FORM IV-2(B) FILE COPY
(Obverse)
7-83

RECEIVED
JUN 11 1984
OIL & GAS DIVISION
DEPT. OF MINES

1) Date: June 8, 19 84
2) Operator's Well No. A. Thomas #2
3) API Well No. 47 - 001 - 2077
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil ____/ Gas XX /
B (If "Gas", Production XX / Underground storage ____/ Deep ____/ Shallow XX /)
5) LOCATION: Elevation: 1687' Watershed: Sugar Creek (MT 24C)
District: Glade County: Barbour Quadrangle: Belington 7.5
6) WELL OPERATOR Parcoil Corp.
Address Rt. #1, Box 181C
Bridgeport, W. Va. 26330
7) DESIGNATED AGENT Jack Childers
Address Rt. #1, Box 181C
Bridgeport, W. Va. 26330
8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Russell Beall
Address P. O. Box 160
Philippi, W. Va. 26416
9) DRILLING CONTRACTOR:
Name Eastern Overthrust Drilling, Inc.
Address P. O. Box 600
Anmoore, W. Va. 26323
10) PROPOSED WELL WORK: Drill XX / Drill deeper ____/ Redrill ____/ Stimulate XX /
Plug off old formation ____/ Perforate new formation ____/
Other physical change in well (specify) ____
11) GEOLOGICAL TARGET FORMATION, Fox Sand
12) Estimated depth of completed well, 5600 feet
13) Approximate trata depths: Fresh, 80/380 feet; salt, ____ feet.
14) Approximate coal seam depths: 140 Is coal being mined in the area? Yes ____/ No X /
15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	113/4	API	43	X		20	20	To surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J55	23	X		1050'	1050'	To surface	NEAT
Production	4 1/2	J55	10.5	X			5600'	600 sks	Depths set
Tubing								or as req. by rule 15.01	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-001-2077 June 11, 19 84
Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires June 11, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: ✓	Plat: —	Casing ✓	Fee
Blanket	MH	MH	MH	671

Margaret I. Lasse
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

FORM IV-2(B) **FILE COPY**
Reverse

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Follow-up inspection(s)	Date(s)
Application received			
Well work started		,,	,,
Completion of the drilling process		,,	,,
Well Record received		,,	,,
Reclamation completed		,,	,,

OTHER INSPECTIONS

Reason: _____

Reason: _____

File

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

1) Date of Notice.

2) Your well name and number.

3) To be filled out by the Office of Oil & Gas.

4) & 5) Use separate sheet if necessary.

4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".

5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.

5(ii, iii) See Code § 22-4-20.

6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.

7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

(1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book	Page
Fox Drilling, Co.	Ralph & Jack Park	Gas	99	271
		1/8	94/493	

Arden M. Thomas
Oma O. Thomas

Robert E. Fox
(Fox Drilling)

FORM IV-2(A)
Obverse
[8-83]

1) Date: June 8, 19 84
2) Operator's Well No. A. Thomas #2
3) API Well No. 47 - 001 - 2077
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Arden Thomas, Sr.
Address Rt. #2, Box 203
Belington, W. Va. 26250

(ii) Name
Address

(iii) Name
Address

5(i) COAL OPERATOR
Address

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name ~~Hillman Coal Co.~~
Address ~~Grant Bldg.~~
~~Pittsburgh, Pa. 15219~~
Name
Address

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

(1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
(2) The plat (surveyor's map) showing the well location on Form IV-6; and
(3) The Construction and Reclamation Plan on Form IV-9)unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:
XX Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
☐ The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No XX

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by Jack Childers, this 8 day of June, 19 84.
My commission expires Jan. 27, 19 94.
Phyllis G. Steele
Notary Public, Harrison County, State of W. Va.

WELL OPERATOR PARCOIL CORPORATION
By Jack C. Childers
Its Geologist
Address Rt. #1, Box 181C
Bridgeport, W. Va. 26330
Telephone 842-6984

FORM IV-2(B)
(Obverse)
7-83

COAL OWNER'S COPY

1) Date: June 8, 19 84
2) Operator's Well No. A. Thomas #2
3) API Well No. 47 — 001
State — County — Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil ____/ Gas XX/
B (If "Gas", Production XX/ Underground storage ____/ Deep ____/ Shallow XX/)

5) LOCATION: Elevation: 1687' Watershed: Sugar Creek
District: Glade County: Barbour Quadrangle: Belington 7.5

6) WELL OPERATOR Parcoil Corp.
Address Rt. #1, Box 181C
Bridgeport, W. Va. 26330

7) DESIGNATED AGENT Jack Childers
Address Rt. #1, Box 181C
Bridgeport, W. Va. 26330

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Russell Beall
Address P. O. Box 160
Philippi, W. Va. 26416

9) DRILLING CONTRACTOR:
Name Eastern Overthrust Drilling, Inc
Address P. O. Box 600
Anmoore, W. Va. 26323

10) PROPOSED WELL WORK: Drill XX/ Drill deeper ____/ Redrill ____/ Stimulate XX/
Plug off old formation ____/ Perforate new formation ____/
Other physical change in well (specify) ____

11) GEOLOGICAL TARGET FORMATION, Fox Sand

12) Estimated depth of completed well, 5600 feet

13) Approximate trata depths: Fresh, 80/380 feet; salt, ____ feet.

14) Approximate coal seam depths: 140 Is coal being mined in the area? Yes ____/ No ____/

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	113/4	API	43	X		20	20	To surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J55	23	X		1050'	1050'	To surface	NEAT
Production	4 1/2	J55	10.5	X			5600'	600 sks	Depths set
Tubing								or as req by rule 15.01	
Liners									Perforations:
									Top Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

The undersigned coal operator ____/ owner X/ lessee ____/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Hillman Coal & Coke Co.

