

FILE COPY
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JAN 10 1985



1) Date: January 9, 1985
 2) Operator's Well No. C.W. Murphy C-4
 3) API Well No. 47 - 109- 0952
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 2012.3' Watershed: Simmons Fork of Clear Fork
 District: Oceana County: Wyoming Quadrangle: Matheny 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 8150 Charleston, WV 25322
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Arthur St. Clair Name UNKNOWN
 Address P.O. Box 468 Address _____
Brenton, WV 24818 732-6227
- 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, Ravencliff, Big Lime, Weir
- 12) Estimated depth of completed well, 3710 feet
 13) Approximate strata depths: Fresh, 135, 520 feet; salt, 1580 feet.
 14) Approximate coal seam depths: 504, 1072 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	16"		65	X		30'	30'	10 sks. Neat CTS	
Fresh water						1100'	1110'	CTS NEAT	
Coal	8-5/8"		24	X		2060'	2060'	530 sks. Neat CTS	
Intermediate									
Production	4-1/2"		10.5	X		3710'	3710'	380 sks. or as depths set	
Tubing								req. by Rule 15.01	
Liners									Perforations: Top _____ Bottom _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-109-0952 Date January 11, 19 85

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 January 11, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
30	MH	MH	MH	0.49

Margaret J. Hesse
 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



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JAN 10 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OFFICE USE ONLY

OIL & GAS DIV.
DEPT. OF MINES

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

1) LOCATION: 2012.3
 2) WELL OPERATOR: Capot Oil & Gas Corp. of W.V.
 Address: P.O. Box 628, Charleston, W.V. 25322
 3) OIL & GAS INSPECTOR TO BE NOTIFIED: Arthur St. Clair
 Address: P.O. Box 468, Preston, W.V. 24818, 732-6227
 4) PROPOSED WELL WORK: Plug off old formation
 5) GEOLOGICAL TARGET FORMATION: Ravennell, Big Lane, Weir
 6) ESTIMATE DEPTH OF COMPLETED WELL: 3710
 7) APPROXIMATE TUBING DEPTH: 185, 520
 8) APPROXIMATE COAL SEAM DEPTH: 504, 1072
 9) CASING AND TUBING PROGRAM

DEPTH	DIAMETER	TYPE	DATE	REMARKS
10 sks. West CTS	30"	3710'	X	185, 520
530 sks. West CTS	30"	2060'	X	504, 1072
380 sks. of 2 1/2"	3710'	3710'	X	

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

OTHER INSPECTIONS

Reason: _____
 Reason: _____



FIELD REVIEWED

RECEIVED
APR 22 1985

State of West Virginia
Department of Mines
Oil and Gas Division

Construction and Reclamation Plan

COMPANY NAME Cabot Oil & Gas Corporation of WV DESIGNATED AGENT David McCluskey
ADDRESS P.O. Box 628, Chas. WV 25322 ADDRESS P.O. Box 628 Chas. WV 25322
TELEPHONE 304-347-1600 TELEPHONE 304-347-1600
LANDOWNER Simmons Fork Land Co. SOIL CONS. DISTRICT Southern

Revegetation to be carried out by _____ Company Contractor _____ (Agent)

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

4-19-85

(Date)

Gary W. Boschain
(SCD Agent)

MAY 03 1985

OIL & GAS DIVISION
DEPT. OF MINES
ACCESS ROAD

LOCATION

STRUCTURE <u>Ditch Relief Cross Drain</u> (A)	STRUCTURE _____ (1)
SPACING <u>Per Plan</u>	MATERIAL _____
PAGE REF. MANUAL <u>2-1, 2-2, 2-3, 2-4</u>	PAGE REF. MANUAL _____
STRUCTURE <u>Culverts</u> (B)	STRUCTURE <u>Diversion Ditch</u> (2)
SPACING <u>Per Plan</u>	MATERIAL <u>Soil</u>
PAGE REF. MANUAL <u>2:7, 2:8, 2:9</u>	PAGE REF. MANUAL <u>2:12, 2:13</u>
STRUCTURE _____ (C)	STRUCTURE <u>Sediment Barrier</u> (3)
SPACING _____	MATERIAL <u>Straw Bales or Filter Fence</u>
PAGE REF. MANUAL _____	PAGE REF. MANUAL <u>2:16, 2:18, 2:19</u>

