

Redrill - 4/21/83

New Location

Drill Deeper

Abandonment

1/6/78 / 7/19/83

Minimum Error of Closure $1' / 2,000'$

Source of Elevation Plugged Gas Well (Permit Web-55) Elevation given as 1625.00

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

L.G. Sturgill

Company: Cabot Oil & Gas Corp. of. W.Va.

Address: PO Box 628 - Charleston, W.Va 25322

Farm: R. GORDON BARRICK

Tract: _____ Acres 3,080 Lease No. 509342

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 1662.82

Quadrangle 7.5' Skelt / 15' Hacker Valley

County Webster District Fork Lick

Engineer L.G. Sturgill, LLS

Engineer's Registration No. 412

File No. W77-26 W.O. #125 Drawing No. D-70

Date 5-18-77 Scale 1" = 1000'

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

CHARLESTON

WELL LOCATION MAP

FILE NO. WEB-63-P-RED-63

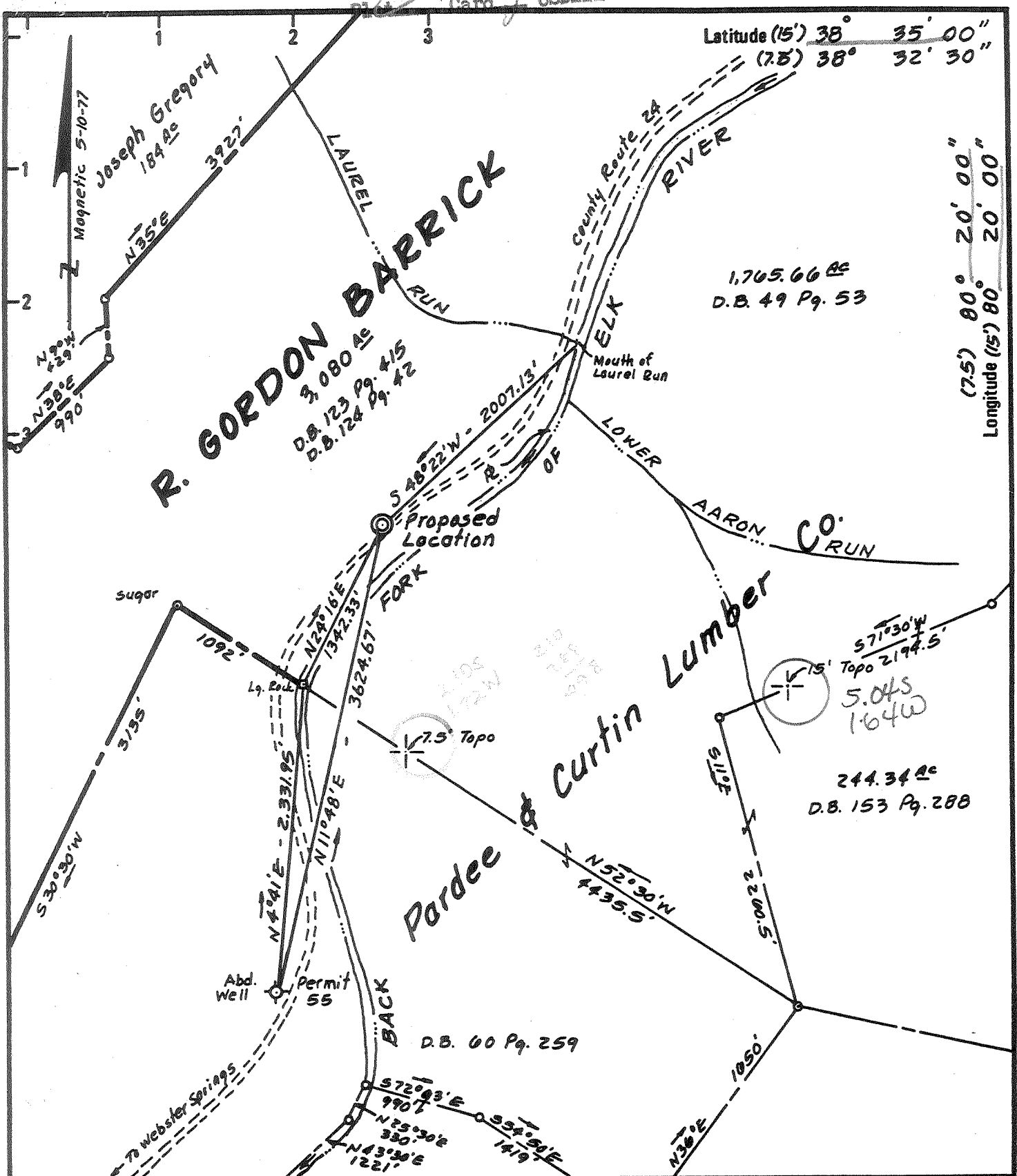
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-101

