off tool directly above it.

EXHIBIT III - WELL DATA

USA #1

Section B

- (1) The name of the injection formation(s) and, if applicable, the field or pool name.

Hallwood proposes to initially inject (dispose of) produced Fruitland Basin Coal water into the Dakota formation. The Dakota formation at this location is in the Basin Dakota field.

Hallwood is seeking approval with this application to dispose into three (3) formations - the Dakota, Morrison and Bluff. In the event that the Dakota formation in the USA #1 well is not able to satisfactorily handle our intended disposal volumes, Hallwood would like to deepen the USA #1 well down into the Morrison and Bluff formations and add them to the Dakota, as disposal zones.

- (2) The injection interval and whether it is perforated or open hole.

The initially proposed disposal zone (the Dakota) is perforated 4 1/2" casing.

If the well is deepened from 6995' to 7800' to add the Morrison and Bluff formations for additional disposal capacity (as discussed above), Hallwood would like to request that this interval be approved as an open hole interval. This would be a 3.875" diameter open hole and would be difficult to case and cement with 2 7/8" tubing. Leaving this as open hole should not present any problems with concerns pertaining to shallower horizons.

- (3) State if the well was drilled for injection or, if not, the original purpose of the well.

This well was originally drilled in 1980 by John H. Hall (operator) as a Mesa Verde/Dakota gas well. The well is now depleted and uneconomical to produce as a gas well. The well has been operated for the past several years by Robert R. Click, an independent oil and gas operator in Fort Worth, Texas. Hallwood Petroleum, Inc. purchased this well (USA #1) on 6/1/95 with the principal reason to convert it to a water disposal well due to its proximity to our coal wells and pipeline gathering system.

EXHIBIT III - WELL DATA

USA #1

- (4) Give the depths of any other perforated intervals and detail on sacks of cement or bridge plugs used to seal off such perforations.

There are currently open Mesa Verde perforations in the USA #1 from 4606-4696'. These are only 21 perforations though. Hallwood plans to cement squeeze these 21 perforations with an estimated 75 to 100 sacks of cement. The cement will be drilled out inside of the casing and then the cement squeeze will be pressure tested until it withstands pressures and time requirements similar to an MIT (Mechanical Integrity Test). Due to the limited number of perforations, we believe a competent squeeze can be achieved. Also, these squeezed perms in the Mesa Verde will be isolated by the tubing and packer.

- (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.

The next higher oil and gas zone that primarily produces in the area of the USA #1 is the Mesa Verde formation (Blanco Mesa Verde Field). In the USA #1 well the top of the Mesa Verde is 3815'; however, the perforations in this thick interval are at 4606-4696'.

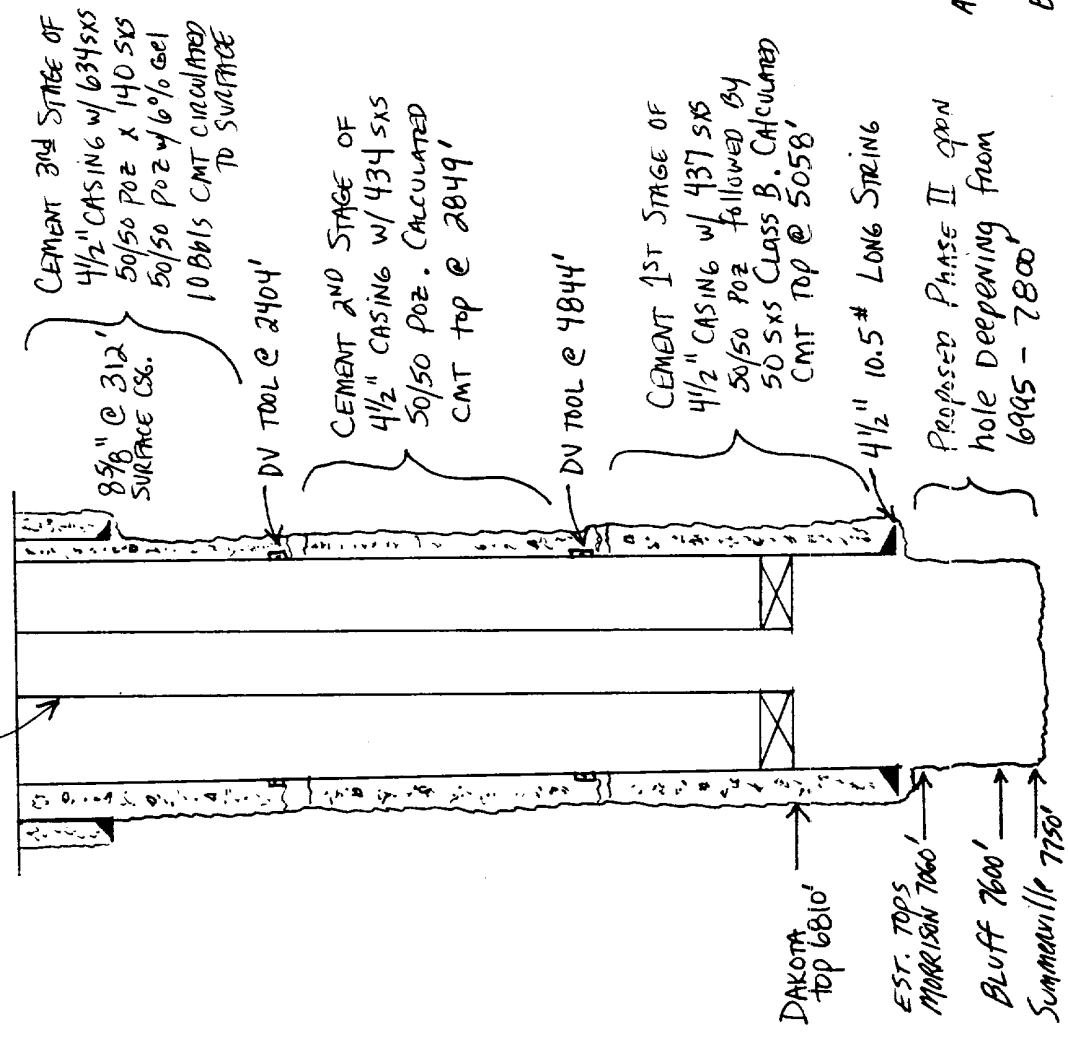
Occasionally there is Gallup formation oil or gas production but at this location it is scarce. The Gallup formation in the USA #1 well is at 4855' but is tight and poorly developed. With regard to next lower oil and gas zones, the only possible zone deeper than the Bluff would be the Entrada formation at an estimated depth of 7800'. Oil and gas production in the basin is very limited from the Entrada formation, especially in this immediate area, and the Entrada is frequently utilized for water disposal.

