



1) Date: October 18, 19 84  
 2) Operator's Well No. McLean A-148-R  
 3) API Well No. 47 079  
 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 X /  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep X / Shallow \_\_\_\_\_)
- 5) LOCATION: Elevation: 1048 Watershed: Beech Branch  
 District: Buffalo County: Putnam Quadrangle: Elmwood 7 1/2
- 6) WELL OPERATOR Cabot Oil & Gas Corp. of WV 7) DESIGNATED AGENT David G. McCluskey  
 Address P.O. Box 628 Address P.O. Box 628  
Charleston, WV 25322 Charleston, WV 25322
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Jerry Holcomb Name UNKNOWN  
 Address Rural Rt. 1, Box 28 Address \_\_\_\_\_  
Hamlin, WV 25523 824 3337
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate X /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Oriskany - Devonian Shale
- 12) Estimated depth of completed well, 4750 feet  
 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, 800, 2000, 2270 feet.  
 14) Approximate coal seam depths: 771 Is coal being mined in the area? Yes \_\_\_\_\_ / No X /
- 15) CASING AND TUBING PROGRAM

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	<u>16</u>		<u>65</u>			<u>30</u>	<u>30</u>	<u>10 sks.</u>	Kinds
Fresh water	<u>9-5/8</u>		<u>36</u>			<u>820</u>	<u>820</u>	<u>275 sks. Neat CTS</u>	
Coal									Sizes
Intermediate	<u>7</u>		<u>20</u>			<u>2500</u>	<u>2500</u>	<u>400 sks. Neat CTS</u>	
Production	<u>4-1/2</u>		<u>11.60</u>			<u>4750</u>	<u>4750</u>	<u>200 sks. or as req by Rule 15.01</u>	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.)

(For execution by natural persons)

NAME: \_\_\_\_\_  
 By \_\_\_\_\_  
 Its \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_  
 (Signature) Date: \_\_\_\_\_  
 \_\_\_\_\_  
 (Signature) Date: \_\_\_\_\_

**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 Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.



1) Date: October 18, 19 84  
 2) Operator's Well No. McLean A-148-R  
 3) API Well No. 47 - 079 - 1128  
 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 X /  
 B (If "Gas", Production        / Underground storage        / Deep X / Shallow       )
- 5) LOCATION: Elevation: 1048 Watershed: Beech Branch  
 District: Buffalo County: Putnam Quadrangle: Elmwood 7 1/2
- 6) WELL OPERATOR Cabot Oil & Gas Corp. of WV 7) DESIGNATED AGENT David G. McCluskey  
 Address P.O. Box 628 Address P.O. Box 628  
Charleston, WV 25322 Charleston, WV 25322
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Jerry Holcomb Name UNKNOWN  
 Address Rural Rt. 1, Box 28 Address         
Hamlin, WV 25523 824 3337
- 10) PROPOSED WELL WORK: Drill X / Drill deeper        / Redrill        / Stimulate X  
 Plug off old formation        / Perforate new formation        OCT 19 1984  
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Oriskany - Devonian Shale
- 12) Estimated depth of completed well, 4750 feet
- 13) Approximate strata depths: Fresh,        feet; salt, 800, 2000 feet
- 14) Approximate coal seam depths: 771 Is coal being mined in the area? Yes        / No X

RECEIVED  
 OCT 19 1984

OIL & GAS DIVISION  
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	16		65			30	30	10 sks. Kinds
Fresh water	9-5/8		36			820	820	275 sks. Neat CTS
Coal								Sizes
Intermediate	7		20			2500	2500	400 sks. Neat CTS
Production	4-1/2		11.60			4750	4750	200 sks. or as depths set
Tubing								req by Rule 15.01
Liners								Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-079-1128 Date November 3, 19 84

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 November 3, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>30</u>	Agent: <u>MH</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>13946</u>
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*Margaret J. Lass*  
 Administrator, Office of Oil and Gas

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

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

File

OFFICE USE ONLY

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

RECEIVED

OIL & GAS DIVISION  
DEPT. OF MINES

OFFICE USE ONLY

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

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_



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 State            County            Permit           

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

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Production	4-1/2		11.60			4750	4750	200 sks. or as	Depths set
Tubing								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            / 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.