Date: June 8 MJ MH, 19 84

By B. H. Putney

Its Agent

Coal Owner

FORM IV-2(B)
(Obverse)
7-83

SURFACE OWNER'S COPY

1) Date: June 8, 19 84
2) Operator's Well No. A. Thomas #2
3) API Well No. 47 001
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil ____/ Gas XX/
B (If "Gas", Production XX / Underground storage ____/ Deep ____/ Shallow XX/)

5) LOCATION: Elevation: 1687' Watershed: Sugar Creek
District: Glade County: Barbour Quadrangle: Belington 7.5

6) WELL OPERATOR Parcoil Corp.
Address Rt. #1, Box 181C
Bridgeport, W. Va. 26330

7) DESIGNATED AGENT Jack Childers
Address Rt. #1, Box 181C
Bridgeport, W. Va. 26330

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Russell Beall
Address P. O. Box 160
Philippi, W. Va. 26416

9) DRILLING CONTRACTOR:
Name Eastern Overthrust Drilling, Inc.
Address P. O. Box 600
Anmoore, W. Va. 26323

10) PROPOSED WELL WORK: Drill XX/ Drill deeper____/ Redrill____/ Stimulate XX/
Plug off old formation____/ Perforate new formation____/
Other physical change in well (specify)____

11) GEOLOGICAL TARGET FORMATION, Fox Sand

12) Estimated depth of completed well, 5600 feet

13) Approximate trata depths: Fresh, 80/380 feet; salt,____feet.

14) Approximate coal seam depths: 140 Is coal being mined in the area? Yes____/ No X/

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	113/4	API	43	X		20	20	To surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J55	23	X		1050'	1050'	To surface	
Production	4 1/2	J55	10.5	X			5600'	600 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

NAME: ____

By ____

Its ____ Date ____

(For execution by natural persons)

A. M. Thomas Date: 6-8-84
(Signature)

____ Date: ____
(Signature)

Surface Owner

FORM IV-2(B)
Reverse

SURFACE OWNER'S COPY

INSTRUCTIONS TO SURFACE OWNERS AND EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. **(NOTE:** If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: **You are not required to file any comment at all.**

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Virginia 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

"(1) The proposed well work will constitute a hazard to the safety of persons; or
"(2) The plan for soil erosion and sediment control is not adequate or effective; or
"(3) Damage would occur to publicly owned lands or resources; or
"(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Adminisatrator's office or an Oil and Gas Inspector to obtain a copy of the list.

Surface Owner

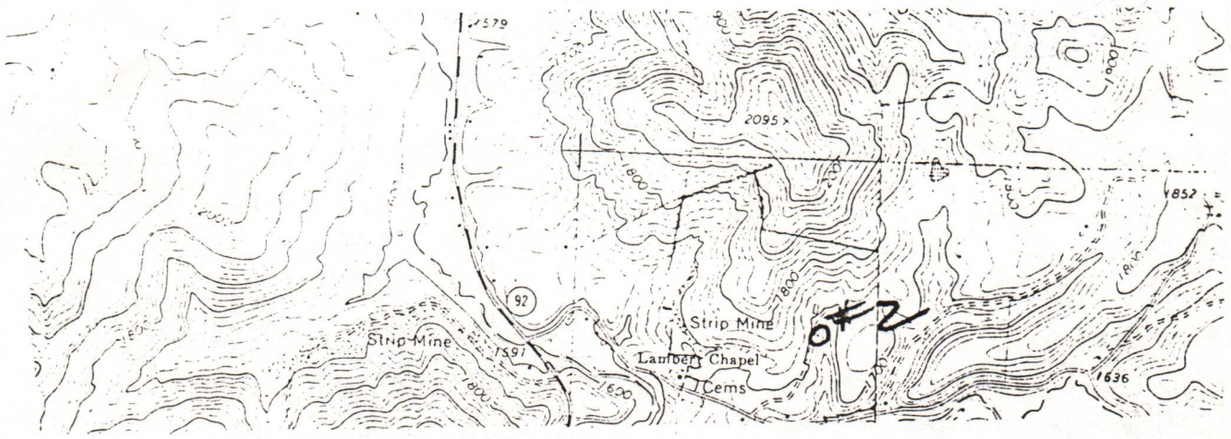
EV 8-81)

TACH OR PHOTOCOPY SECTION OF
VOLVED TOPOGRAPHIC MAP.
ADRANGLE BELINGTON 7.5

LEGEND

Well Site ⊕

Access Road ———



WELL SITE PLAN

etch to include well location, existing access road, roads to be constructed, wellsite, illing pits and necessary structures numbered or lettered to correspond with the first rt of this plan. Include all natural drainage.

