

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

30-045-29023

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

Redfern

8. Well No.

2

9. Pool name or Wildcat

Basin Fruitland Coal 21629

2. Name of Operator

Hallwood Petroleum, Inc. 9812

3. Address of Operator

P. O. Box 378111, Denver, Colorado 80237

4. Well Location

Unit Letter H : 2440 Feet From The FNL Line and 905 Feet From The FEL Line

Section 33 Township 30N Range 12W NMPM San Juan County

10. Proposed Depth

1800'

11. Formation

Fruitland Coal

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

GR 5532', KB 5544'

14. Kind & Status Plug. Bond

Blanket B1595 231

15. Drilling Contractor

Four Corners

16. Approx. Date Work will start

12/3/93

17. 5732

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8-5/8"	24#	250'	175sx	Surface
7-7/8"	5-1/2"	15.5#	1800'	325sx	Surface

Hallwood Petroleum, Inc. proposes to drill a 12 1/4" hole with native mud to 250' and set 8 5/8" 24# J-55 casing at 250', cementing back to surface with approximately 175 sx of Class "B" cement. Drill 7-7/8" hole out of surface casing to 1800' with mud, log well and set 5 1/2" 15.50# J-55 production casing from 0-1800'. Cement to surface with approximately 250 sx of lead cement and 75 sx of Class "B" tail cement. Perforate and fracture stimulate coal interval and put well on beam pump to test well.