OCT 3 1983

WES. 63-P-RED-63



Redrill - 4/21/83
 New Location
 Drill Deeper
 Abandonment
 1/6/78

Minimum Error of Closure $1' / 2,000'$
 Source of Elevation Plugged Gas Well (Permit Web-55) Elevation given as 1625.00
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."
J. L. Sturgill

Company Cabot Oil & Gas Corp. of. W.Va.
 Address PO Box 628 - Char/astn. W.Va 25322
 Farm R. GORDON BARRICK
 Tract _____ Acres 3,080 Lease No. 509342
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1662.82
 Quadrangle 7.5' Skelt / 15' Hacker Valley
 County Webster District Fork Lick
 Engineer Mapping, Inc. - L.G. Sturgill, LLS
 Engineer's Registration No. 412
 File No. W77-26 W.O. #125 Drawing No. D-70
 Date 5-18-77 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. WEB-63-P-RED.

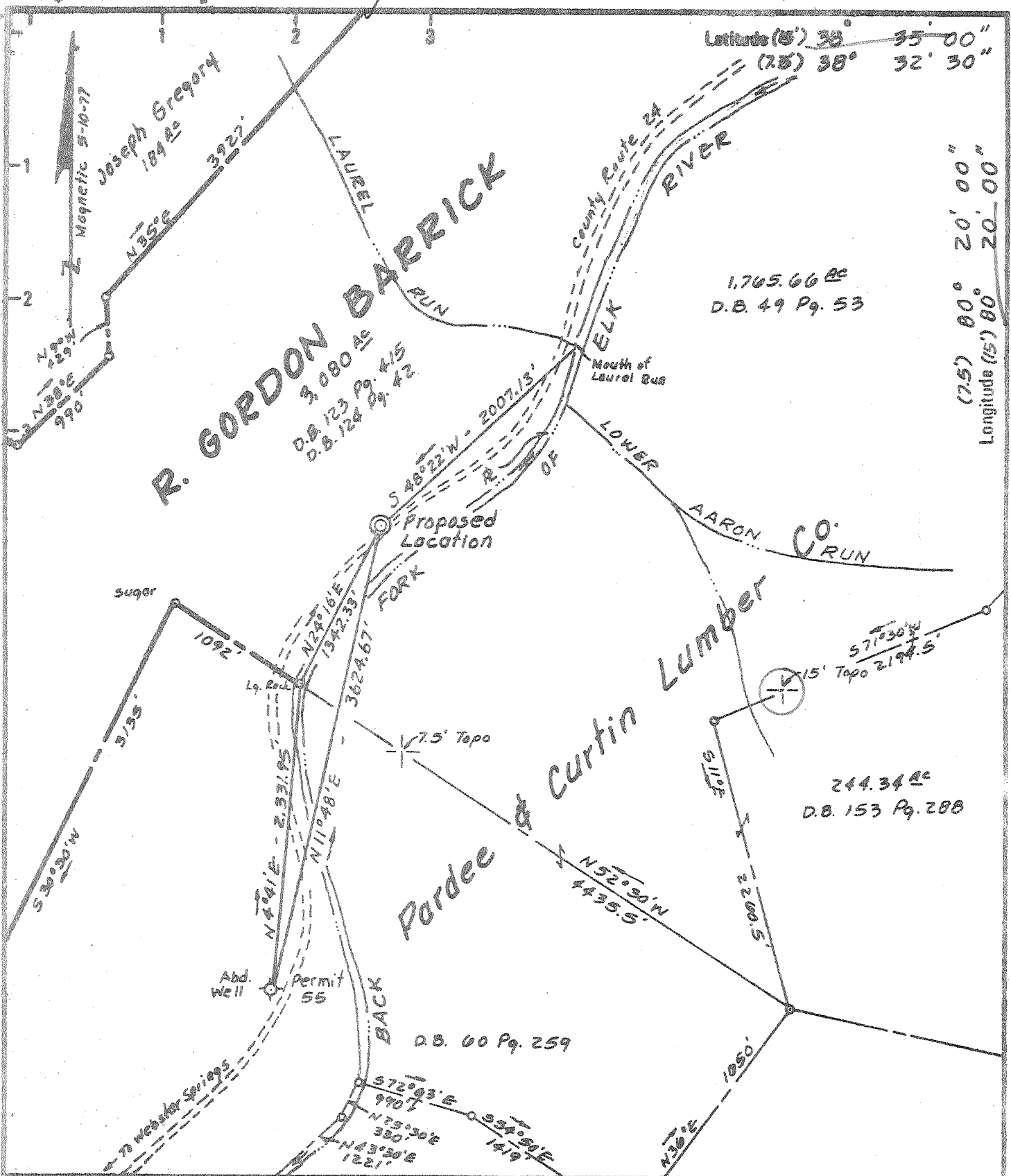
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 - Denotes one inch spaces on border line of original tracing.

