

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

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

API NO. (assigned by OCD on New Wells)

30-045-29016

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

Baird 4

13524

2. Name of Operator

Hallwood Petroleum, Inc. 9812

8. Well No.

28 2 (E/320.90)

3. Address of Operator

P. O. Box 378111, Denver, Colorado 80237

9. Pool name or Wildcat

Basin Fruitland Coal 71829

4. Well Location

Unit Letter A : 790 Feet From The North Line and 790 Feet From The East Line

Section 4

Township 31N

Range 13W

NMPM

San Juan

County

10. Proposed Depth

2,215'

11. Formation

Fruitland Coal

12. Rotary or C.T.

Rotary

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

5850' GR 5862' KB

14. Kind & Status Plug. Bond

Blanket B1595231

15. Drilling Contractor

Not yet determined

16. Approx. Date Work will start

11/30/93

17. 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#	350	250 sx	surface
7-7/8"	5-1/2"	15.50#	2,215	350 sx	surface

Hallwood Petroleum, Inc. proposes to drill a 12-1/4" hole with native mud to 350' and set 8-5/8", 24#, J-55 casing to 350' cementing to surface with 250sxs Class "B" cement. Drill 7-7/8" hole out of surface casing to 2,215' with mud. Log well. Set 5-1/2", 15.50#, J-55 production casing to 2,215' cementing from the Fruitland Coal back to surface with 300 sxs lead cement followed by 50 sxs Class "B" tail cement. Test coal interval through perforations at 2,090' to 2,140'. Fracture stimulate with approximately 200,000#, 12/20 sand, flow to clean up well and put on rod pump with beam unit.

RECEIVED
NOV 5 1993

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL 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 E. O'Connell

TITLE

Drilling & Prod. Manager

DATE 11/2/93

TYPE OR PRINT NAME

Kevin O'Connell

(303) TELEPHONE NO. 850-6303

(This space for State Use)

APPROVED BY

Eric S. Smith

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. #3

DATE NOV - 9 1993

CONDITIONS OF APPROVAL, IF ANY:

This Approval

Expires 11-9-94

And Will Not Be

Extended

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WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Hallwood Petroleum, Inc.		Lease Baird <i>4</i>		Well No. 2 4
Unit Letter A	Section 4	Township 31N	Range 13W NMPM	County San Juan

Actual Footage Location of Well:

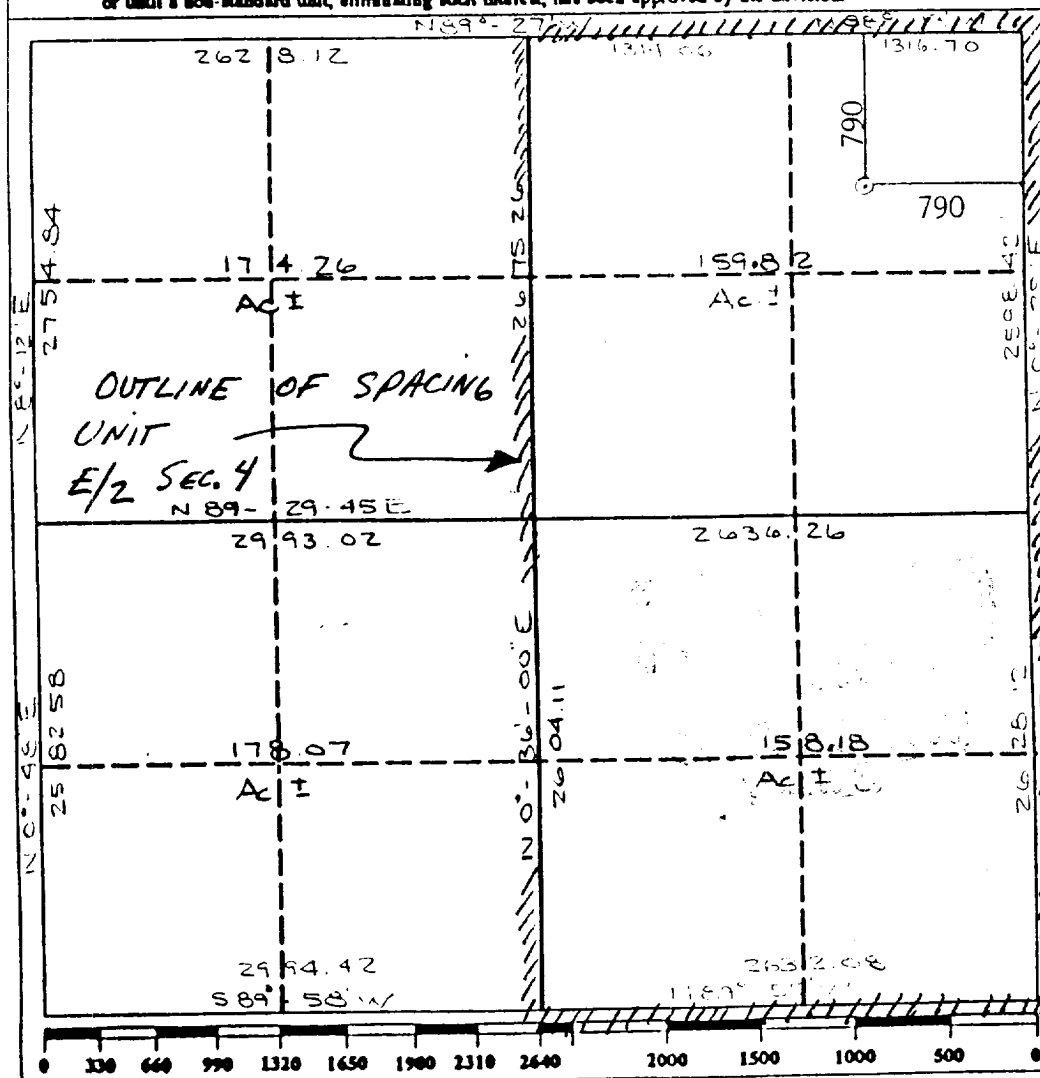
790 feet from the North line and 790 feet from the East line