INJECTION WELL DATA SHEET

OPERATOR Hallwood Petroleum Inc LEASE USA (LEASE No. SF-078818-A)
 WELL NO. #1 812' FSL X 804' FEL SECTION 24 TOWNSHIP 32N RANGE 13W
 FOOTAGE LOCATION

Proposed new 2 7/8" 6.50 # J-55 uncased tubing + Gundersen packer at 6775'

Schematic



Well Construction Data

Surface Casing
 Size 8.625 Cemented with 225 sx.
 TOC Surface feet determined by Circulation
 Hole Size 12.25"
Intermediate Casing (N/A)
 Size Cemented with sx.
 TOC feet determined by
 Hole Size
Long String
 Size 4.50 Cemented with 1695 sx.
 TOC Surface feet determined by Circulation
 Hole Size 7.875"
 Total Depth 7000'

Injection Interval

- A) 6810 feet to 6975 feet, Perforated, Dakota Zn.
 (perforated or open-hole; indicate which)
 B) 6995 feet to 7800 feet, Open-hole, Morrison 4, Bluff zones

Hallwood Energy Companies

Well History Record

WELL: USA #1

LOCATION: 812' FSL X 804' FEL (SESE)
SECTION 24-T32N-R14W, SAN JUAN CO

SPUD DATE: 6/20/80

COMPL. DATE: 7/10/80

T.D.: 7000' PBDT: 6970'

FIELD: BASIN DAKOTA

ZONES: DAKOTA # MESA VERDE

PERFS: 6814-6970' gross || 4606-4696'
15 HOLES || 21 HOLES

ELEVATIONS: 5936' KB, 5925' GL

STIMULATION:

DAKOTA: 1500 GALLONS 15% HCL

55,230 GALLONS MINI-MAX

III-30 # 81,288# 20/40 SAND

MESA VERDE: 2300 GALLONS 15% HCL

128,352 gals. 2% KCL

WATER # 20/40 SAND.

NOTE: PRODUCTION CASING CEMENTED

VIA 3-STAGE JOB.

1ST STAGE: 437 SX 50/50 POZ #
50 SX CLASS B. EST TOP 5058'

2ND STAGE: DV TOOL @ 4844' CMT W/
434 SX 50/50 POZ. CMC.
FILL 4844 TO 2849'

3RD STAGE: DV TOOL @ 2404', CMT W/
634 SX 50/50 POZ X 140 SX
50/50 POZ W/ 6% GEL, 10 Bbls CIRC.

Surface
8 5/8" . 23.56 #
Gr _____ @ 312'
Cmt. w/ 225 SX Sxs.
TOC @ SURFACE
Hole Size 12 1/4"
Max Mud Wt. _____ #

DV TOOL AT 2404'

FORMATION TOPS

KIRTLAND 400'
MESA VERDE 1620'
PICTURED CLIFFS 2120'
TO CHACRA 2920'
Dv TOOL @ 4844'
MESA VERDE 3815'
GALLUP 4855'
DAKOTA 6810'

Production
4 1/2" . 10.5 #

Gr _____ @ 6995'
Cmt. w/ 1645 * Sxs.
TOC @ SURFACE
Hole Size 7 7/8"
Max Mud Wt. _____ #

4 1/2" 10.5 # CSG.
ID = 4.052"
DRIFT = 3.927"

PROPOSED 3 7/8" hole to 7800'

EST. TOPS: MORRISON 7060'

Bluff 7600'

Summerville 7750'