Date: 30 MH TS TS 13946, 19           

By Margaret J. Hester  
 Its



State of West Virginia  
Department of Mines  
Oil and Gas Division

Construction and Reclamation Plan

COMPANY NAME Cabot Oil & Gas Corporation  
ADDRESS P.O. Box 628, Chas. WV 25322  
TELEPHONE 304-347-1600  
LANDOWNER Margaret M. Smith, et al

DESIGNATED AGENT David G. McCluskey  
ADDRESS P.O. Box 628 Chas. WV 25322  
TELEPHONE 304-347-1600  
SOIL CONS. DISTRICT Western.

Revegetation to be carried out by \_\_\_\_\_ Company Contractor \_\_\_\_\_ (Agent)

This plan has been reviewed by Western SCD. All corrections and additions have become a part of this plan.

9/25/84  
(Date)

Steven B. Feese  
(SCD Agent)

ACCESS ROAD

LOCATION

STRUCTURE Culvert (A)  
SPACING Per Plan  
PAGE REF. MANUAL 2:7, 2:8, 2:9

STRUCTURE \_\_\_\_\_ (1)  
MATERIAL \_\_\_\_\_  
PAGE REF. MANUAL \_\_\_\_\_

STRUCTURE \_\_\_\_\_ (B)  
SPACING \_\_\_\_\_  
PAGE REF. MANUAL \_\_\_\_\_

STRUCTURE \_\_\_\_\_ (2)  
MATERIAL \_\_\_\_\_  
PAGE REF. MANUAL \_\_\_\_\_

STRUCTURE \_\_\_\_\_ (C)  
SPACING \_\_\_\_\_  
PAGE REF. MANUAL \_\_\_\_\_

STRUCTURE Sediment Barrier (3)  
MATERIAL Vegetated Strip  
PAGE REF. MANUAL 2:16, 2:17

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 earth work begins.

TREATMENT AREA I		Revegetation	TREATMENT AREA II	
Lime	<u>2</u> Tons/acre		Lime	<u>2</u> Tons/acre
or correct to pH _____			or correct to pH <u>6.5</u>	
Fertilizer	<u>500</u> lbs/acre		Fertilizer	<u>500</u> lbs/acre
(10-20-20 or equivalent)			(10-20-20 or equivalent)	
Mulch	<u>Hay or Straw @ 1 1/2</u> Tons/acre		Mulch	<u>Hay or Straw @ 1 1/2</u> Tons/acre
Seed*	<u>Orchard Grass 12</u> lbs/acre		Seed*	<u>Orchard Grass 12</u> lbs/acre
	<u>Ladino Clover 3</u> lbs/acre			<u>Ladino Clover 3</u> lbs/acre
	_____ lbs/acre			_____ lbs/acre

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


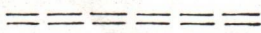
PLAN PREPARED BY N. Bond Whitford  
Cabot Oil and Gas Corporation

Note: Please request landowner cooperation to protect new seedlings for one growing season. Attach separate sheets as necessary for comments.

ADDRESS P.O. Box 628  
Charleston, WV 25322  
PHONE NO. (304) 347-1600

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Elmwood

LEGEND


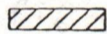
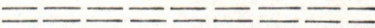
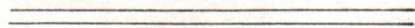

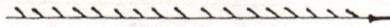

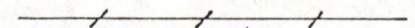









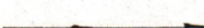
WELL SITE   
ACCESS ROAD 

PHOTOCOPY ATTACHED

WELL SITE PLAN

SKETCH TO INCLUDE WELL LOCATION, EXISTING ACCESS ROAD, ROADS TO BE CONSTRUCTED, WELLSITE, DRILLING PITS AND NECESSARY STRUCTURES NUMBERED OR LETTERED TO CORRESPOND WITH THE FIRST PART OF THIS PLAN. INCLUDE ALL NATURAL DRAINAGE.