Ground level Elev.	Producing Formation	Pool	Dedicated Acreage:
5853	Fruitland Coal	Basin Fruitland Coal	318(±) Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
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).
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.?

☐ Yes ☐ 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.



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. Kinnell

Printed Name
Kevin O'Connell

Position	Drlg. & Prod. Supervisor
Company	Hallwood Petroleum, Inc.

Date
September 14, 1993

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.

Date Surveyed B. TU 1999
September 1, 1999

Signature & Seal of
Professional Surveyor

Cedilla, Thailand
Certificate No. 9672

Scale: Horz. 1" = 50'
 Vert. 1" = 10'

HALLWOOD ENERGY CO.

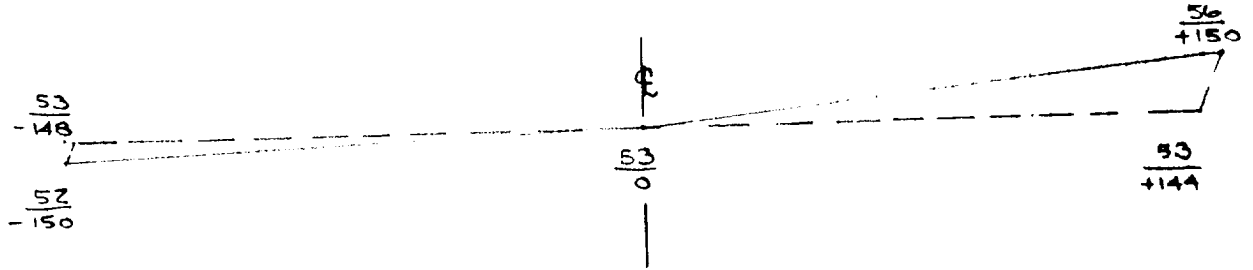
Barid 2-4

CUT.....1,732 CU. YDS.
 FILL.....707 CU. YDS.
 PIT EXCAVATION.....4,515 CU. YDS.