LEGEND

Property boundary

Road

Existing fence

Planned fence

Stream

Open ditch

Diversion

Spring

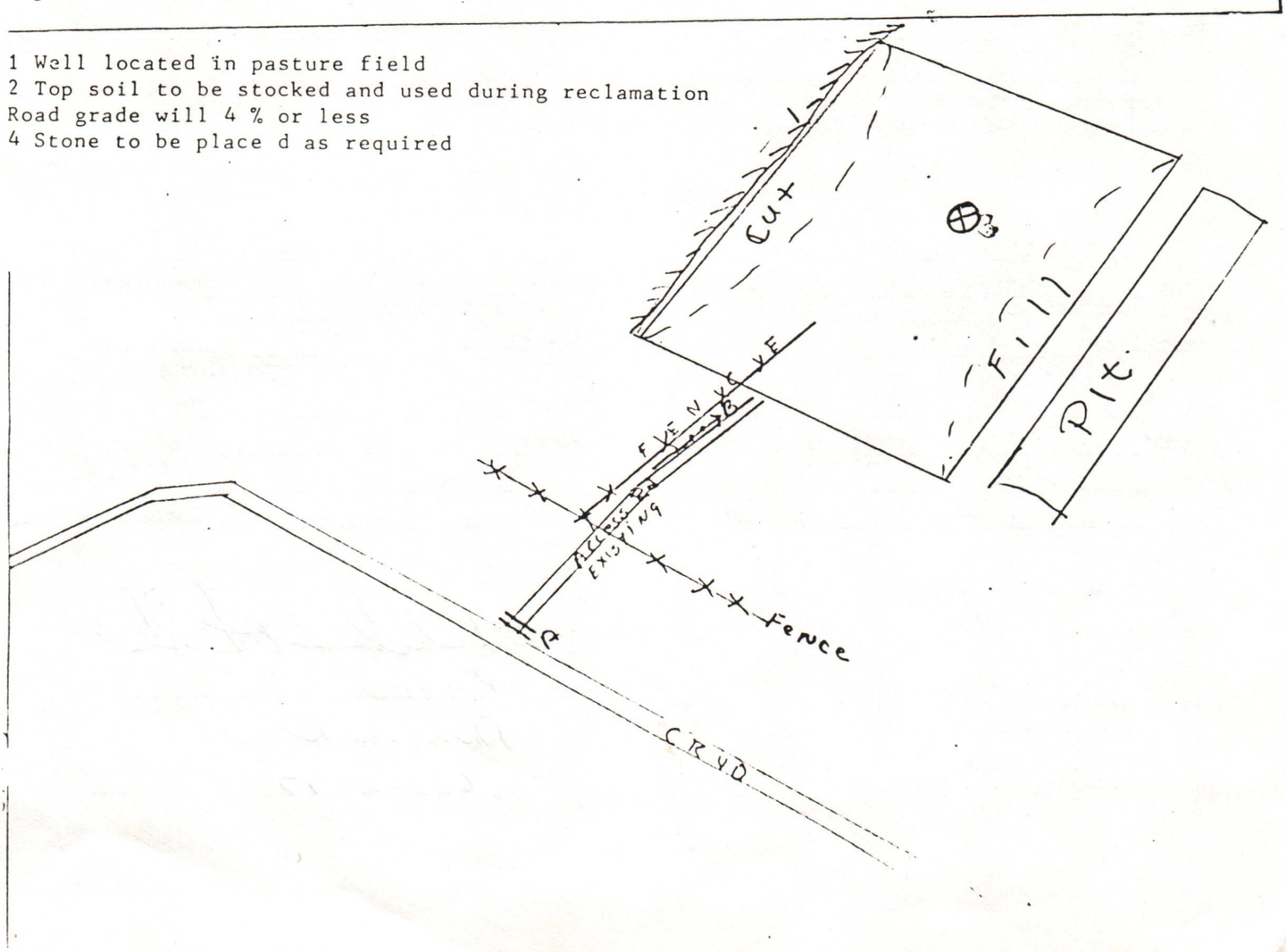
Wet spot

Building

Drain pipe

Waterway

1 Well located in pasture field
2 Top soil to be stocked and used during reclamation
Road grade will 4 % or less
4 Stone to be place d as required



IV-9
(Rev 8-81)

RECEIVED
JUN 8 1984
Tygart Valley Soil
Conservation District

State of West Virginia
Department of Mines
Oil and Gas Division

DATE JUNE 8 1984
WELL NO. A. THOMAS #2
API NO. 47 - 001 - 2077

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME BARCOIL CORP
Address RT 1 BOX 181C BRIDGEPORT
Telephone 842 6984
LANDOWNER ARDEN THOMAS Sr.

DESIGNATED AGENT JACK CHILDERS
Address ROUTE 1 BOX 181 C
Telephone BRIDGEPORT 842 6984
SOIL CONS. DISTRICT TYGART VALLEY

Revegetation to be carried out by EASTERN OVERTHRUST (Bill Hinkle) (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 6-6-84
(Date)

Jennie Hedrick
(SCD Agent)

ACCESS ROAD

Structure CULVERT PIPE 15" (A)
Spacing
Page Ref. Manual 2-9

Structure DRAINAGE DITCH (B)
Spacing
Page Ref. Manual 2-15

Structure (C)
Spacing
Page Ref. Manual

LOCATION

Structure DIVERSION DITCH (1)
Material EARTHEN
Page Ref. Manual 2-12

Structure (2)
Material
Page Ref. Manual

Structure (3)
Material
Page Ref. Manual

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Lime THREE (3) Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch HAY @ 2 Tons/acre
Seed* KY. 31 30 lbs/acre
BIRDSFOOT TRE. 10 lbs/acre
DOMESTIC RYE 10 lbs/acre

Treatment Area II

Lime THREE (3) Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch HAY 2 Tons/acre
Seed* KY. 31 30 lbs/acre
BIRDSFOOT TRE. 10 lbs/acre
DOMESTIC RYE 10 lbs/acre

**Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.*

PLAN PREPARED BY [illegible]
ADDRESS P.O. 600
Dunmore W.Va.
PHONE NO. 622-2197

NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1st Stage: Haverty, 4th Elk--Break Down Pressure 4200 psi, Treating Pressure 3100 psi. Average Rate 25 bbl/min. Treated with 500 gal. 15% HCL, 250 gal. 28% HCL, 50,000# 20/40 sand. 670 bbls. treated water.

2nd Stage: 2nd & 3rd Elks--Break Down Pressure 3200 psi, Average Treating Pressure 3200 psi, Average Rate 24 bbl./min. Treated with 700 gal. 15% HCL, 9000# 20/40 sand, 261 bbl. treated water. Well screened out.