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 3 Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch Hay or Straw @ 1 1/2 Tons/acre
Seed* Ky 31 Tall Fescue 40 lbs/acre
Redtop 5 lbs/acre
_____ lbs/acre

Lime 3 Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch Hay or Straw @ 1 1/2 Tons/acre
Seed* Ky 31 Tall Fescue 40 lbs/acre
Redtop 5 lbs/acre
_____ lbs/acre

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

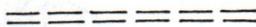
PLAN PREPARED BY David H. McCluskey
Cabot Oil and Gas Corporation of
ADDRESS P.O. Box 628
Charleston, WV 25322
PHONE NO. (304) 347-1600

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

100-601
043

LEGEND

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Matheny 7.5'

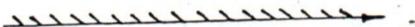
WELL SITE 
ACCESS ROAD 

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: The existing portion of access road to the site to be graded, ditches pulled and drains installed where required by field conditions.

Existing roadbed to site to be reconstructed, ditches pulled and drains installed where required by field conditions.

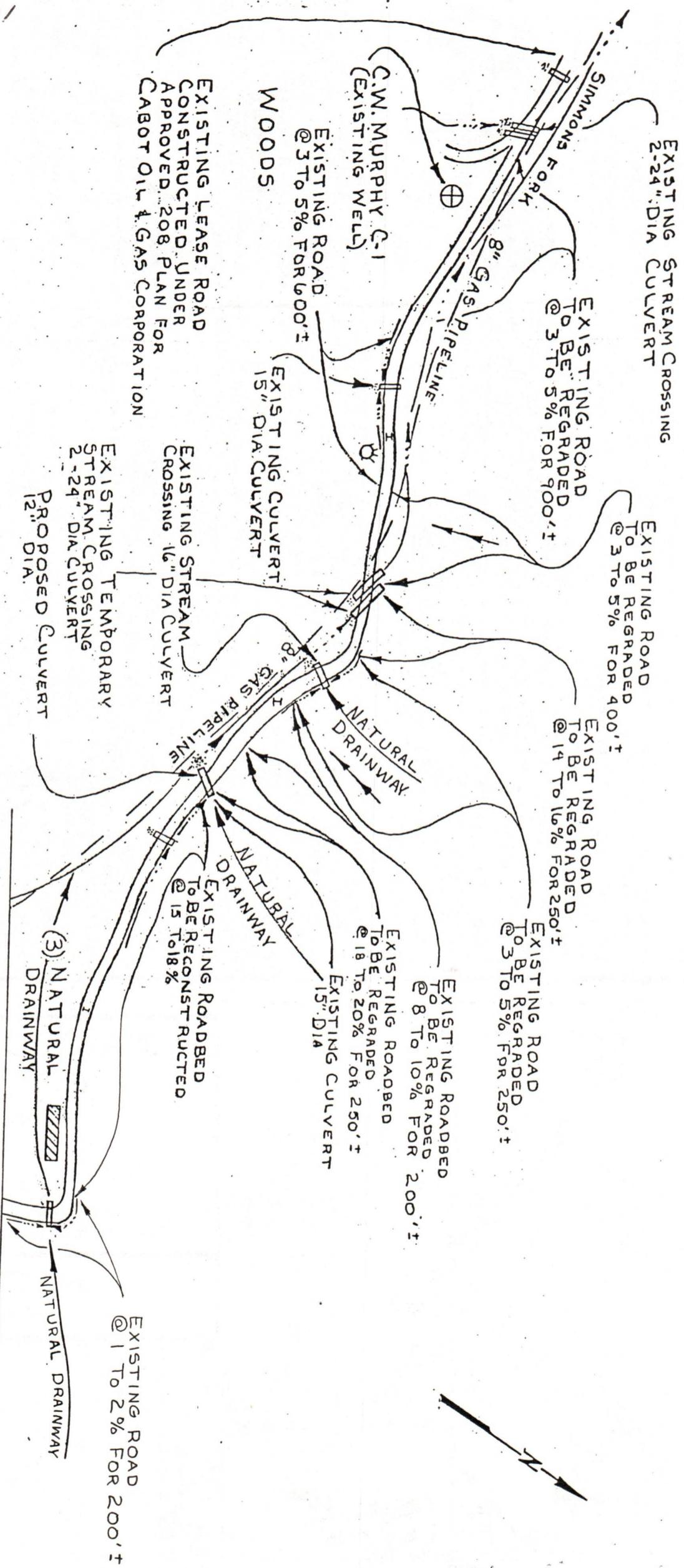
Ditch Relief Cross Drains to be installed as an integral part of the reclamation process and shall be spaced in accordance with Table I on page 2-4 of the erosion and sediment control manual and shall be based upon the as-built slopes of the final road configuration.