47-101 APR 25 1983

N19266 Revised 8-10-77
 Revised - 8-17-77

1700' Gordon
 FO unnamed (O)
 OWWD

WEB. 63-P-RED.



Minimum Error of Closure $1/2,000$
 Source of Elevation Plugged Gas Well (Permit Web-55) Elevation given as 1625.00
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location
 Drill Deeper
 Abandonment
 1/6/78

J. L. Sturgill

Company **AMOCO PRODUCTION CO.**
 Address 500 Jefferson Building P.O. Box 3092, Houston, TX 77001
 Farm **R. GORDON BARRICK**
 Tract _____ Acres 3,080 Lease No. 509342
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1662.82 SC
 Quadrangle 7.5' skelt / 15' Hacker Valley
 County Webster District Fork Lick
 Engineer W. V. Surveying, Inc. - L. G. Sturgill, LLC
 Engineer's Registration No. 412
 File No. W77-26 NO. 125 Drawing No. D-70
 Date 5-18-77 Scale 1" = 1000'
 Revised 8-10-77
 Revised 8-17-77

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

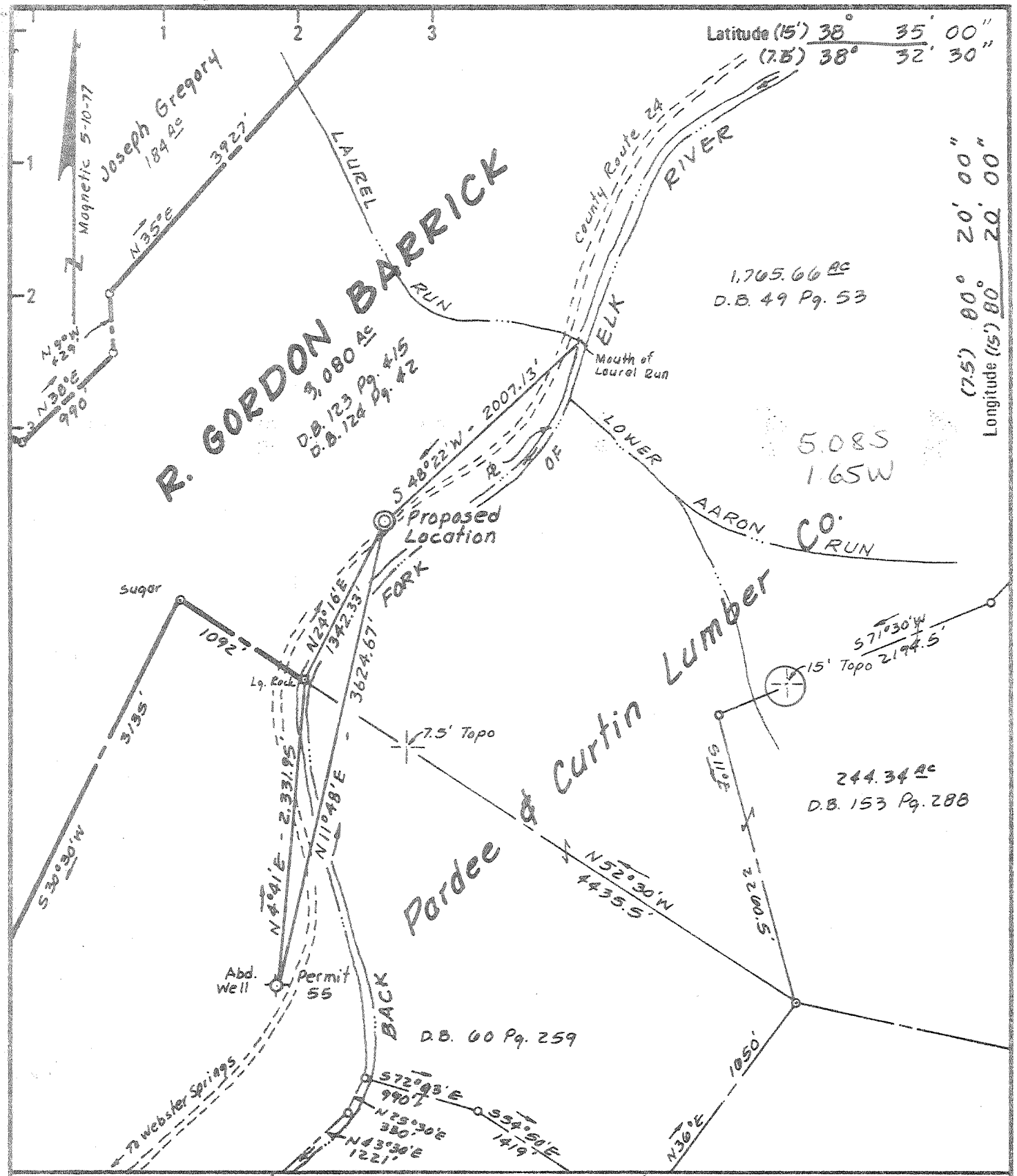
WELL LOCATION MAP
 FILE NO. **WEB-63-P**