RECEIVED

NOV 23 1993

OIL CON. DIV.

This Approval

Expires 11-24-94

And Will Not Be

Extended

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSED IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE Kevin O'Connell DATE 11/22/93 TITLE Drlg. & Prod. Manager

TYPE OR PRINT NAME Kevin O'Connell (303) TELEPHONE NO. 850-7373

(This space for State Use)

APPROVED BY Jim Busch DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE NOV 24 1993

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

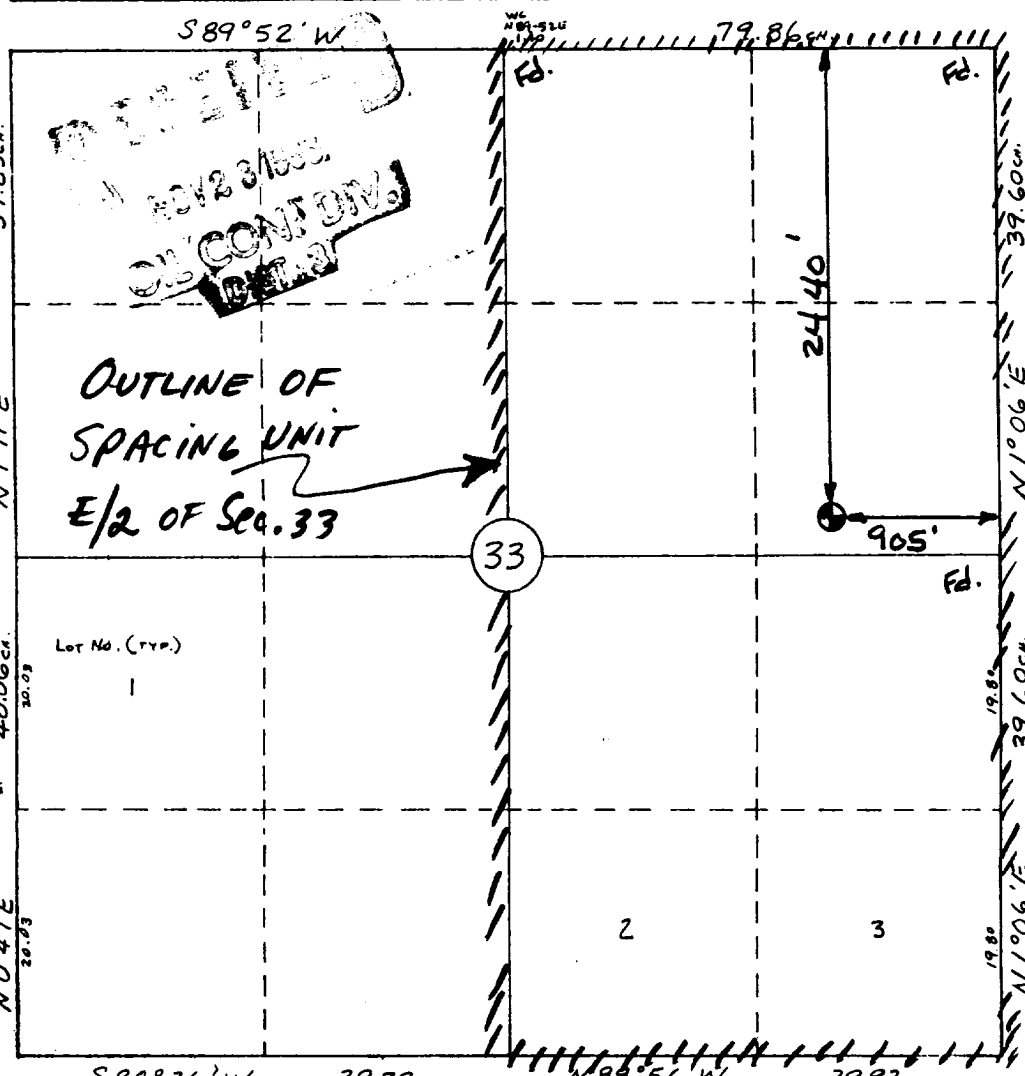
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Hallwood Petroleum Inc., one of the HALLWOOD ENERGY COMPANIES			Lease REDFERN		Well No. 2
Unit Letter H	Section 33	Township 30 N	Range 12 W	County San Juan	
Actual Footage Location of Well: 2440 feet from the North line and 905 feet from the East line					
Ground level Elev. 5732	Producing Formation FRUITLAND COAL		Pool BASIN FRUITLAND COAL	Dedicated Acreage (\pm) 320 Acres	
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____ If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>					