C.W. Murphy C-4

109-0952

CABOT OIL & GAS CORPORATION
OF WEST VIRGINIA
 C.W. Murphy, C-4
 Sheet #1

KOLB ENTERPRISES Ltd.
 CHARLESTON, W. VA.



MATCH LINE SHEET 2

AREA I = 7 ACRES ±
 AREA II = 1 ACRES ±

DEPT. OF MINES
 OIL & GAS DIVISION

5861 20 YW
 MAY 30 1961

1) Date: January 9, 1985
2) Operator's Well No. C.W. Murphy C-4
3) API Well No. 47-109-0952
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 Simmons Fork Land Co.
Address Attn: Alexander Smith, President
P.O. Box 356
(ii) Name Peterstown, WV 24963
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR NOT OPERATED
Address _____
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Name Simmons Fork Land Co.
Address Attn: Alexander Smith, President
P.O. Box 356
Name Peterstown, WV 24963
Address _____
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

RECEIVED
P 591 456 961

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Simmons Fork Land Company Attn: Mr. Alexander Smith	
Street and No.	
P.O. Box 356	
P.O., State and ZIP Code	
Peterstown, WV 24963	
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	

Documents:
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6) EXTRACTION RIGHTS
Check and provide one of the following:
 Included in 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 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 9 day of January, 1985. My commission expires March 5, 1989.

WELL OPERATOR CABOT OIL & GAS CORP. OF WV
By David G. McCluskey
Its District Drilling Superintendent
Address P.O. Box 628
Charleston, WV 25322
Telephone (304) 347-1600



RECEIVED
JAN 10 1985
OIL & GAS DIV.
DEPT. OF MINES

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

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 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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
C.W. Murphy, et al	Godfrey L. Cabot (COGC of WV)	12.5%	101	408

CURRENT ROYALTY OWNER

Simmons Fork Land Co.



1) Date: January 9, 19 85
 2) Operator's Well No. C.W. Murphy C-5
 3) API Well No. 47
 State _____ County _____ Permit _____

JAN 11 1985

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 _____ / Shallow X)
- 5) LOCATION: Elevation: 2024.7' / Watershed: Simmons Fork of Clear Creek
 District: Oceana / County: Wyoming / Quadrangle: Matheny 7 1/2
- 6) WELL OPERATOR Cabot Oil & Gas Corp. of WV
 Address P.O. Box 628
Charleston, WV 25322
- 7) DESIGNATED AGENT David G. McCluskey
 Address P.O. Box 628
Charleston, WV 25322
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Arthur St. Clair
 Address P.O. Box 468
Brenton, WV 24818 732-6227
- 9) DRILLING CONTRACTOR:
 Name UNKNOWN
 Address _____
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Navencloiff, Big Lime, Weir
 12) Estimated depth of completed well, 3685 feet
 13) Approximate strata depths: Fresh, 120, 495 feet; salt, 1550 feet.
 14) Approximate coal seam depths: 518 and 1004 Is coal being mined in the area? Yes _____ / No X