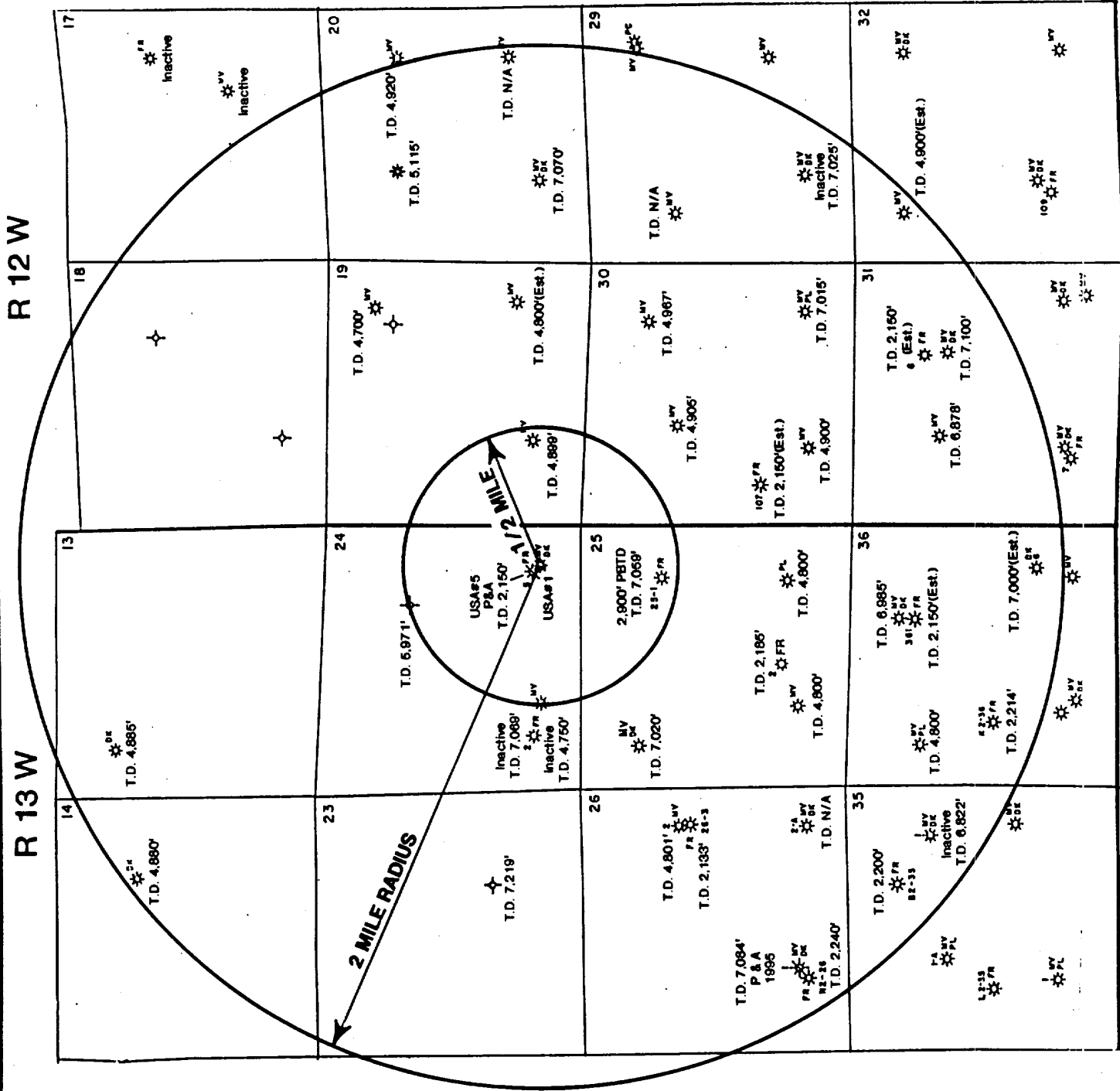
PROPOSED
DISPOSAL
ZONE

DAKOTA/MORRISON/BLUFF

T 32 N

R 12 W

R 13 W



PRODUCTION CODE:
DK-DAKOTA
FR-FRUITLAND
MV-MESA VERDE
PL-POINT LOOKOUT
PC-PICTURED CLIFFS

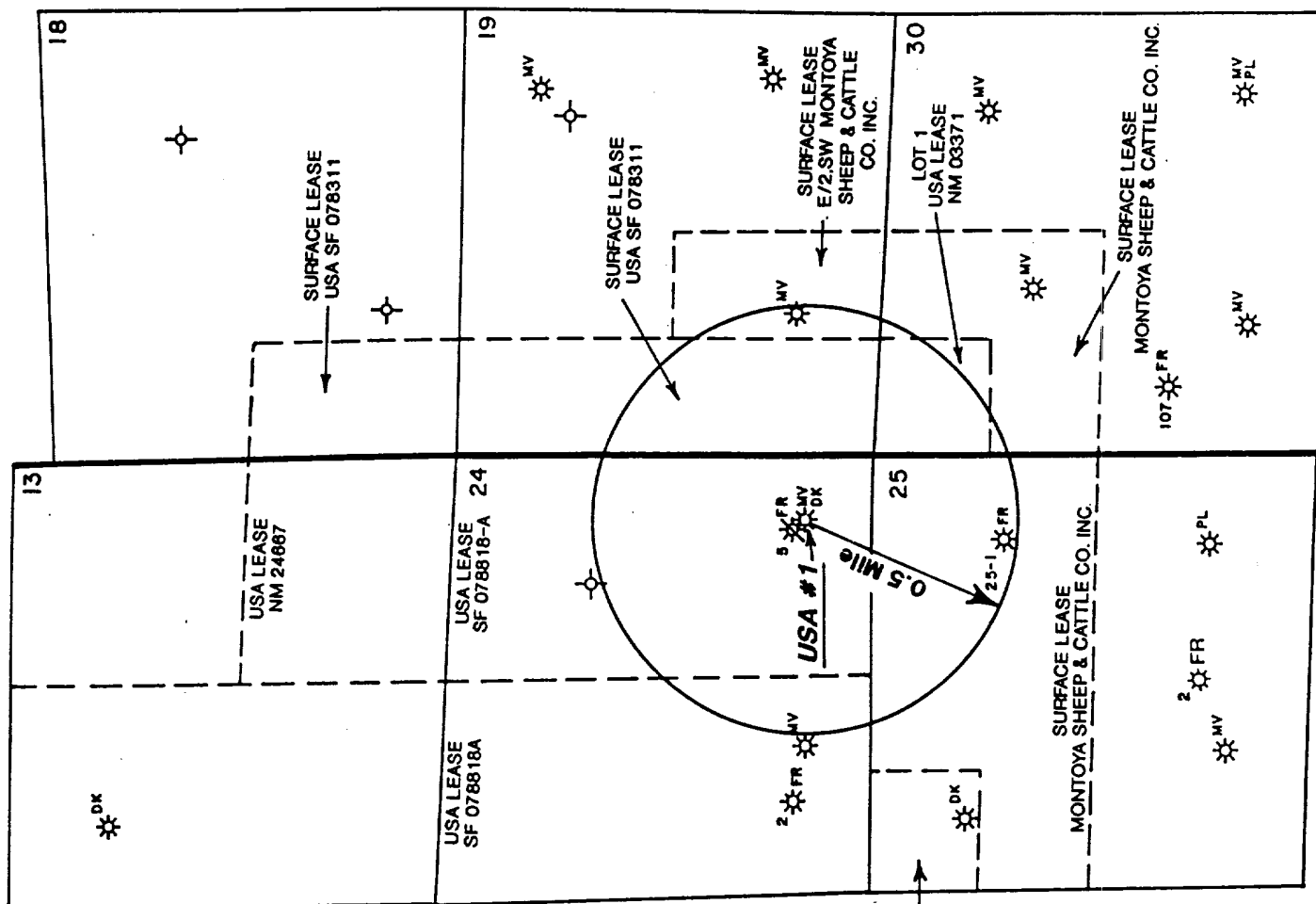
Hallwood Petroleum, Inc.