3rd Stage: Benson & 1st Elk--Break Down Pressure 3,000 psi, Average Treating Pressure 3200 psi, Average Rate 24 bbl./min. Treated with 500 gal. 15% HCL, 45,000# 20/40 sand, 5,000# 10/20 sand, 718 bbls. treated water.

4th Stage: Balltowns, & Bayard--Break Down Pressure 2400 psi, Average Treating Pressure 2500 psi, Average Rate 36 bbl./min. Treated with 750 gal. 15% HCL, 40,000# 20/40,10,000# 10/20, 560 bbl. treated water.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Driller's Tops:			
Sand & Shale	10	53	1/2" stream of water
Sand	53	107	@ 53'
Shale	107	127	
Sand	127	172	
Sand & Shale	172	203	
Sand	203	225	
Shale	225	235	
Sand	235	394	
Sahle	394	404	
Sand	404	692	
Sand & Shale	692	750	
Sand	750	790	
Sand & Shale	790	865	
Sand	865	942	Hole damp @ 1792'
Sand, Shale, RedRock	942	1377	
Electric Log Tops:			
Big Lime	1396	1432	
Big Injun	1432	1612	
4th Sand	2174	2392	
5th Sand	2392	2550	
Bayard	2550	2612	Gas check @ 2608' (Odor)
Balltown	2848	3360	
Riley	3790	3840	Gas check @ 3205' (Odor
Benson	3902	3986	Gas check @ 4019' (No Show)
1st Elk	4138	4220	
2nd Elk	4322	4450	
3rd Elk	4610	4650	
4th Elk	4745	4790	
Haverty	5090	5320	
			Gas check @ 5500' (No Show)

(Attach separate sheets as necessary)

PARCOIL CORPORATION
Well Operator

By: Jack C. Cifers

Date: 8/22/84

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

IV-35
(Rev 8-81)

RECEIVED
SEP 4 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 8/13/84
Operator's
Well No. #2
Farm Thomas
API No. 47 - 001 - 2077

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1687' Watershed Sugar Creek
District: Glade County Barbour Quadrangle Belington 7.5'

COMPANY PARCOIL CORPORATION
ADDRESS Rt. 1, Box 181-C, Bridgeport, WV
DESIGNATED AGENT Jack C. Childers
ADDRESS Same
SURFACE OWNER Arden Thomas
ADDRESS Rt. 2, Box 203, Belington, WV
MINERAL RIGHTS OWNER Same
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK R.L. Steward ADDRESS P.O. Box 345, Jane Lew WV
PERMIT ISSUED 6/11/84
DRILLING COMMENCED 7/6/84
DRILLING COMPLETED 7/12/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8		1302'	310 sks.
7			
5 1/2			
4 1/2		5370'	630 sks.
3			
1 1/2		5065'	-
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5100 feet
Depth of completed well 5500 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 53 feet; Salt ___ feet
Coal seam depths: None Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation Haverty, 4th Elk Pay zone depth 4976-5312 feet
Gas: Initial open flow - Mcf/d Oil: Initial open flow - Bbl/d
Final open flow 400 Mcf/d Final open flow Show Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 1175 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation 1st. & 2nd Elks, Benson, Balltown & Bayard Pay zone depth 2561-4626 feet
Gas: Initial open flow - Mcf/d Oil: Initial open flow - Bbl/d
Final open flow Same Mcf/d Oil: Final open flow Same Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure Same psig (surface measurement) after Same hours shut in

(Continue on reverse side)

BAR. - 2077

OG-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED
JUN 18 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

001-

Permit No. 2077

Oil or Gas Well _____ (KIND)

Company PARCOIC

Address

Farm THOMAS

Well No. #2

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Anticipate Eastern overthrust

Remarks: Location, Road, Pond Complete

6/13/84
DATE

Beale - 501
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUL 10 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2077

Oil or Gas Well _____ (KIND)

Company ARCOIC

Address

Farm A. THOMAS

Well No. #2

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names

Remarks: Rig on - Spud -

7/6/84
DATE

RG Beall
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner _____ Location _____ Amount _____ Packer _____ Location _____

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

OG-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED
JUL 11 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2077

Oil or Gas Well _____ (KIND)

Company PARCOIL

Address

Farm A THOMAS

Well No. #2

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names EAST OVERTHRUST Rig #2 -
RUN-8⅝-6⅝ -

Remarks: Drilling under 8⅝

7/9/84
DATE

RG Reese
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.
DATE

_____
DISTRICT WELL INSPECTOR

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
JUL 13 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2077 [redacted]

Oil or Gas Well _____ (KIND)

Company PARCOIL

Address

Farm A. THOMAS

Well No. #2

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names EASTERN OVERTHRUST - Rig #2

Remarks: Dlg @ 5211 - Should T.D. - 7/11/84

7/11/84
DATE

[illegible signature] 501
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

IV-20
Obverse
1-84

RECEIVED
NOV 8 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
September 24, 1984

COMPANY Parcoil Corporation
Route 1, Box 181-C
Bridgeport, West Virginia 26330

PERMIT NO 001-2077
FARM & WELL NO Arden Thomas #2
DIST. & COUNTY Glade/Barbour

RULE	DESCRIPTION	IN COMPLIANCE YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed		
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED [signature]

DATE 11-5-84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

[signature]
Administrator-Oil & Gas Division

December 17, 1984
DATE

TMS/nw

A. THOMAS #2
47-001-2077

FORM IV-48WC
(02-84)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

SEP 27 1984

Date: 8/22, 1984

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

840905-107-001-2077

Use Above File Number on all Communications Relating to This Well

Applicant's Name: Parcoil Corp.