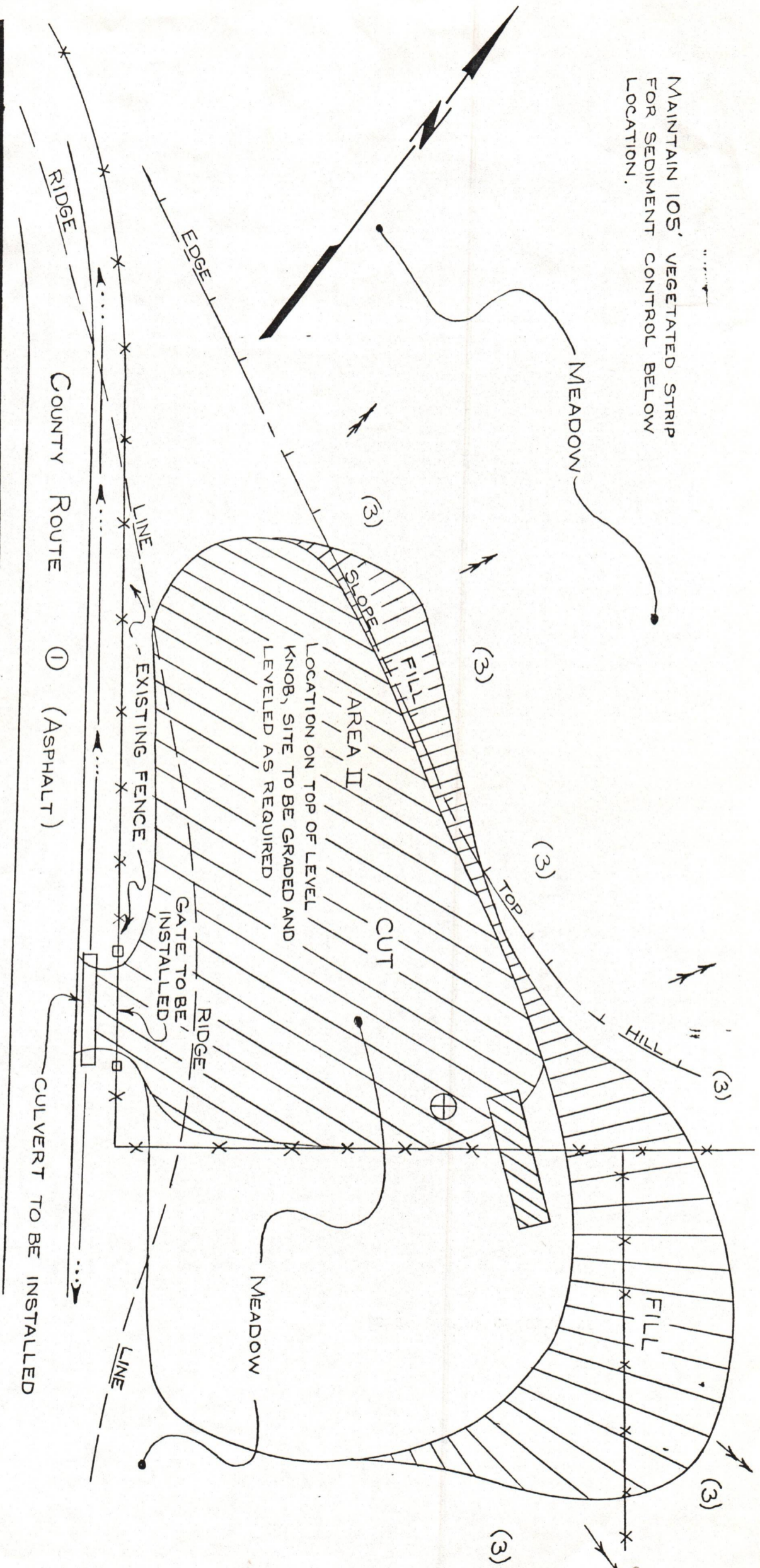
LEGEND

WELL LOCATION		DRILLING PIT	
PROPOSED ROAD		EXISTING ROAD	
PROPERTY BOUNDARY		DIVERSION	
EXISTING FENCE		PROPOSED FENCE	
STREAM		SPRING	
WET SPOT		OPEN DITCH	
DRAIN PIPE		BUILDING	
WATERWAY		CULVERT	
RIP RAP		SLOPE OF LAND	

SKETCH ATTACHED

COMMENTS: All available topsoil shall be scalped from the work area, stockpiled and  
utilized for top dressing after the site is regraded.  
Temporary fencing to be installed if area is subject to grazing.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

MAINTAIN 105' VEGETATED STRIP  
FOR SEDIMENT CONTROL BELOW  
LOCATION.