LA PLATA AREA
USA #1 SWD WELL
OFFSET WELLS PERTAINING
TO APPLICATION FOR
WATER DISPOSAL

SE SE SECTION 24-T32N-R13W
San Juan Co., New Mexico 3/96

R 12 W

R 13 W



NW NW
USA LEASE -
SF 078818A

<u>SECTION</u>	<u>OPERATOR</u>
13	MERIDIAN OIL INC.
W/2 24	MERIDIAN OIL INC.
E/2 24	HALLWOOD PETROLEUM INC.
N/2 25	HALLWOOD PETROLEUM INC.
18	(SEE ATTACHED LIST OF WORKING INTEREST OWNERS)
19	(SEE ATTACHED LIST OF WORKING INTEREST OWNERS) AND MERIDIAN OIL INC.
30	(SEE ATTACHED LIST OF WORKING INTEREST OWNERS) AND MERIDIAN OIL INC.

Hallwood Petroleum, Inc.

LA PLATA AREA

USA#1 SWD WELL

OFFSET LEASE OWNERS PERTAINING TO APPLICATION FOR WATER DISPOSAL

SE SE SECTION 24-T32N-R13W
San Juan Co., New Mexico

3/96

FINNEY LAND CO.

OIL & GAS CONSULTING

P.O. BOX 2471

DURANGO, CO 81302

PHONE: (970) 259-5691 • FAX (970) 259-4279

February 21, 1996

Connie Heath
District Land Manager
Rocky Mountain/Mid-Continent District
Hallwood Petroleum, Inc.
P.O. Box 378111
Denver, CO 80237

Re: Lease Check
24 T32N-R13W

Dear Ms. Heath:

Per your request of February 5, 1996, the following are the names and addresses of the owners of surface and working interest as to the Dakota formation, within a 2 mile radius of the USA 1 well located in the SESE of Section 24 T32N-R13W; with the exception of the B. Montoya 25 #1M well located in the NWNW of Section 25 and operated by Hallwood Petroleum, Inc., there are no other Dakota formation wells in this area.

Township 32 North - Range 13 West

<u>Description</u>	<u>Surface</u>	<u>Working Interest</u>
13: Lots 5,6,11, 12, (aka SE)	USA Lease NM 24667	Marshall & Winston, Inc. 10 Desta Drive Midland, TX 79705 Meridian Oil Inc. P.O. Box 4289 Farmington, NM 87499
24: Lots 1-4, SW (aka W2)	USA Lease SF 078818A	Meridian Oil Inc.
25: NWNW	USA Lease SF 078818A	Hallwood Petroleum, Inc. et al
25: NE, E2NW, SWNW	Montoya Sheep & Cattle Co., Inc. 1610 Highway 170 La Plata, NM 87418	Hallwood Petroleum, Inc. et al

Connie Heath
21 February 96
Page Two

Township 32 North-Range 12 West

<u>Description</u>	<u>Surface</u>	<u>Working Interest</u>
18: Lots 3,4, E2SW	USA Lease SF 078311	C.W. Murchison Estate 1201 Main St. Dallas, TX 75202 Frank Schultz, Trustee 500 N. Akard Dallas, TX 75201 James Glenn Turner, Jr. 500 Trammel Crow Center Dallas, TX 75206 Wm. G. Webb 1704 Main St. Dallas, TX 75206
19: Lots 1-4, E2NW	USA Lease SF 078311	Meridian Oil Inc. P.O. Box 4289 Farmington, NM 87499 Frank Schultz, Trustee 500 N. Akard Dallas, TX 75201 James Glenn Turner, Jr. 500 Trammel Crow Center Dallas, TX 75206 Wm. G. Webb 1704 Main St. Dallas, TX 75206 Meridian Oil Inc. P.O. Box 4289 Farmington, NM 87499 C.W. Murchison Estate 1201 Main St. Dallas, TX 75202

Connie Heath
21 February 96
Page Three

<u>Description</u>	<u>Surface</u>	<u>Working Interest</u>
19: E2SW	Montoya Sheep & Cattle Co., Inc. 1610 Highway 170 La Plata, NM 87418	Meridian Oil Inc.
30: E2NW, SWNW	Montoya Sheep & Cattle Co., Inc. 1610 Highway 170 La Plata, NM 87418	Meridian Oil Inc.
30: Lot 1	USA Lease NM 03371	Meridian Oil Inc. P.O. Box 4289 Farmington, NM 87499 Frank Schultz, Trustee 500 N. Akard Dallas, TX 75201 James Glenn Turner, Jr. 500 Trammel Crow Center Dallas, TX 75206 Frederick E. Turner 4925 Greenville Ave. Dallas, TX 75206 Elizabeth J. Turner Calloway 4801 St. Johns Dallas, TX 75205 John Lee Turner 8585 N. Stemmons #925 Dallas, TX 75247 M. Trust Corp., NA, Dallas, Trustee for Mary Frances Turner Jr. Trust Box 2320 Dallas, TX 75202

Connie Heath
21 February 96
Page Four

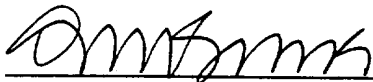
<u>Description</u>	<u>Surface</u>	<u>Working Interest</u>
30: Lot 1 (continued)		Wm. G. Webb 1704 Main St. Dallas, TX 75206 C.W. Murchison Estate 1201 Main St. Dallas, TX 75202

Attached is a listing of Dakota formation wells as obtained from the New Mexico Oil and Gas Commission, within a two mile radius of the USA #1 well.

Sincerely,

FINNEY LAND CO.

By:



D.M. Sims, Broker

EXHIBIT VI

Data on wells of Public Record within the area of review which penetrate the proposed injection zone.

NOTE: There are five (5) wellbores besides the USA #1 within the 1/2 mile "area of review". However, only one (1) wellbore, Hallwood's B. Montoya #25-1 in the NE/4 of Section 25-T32N-R13W, penetrated the Dakota zone. This well has since been plugged back, see information below and attached wellbore diagram. For the benefit of interested parties, we are also providing information on the remaining wells in the area of review.

B. Montoya #25-1

This former Dakota/Mesa Verde well was plugged back in 1989. The Mesa Verde & Dakota zones were cement squeezed with approximately 790 cubic feet of cement, due to a fish in the well. This calculates 188% of casing capacity, so there should be adequate amounts of cement in the zones to insure satisfactory zone isolation. This plugback procedure was approved by Frank Chavez and Ernie Busch in the NMOCO-Aztec Office on September 13, 1989.