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 DEPT. OF MINES
 OIL & GAS DIV.
 JAN 11 1985

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	16"		65	X		30'	30'	10 sks. Neat	Kinds
Fresh water									
Coal	8-5/8"		24	X		2030'	2030'	525 sks. Neat	Sizes
Intermediate									
Production	4-1/2"		10.5	X		3685'	3685'	350 sks. or	Depths set
Tubing								as req. by	date 15.01
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: Simmons Fork Land Company
 By Alexander M. Smith
 Its President Date 1/10/85

(For execution by natural persons)
 _____ Date: _____
 (Signature)
 _____ Date: _____
 (Signature)



1) Date: January 9, 19 85
 2) Operator's Well No. C.W. Murphy C-5
 3) API Well No. 47
 State _____ County _____ Permit _____

JAN 11 1985

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

- 4) WELL TYPE: A Oil _____ / Gas X /
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- 5) LOCATION: Elevation: 2024.7' / Watershed: Simmons Fork of Clear Creek
 District: Oceana / County: Wyoming / Quadrangle: Matheny 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 Arthur St. Clair / Name UNKNOWN
 Address P.O. Box 468 / Address _____
Brenton, WV 24818 732-6227
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
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- 12) Estimated depth of completed well, 3635 feet
- 13) Approximate trata depths: Fresh, 120, 495 feet; salt, 1550 feet.
- 14) Approximate coal seam depths: 516 and 1084 Is coal being mined in the area? Yes _____ / No X

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 OIL & GAS DIV.
 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	Left in well		
Conductor	16"		65	X		30'	30'	10 sks. Neat	Kinds
Fresh water									
Coal	3-5/8"		24	X		2030'	2030'	525 sks. Neat	Sizes
Intermediate									
Production	4-1/2"		10.5	X		3685'	3685'	350 sks. or	Depths set
Tubing								as req. by	Rate 15.0'
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.