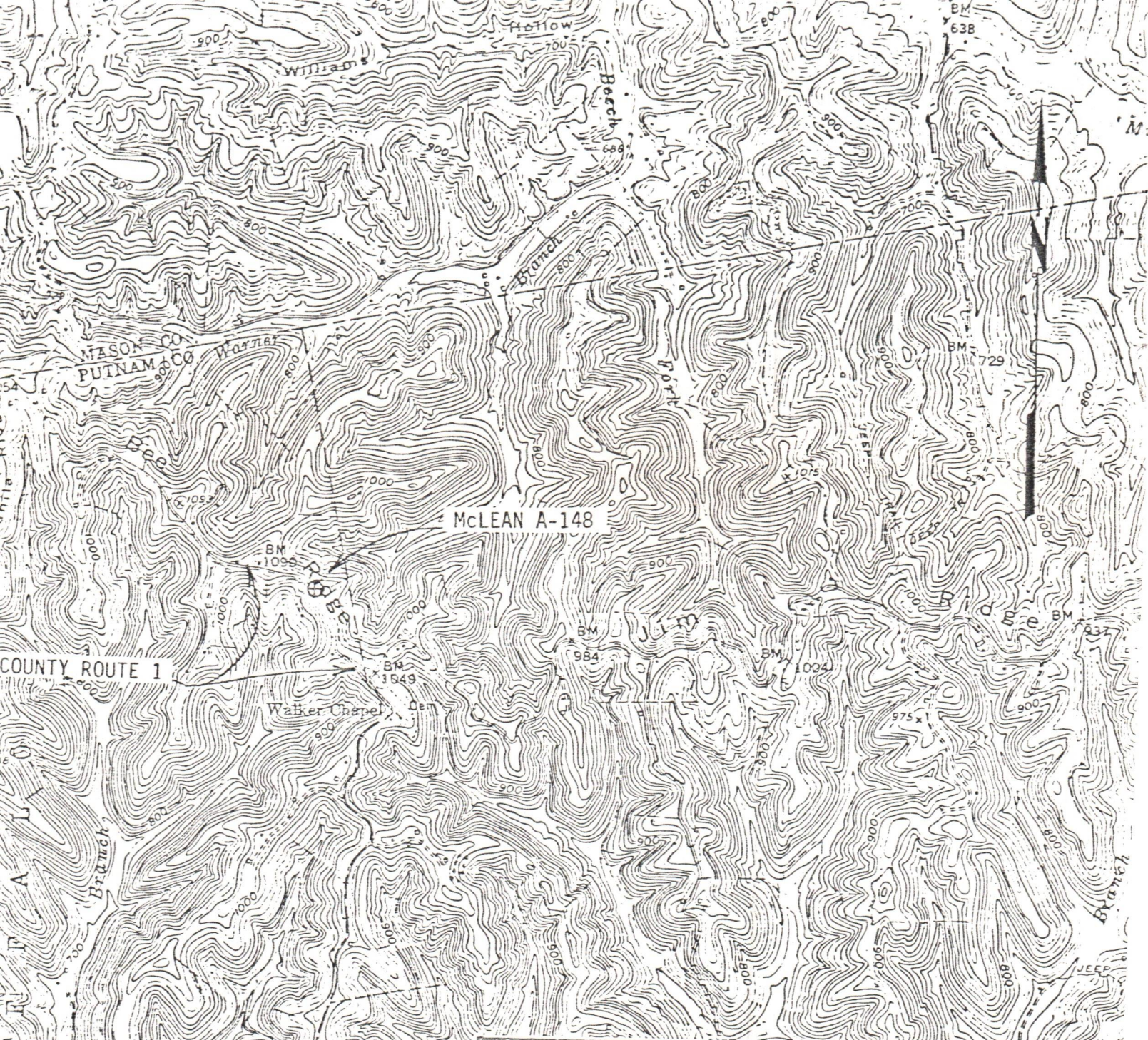


**CABOT OIL & GAS CORPORATION  
OF WEST VIRGINIA**

MCLEAN A-148

**KOLB ENTERPRISES Ltd.**  
CHARLESTON, W. VA.





**CABOT OIL & GAS CORPORATION**  
 CHARLESTON, W. VA.

McLEAN A-148  
 QUADRANGLE  
 ELMWOOD

COUNTY: Putnam      DISTRICT: Buffalo  
 scale: 1"=2000'      contour interval: 20'

**KOLB ENTERPRISES Ltd.**  
 CHARLESTON, W. VA.

1) Date: October 18, 1984  
2) Operator's Well No. McLean A-148-R  
3) API Well No. 47 - 079 - 1128  
State County Permi

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 Margaret M. Smith et al  
Address Robertsburg, WV 25172