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-101 JAN 13 1978

Deep Well



- New Location
- Drill Deeper
- Abandonment

Minimum Error of Closure $1' / 2,000'$
 Source of Elevation *Plugged Gas Well (Permit Web-55) Elevation given as 1625.00*

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

J. L. Sturquill

AMOCO PRODUCTION CO.
 500 Jefferson Building
 P.O. Box 3092, Houston, TX 77001

R. GORDON BARRICK

Tract _____ Acres 3,080 Lease No. 509342

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 1662.82 SC

Quadrangle 7.5' skelt / 15' Hacker Valley

County Webster District Fork Lick

Engineer W.V. Surveying & Mapping, Inc. - L.G. Sturquill, LLC

Engineer's Registration No. 412

File No. W77-26 W.O. #125 Drawing No. D-70

Date 5-18-77 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. WEB-63

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-101 OCT 7 1977



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle 7.5' Skelt/15' Hacker Valley

Permit No. ~~1118-63~~

101-0063

Company Amoco Production Company
Address 10850 Traverse Hwy., Traverse City, MI
Farm R. Gordon Barrick Acres 3080
Location (waters) Back Fork of Elk River
Well No. _____ Elev. 1662.82
District Fork Lick County Webster
The surface of tract is owned in fee by _____
R. Gordon & Winifred M. Barrick
Address P. O. Box 887, Elkins, W. Va. 26241
Mineral rights are owned by Same
Address _____
Drilling Commenced 10/24/77
Drilling Completed 12/12/77
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 20"	95'	95'	100 sk
13-10" 13 3/8"	530'	530'	580 sk
9 5/8 9 5/8"	2945'	2945'	1200 sk
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Well was dry

Attach copy of cementing record.

Coal was encountered at None Feet _____ Inches
Fresh water 356.890 Feet _____ Salt Water _____ Feet _____
Producing Sand None Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
No Desc.			0	140		
Rd; gry slty sdy sh; tr lt gry f-m gr. ss.			140	220		
Gry slty & sdy sh.			220	260		
No Returns @356' hole was filling w/wtr.			260	360	Water	
Sh, rd-gry slty			360	440		
Greenbrier lm, wh-tn vf-fxln, sdy			440	870		
Sh, lt gry-dk gry, slty & dolomitic ss. @890' incr. in wtr.			870	942	Water	
SS., wh to clear v. hd & tite.			942	964		
SS & sh.			964	2040		
Sh, dk gry to blk, slty.			2040	2260		
Alternating bds. sh & sltst.			2260	6390		
Marcellus sh.			6390	6400		
Oriskany ss. wh, lt gry f-crs gr.			6400	6500		
Med-dk gry sl. argil vf-fxln lm			6500	6760		
Ls, lt-dk gry-brn w/abund. ss & sltst.			6760	6800		
Ls, lt-dk gry-brn vf-fxln, argil.			6800	7110		
Ls. AA.			7110	7200		

(over)

* Indicates Electric Log tops in the remarks section.