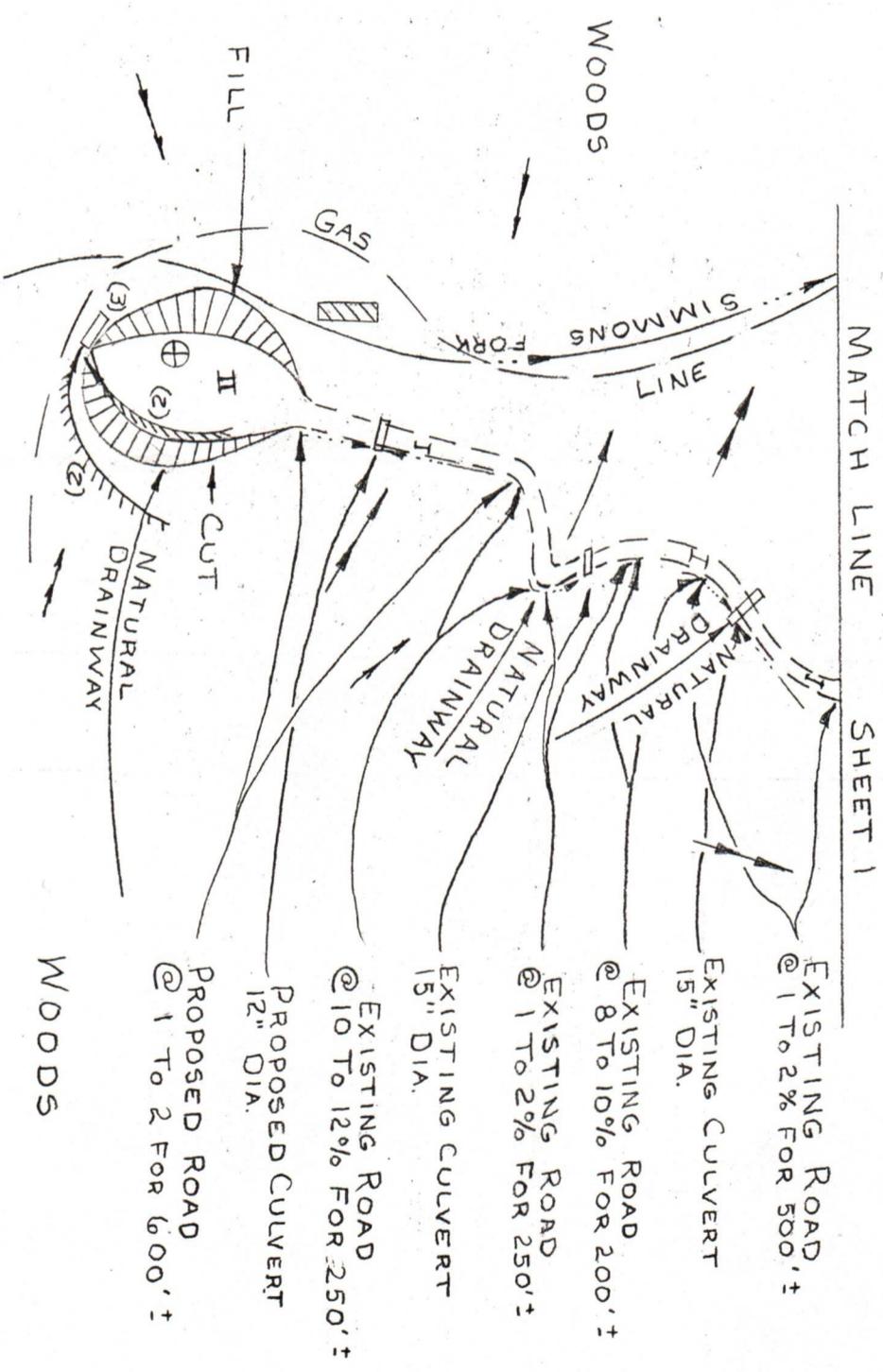
Date: January 10, 19 85

By Simmons Fork Land Company
Alexander M. Smith
 Its President

CABOT OIL & GAS CORPORATION
OF WEST VIRGINIA

C.W. Murphy C-4
 Sheet 2

KOLB ENTERPRISES Ltd.
 CHARLESTON, W. VA.



Colbert

P 591 457 152

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1983-403-517

Sent to Simmons Fork Land Co. Attn: Mr. Alexander Smith	
Street and No. P.O. Box 356	
P.O., State and ZIP Code Peterstown, WV 24963	
Postage	\$
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	70
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date MAY 1 1985	

PS Form 3800, Feb. 1982

Murphy C-4 & O-S

P 591 457 152

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

★ U.S.G.P.O. 1983-403-517

Sent to Simmons Fork Land Co. Attn: Mr. Alexander Smith	
Street and No. P.O. Box 356	
P.O., State and ZIP Code Peterstown, WV 24963	
Postage	\$
Certified Fee	75
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	70
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date MAY 1 1985	