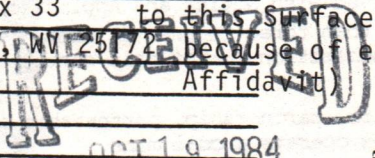
(ii) Name Douglas P. McMillion (Permit not mailed to this Surface Owner because of enclosed Affidavit)  
Address Route 1, Box 33 Robertsburg, WV 25172

(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR Union Carbide Coal Co.  
Address Rt. 2, Box 224-B, Sanderson Road Clendenin, West Virginia 25045

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD  
Name Union Carbide Coal Co.  
Address Rt. 2, Box 224-B, Sanderson Road Clendenin, West Virginia 25045

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



OIL & GAS DIVISION  
DEPT. OF MINES

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,

- (2)
- (3)

THE WHICH ARE (FORM IV-ACTION AT

Take erator pr for a Well Department and depic Construct by hand before t

6) EXTRA

Check  Inc

The

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 X

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 David G. McCluskey

this 18 day of October, 1984.  
My commission expires March 5, 1989.

Joanne Miller  
Notary Public, Kanawha County,  
State of West Virginia

WELL OPERATOR CABOT OIL & GAS CORPORATION OF WV

By David G. McCluskey  
Its District Drilling Superintendent  
Address P.O. Box 628 Charleston, West Virginia 25322  
Telephone (304) 347-1600

P 753 224 458  
RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

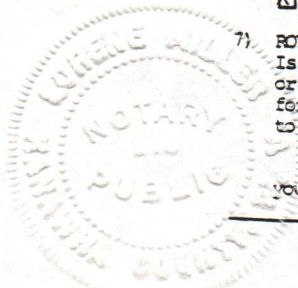
(See Reverse)

Sent to	Ms. Margaret M. Smith et al
Street and No.	
P.O. State and ZIP Code	Robertsburg, WV 25172
Postage	\$ 75
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	60
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	
Postmark or Date	



PS Form 3800, Feb. 1982 \* U.S.G.P.O. 1983-403-517

*McLean A-148-R*



I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the applicant.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record. See also Code § 22-4-10, "Surface owners and co-owners of interest in such lands".
- 5(i) "Coal Operator" means a person or corporation that produces coal.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c) regarding continuing contract(s), provided below.
- 7) See Code § 22-4-11(d) regarding continuing contract(s).

CONCERNING THE REQUIRED COPIES

Filing. Code § 22-4-1k and copies of the Notice and Application accompanied by (i) a plat in the form prescribed by Regulation by Code § 22-4-1k(d) and title 23, (iv) unless previously recorded and 22-3-12a, and (v) if applicant is owner of any water well on the tract.

Service. In addition, serve the Notice on the person(s) with an interest in the coal tract.

P 753 224 455

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Union Carbide Coal Co.	
Route 2, Box 224-B	
Street and No. Sanderson Road	
P.O., State and ZIP Code Clendenin, WV 25045	
Postage	\$
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	60
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	APR 1984

\* U.S.G.P.O. 1983-403-517  
PS Form 3800, Feb. 1982

A-148-R  
M. Hoge

ation. However, on or other person hold interests

association or

or other continuing contract(s) in the space

and required return receipt, accompanied by one of security allowed and Regulation by Code § 22-4-1a(c) 22-4-8a from the well.

and the person(s) with an interest in the coal tract, and 22-4-2b.

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

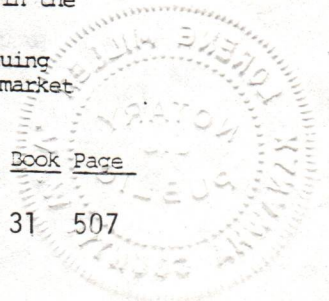
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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
Helen M. Hoge, et al	Godfrey L. Cabot, Inc.	12.5%	31	507

(CURRENT ROYALTY OWNER - SEE ATTACHED SHEET)



OIL & GAS ROYALTY OWNERS

McLEAN A-148-R

Nan Nash Grosscup  
c/o P. Benjamin Grosscup, Jr.  
37 Woodland Avenue  
Greensburg, Pennsylvania 15061

Mary Bowyer Garrett, Agent  
101 16th Avenue, North  
St. Petersburg, Florida 33704

Kenneth M. Bowyer, Jr., Agent  
6400 Lincoln - Apt. 1104  
Buena Park, California 90620