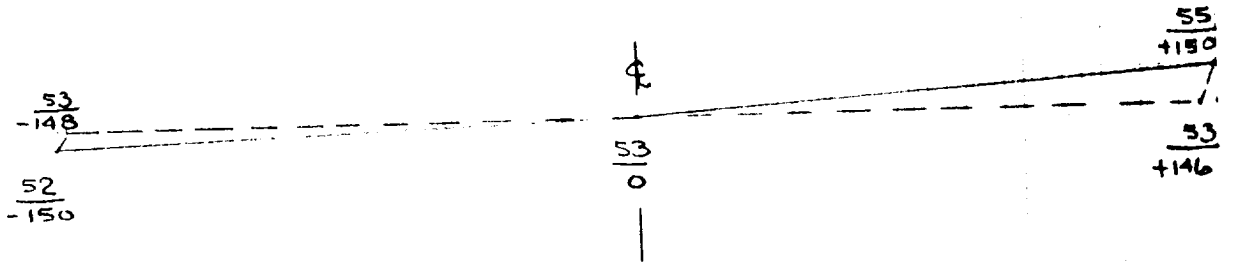
ZERO CUT/FILL SECTION

0+00

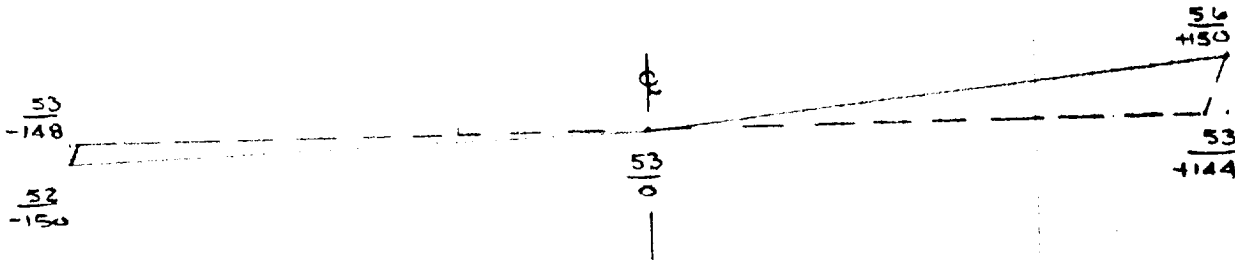
0+02



1+50



2+58



2+60

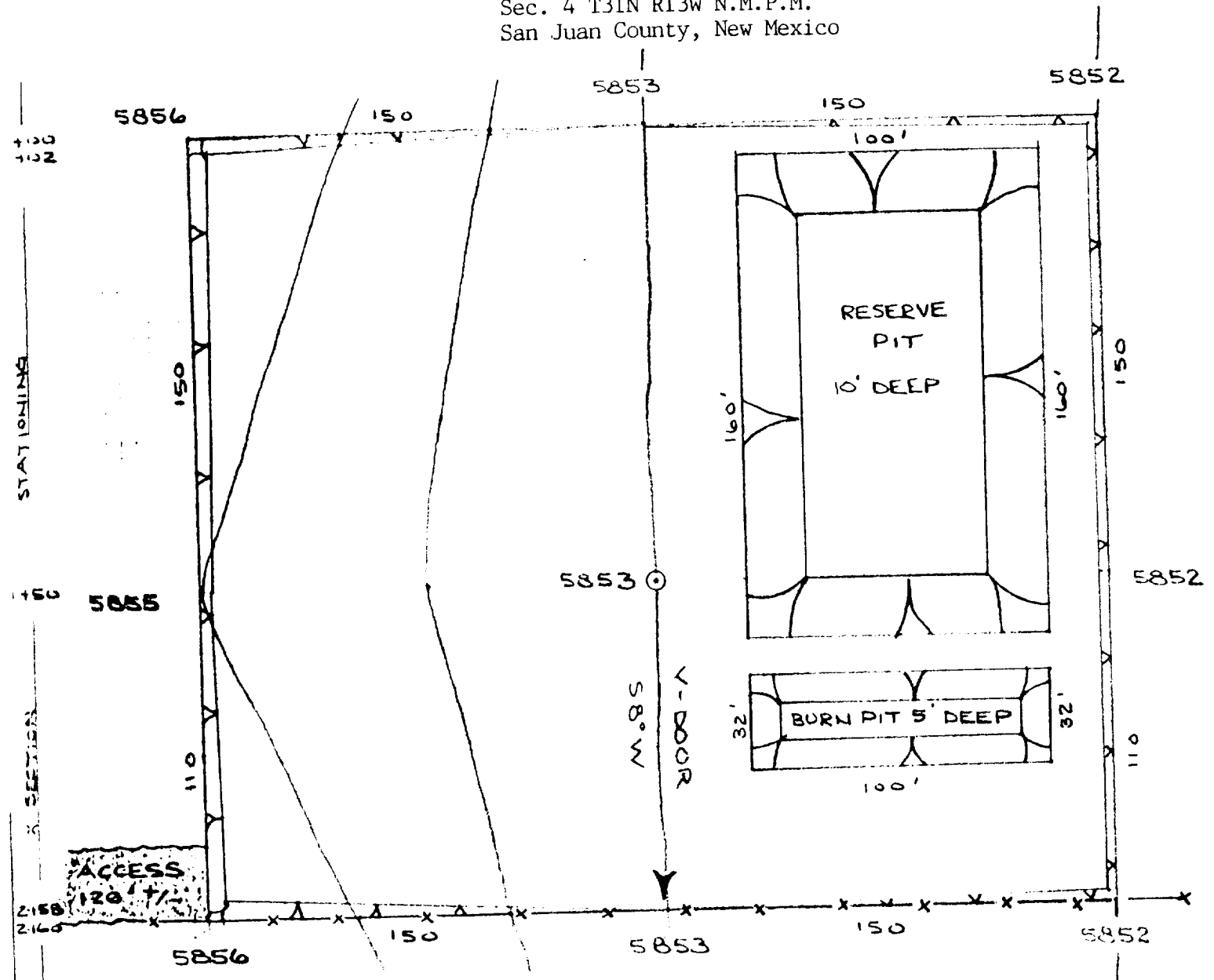
ZERO CUT/FILL SECTION

X-SECTIONS AND VOLUMES

Contour Int. = 1'

Scale 1" = 50'

HALLWOOD ENERGY CO.
Baird 2-4
790 F/NL & 790 F/EL
Sec. 4 T31N R13W N.M.P.M.
San Juan County, New Mexico



PAD LAYOUT AND TOPOGRAPHY

DRILLING PROGNOSIS

OPERATOR Hallwood Petroleum, Inc. DATE 9/07/93
WELL NAME Baird 2-4 PREPARED BY KEO
LOCATION NE/4 Section 4-T31N-R13W
COUNTY San Juan STATE New Mexico PROPOSED TD 2,215'

TUBULAR PROGRAM:

HOLE SIZE	CASING/TUBING	FROM	TO	SIZE	WEIGHT	GRADE	CPLG
12-1/4"	CSG	0	350	8-5/8"	24#	J-55	STXC
7-7/8"	CSG	0	2,215	5-1/2"	15.50#	J-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.	250 sx	Class "B"	One centralizer on shoe it.
Production Csg.	300 sx	Lead cemet (65:35) Poz followed by	
	50 sx	Class "B" tail cement. See info below under "Special Equipment".	

BIT PROGRAM:

Footage contract. contractors responsibility.

DRILLING HAZARDS/PRODUCTION PROBLEMS:

Keep mud weight under 9.0 ppg to minimize any chance of lost circulation.

DEVIATION SURVEYS/PRODUCTION PROBLEMS:

Take Totco's every 500'.

WELLHEAD:

3000 psi (minimum) required.

SPECIAL EQUIPMENT/TECHNIQUE:

We plan to try a slotted casing completion technique on this well which will consist of slotted casing across the Fruitland Coal zones and an exterior casing packer at the top of the coal on the casing string with cement to surface. A detailed schematic is attached. Actual tops and depths may vary as drilling progresses.

SPECIAL PERSONNEL REQUIREMENTS:

None planned.

HALLWOOD GEOLOGICAL PROGNOSIS

DATE: 9/07/93 TYPE WELL: Fruitland Coal
WELL NAME: Baird 2-4 FIELD/LEASE: Basin Fruitland
LOCATION: 790' FNL, 790' FEL Sec. 4-T31N-R13W
COUNTY: San Juan STATE: New Mexico
ELEVATION: GR 5,850' (Est.) KB 5,862' (Est.) TIGHT HOLE: Yes

[illegible]

Samples: 1,850' to TD

Testing/Coring: None planned

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 Supr.		N/A	(303)838-2191	(303)850-6303
John Genziano - Senior Engineer		N/A	(303)771-7120	(303)850-6223