NOV 16 1981

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Ss!, lt-dk gry poorly sorted			7200	7220		
No Samples			7220	7240		
Ls. lt-dk gry-brn argil.			7240	7319		
Cored - Ls. dk gry micrite dns.			7319	7365		
Ls. AA.			7365	7465		
SS. lt gry m-gr.			7465	7475		
Ls. lt-dk gry-brn argil.			7475	7518		
Cored - Ls. dk gry, v. argil, dns. vf-fxln.			7518	7548		
Ls, lt-dk gry, f-xln			7548	7728		
SS., f-crs gr & sltst			7728	7740		
Rose Hill, sh grn-lt brn & sltst, lt gry, tite			7740	7884		
<u>CORE # 1</u>						
Cut 46', Rec. 8' core			7319	7365		
Ls, micrite, dk gry, dns w/shaly partings, healed fractures.			7319	7327		
<u>CORE # 2</u>						
Cut 30', Rec. 30'			7518	7548		
Ls. dk gry, dns healed frac. shaley partings, sl. foss.			7518	7522		
Ls., med-dk gry argil, dns Litho-fxln, foss. healed frac.			7522	7529		
Ls. med-dk gry v argil, hd, sl. foss, healed frac.			7529	7540		
Ls., med-dk gry, mod. argil. vf-fxln., foss., healed frac.			7540	7545		

Date February 9, 1978

APPROVED Anoco Production Company

By *J. E. York*
J. E. York, (110) Area Superintendent

FORM IV-35
(Continued)

R. Gordon Barrick #1
Cabot Oil & Gas Corporation of WV

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

7/19/83 - R.U McCullough. Set Baker Model N plug @ 1430' with 4 sks. of Cal-seal.

7/20/83 - McCullough Baker Model N bridge plug set @ 920'. R/U Dowell and pumped 60 barrell 6% gel, followed with 40 sks. of Class A cement. 100' plug from 920' up to 820'. Pulled 23 jts. of 1-1/2" tbg. Circulated hole with 5 barrell of 6% gel. Followed with 50 sks. of Class A cement. 130' plug from 130' to surface.

<u>FORMATION</u>	<u>TOP FEET</u>	<u>BOTTOM FEET</u>
<u>CORE # 1</u>		
Cut 46', Rec. 8' core	7319	7365
Ls, micrite, dk gry, dns w/shaly partings, healed fractures.	7319	7327
<u>CORE # 2</u>		
Cut 30', Rec. 30'	7518	7548
Ls. dk gry, dns healed frac. shaley partings, sl. foss.	7518	7522
Ls., med-dk gry argil, dns Litho-fxln, foss. healed frac.	7522	7529
Ls. med-dk gry v argil, hd, sl. foss, healed frac.	7529	7540
Ls., med-dk gry, mod. argil vf-fxln., foss., healed frac.	7540	7545



RECEIVED

SEP - 9 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE September 6, 1977
Company Amoco Production Company
Address Traverse City, Michigan
Farm R. Gordon Barrick Acres 3080
Location (waters) Back Fork of Elk River
Well No. 1 Elevation 1662.82
District Fork Lick County Webster
Quadrangle 7.5' Skelt/15' Hacker Valley

Surface Owner R. Gordon & Winifred H. Barrick
Address P.O. Box 887, Elkins, West Virginia
Mineral Owner same
Address _____
Coal Owner same
Address _____
Coal Operator None
Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-12-78.