A second plug exists from 2900' to 3000' in the wellbore, along with a cement retainer. Please see the attached wellbore diagram.

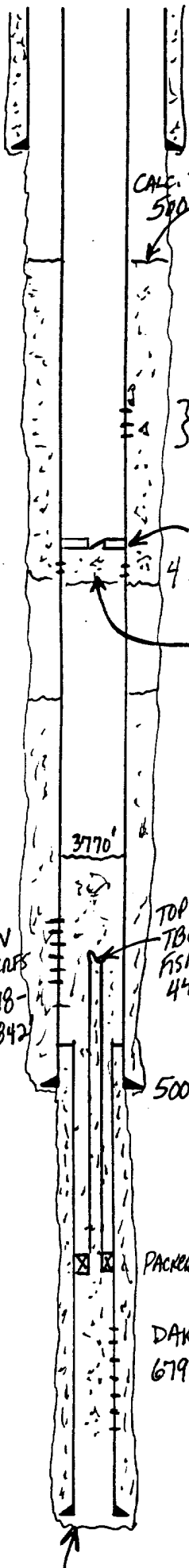
EXHIBIT VI

Tabulation of Well Data

<u>Operator</u>	<u>Well Name</u>	<u>Location</u>	<u>Type Well</u>	<u>Date Drilled</u>	<u>Total Depth</u>	<u>Completion Interval</u>	<u>Remarks</u>
Hallwood Petroleum, Inc.	B. Montoya #25-1	NE Sec. 25-T32N-R13W	Fruitland Coal Gas	1979	7059'	Original MV: 4018-4842' DK: 6796-6992' Current FR: 2106-2156'	Plugged back to 2900' in 1989 (see schematic)
Meridian Oil	USA #1	SE SW Sec. 24-T32N-R13W	Inactive SI	1981	4750'	MV: 4484-4526'	Mesa Verde last produced in 1991.
Meridian Oil	Culpepper-Martin #8	Unit N, SE SW Sec. 19-T32N-R12W	Active Mesa Verde gas well	1958	4899'	MV: 4614-4696'	Producing MV gas well
John H. Hill, et al	USA #1-M	NE Sec. 24-T32N-R 13W	P & A	1981	5971'	MV: 4136-4188'	Pea'd 1981, btm 4 1/2" csg at 4474', five (5) plugs set from 0-4125'
Hallwood Petroleum, Inc.	USA #5	SE Sec. 24-T32N-R13W	P & A	1992	2150'	FC: 2057-2143'	Pea'd 1994 with 334 sxs of cement

Hallwood Energy Companies

Well History Record



Surface
9 5/8", 36"
Gr K-55 @ 262'
Cmt.wt 250 Sxs.
TOC @ SURFACE
Hole Size _____
Max Mud Wt. _____

} FRUITLAND COAL PERFS
2106 - 2136'

CEMENT RETAINER @ 2900'

4 Squeeze Holes @ 3000'

1695x LITE &
SQUEEZE WITH 2575x CEMENT
TAIL

INTERMEDIATE Production

7", 20x23"
Gr K-55 @ 5001'
Cmt.wt 300 Sxs.
TOC @ _____
Hole Size _____
Max Mud Wt. _____

PACK 25915'

DAKOTA
6796-6992' PRODUCTION LINER

4 1/2" 11.6"

K-55 @ 4892' - 7050'

CMT w/ 270 SXS 50/50 POZMIX

FOLLOWED BY 150 SXS CLASS B NEAT
CIRCULATE CMT ABOVE LINER TOP

WELL: B. MONTROYA #25-1

LOCATION: SE NE SECTION 25 (UNIT H)
(1850' FNL x 790' FEL) T32N-R13W

SPUD DATE: 02-14-79

COMPL. DATE: 3/79

T.D.: 7059' P.B.T.D.: 2900'

ORIG. BLANCO MV & BASIN DAKOTA
FIELD: CURRAT FIELD: BASIN FRUITLAND
CURRENT
ZONE: BASIN FRUITLAND COAL

PERFS: 2106 - 2136'

ABANDONED: MESA VERDE: 4018 - 4842'
PERFS

DAKOTA: PERFS: 6796 - 6992'

STIMULATION:

9/14/89: VIA TB6 X PRR AT 3746'

CMT SQUEEZED MV X DAKOTA WITH

240 SXS HALLIBURTON LITE &

375 SXS CLASS B NEAT CMT.

INITIAL PRESS = 1100# FINAL = 2000#

TAB CMT @ 3770' w/ WIROLINE.

NOTE: CMT VOLUME CALCULATES

AT 791 ft³

7" CSG = (4892 - 3770) = 1122' x 0.2273

= 255 ft³

4 1/2" CSG = (6796 - 4892) = 1904' x 0.0872

= 166 ft³

421 ft³

SO VOLUME PUMPED WAS
188% OF CASING CAPACITY

3/14/96

EXHIBIT VII

USA #1 SWD

Data on the proposed operation:

- 1) Average Daily Injection Rate: 550 BWPD
 Maximum Daily Injection Rate: 1200 BWPD
- 2) The proposed system will be an open system from water trucked and piped to Hallwood's water evaporation disposal pond located in Section 25-T32N-R13W. However, from that evaporation pond we intend to pump to the USA #1 via an existing pipeline.
- 3) Average Injection Pressure: 750 psig
 Maximum Injection Pressure: 2000 psig
- 4) The source of the injection fluid is Hallwood's 20 surrounding Fruitland Basin Coal Field wells. An analysis of this composite water from our evaporation pond is attached as Exhibit No. VII. A.

No compatibility problems are anticipated between the produced water being disposed and the receiving zone water (being Dakota/Morrison/Bluff). The Dakota zone is depleted in the immediate 1/2 mile area of the proposed USA #1 SWD. Exhibit No. VIII. B. is a list of Dakota wells within the 2-mile area.

The Morrison/Bluff formations are not oil and gas productive but are widely accepted zones for water disposal; thus, no compatibility problem is anticipated.

General Water Quality

Hallwood Petroleum, Inc.