Address: 12221 Merit Dr. Suite 770

Dalls, TX 75251

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

First Purchaser: Tennessee Gas Transmission

Address: P.O. Box 2511
(Street or P.O. Box)

Houston, TX 77001
(City) (State) (Zip Code)

FERC Seller Code _____

Designated Agent: Jack Childers

Address: P.O. Box 181-C

Bricgeport, WV 26330

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Jack Childers (Print) Designated Agent (Title)

Signature: Jack C. Childers

Address: P.O. Box 181- C
(Street or P.O. Box)

Bridgeport, WV 26330
(City) (State) (Zip Code)

Telephone: (304) 842-6984
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Catagory Applied For

NGPA SECTION/SUBSECTION

102 New Natural Gas
- ____ 102-2 2.5 Mile Test
- ____ 102-3 1000 Foot Deeper Test
- ____ 102-4 New Onshore Reservoir

103 New Onshore Production Well
- ____ 103 New Onshore Production Well

107 High Cost Natural Gas
- ____ 107-0 Deep (more than 15,000 feet)
- ____ 107-1 Geopressured Brine
- ____ 107-2 Coal Seams
- X 107-3 Devonian Shale
- ____ 107-5 Production enhancement
- ____ 107-6 New Tight Formation
- ____ 107-7 Recompletion Tight Formation

108 Stripper Well Natural Gas
- ____ 108- Stripper Well
- ____ 108-1 Seasonally Affected
- ____ 108-2 Enhanced Recovery
- ____ 108-3 Temporary Pressure Buildup

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SEP - 5 1984
OIL & GAS DIV.
DEPT. OF MINES

Date Received

AGENCY USE ONLY

APPROVED
OCT 19 1984

Determination Date

FORM IV-55WC
(12-78)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

Date 10-16-84

Operator's
Well No. Thomas #2

API Well No.

47 - 001 - 2077
State County Permit

RECEIVED
OCT 1 7 1984
OIL & GAS DIV.
DEPT. OF MINES

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT Jack C. Childers

ADDRESS Rt. 1, Box 181-C

Bridgeport, WV 26330

LOCATION Elevation 1687'

Watershed Sugar Creek

Dist. Glade County Barbour Quad. Belington

Gas Purchase
Contract No.

Meter Chart Code

Date of Contract

WELL OPERATOR PARCOIL CORPORATION

ADDRESS Rt. 1, Box 181-C

Bridgeport, WV 26330

GAS PURCHASER Tennessee Gas Transmission

ADDRESS Box 2511

Houston, Texas 77001

* * * * * * * *

Date surface drilling began: 7-6-84

Indicate the bottom hole pressure of the well and explain how this was calculated.

AFFIDAVIT

I, Jack C. Childers, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Jack C. Childers

STATE OF WEST VIRGINIA

COUNTY OF Harrison, TO-WIT:

I, Rhonda Jo Wharton, a Notary Public in and for the state and county aforesaid, do certify that Jack C. Childers, whose name is signed to the writing above, bearing date the 16 day of October, 19 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 16 day of October, 19 84.
My term of office expires on the 10 day of August, 19 92.

(NOTARIAL SEAL)

Rhonda Jo Wharton
Notary Public

parcoil CORPORATION
Appalachian Division
Rt. 1, Box 181-C
Bridgeport, WV 26330
(304) 842-6984

FORMULA FOR CALCULATING BOTTOM HOLE PRESSURE

Pf = (Pw)(e) X GLS

Pf = Bottom hole pressure

Pw = Top hole pressure

e = 2.72

x = (1/53.34) + (60 + (.0075 x T.D.) + 460) = Absolute Temperature

G = Specific Gravity (.602)

L = $\frac{\text{Top perf. + bottom perf.}}{2}$

S = Z factor (.9)

Pw = 1075 psi

x = $\frac{1}{53.34\ (561.25} = \frac{1}{29937.075} = .0000334$

G = .602

L = $\frac{2569 + 5312}{2} = 3940.5$

Pf = 1075 X 2.72 (.0000334) (.602) (3940.5) (.9)

Pf = 1075 X 2.72 (.071)

Pf = 1075 X 1.073

Pf = 1154 = Bottom Hole Pressure

parcoil CORPORATION
Appalachian Division
Rt. 1, Box 181-C
Bridgeport, WV 26330
(304) 842-6984

DEVONIAN SHALE QUALIFICATION CALCULATION

1. Calculation of thickness of Devonian Interval:

Bottom of Devonian Interval 5480 ft.
Top of Devonian Interval 1930 ft.
Thickness of Devonian Interval 3550 ft.

2. Calculation of 0.7 Gamma Ray Index:

Shale Base Line 132 API Units
0.7 Gamma Ray Index(70% of Shale Base Line= 92 API Units

3. Calculation of Disqualifying Footage:

3550 ft. X 5% = 177.5 ft.

4. Actual footage 0.7 Gamma Ray Index = 103.5 ft.

Using the above calculations, the Thomas #2 well qualifies as Devonian Shale.

By: Jack C. Childers

Sworn to and acknowledged before me by Jack C. Childers, this 22 day of August, 19 84.

Rhonda Jo Whanton
Notary Public

My commission expires: August 10, 1992

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS
APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: PARCOIL CORPORATION Agent: Jack C. Childers

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47-001-2077 Well Name: Thomas #2

West Virginia Office of Oil and Gas References: SJA File No. County: Barbour

Vol. ____ Page ____ Line ____

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 132 * API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 92 * API Units
2. Calculation: 0.7 (GR Value at Base Line)
   0.7 (132 *) = 92 API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval From**	Interval To***	Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
1950	5480	3550	103.5

Total Devonial Interval 3550

Total Less Than 0.7 (Shale Base) 103.5

% Less Than 0.7 (Shale Base Line) = $\frac{103.5}{3550} \times 100 = 2.91\ \%$

*Marked on log included with analysis.
**Top of Devonian Section Recorded on First Interval in this Column.
***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