Ivan Arista Hoge  
300 Shorter Avenue  
Rome, Georgia 30161

Helen Hoge Gustavson  
2020 Gulf Shore Boulevard  
Naples, Florida 33940

**RECEIVED**  
OCT 19 1984

OIL & GAS DIVISION  
DEPT. OF MINES



STATE OF WEST VIRGINIA  
OIL AND GAS CONSERVATION COMMISSION  
CHARLESTON 25305

October 25, 1984

Theodore M. Streit, Administrator  
Department of Mines  
Office of Oil and Gas

RE: APPLICATION FOR PERMIT #47- 079 - 1128 TO DRILL DEEP WELL

COMPANY: CABOT OIL & GAS CORPORATION

FARM: HOLLIE R. SMITH, ET UX

COUNTY: PUTNAM DISTRICT: BUFFALO

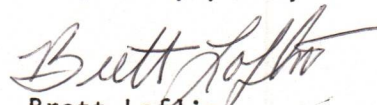
---

The application of the above company is APPROVED FOR ORISKANY/DEVONIAN SHALE COMPLETION  
(APPROVED - DISAPPROVED)

Applicant HAS complied with the provisions of Chapter twenty-two,  
HAS - HAS NOT  
four-A (§22-4A), of the Code of West Virginia, nineteen hundred and thirty-one  
(1931), as amended, Oil and Gas Conservation Commission, as follows:

1. *Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; Yes*
2. *Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and, \*\**
3. *Provided a plat showing that the proposed location is a distance of 1,000 feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3,000 feet of the proposed location: See \*\**

Very truly yours,

  
Brett Loflin  
Petroleum Engineer

\*\*

079-0988 - 3650'

079-1036 - 4350'

LBL/rf



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FEB 21 1985



IV-35  
(Rev 8-81)

OIL & GAS DIVISION State of West Virginia  
DEPT. OF MINES Department of Mines  
Oil and Gas Division

Date February 19, 1985  
Operator's Well No. A-148  
Farm McLean  
API No. 47 - 079 - 1128

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

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

LOCATION: Elevation: 1048' Watershed Beech Branch  
District: Buffalo County Putnam Quadrangle Elmwood 7-1/2

COMPANY Cabot Oil & Gas Corporation of WV  
ADDRESS Box 628, Charleston, WV 25322  
DESIGNATED AGENT David G. McCluskey  
ADDRESS Box 628, Charleston, WV 25322  
SURFACE OWNER See Attached List  
ADDRESS \_\_\_\_\_  
MINERAL RIGHTS OWNER See Attached List  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Russell Beall  
ADDRESS Box 160, Philippi, WV 26416  
PERMIT ISSUED 11/3/84  
DRILLING COMMENCED 11/8/84  
DRILLING COMPLETED 12/15/84

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
13-3/8	47	47	10 sks
13-10"			
9 5/8	837	837	290 sks
8 5/8			
7	2433.70	2433.70	420 sks
5 1/2			
4 1/2	5049	5049	100 sks
3			
1-1/2	4984.85	4984.85	
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_  
GEOLOGICAL TARGET FORMATION Oriskany Devonian Shale Depth 4984-4999 2740-5089 feet  
Depth of completed well 5089 feet Rotary XX / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 180,222 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: 771 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 4972-4992 feet  
Gas: Initial open flow - - Mcf/d Oil: Initial open flow - - Bbl/d  
Final open flow 40 Mcf/d Final open flow - - Bbl/d  
Time of open flow between initial and final tests - - hours  
Static rock pressure 1770 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)

PVT - 1128

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

Perforated Oriskany 2 JSPF at 4972', 4986', 4988', 4990' & 4992', (10 holes). Dumped 250 gal, 15% HCL. Pumped 160 bbl pad of 30#/1,000 gal gel system. Broke down Oriskany at 3880 psi. Treated with 17 sks 20/40 at 1/2# per gal, 38 sks 1# per gal, 76 sks 1.5# per gal, 126 sks 2# per gal, & 42 sks 2.5# per gal. AIR 10.5 bpm. ATP 4200 psi. TF 693 bbl. S/L 482 bbl. AIR N<sub>2</sub> 3,000 SCF/min. Total N<sub>2</sub> 185,600 SCF. ISIP 4500 psi, 5 min 3850 psi, 10 min 3660 psi, 15 min 3550 psi.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale			0	630	All measurements from KB.
Sand			630	650	
Shale			650	1003	
Sand			1003	1018	
Shale			1018	1136	
Sand and Shale			1136	1605	
Shale			1605	1795	
Sand			1795	1842	
Shale			1842	1880	
Sand			1880	1934	
Shale			1934	1986	
Sand			1986	2068	
Big Lime			2068	2174	
Shale			2174	2247	
Big Injun			2247	2343	
Shale			2343	2698	
Sunbury			2698	2720	
Berea			2720	2740	
Shale			2740	3911	
Huron			3911	4353	
Shale			4353	4585	
Rhinestreet			4585	4906	
Onondoga			4906	4984	
Oriskany			4984	4999	
Helderberg			4999	T.D.	
DTD			5095'	KB	
LTD			5089'	KB	