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0



OPERATOR CERTIFICATION

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

Signature **Kevin E. O'Connell**
Printed Name **KEVIN E. O'CONNELL**
Position **DRUG. & PROD. MANAGER**
Company **Hallwood Petroleum Inc.**
Date **11/22/93**

SURVEYOR CERTIFICATION

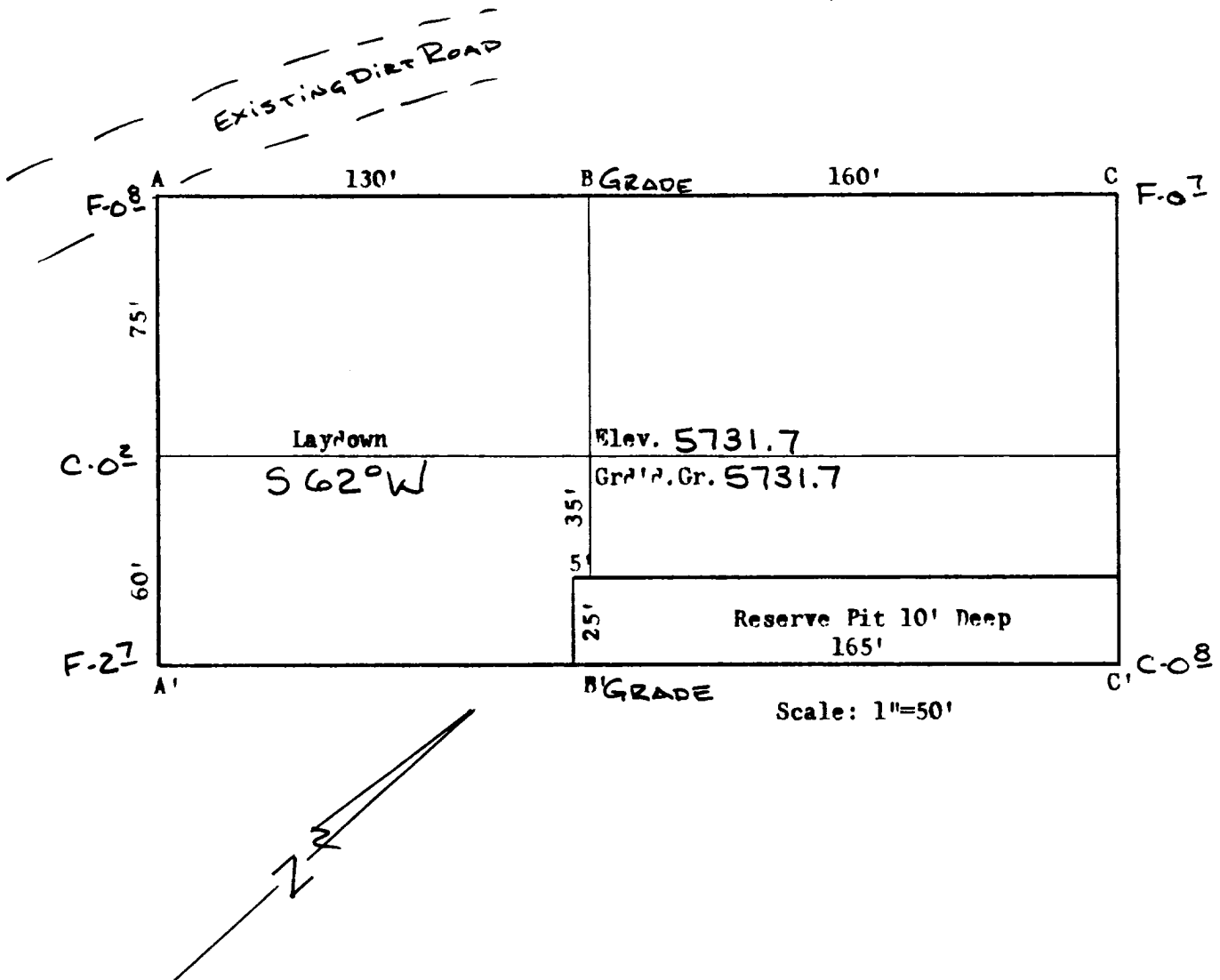
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. **10 Nov., 1993**

Date Surveyed **William F. Mahnke II**

Signature **WILLIAM F. MAHNKE II**
Professional Surveyor

Certificate No. **#8466**
NEW MEXICO
PROFESSIONAL LAND SURVEYOR

HALLWOOD ENERGY COMPANIES
 REDFERN #2
 2440' FNL & 905' FEL
 Sec. 33, T30N, R12W
 San Juan Co., N.M.