PS Form 3800, Feb. 1982

Murphy C-4 & O-S

OIL & GAS DIVISION
DEPT. OF MINES

MAY 03 1985

OIL & GAS DIVISION
DEPT. OF MINES

MAY 03 1985

C.W. Murphy - C-4
Wyo
109-0952

109-952

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

Perf Weir from 3628-3636' (12 holes). Dump 250 gal 15% HCL & breakdown perfs @ 1400 psi w/N₂. ISIP after breakdown 1250 psi. Treated w/50,000# 20/40 sand. Max concentration 1.5#/gal. AIR 6.5 BPM, N₂ 18,500 Scf/min. ATP 2000 psi. Max 2100 psi. T/F 186 bbls. S/I 174 bbls. Total N₂ 586,000 Scf. ISIP 1750 psi, 15 min 1350 psi. R/U McCullough to perf Big Lime. Perf Big Lime from 3138-3374' (11 holes). Pump 500 gal 15% HCL. Breakdown 950 psi. ISIP after breakdown 1100 psi. Treated w/5000 gals gelled acid @ 6 BPM & 5000 gals gelled acid @ 2 BPM w/1000 Scf/min N₂ assist. Total N₂ 120,000 Scf. AIR 4 BPM. ATP 1100 psi. ISIP 1600 psi, 5 min 1500 psi, 10 min 1425 psi, 15 min, 1350 psi. Perf Ravencliff 2176-2210' (12 holes). Set arrow drill pkr. @ 2250'. Dumped 250 gal 15% HCL. Breakdown pressure 1900 psi. ISIP after break 1900 psi. Treated with 75 Q foam & 70,000# 20/40 sand. Max concentration 2#/gal. AIR 5.5 BPM, 8,065 Scf/min. ATP 2800 psi, max TP 2950 psi. T/F 329 bbls, SLF 252 bbls. ISIP 2400 psi, 5 min 2350 psi, 10 min 2200 psi, 15 min 2100 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
Sand			0	45	H ₂ O @ 30' 1/2" stream
Shale			45	138	Coal 44-48', 69-70', 115-119',
Sand			138	185	250-255'. H ₂ O @ 235' 1/2" stream
Shaley Sand			185	265	
Sand			265	320	
Shale			320	355	
Sand			355	370	
Shaley Sand			370	435	
Shale			435	480	
Sand			480	560	
Shale			560	620	
Shaley Sand			620	720	
Sand			720	765	
Shale			765	800	
Shaley Sand			800	975	
Sand			975	1050	
Shale			1050	1075	
Sand			1075	1260	
Shaley Sand			1260	1315	
Sand			1315	1370	
Sandy Shale			1370	1505	
Sand			1505	1540	
Sandy Shale			1540	1670	
Shaley Sand			1670	1990	
Shale			1990	2045	
Shaley Sand			2045	2095	
Shale	Dk. Grey	Medium	2095	2190	Gas ck. @ 2071': no show
Ravencliff Sand	White	Hard	2170	2212	
Avis Limestone	Grey/red	Hard	2212	2250	
Sandy Shale	Red/grey	Soft	2250	2805	Gas ck. @ 2254': 267 M
Limestone	Grey	Hard	2805	2825	Gas ck. @ 2816': 304 M
Shaley Sand (Maxton)	Grey	Medium	2825	2875	
Shale	Grey	Soft	2875	2915	
Little Lime	Grey	Hard	2915	3085	
Shale	Grey	Soft	3085	3100	Gas ck. @ 3067': 292 M
Big Lime	White/Tan	Hard	3100	3430	Gas ck. @ 3224': 298 M
Shale	Red	Soft	3430	3510	Gas ck. @ 3319': 340 M
Shale	Grey	Soft	3510	3625	Gas ck. @ 3539': 377 M
Weir Sand	Grey	Medium	3625	3650	
Shale	Grey	Soft	3650	T.D.	Gas ck. @ TD 462 M

(Attach separate sheets as necessary)

DTD 3725'
LTD 3744'

Note: All formation tops measured from K.B. (10' above permanent datum)

CABOT OIL & GAS CORPORATION OF WEST VIRGINIA

Well Operator

By: David H. McKinley

Date: May 15, 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
APR 1 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Wyo-109 - 0952
Permit No.

Oil or Gas Well Gas
(KIND)

Company Cabot Oil & Gas Wyo
 Address Charleston, W.V.
 Farm C.W. Murphy
 Well No. #4
 District Ocean County Wyoming
 Drilling commenced 3-26-85
 Drilling completed @ Total depth 915'
 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 235 1/2 feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16	- 49'		Kind of Packer
13			
10			Size of
8 1/4			
6 5/8			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 115 FEET 60" INCHES
490' FEET 60 INCHES FEET INCHES
 FEET INCHES FEET INCHES

Drillers' Names Century Dy - Rig #2

Remarks: Soap in Creek below pit think possibility coming from Dry hole well pull 16" hole & Acorn to 285' Run 1 1/4" & Cement to Surface.
3-28-85
 DATE

William C. S. F. (509)
 DISTRICT WELL INSPECTOR

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

RECEIVED
APR 2 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Wyo. 109-0952
Permit No.