RECEIVED
SEP - 5 1984
OIL & GAS DIV.
DEPT. OF MINES

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 001 - 2077 -
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 (Section of NGPA) ____ (Category Code)
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5312 feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Name: PARCOIL CORPORATION; Seller Code: ____ Street: Rt. 1, Box 181-C City: Bridgeport; State: WV; Zip Code: 26330
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Name: Glade District County: Barbour; State: WV
(b) For OCS wells:	Area Name: ____; Block Number: ____ Date of Lease: Mo. Day Yr.; OCS Lease Number: ____
(c) Name and identification number of this well: (35 letters and digits maximum.)	Thomas #2 47-001-2077
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Name: TENNECO; Buyer Code: ____
(b) Date of the contract:	Mo. Day Yr.
(c) Estimated total annual production from the well:	20 Million Cubic Feet

		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	—.—	—.—	—.—	—.—
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	—.—	—.—	—.—	—.—

9.0 Person responsible for this application:

Name: Jack C. Childers; Title: Geologist

Signature: Jack C. Childers

Date Application is Completed: 8/22/84; Phone Number: 304/842-6484

Agency Use Only
Date Received by Juris. Agency: SEP - 5 1984
Date Received by FERC:

FERC-121 (8-82)

FORM IV-54WC
[12-78]

Date 8-22- 1984

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. Thomas #2

API Well No. 47 - 001 - 2077
State County Permit

WELL CLASSIFICATION FORM

NEW ONSHORE PRODUCTION WELL

NGPA Section 103

DESIGNATED AGENT Jack C. Childers

ADDRESS Rt. 1, Box 181-C
Bridgeport, WV 26330

WELL OPERATOR PARCOIL CORPORATION

ADDRESS Rt. 1, Box 181-C
Bridgeport, WV 26330

LOCATION: Elevation 1687'

Watershed Sugar Creek

Dist. Glade County Barbour Quad. Belington

GAS PURCHASER Tennesee Gas Transmission

ADDRESS P.O. Box 2511
Houston, Texas 77001

Gas Purchase Contract No.

Meter Chart Code

Date of Contract

* * * * * * * * * * * * * * * * * *

Date surface drilling was begun: 7-6-84

Indicate the bottom hole pressure of the well and explain how this was calculated:

AFFIDAVIT

I, JACK C. CHILDERS, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

Jack C. Childers

STATE OF WEST VIRGINIA,

COUNTY OF Harrison, TO WIT:

I, Rhonda G. W. Hunter, a Notary Public in and for the state and county aforesaid, do certify that Jack C. Childers whose name is signed to the writing above, bearing date the 22 day of August, 1984, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 22 day of August, 1984.

My term of office expires on the 10 day of August, 1992.

Rhonda G. W. Hunter
Notary Public

[NOTARIAL SEAL]

RHONDA G. HUNTER
NOTARY PUBLIC
HARRISON CO., W.V.

A. THOMAS #2
47-001-2077

FORM IV-48WC
(02-84)

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

SEP 27 1984

Date: 8/22, 1984

Applicant's Name: Parcoil Corp.

Address: 12221 Merit Dr. Suite 770

Dalls, TX 75251

Gas Purchaser Contract No. _____

Date of Contract _____
(Month, day and year)

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

840905-103-001-2077

Use Above File Number on all Communications Relating to This Well

First Purchaser: Tennessee Gas Transmission

Address: P.O. Box 2511
(Street or P.O. Box)

Houston, TX 77001
(City) (State) (Zip Code)

FERC Seller Code _____

Designated Agent: Jack Childers

Address: P.O. Box 181-C

Bricgeport, WV 26330

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Jack Childers (Print) Designated Agent (Title)

Signature: Jack C. Childers

Address: P.O. Box 181- C
(Street or P.O. Box)

Bridgeport, WV 26330
(City) (State) (Zip Code)

Telephone: 304 842-6984
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Catagory Applied For

NGPA SECTION/SUBSECTION

102 New Natural Gas
- ____ 102-2 2.5 Mile Test
- ____ 102-3 1000 Foot Deeper Test
- ____ 102-4 New Onshore Reservoir

103 New Onshore Production Well
- X 103 New Onshore Production Well

107 High Cost Natural Gas
- ____ 107-0 Deep (more than 15,000 feet)
- ____ 107-1 Geopressured Brine
- ____ 107-2 Coal Seams
- ____ 107-3 Devonian Shale
- ____ 107-5 Production enhancement
- ____ 107-6 New Tight Formation
- ____ 107-7 Recompletion Tight Formation

108 Stripper Well Natural Gas
- ____ 108- Stripper Well
- ____ 108-1 Seasonally Affected
- ____ 108-2 Enhanced Recovery
- ____ 108-3 Temporary Pressure Buildu

AGENCY USE ONLY

APPROVED

OCT - 2 1984

RECEIVED

SEP - 5 1984

OIL & GAS DIV.
DEPT. OF MINES

Date Received

Determination Date

IV-27
9-83

RECEIVED
JUN 12 1984
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date: 6-8-84
Well No: [redacted]
API NO: 47 - 001 - 1970
State County Permit
001-2077

Oil and Gas Division
NOTICE OF VIOLATION

WELL TYPE: Oil ✓ / Gas ✓ Liquid Injection ____ / Waste Disposal ____ /
Of "Gas" - Production ____ / Storage ____ / Deep ____ / Shallow ____ /

LOCATION: Elevation: ____ Watershed: ____
District: ____ County: BARBOUR Quadrangle: ____

WELL OPERATOR EASTERN OVERTHRUST DRILLING INC. DESIGNATED AGENT RICHARD HINKLE
Address P.O. BOX 600 Address P.O. BOX - 600
ANMOORE, WV-26323 ANMOORE, W.Va-26323