(Attach separate sheets as necessary)

CABOT OIL & GAS CORPORATION OF WEST VIRGINIA

Well Operator

By: David G. McCloskey  
Date: February 19, 1985

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."



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

RECEIVED  
DEC 3 - 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 079 1128

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>cabot oil &amp; gas corp.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm _____	16			Kind of Packer _____
Well No. <u>Mclean A 128</u>	13			Size of _____
District _____ County <u>putnam</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

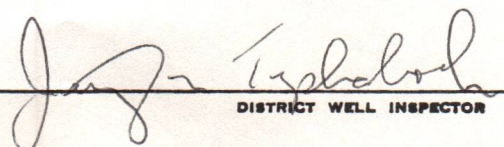
Drillers' Names \_\_\_\_\_

Remarks:

TD 5094 11 19 84 ran 5049 41/2 csg.

Moving rig off today.

11 26 84  
DATE

  
DISTRICT WELL INSPECTOR

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF MINES**  
**OIL AND GAS WELLS DIVISION**  
**INSPECTOR'S PLUGGING REPORT**

RECEIVED  
DEC 3 - 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

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

26-Feb-85

**RECEIVED**

JUL 8 - 1985

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OFFICE OF OIL AND GAS  
CHARLESTON 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

OIL & GAS DIVISION  
**DEPT. OF MINES**

Company: CABOT O & G CORP  
Farm: SMITH, MARGARET ETAL

Well: A-148-R

Permit No. 47- 79-1128 (11-03-84)  
County: PUTNAM

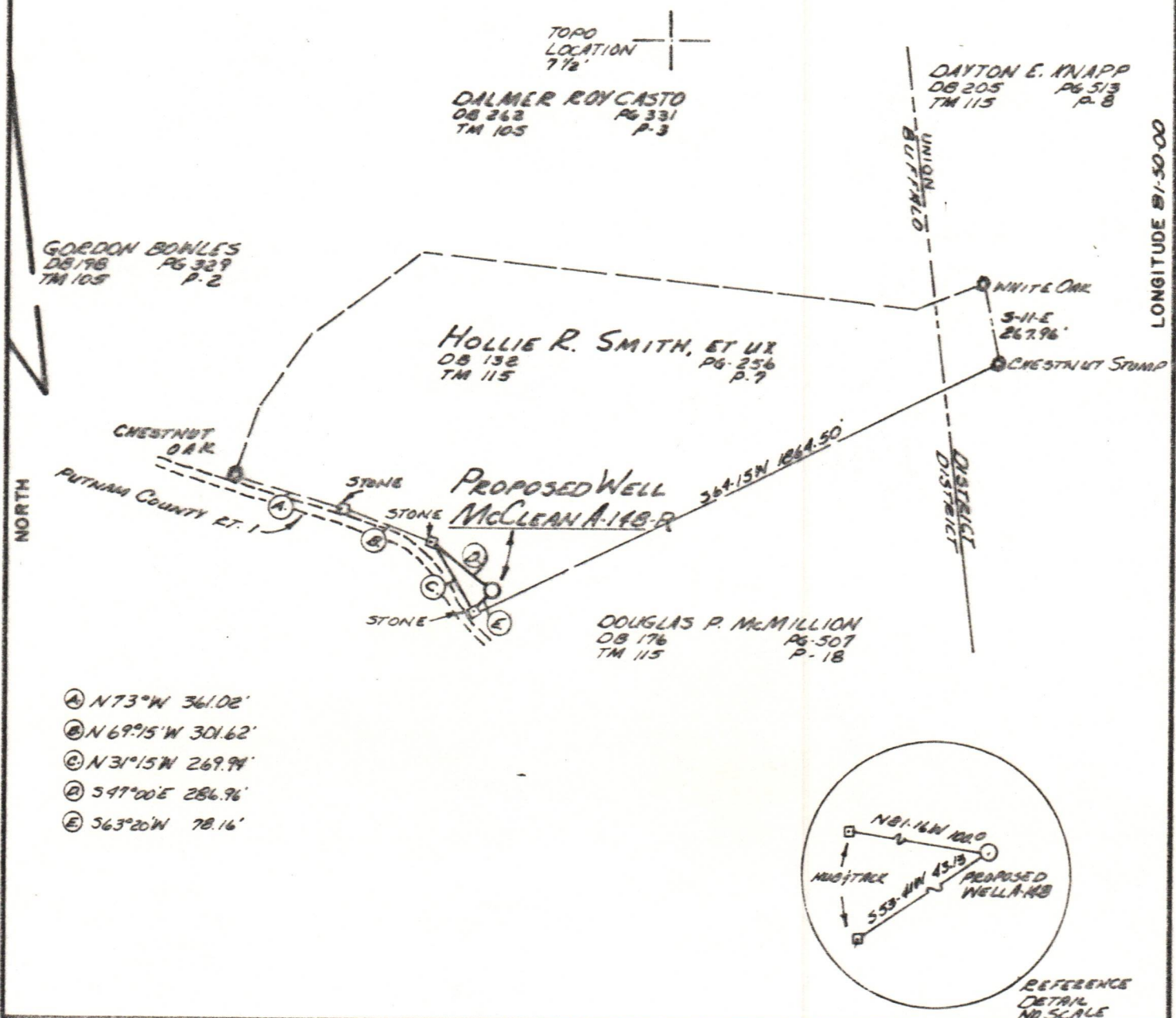
Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepped before drilling to prevent waste	-----	-----
25.03	High pressure drilling	-----	-----
16.01	Required permits at wellsite	-----	-----
15.03	Adequate Fresh Water Casings	-----	-----
15.02	Adequate Coal Casings	-----	-----
15.01	Adequate Production Casings	-----	-----
15.04	Adequate Cement Strength	-----	-----
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:

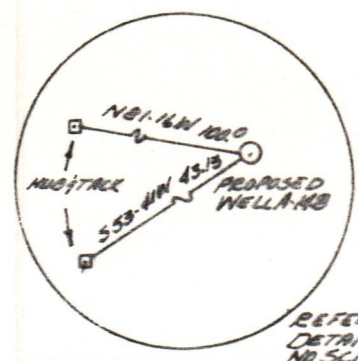
SIGNED Carlson Hively  
DATE 7-2-85

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.

T. H. v. B.  
Administrator  
July 18, 1985  
Date



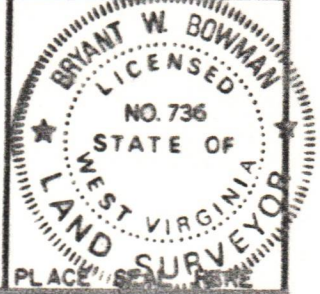
- ① N73°W 361.02'
- ② N69°15'W 301.62'
- ③ N31°15'W 269.94'
- ④ S41°00'E 286.96'
- ⑤ S63°20'W 78.16'



REFERENCE  
DETAIL  
NO SCALE

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1:500  
MINIMUM DEGREE OF ACCURACY 1:500  
PROVEN SOURCE OF ELEVATION BM - EL. 1090  
NW OF LOCATION

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) Bryant W. Bowman  
R.P.E. \_\_\_\_\_ L.L.S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



Department of Mines  
Oil & Gas Division

DATE SEPTEMBER 22, 19 89  
OPERATOR'S WELL NO. McCLEAN A-148-R  
API WELL NO. 47-079-1128  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS", PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_)  
LOCATION: ELEVATION 1048 WATER SHED BEECH BRANCH  
DISTRICT BUFFALO COUNTY PUTNAM  
QUADRANGLE ELMWOOD  
SURFACE OWNER HOLLIE R. SMITH ET EX ACREAGE 92.05  
OIL & GAS ROYALTY OWNER J.L. McCLEAN HES. SCARBOROUGH GAS CORP. LEASE ACREAGE 24.610+  
LEASE NO. 47-0560  
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 ORISKANY/DEVONIAN SHALE ESTIMATED DEPTH 4750'  
WELL OPERATOR SCARBOROUGH OIL & GAS CORP. OF W.VA. DESIGNATED AGENT H. SAIED WHITEHEAD  
ADDRESS P.O. BOX 628 CHARLESTON, W.VA. ADDRESS P.O. BOX 628 CHARLESTON, W.VA.