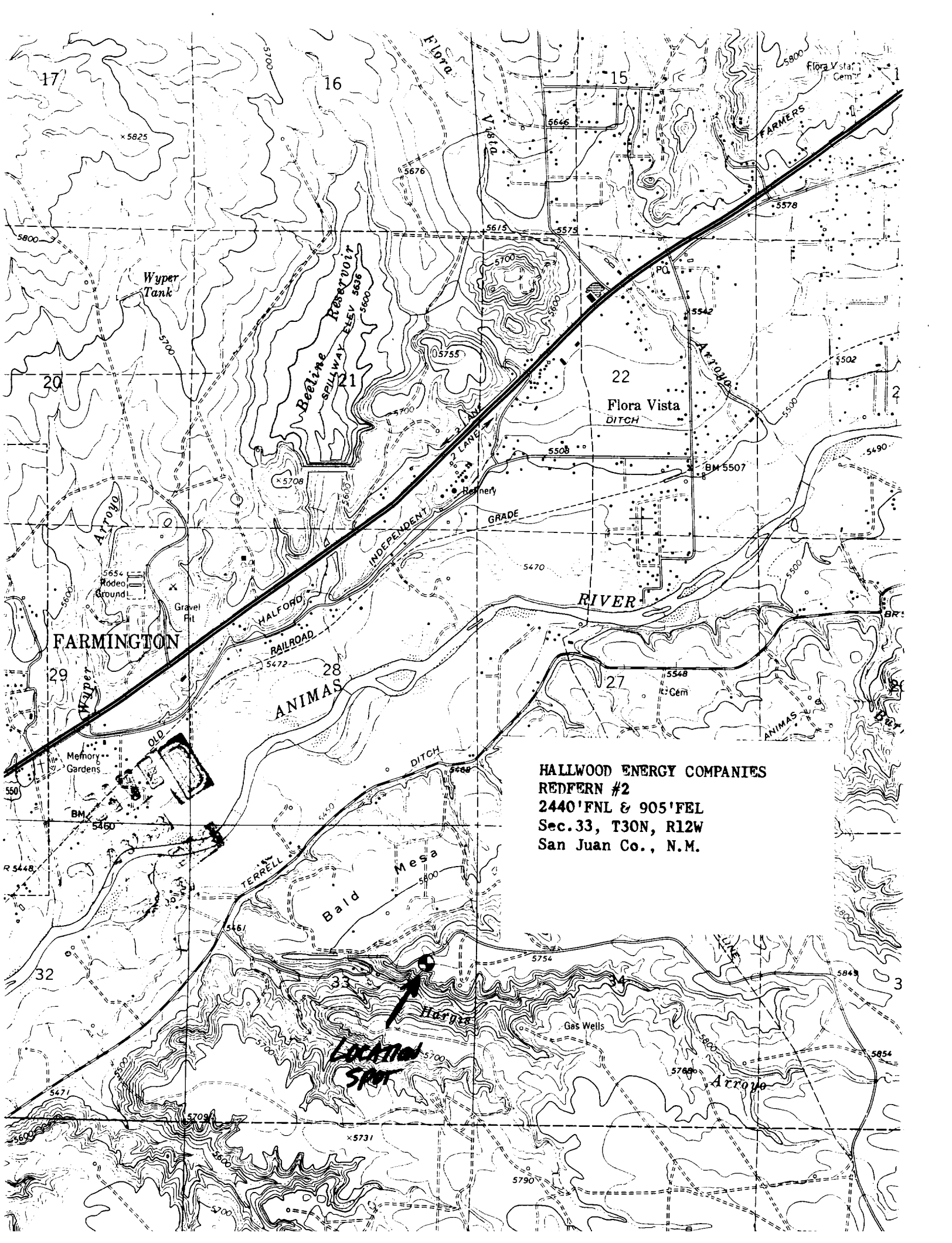


Scale: 1"=50'

A-A'	Vert.: 1" = 30'	Horiz.: 1" = 100'	C/L
5740	-----	-----	-----
5730	-----	-----	-----
5720	-----	-----	-----

B-B'
5740
5730
5720

C-C'
5740
5730
5720



HALLWOOD GEOLOGICAL PR 10518

DATE: 9/29/93 TYPE WELL: Fruitland Coal
WELL NAME: Redfern #2 FIELD/LEASE: Basin Fruitland
LOCATION: NE/4 Section 33-T30N-R12W (E/2 Spacing Unit)
COUNTY: San Juan STATE: New Mexico
ELEVATION: GR 5,578' (Est.) KB 5,590' (Est.) TIGHT HOLE: No

[illegible]

Samples: 1,300' to TD

Testing/Coring: None

Logging Program: GR, FDC (high resolution)

Known Area Problems: None

Wellsite Geologist/Mudlogger: None Planned

Remarks:

Name	Position	Mobil Phone	Home Phone	Office Phone
Jeff Pickett	- Prod. Foreman	(505)885-7020	(915)689-6963	(505)885-8764
Jim Bonaventura	-Area Supr.	(505)325-0492	(303)247-9662	(303)259-1374
Kevin O'Connell	-Drlg & Prod Manager	N/A	(303)838-2191	(303)850-6303
John Genziano	- Senior Engineer	N/A	(303)779-4133	(303)850-6223