The above well is being posted this 8th day of JUNE, 1984, for a violation of Code 22-4-1K and/or Regulation ____, set forth in detail as follows:
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

DOING WELL WORK WITHOUT PROPER PERMIT AT THE WELL SIGHT. —

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby ~~granted until~~ ORDERED TO CEASE ALL WELL WORK TO ABATE, 19__, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Russell L. Bruce
Oil and Gas Inspector

Address P.O. BOX 160
PHILLIPPI, WV-26416

Telephone: 866-4608

IV-27
9-83

RECEIVED
JUN 12 1984

STATE OF WEST VIRGINIA
OIL & GAS DIVISION DEPARTMENT OF MINES
DEPT. OF MINES
Oil and Gas Division

Date: 6-8-84
Well No: 2077
API NO: 47 - 001 - ~~1970~~
State County Permit

NOTICE OF VIOLATION

WELL TYPE: Oil ✓ / Gas ✓ Liquid Injection ____ / Waste Disposal ____ /
Of "Gas" - Production ____ / Storage ____ / Deep ____ / Shallow ____ /

LOCATION: Elevation: ____ Watershed: ____
District: ____ County: BARBOUR Quadrangle: ____

WELL OPERATOR PARCOIL CORPORATION DESIGNATED AGENT THOMAS B. GRAYSON JR.
Address 11551 FOREST CENTRAL DR Address Route #1 Box 181-C
DALLAS, TEXAS 75243 BRIDGEPORT, W.V. - 26330

The above well is being posted this 8th day of June, 1984, for a violation of Code 22-4-1K and/or Regulation ____, set forth in detail as follows:
(USE REVERSE SIDE OF THIS NOTICE IF NECESSARY)

DOING WELL WORK WITHOUT PROPER PERMIT AT THE WELL SIGHT.

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

You are hereby ~~granted until~~ ORDERE TO CEASE ALL WELL WORK, 19__, to abate this violation.

Failure to abate the violation may result in action by the Department under Code 22-4-17 or Code 22-4-18.

Russell G. Beale
Oil and Gas Inspector

Address P.O. BOX 160
Philippi, WV - 26416

Telephone: 866-4608

FORM IV-31
9-83

RECEIVED
JUL 16 1984
OIL & GAS DIVISION
DEPT. OF MINES

Date: 7-12-84
Operator's Well Number 001 - 2077
API Well No.: 47 - 001 - 1970
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

NOTICE OF ABATEMENT

WELL TYPE: Oil____/ Gas ✓ Liquid Injection____/ Waste disposal____/
If "Gas" - Production____/ Underground Storage____/ Deep____/ Shallow____/

LOCATION: Elevation: ____ Watershed: ____
District: ____ County: Barbour Quadrangle: ____

WELL OPERATOR Parcoil Corporation
Address 11551 Forest Central Dr
Dallas, Texas 75243

DESIGNATED AGENT Thomas B. Grayson Jr.
Address Route #1 Box 181-C
Bridgeport, W.Va. 26330

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on 7-1-, 19 84,

The violation of Code § 22-4-1k heretofore found to exist on 6-8-, 19 84, by Form IV-27, "Notice of Violation" ✓/ Form IV-28, "Imminent Danger Order"____/ of that date has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS

This is to clear the record -- of your violation - New permit was issued -

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

Russell G. Beane 501
Oil and Gas Inspector

Address PO Box 160
Philippi, WV 26416

Telephone 866-4608

FORM IV-31
9-83

RECEIVED
JUL 16 1984
OIL & GAS DIVISION
DEPT. OF MINES

Date: 7-12-84
Operator's Well Number 001-2077
API Well No.: 47 - 001 - 1946
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

NOTICE OF ABATEMENT

WELL TYPE: Oil____/ Gas ✓ Liquid Injection____/ Waste disposal____/
If "Gas" - Production____/ Underground Storage____/ Deep____/ Shallow____/

LOCATION: Elevation: ____ Watershed: ____
District: ____ County: BARBOUR Quadrangle: ____

WELL OPERATOR EASTERN OVERTHRUST DEV INC DESIGNATED AGENT RICHARD HINKLE
Address P.O. BOX 600 Address P.O. BOX 600
ANMOORE, WV-26323 ANMOORE, WV 26323

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on 7-1, 19 84.

The violation of Code § 22-4-1K heretofore found to exist on 6-8-, 19 84, by Form IV-27, "Notice of Violation" ✓ / Form IV-28, "Imminent Danger Order"____/ of that date has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS

This is to clear the record for you - The new permit took care of this violation.

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

Russell G Beard - 501
Oil and Gas Inspector
Address PO BOX 160
Philippi WV -
Telephone 866-4608

FORM IV-37
8-82

RECEIVED
JUL 5 1984
OIL & GAS DIVISION
DEPT. OF MINES

Date: 7-12-84
Operator's
Well Number
API Well No.: 47 - 039 - 00777
State County Permit

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

NOTICE OF ABATEMENT

WELL TYPE: Oil ____ Gas ✓ Liquid Injection ____ Waste disposal ____
Underground
If "Gas", Production ____ / Storage ____ / Deep ____ / Shallow ____

LOCATION: Elevation: ____ Watershed: ____
District: ____ County: ____ Quadrangle: ____

WELL OPERATOR ____ DESIGNATED AGENT ____
Address ____ Address ____

Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named well on 7-12-84, 19__ and found the following violations of Code § 22-6-6 hereinafter found to exist on ____ 19__ by Form IV-27, "Notice of Violation", or Form IV-28, "Imminent Danger Order" ____ or that data has been totally abated. If the abated violation was found by an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may resume operations.

COMMENTS:

This is to advise that the above listed violations have been abated.

A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designated agent.