Project ID: Hallwood Evaporation Pond

Date Reported: 08/29/95

Sample ID: Top

Date Sampled: 08/24/95


Laboratory ID: 1349

Time Sampled: 11:10

Sample Matrix: Water

Date Received: 08/24/95

Parameter	Analytical Result	Units
General		
Lab pH.....	9.0	s.u.
Lab Conductivity @ 25° C.....	31,500	µmhos/cm
Total Dissolved Solids @ 180°C.....	21,100	mg/L
Total Dissolved Solids (Calc).....	19,900	mg/L
Specific Gravity.....	1.021	
Anions		
Total Alkalinity as CaCO ₃	12,600	mg/L
Bicarbonate Alkalinity as CaCO ₃	8,460	mg/L
Carbonate Alkalinity as CaCO ₃	4,100	mg/L
Hydroxide Alkalinity as CaCO ₃	NA	mg/L
Chloride.....	4,250	mg/L
Sulfate.....	< 10	mg/L
Nitrate + Nitrite - N.....	NA	
Nitrate - N.....	NA	
Nitrite - N.....	NA	
Cations		
Total Hardness as CaCO ₃	437	mg/L
Calcium.....	28.3	mg/L
Magnesium.....	89.0	mg/L
Potassium.....	45.0	mg/L
Sodium.....	8,000	mg/L
Total Iron.....	1.52	mg/L
Data Validation		<u>Acceptance Level</u>
Cation/Anion Difference.....	1.80	+/- 5 %
TDS (180):TDS (calculated).....	1.06	1.0 - 1.2
Reference	U.S.E.P.A. 600/4-79-020, <u>Methods for Chemical Analysis of Water and Wastes</u> , 1983. <u>Standard Methods For The Examination Of Water And Wastewater</u> , 18th ed., 1992.	



Review

General Water Quality Hallwood Petroleum, Inc.

Project ID:	Hallwood Evaporation Pond	Date Reported:	08/29/95
Sample ID:	Bottom	Date Sampled:	08/24/95
Laboratory ID:	1348	Time Sampled:	11:15
Sample Matrix:	Water	Date Received:	08/24/95

Parameter	Analytical Result	Units
General		
Lab pH.....	9.0	s.u.
Lab Conductivity @ 25° C.....	31,400	µmhos/cm
Total Dissolved Solids @ 180°C.....	20,900	mg/L
Total Dissolved Solids (Calc).....	20,700	mg/L
Specific Gravity.....	1.020	
Anions		
Total Alkalinity as CaCO ₃	13,100	mg/L
Bicarbonate Alkalinity as CaCO ₃	9,090	mg/L
Carbonate Alkalinity as CaCO ₃	4,050	mg/L
Hydroxide Alkalinity as CaCO ₃	NA	mg/L
Chloride.....	4,250	mg/L
Sulfate.....	14.0	mg/L
Nitrate + Nitrite - N.....	NA	
Nitrate - N.....	NA	
Nitrite - N.....	NA	
Cations		
Total Hardness as CaCO ₃	462	mg/L
Calcium.....	32.4	mg/L
Magnesium.....	92.6	mg/L
Potassium.....	46.0	mg/L
Sodium.....	8,400	mg/L
Total Iron.....	1.55	mg/L
Data Validation		<u>Acceptance Level</u>
Cation/Anion Difference.....	0.94	+/- 5 %
TDS (180):TDS (calculated).....	1.01	1.0 - 1.2
Reference	U.S.E.P.A. 600/4-79-020, <u>Methods for Chemical Analysis of Water and Wastes</u> , 1983. <u>Standard Methods For The Examination Of Water And Wastewater</u> , 18th ed., 1992.	


Review

**General Water Quality
Quality Control Report**

Hallwood Petroleum, Inc.

Report Date: 08/29/95

Parameter	Analytical Result	Acceptance Range	Units
Laboratory pH	6.03	5.90 - 6.09	s.u.
Conductivity	1020	257 - 297	µmhos/cm
Total Dissolved Solids	754	634 - 824	mg/L
Total Alkalinity	132	117 - 146	mg/L
Chloride	121	113 - 131	mg/L
Sulfate	86.8	76.0 - 101	mg/L
Total Hardness	239	205 - 276	mg/L
Calcium	70.8	57.8 - 76.6	mg/L
Magnesium	NA	NA	mg/L
Potassium	92.0	78.1 - 106	mg/L
Sodium	140	125 - 169	mg/L
Total Iron	0.125	0.087 - 0.144	mg/L

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination Of Water And Wastewater, 18th ed., 1992.

Comments:



Reviewed

EXHIBIT VIII

USA #1 SWD

Part 1

The proposed injection zones are:

Name:	Dakota	Morrison	Bluff
Lithological Detail:	Medium to fine grained sandstones; imbedded with dark gray carbonaceous mudstones/coals	Reddish oxidized mudstones & sandstones	fluvial sandstone
Geological Name:	Lower Cretaceous	Upper Jurassic	Upper Jurassic
Thickness:	250'	540'	150'
Depth:	6810'	7060'	7600'

NOTE: Also reference attached (Exhibit VIII. B.) list of Dakota wells within 2-mile area.

Part 2

Underground sources of drinking water or aquifers containing total dissolved solids of 10,000 mg/l or less:

The potential zones for aquifers in the area of this well (USA #1) are the Nacimiento (estimated at 500-600') and OJO Alamo (at 1090'). However, they are not utilized as water sources in the immediate area, and no fresh water wells exist within one mile of the USA #1 (see Exhibit XI).

According to the New Mexico Bureau of Mines Hydrologic Report #6, many of the "traditional" water zones or aquifers are truncated or not present near this USA #1 location. "The Nacimiento grades into the Animas Formation. The Animas Formation is exposed only in a narrow belt around the Northeast part of the study area and along the LaPlata River Valley near the Colorado Border." (pg. 30). Any potential aquifers are adequately separated by casing, cement and distance (over 5000') in the USA #1 well bore.

DAKOTA FORMATION WELLS

The following is a listing of Dakota formation wells located within a two mile radius of the E2 Section 24, Township 32 North, Range 13 West, which is the spacing unit for the USA #1 well located in the SESE of said unit.