DRILLING PROGNOSIS

OPERATOR Hallwood Petroleum, Inc.
WELL NAME Redfern #2
LOCATION NE/4 Section 33-T30N-R12W
COUNTY San Juan STATE New Mexico

DATE 9/29/93
PREPARED BY KEO
PROPOSED TD 1,800'

TUBULAR PROGRAM:

HOLE SIZE	CASING/TUBING	FROM	TO	SIZE	WEIGHT	GRADE	CPLG
12-1/4"	CSG	0	250'	8-5/8"	24#	J-55	STXC
7-7/8"	CSG	0	1,800'	5-1/2"	24# 15.5#	K-55	LTXC

MUD PROGRAM:

TYPE	DEPTH	RHEOLOGY -	WT	VIS	WL	ETC
Surface hole - Native mud.						
Production hole - Native mud with 45-50 viscosity for logging.						

CEMENT PROGRAM:

INTERVAL STAGE	EST. SLURRY VOLUME	SLURRY CHARACTERISTICS	EQUIPMENT: DV, SCRATCHER CENTRALIZERS, SHOE, ETC.
Surface Csg.*	175 sx	Class "B"	One centralizer on shoe it.
Production Csg.*	250 sx	Lead cemet (65:35) Poz) followed by	
	75 sx	Class "B" tail cement.	

*Cement both strings to surface.

BIT PROGRAM:

Footage contract, contractors responsibility.

DRILLING HAZARDS/PRODUCTION PROBLEMS:

Keep mud weight under 9.5 ppv to minimize any chance of lost circulation.

DEVIATION SURVEYS/PRODUCTION PROBLEMS:

Take Totco's every 300'.

WELLHEAD:

3000 psi (minimum) required.

SPECIAL EQUIPMENT/TECHNIQUE:

SPECIAL PERSONNEL REQUIREMENTS:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.	30-045-29023
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	Redfern 13514
8. Well No.	2
9. Pool name or Wildcat	Basin Fruitland Coal 71629

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	2. Name of Operator Hallwood Petroleum, Inc. 9812
3. Address of Operator P. O. Box 378111, Denver, Colorado 80237	4. Well Location Unit Letter H : 2440 Feet From The FNL Line and 905 Feet From The FEL Line

Section 33	Township 30N	Range 12W	NMPM	San Juan	County
10. Elevations (Show whether LF, RKB, RT, GR, etc.) 5732' GL, 5744' KB					

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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

See the attached procedure ...

RECEIVED
DEC 27 1993
OIL CON. DIV.
DIST 2

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

SIGNATURE Kevin E. O'Connell 12/21/93 TITLE Drilling & Production Manager DATE 12/21/93
TYPE OR PRINT NAME Kevin O'Connell 303 TELEPHONE NO. 850-7373

(This space for State Use)

APPROVED BY Original Signed by CHARLES GRULSON TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 2 DATE DEC 27 1993
CONDITIONS OF APPROVAL, IF ANY:

REDFERN #2
Attachment to C103
Casing Test & Cement Job

- 12/5/93 - Spud well (12 1/4" surface hole) at 9:30 PM.
- 12/6/93 - 1. TD 12 1/4" surface hole at 286'
2. Ran 6 joints of new 8 5/8" 24# J-55 casing
 (land at 261' KB) and cement with 250 sacks
 class B cement. Circ. 15 bbl cement to
 surface.
3. NU BOP's and test casing to 250 psi for 4 hrs.
- 12/8/93 - 1. TD 7 7/8" hole at 1950'.
2. Log well and ran 45 joints of new 5 1/2" 17#
 J-55 casing (land at 1936' KB). Cement with
 245 cubic feet of Pacemaker lead slurry and
 100 cubic feet of class B tail slurry.
 Circ. 5 bbls cement to surface.
3. Pressure test casing to 500 psi for 30 minutes.

Well to be completed in January/February 1994.
C-104 and C-105 will then be submitted.