Michael Williams
Oil and Gas Inspector

Address: P.O. Box 176
Fairmont, W.Va. 26554

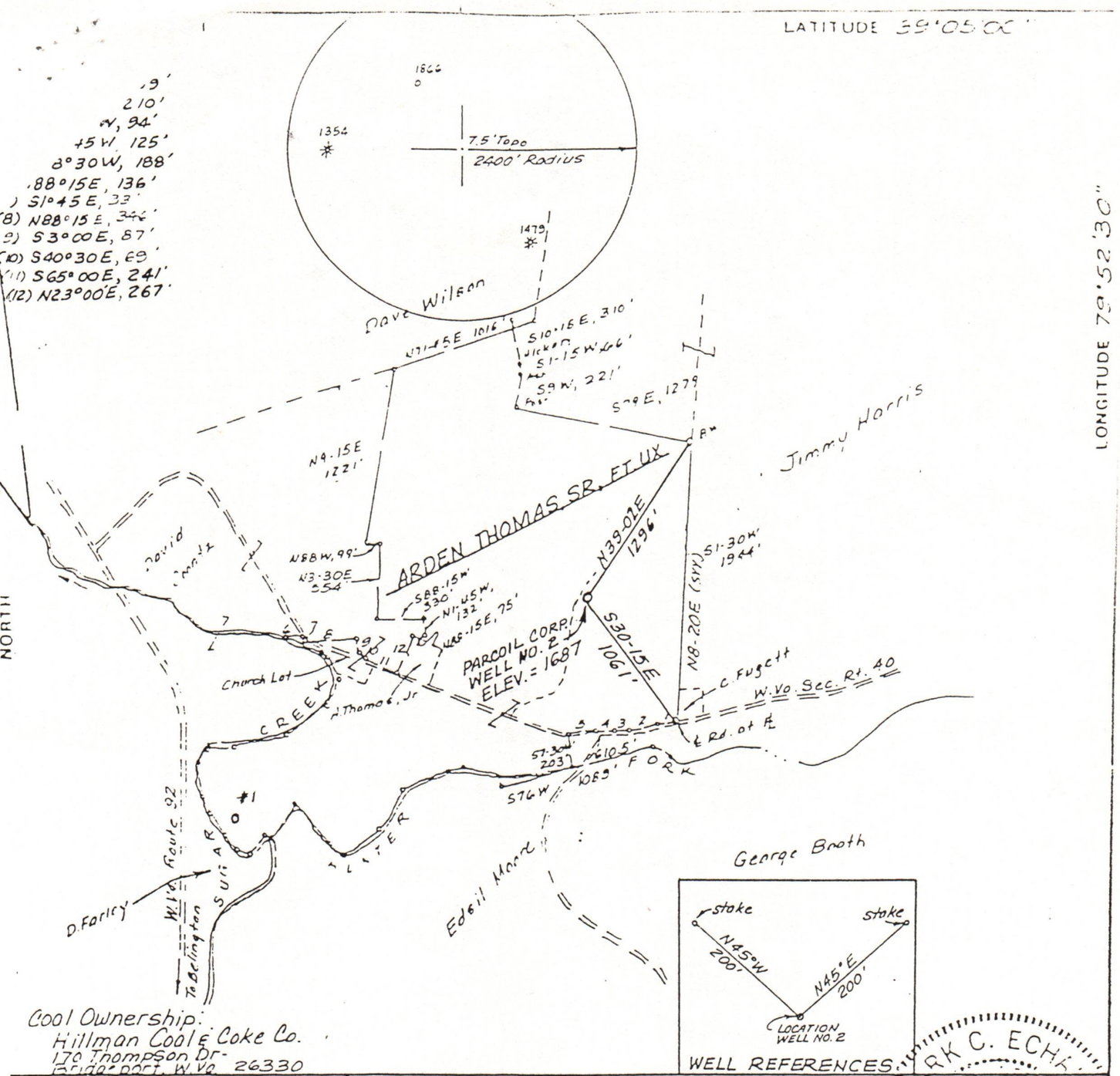
Telephone: 304-534-5171

LATITUDE 39°05'00"

LONGITUDE 79°52'30"

NORTH

.9'
210'
N, 94'
+5 W, 125'
8°30W, 188'
.88°15E, 136'
) S1°45 E, 33'
8) N88°15 E, 346'
9) S3°00E, 87'
(10) S40°30E, 69'
(11) S65°00E, 241'
(12) N23°00'E, 267'



Cool Ownership:
Hillman Coal & Coke Co.
170 Thompson Dr.
Bridgeport, W.Va. 26330

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION JCT. RDS 3200'± W. OF LOCATION, ELEV. = 1591

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES

(SIGNED) Mark C. Echard
MARK C. ECHARD
R.P.E. _____ L.L.S. 490

MARK C. ECHARD
LICENSED
No. 490
STATE OF WEST VIRGINIA
LAND SURVEYOR
PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6
(3-78)

DATE JUNE 8, 19 84
OPERATOR'S WELL NO. TWO
API WELL NO.
47 - 001 - 2077
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ✓ GAS ✓ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ✓ STORAGE ___ DEEP ___ SHALLOW ✓
LOCATION ELEVATION 1687 WATER SHED SUGAR CREEK
DISTRICT GLADE COUNTY BARBOUR
QUADRANGLE BELINGTON 7.5'
SURFACE OWNER ARDEN THOMAS, SR., ET. UX ACREAGE 147
OIL & GAS ROYALTY OWNER ARDEN THOMAS, SR., ET. UX LEASE ACREAGE 148
LEASE NO. _____
PROPOSED WORK: DRILL ✓ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION FOX SAND ESTIMATED DEPTH 5600'
WELL OPERATOR PARCOIL CORPORATION DESIGNATED AGENT JACK C. CHILDERS
ADDRESS RT. 1, BOX 181-C ADDRESS RT. 1, BOX 181-C