Township 32 North, Range 12 West

Section 17: All	No Dakota formation wells
Section 18: All	No Dakota formation wells
Section 19: All	No Dakota formation wells
Section 30: All	No Dakota formation wells
Section 20: S2	Well: Culpepper Martin #12 Operator: Meridian Oil Inc.
Section 29: W2	Well: Culpepper Martin #13 Operator: Meridian Oil Inc.
Section 31: W2	Well: Culpepper Martin #5 Operator: Meridian Oil Inc.
Section 31: E2	Well: Culpepper Martin #1A Operator: Meridian Oil Inc.
Section 31: W2	Well: Culpepper Martin #5M Operator: Meridian Oil Inc.
Section 31: E2	Well: Culpepper Martin #1E Operator: Meridian Oil Inc.
Section 32: W2	Well: Culpepper Martin #10 Operator: Meridian Oil Inc.

Township 32 North, Range 13 West

Section 13: N2	Well: State Line #1 Operator: Meridian Oil Inc.
Section 14: E2	Well: State Line #2 Operator: Meridian Oil Inc.
Section 23: All	No Dakota formation wells

Township 32 North, Range 13 West

Section 24: W2	Well: USA #2 (Zone Abandoned) Operator: Meridian Oil Inc
Section 24: E2	Well: USA #1 Operator: Hallwood Petroleum Inc.
Section 25: N2	Well: B. Montoya 25 #1M Operator: Hallwood Petroleum Inc.
Section 26: E2	Well: Ripley #2A Operator: Meridian Oil Inc.
Section 35: E2	Well: Montoya #1M Operator: Snyder Oil Corporation
Section 36: E2	Well: Wright State Com #1 and #1E Operator: Meridian Oil Inc.

EXHIBIT IX

USA #1 SWD

Proposed Stimulation

Hallwood proposes to reperforate the Dakota formation zones as follows:

6810 - 6840'
6890 - 6894'
6900 - 6905'
6915 - 6925'
6935 - 6940'
6955 - 6965'
6970 - 6975'

These Dakota perms would then be fracture stimulated with 150,000 gallons of "slickwater" and 180,000 pounds of 20/40 size sand.

In the event the well is deepened to the Morrison and Bluff formations, Hallwood requests approval to fracture stimulate these zones via 3 7/8" open hole and leave the proposed open hole interval from 6995 - 7800' open hole due to the small tubulars that would be required.

According to Rule 702, injection wells shall be cased with safe and adequate casing or tubing so as to prevent leakage, and such casing or tubing shall be so set and cemented as to prevent the movement of formation or injected fluid from the injection zone into any other zone or to the surface around the outside of any casing string.

Because of the depth of these three disposal zones (6810-7800') and the existence of competent cemented casing from 0-6995', Hallwood believes that simultaneous disposal into a cased and cemented Dakota zone and "open-hole" Morrison/Bluff zone would not cause any movement of fluids to other zones or in any way affect the surface lands.

EXHIBIT XI

USA #1 SWD

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 the location of wells and dates samples were taken:

A check with Mr. Paul Cervatra of the State Engineer's office on February 27, 1996 revealed that no fresh water wells exist within one (1) mile of the USA #1 wellbore. Thus, no samples or analysis are being submitted.

EXHIBIT XII

USA #1 SWD

Affirmative Statement

I, Kevin E. O'Connell, as a Registered Professional Engineer in the State of Colorado, have examined all available engineering data in conjunction with the USA #1 disposal well application, and have found no evidence of open faults or other hydrological connection between the disposal zone and any underground source of drinking water.

Signed: Kevin E. O'Connell
Kevin E. O'Connell
Drilling & Production Manager

Date: MARCH 15, 1996

I, Dan Spencers, as a Professional Geologist in the State of Wyoming, have examined all available geological data in conjunction with the USA #1 disposal well application, and have found no evidence of open faults or other hydrological connection between the disposal zone and any underground source of drinking water.

Signed: Dan Spencers
Dan Spencers
Senior Staff Geologist

Date: Mar. 15, 1996

EXHIBIT XIV

USA #1 SWD

List of Landowner and Leasehold Owner/Operators
Within One-Half Mile Radius for Proof of Notice

<u>Description</u>	<u>Surface</u>	<u>Leasehold Owner</u>
Surface Land E/2 Sec. 24-T32N-R13W USA #1 Location	USA Lease SF 078818A	1) Federal Government C/O Bureau of Land Management Farmington District Office 1235 LaPlata Highway Farmington, NM 87401
Sec. 24-T32N-R13W Lots 1-4 & SW (aka W/2)	USA Lease SF 078818A	2) Meridian Oil, Inc. P. O. Box 4289 Farmington, NM 87499
Sec. 25-T32N-R13W NE, E2NW, SWNW	Montoya Sheep & Cattle Co., Inc. 1610 Hwy 170 Laplata, NM 87416	Hallwood Petroleum, Inc. P. O. Box 378111 Denver, CO 80237 Meridian Oil, Inc. P. O. Box 4289 Farmington, NM 87499
Sec. 19-T32N-R12W Lots 1-4, E2NW	USA Lease SF 078311	Meridian Oil, Inc. P. O. Box 4289 Farmington, NM 87499 3) Frank Schultz, Trustee 500 N. Akard Dallas, TX 75201 4) James Glenn Turner, Jr. 500 Trammel Crow Center Dallas. TX 75206 5) Wm. G. Webb 1704 Main St. Dallas, TX 75206 6) C. W. Murchison Estate 1201 Main St. Dallas, TX 75202

USA #1 SWD

<u>Description</u>	<u>Surface</u>	<u>Leasehold Owner</u>
Sec. 19: E2SW	Montoya Sheep & Cattle Co., Inc. 1610 Hwy 170 LaPlata, NM 87418	Meridian Oil, Inc.
Sec. 30: E2NW, SWNW	Montoya Sheep & Cattle Co., Inc. 1610 Hwy 170 LaPlata, NM 87418	Meridian Oil, Inc.
Sec. 30: Lot 1	USA Lease NM 03371	Meridian Oil, Inc. P. O. Box 4289 Farmington, NM 87499 Frank Schultz, Trustee 500 N. Akard Dallas, TX 75201 James Glenn Turner, Jr. 500 Trammel Crow Center Dallas, TX 75206 7) Frederick E. Turner 4925 Greenville Ave. Dallas, TX 75208 8) Elizabeth J. Turner Calloway 4801 St. Johns Dallas, TX 75205 9) John Lee Turner 8585 N. Stemmons, #925 Dallas, TX 75247 10) M. Trust Corp., NA, Dallas, Trustee for Mary Frances Turner, Jr. Trust Box 2320 Dallas, TX 75202 Wm. G. Webb 1704 W. Main St. Dallas, TX 75206

USA #1 SWD

<u>Description</u>	<u>Surface</u>	<u>Leasehold Owner</u>
Sec. 30: Lot 1	USA Lease NM 03371	C. W. Murchison Estate 1201 Main St. Dallas, TX 75202

NOTE: Proof of Notice to be mailed to parties 1-10 as noted above.