INSPECTOR Robert Bates
TO BE NOTIFIED _____
ADDRESS 109 Minnich St., Weston, W. VA 26452
PHONE (304) 269-3820

Robert H. York
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated December 6 19 71 by R. Gordon and Winifred H. Barrick made to C. E. Beck and recorded on the 12 day of April 19 72 in Webster County, Book 8 Page 435 subsequently assigned to Amoco Production Company from C. E. Beck, June 16, 1972 recorded in Webster Co, Book 3, Page 481
 NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours,
(Sign Name) J. E. York J. E. York
Amoco Production Company
10850 Traverse Highway

W. VA. OIL & GAS CONSERVATION COMMISSION
1613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

Address of Well Operator _____
Street _____
City or Town Traverse City
Michigan 49684
State _____

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

WEB-63 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

47-101

Signed by J. E. York

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Unknown at present _____ NAME W. H. Woodroe _____
 ADDRESS _____ ADDRESS C. F. Corp, Charleston National Plaza _____
 TELEPHONE _____ TELEPHONE (304) 343-4541 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 8000 _____ ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Silurian _____
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16 <u>16"</u>	<u>60'</u>		
13 - 10 <u>11-3/4"</u>	<u>750'</u>		
9 - 5/8			
8 - 5/8	<u>2000'</u>		
7			
5 1/2	<u>8000'</u>		
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 1250 FEET * _____ SALT WATER 4950 FEET * _____
 APPROXIMATE COAL DEPTHS None anticipated _____
 IS COAL BEING MINED IN THE AREA? No _____ BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

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DEC 11 1978

FORM OG-8

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

OIL & GAS DIVISION
DEPT. OF MINES

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

COAL OPERATOR OR OWNER R. Gordon & Winifred M. Barrick P. O. Box 887, Elkins, W. VA 26241 Same	ADDRESS	Amoco Production Company 10850 Traverse Hwy, Traverse City, MI 49684 February 8, 1978 Fork Lick District Webster County	NAME OF WELL OPERATOR COMPLETE ADDRESS WELL AND LOCATION District County
LEASE OR PROPERTY OWNER	ADDRESS	Well No. 1	R. Gordon Barrick Farm

STATE INSPECTOR SUPERVISING PLUGGING Robert Bates

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Webster } ss:

W. L. Tredway and J. E. York
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Amoco Production Company, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 15th day of December, 1977, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
7882 - 6582	9# 38 Vis Gel Mud			
6582 - 6382	71 sk			
6382 - 3082	9# 38 Vis Gel Mud	Cmt		95' / 20"
3082 - 2882	72 sk			
2882 - 1787	9# 38 Vis Gel Mud	Cmt		530' / 13 3/8"
1787 - 1687	37 sk			
1687 - 100	9# 38 Vis Gel Mud	Cmt		2945' / 9 5/8"
100 - 0	37 sk	Cmt		
COAL SEAMS				
(NAME) None		DESCRIPTION OF MONUMENT		
(NAME)		9 5/8" casing left exposed with		
(NAME)		pertinent well information		
(NAME)		inscribed there upon		

and that the work of plugging and filling said well was completed on the 16th day of December, 1977.

And further deponents saith not.

Sworn to and subscribed before me this 9 day of February, 1978

My commission expires:

[Signature]
Notary Public.

Permit No. **Web-63-P**
101

NOTARY PUBLIC STATE OF MICHIGAN
OFFICE: 10000 Woodward Ave., Detroit, Mich.
EXPIRES: 12/31/1981

IV-35
(Rev 8-81)

RECEIVED

SEP 15 1983



Date September 8, 1983

Operator's Well No. #1

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Farm R. Gordon Barrick

API No. 47 - 101 - 0063-RED

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 ___ / Underground Storage ___ / Deep ___ / Shallow x /)

LOCATION: Elevation: 1662.82 Watershed Back Fork of Elk River
District: Fork Lick County Webster Quadrangle 7.5' Skelt/15' Hacker Valley

COMPANY Cabot Oil & Gas Corporation of WV
P.O. Box 628
ADDRESS Charleston, West Virginia 25322
DESIGNATED AGENT Robert E. Horrell
P.O. Box 628
ADDRESS Charleston, West Virginia 25322
SURFACE OWNER R. Gordon & Winifred M. Barrick
P.O. Box 887, Elkins, WV 26241
ADDRESS
MINERAL RIGHTS OWNER Same as above
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Robert Bates
109 Minnich Street
ADDRESS Weston, WV 26452
PERMIT ISSUED April 21, 1983
DRILLING COMMENCED 10/24/77 | 5/17/83
DRILLING COMPLETED 12/12/77 | 5/27/83
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON July 17, 1983

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-1/8 Cond.	95'	95'	100 sks.
13-1/8 3/8	530'	530'	580 sks.
9 5/8	2945'	2945'	1200 sks.
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon & Fifth Sands Depth 1528-38' feet
Depth of completed well 7884 feet Rotary x / Cable Tools 1474-91'
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation None Pay zone depth ___ feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 0 Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

OCT 3 1983

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

5/17/83 - Re-entered plugged well. Drilled out cement plugs and circulated gel out of hole. 5/21/83 - R/U McCullough. D.T.D. 1608'. LTD 1626'. Set permanent bridge plug @ 1625'. Cem with 2 sks. Calseal. Perf'd 5th Sand @ 1538-28' (5 holes), 1491'-74' (9 holes). Perf'd Gordon Sand @ 962'-946' (16 holes). Set RBP @ 1590' KB.
 5/24/83 - R/U BJ Hughes. Pumped 1000 gal 15% HCL. Set RTTS pkr @ 1430'. Broke down 5th Sand w/1000 gal 15% HCL @ 1450 psi. Treated with 52,100# 20/40 sand (max concentration 3-1/2"/gal). Total volume 537 bbls. (463 bbls. sand laden). AIR 25 BPM w/170 SCF N₂/bbl. Total N₂ - 180,000 SCF. ATP 1900#. ISIP 1000#; 15 min 690#.
 5/25/83 - Rel'd RTTS pkr. Circ 41' of sd off bridge plug. Rel'd bridge plug. Set bridge plug @ 1015'. Set RTTS pkr @ 981'. Broke down Gordon Sd w/500 gal 15% HCL @ 2440 psi. Treated w/30,000# 20/40 sand (max concentration 2-1/2#/gal). Total volume 386 bbls (325 bbls sand laden). AIR 24 BPM w/100 SCF N₂/bbl. Total N₂ - 77,500 SCF. ATP 1600#. ISIP 950#; 15 min-660#. 5/27/83 - Ran 45 jts (1511') I-1/2" 2.75#/ft tbg. set @ 1529' KB. 5/31-6/12/83 - Swabbing. Well making too much water. Will not flow. 7/18/83 - Prep to move in Talley Well Service to plug well. (SEE ATTACHED

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS	SHEET
					Including indication of all fresh and salt water, coal, oil and gas	
No Desc.			0	140		
Rd; gry slty sdy sh; tr lt gry f-m gr. ss.			140	220		
Gry slty & sdy sh.			220	260		
No Returns @ 356' hole was filling w/wtr.			260	360	Water	
Sh, rd-gry slty			360	440		
Greenbrier lm, wh-tn vf-fxln, sdy			440	870		
Sh, lt gry-dk gry, slty & dolomitic ss. @ 890; incr. in wtr.			870	942	Water	
SS., wh to clear v. hd & tite.			942	964		
SS & sh.			964	2040		
Sh, dk gry to blk, slty.			2040	2260		
Alternating bds. sh & sltst.			2260	6390		
Marcellus Sh.			6390	6400		
Oriskany ss., wh, lt gry f-crs gr.			6400	6500		
Med-dk gry sl. argil vf-fxln ln			6500	6760		
Ls, lt-dk gry-brn w/abund. ss & sltst.			6760	6800		
Ls, lt-dk gry-brn vf-fxln, argil.			6800	7110		
Ls. AA.			7110	7200		
Ss., lt-dk gry poorly sorted			7200	7220		
No Samples			7220	7240		
Ls. lt-dk gry-brn argil.			7240	7319		
Cored - Ls. dk gry micrite dns.			7319	7365		
Ls. AA.			7365	7465		
SS. lt gry m-gr.			7465	7475		
Ls. lt-dk gry-brn argil.			7475	7518		
Cored - Ls. dk gry, v. argil, dns. vf-fxln.			7518	7548		
Ls, lt-dk gry, f-xln			7548	7728		
SS., f-crs gr & sltst			7728	7740		
Rose Hill, sh grn-ll brn & sltst, lt gry, tite			7740	7884		

(Attach separate sheets as necessary)

CABOT OIL & GAS CORPORATION OF WEST VIRGINIA
Well Operator

By: Robert E. Harrel

Date: September 8, 1983

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 all encountered in the drilling of a well."