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 946
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
Federal Government, C/O Bureau of Land Management
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

Gentlemen:

Hallwood Petroleum, Inc. is providing you notice, via this letter and a copy of our enclosed application, of plans to seek administrative approval for authorization to dispose of produced water from Hallwood coal gas wells into the captioned well.

We are proposing to dispose into the Dakota formation and also the Morrison and Bluff zones.

Sincerely,

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell

Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KBO96.019

P 468 649 946

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	Federal Government C/O BLM
Street Address	Farmington Dist Off 1235 LaPlata Highway
Post Office State & ZIP Code	Farmington, NM 87401
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

O'Connell

USA #1 SWD

Postmark line over top of envelope to

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 947
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
Meridian Oil, Inc.
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

Gentlemen:

Hallwood Petroleum, Inc. is providing you notice, via this letter and a copy of our enclosed application, of plans to seek administrative approval for authorization to dispose of produced water from Hallwood coal gas wells into the captioned well.

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Sincerely,

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell

Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KEO96.019

P 468 649 947

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	Meridian Oil, Inc.
Street & Number	P. O. Box 4289
Post Office, State, & ZIP Code	Farmington, NM 87499
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800 April 1995

O'Connell

USA #1 SWD

Fold at line over top of envelope to
show return address

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 948
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
Frank Schultz, Trustee
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

Gentlemen:

Hallwood Petroleum, Inc. is providing you notice, via this letter and a copy of our enclosed application, of plans to seek administrative approval for authorization to dispose of produced water from Hallwood coal gas wells into the captioned well.

We are proposing to dispose into the Dakota formation and also the Morrison and Bluff zones.

Sincerely,

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell
Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KEO96.019

P 468 649 948

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to Frank Schultz, Trustee	
Street & Number 500 N. Akard	
Post Office, State, & ZIP Code Dallas, TX 75201	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

O'Connell

USA #1 SWD

Place in the envelope

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 949
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
James Glenn Turner, Jr.
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

Gentlemen:

Hallwood Petroleum, Inc. is providing you notice, via this letter and a copy of our enclosed application, of plans to seek administrative approval for authorization to dispose of produced water from Hallwood coal gas wells into the captioned well.

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Sincerely,

P 468 649 949

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell
Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KEO96.019

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to James Glenn Turner, Jr.	
Street & Number 500 Trammel Crow Center	
Post Office, State, & ZIP Code Dallas, TX 75206	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

O'Connell

USA #1 SWD

For a full-text version of this document, see the following URL: <http://www.oea.gov/oea/oea.htm>

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 950
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
Wm. G. Webb
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

Gentlemen:

Hallwood Petroleum, Inc. is providing you notice, via this letter and a copy of our enclosed application, of plans to seek administrative approval for authorization to dispose of produced water from Hallwood coal gas wells into the captioned well.

We are proposing to dispose into the Dakota formation and also the Morrison and Bluff zones.

Sincerely,

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell

Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KEO96.019

P 468 649 950

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to Wm. G. Webb	
Street & Number 1704 Main St.	
Post Office, State, & ZIP Code Dallas, TX 75206	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

O'Connell

USA #1 SWD

Fold at line over top of envelope to

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 951
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
C. W. Murchison Estate
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

Gentlemen:

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Sincerely,

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell

Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KBO96.019

P 468 649 951

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to C. W. Murchison Estate	
Street & Number 1201 Main St.	
Post Office, State, & ZIP Code Dallas, TX 75202	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

O'Connell

USA #1 SWD

PS Form 3800, April 1995

Fold at line over top of envelope to the right of the return address.

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 952
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
Frederick E. Turner
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

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Sincerely,

HALLWOOD PETROLEUM, INC.



Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KEO96.019

P 468 649 952

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to Frederick E. Turner	
Street & Number 4925 Greenville Ave.	
Post Office, State, & ZIP Code Dallas, TX 75208	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

O'Connell

USA #1 SWD

Do not affix return envelope to this receipt

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 954
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
John Lee Turner
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

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Sincerely,

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell

Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KEO96.019

P 468 649 954

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to	John Lee Turner
Street & Number	8585 N. Stemmons, #925
Post Office, State, & ZIP Code	Dallas, TX 75247
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

O'Connell

USA #1 SWD

Fold this line over top of envelope to

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 955
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
M. Trust Corp., NA, Dallas
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

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HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell

Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KEO96.019

P 468 649 955

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to M. Trust Corp., NA, Dallas	
Street & Number Box 2320	
Post Office, State, & ZIP Code Dallas, TX 75202	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

O'Connell

USA #1 SWD

folded line over top, open envelope to see

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

March 15, 1996

CERTIFIED MAIL NO. P 468 649 953
RETURN RECEIPT REQUESTED

TO: Surface Owner and Offset Parties
Elizabeth J. Turner Calloway
USA #1 SWD Well

RE: Proof of Notice
Form C-108, Application for Authorization to Inject
Hallwood Petroleum, Inc.
Proposed USA #1 SWD Well
Unit P, SE SE, 812' FSL & 804' FEL
Section 24-T32N-R13W
San Juan County, New Mexico

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Sincerely,

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connell

Kevin E. O'Connell
Drilling & Production Manager
Rocky Mountain & Mid-Continent District

KEO/jea

Enclosures

cc: State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

KEO96.019

P 468 649 953

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to	
Elizabeth J. Turner Calloway	
Street & Number	
4801 St. Johns	
Post Office, State, & ZIP Code	
Dallas, TX 75205	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

O'Connell

USA #1 SWD

Place this receipt over top of envelope to
return to originator's address