FORM IV-38
[08-78]

Date: August 12, 1983

Operator's Well No. R. Gordon Barrick #1
API Well No. 47 - 101 - 0063
State County Permit

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___ /
LOCATION: Elevation: 1662.82 Watershed: Back Fork of Elk River
District: Fork Lick County: Webster Quadrangle: 7.5' Skelt/15' Hacker Valley

WELL OPERATOR Cabot Oil & Gas Corp. of WV DESIGNATED AGENT Robert E. Horrell
Address P.O. Box 628 Address P.O. Box 628
Charleston, WV 25322 Charleston, WV 25322

STATE OF WEST VIRGINIA,)
COUNTY OF Kanawha) SS:

Carlos Louden and Robert Keenan

being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells; that they were employed by Cabot Oil & Gas Corp. of WV, the well operator, and participated in the work of plugging and filling the above well; that the work was commenced on July 19, 19 83, and completed on July 20, 19 83, in the following manner:

PERMITTED WORK: Plug and abandon X / Clean out and replug ___ /

PLUGGING MATERIALS

Type of Cement	Other Materials	Depth	Thickness
CAL-SEAL		1430	20
	8.7# GEL	1410	490
CLASS A		920	100
	8.7# GEL	820	690
CLASS A		130	130

Bridge Plugs Used--Type and Depth

(2) 9-5/8" BAKER MODEL N @ 1430'
Bridge Plugs @ 920'

VENT PIPE

MISCELLANEOUS MATERIALS

CASING LOST 95'/20", 530'/13-3/8",
2945'/9-5/8"

TYPE OF RIG: WELL SERVICE RIG

Owner: Well Op'r ___ / Contractor X /

Rig time: 2 days plus ___ hours

COAL SEAMS (NAMES AND DEPTHS)

NONE

RECEIVED
AUG 15 1983

OIL & GAS DIVISION
DEPT. OF MINES

DESCRIPTION OF WELL MONUMENT

9-5/8" casing monument with well
information

Carlos Louden Jr. (SEAL) 0063
Robert L. Keenan (SEAL)

Subscribed and sworn to before me this
12th day of August, 19 83.

My commission expires SEPT 5, 19 88.

R. L. Collins
Notary Public



1) Date: April 12, 1983
 2) Operator's Well No. R. Gordon Barrick #1
 3) API Well No. 47 State 101 County 0063 Permit 880

DRILLING CONTRACTOR:

UNKNOWN

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas XX /
 B (If "Gas", Production / Underground storage / Deep / Shallow XX /)
- 5) LOCATION: Elevation: 1662.82' Watershed: Back Fork of Elk River
 District: Fork Lick County: Webster Quadrangle: 7.5' Skelt/15' Hacker
- 6) WELL OPERATOR Cabot Oil & Gas Corp. of W.Va. 11) DESIGNATED AGENT Robert E. Horrell
 Address P.O. Box 628 Address P.O. Box 628
Charleston, WV 25322 Charleston, WV 25322
- 7) OIL & GAS ROYALTY OWNER Winifred M. Barrick 12) COAL OPERATOR NOT OPERATED
 Address P.O. Box 887 Address
Elkins, WV 26241
- 8) SURFACE OWNER R. Gordon & Winifred M. Barrick 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address P.O. Box 887 Name R. Gordon & Winifred M. Barrick
Elkins, WV 26241 Address P.O. Box 887
Elkins, WV 26241 Name
 Address
- 9) FIELD SALE (IF MADE) TO:
 Address N/A
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Bates Address 109 Minnich Street
Weston, WV 26452
- 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name N/A Address
- 15) PROPOSED WORK: Drill / Drill deeper / Redrill XX / Fracture or stimulate XX /
 Plug off old formation / Perforate new formation XX /
 Other physical change in well (specify) Re-enter plugged well.
- 16) GEOLOGICAL TARGET FORMATION, Gordon, Fifth Sands
- 17) Estimated depth of completed well, 1700 feet
- 18) Approximate water strata depths: Fresh, 356 feet; salt, feet.
- 19) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No

20) CASING AND TUBING PROGRAM WORKOVER

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	20"			X		PRESENT	95'	100 sks	Kinds
Fresh water	13-3/8			X		PRESENT	530'	580 sks	
Coal									Sizes
Intermediate	9-5/8			X		PRESENT	2945'	1200 sks	
Production									Depths set
Tubing	2-3/8		4.6#	X		PROPOSED	1550'		
Liners									Perforations: Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 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.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary:
 My Commission Expires March 5, 1989

Signed: Robert E. Horrell
 Its: District Production Superintendent

OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-101-8863-RED. Date April 12 1983

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. 10) 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.)

Permit expires December 21, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:

Administrator, Office of Oil and Gas