Fresh Water Csg.

Oil or Gas Well Gas
(KIND)

Company Cabot Oil & Gas of W.V.
 Address Charleston, W.V.
 Farm C.W. Murphy
 Well No. #4
 District Oceana County Wyoming
 Drilling commenced 3-27-85
 Drilling completed @ Total depth 915' Jan
 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 235' feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16	49' C.T.S.		Kind of Packer
13			
10 11"	285' C.T.S.		Size of
8 1/4			
6 3/8			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 115 FEET 60 INCHES
490 FEET 60' INCHES FEET INCHES
 FEET INCHES FEET INCHES

Drillers' Names Century Dig Co Rig #2

Remarks: used 50 bag class A. Cement 5 3/8 C.T.S. 1/4" oil flake
problems. Down stream coming from
fresh water horizon at 235. Soap in back.
trying to seal off water 5 Soap
Run 285' of 11" in Roundwell hole.
3-29-85. Cmt. plug down 8: P.M. Rig will be down 8 M. W.P.C.
procedure good!
Arthur C. St. Clair

DATE

DISTRICT WELL INSPECTOR

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

RECEIVED

APR 3 - 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Wyo. 109-0952
Permit No.

Status - Progress

Oil or Gas Well (KIND) Gas

Company Cobot Oil & Gas
 Address Charleston, W.V.
 Farm C.W. Murphy
 Well No. ~~C-4~~ C-4
 District Oceana County Wayne
 Drilling commenced 3-27-85
 Drilling ~~completed~~ @ Total depth 1922'
 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 235' feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16	<u>49' - CTS</u>		Kind of Packer _____
13			
10	<u>11 3/4" - 285' CTS</u>		Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3	<u>and salt</u>		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 470 FEET 60 INCHES
1065 FEET 36" INCHES 115 FEET 60 INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Century Dry Co. Rig #2

Remarks: Dry at 1922 - this hole casing point at 2060' of 8 5/8" esg - pit holding. Some foam (soap in creek) but is clearing up. Should run 8 5/8" this pm.
4-1-85

DATE

Arthur C. St. Clair
DISTRICT WELL INSPECTOR

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

RECEIVED

APR 3 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Oil or Gas Well (KIND)

Gas

Permit No.

Wyo-109-0952

Cool & Water eq

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<i>Cobot Oil & Gas</i>	Size			
<i>Charleston, W.V.</i>	16	<i>49'</i>	<i>CTS</i>	Kind of Packer
<i>C.W. Murphy</i>	13			
<i>C-4</i>	10	<i>1 1/4</i>	<i>285 CTS</i>	Size of
<i>Oceanus</i> County <i>WYO</i>	8 1/4	<i>8 7/8</i>	<i>2045 CTS</i>	
<i>3-22-85</i>	6 3/8			Depth set
<i>@</i> Total depth	5 3/16			
Date shot	3			Perf. top
Depth of shot	2			Perf. bottom
Initial open flow	Liners Used			Perf. top
/10ths Water in				Perf. bottom
Open flow after tubing				
/10ths Merc. in				
Volume	CASING CEMENTED	<i>8 7/8</i>	SIZE <i>2045'</i>	No. FT. <i>4-1-85</i> <i>4-2-85</i> Date
Rock pressure	NAME OF SERVICE COMPANY		<i>Halibuton</i>	
Oil	COAL WAS ENCOUNTERED AT	<i>115'</i>	<i>60"</i>	INCHES
bbls., 1st 24 hrs.	<i>410'</i>	<i>60</i>	<i>1065'</i>	<i>36"</i> INCHES
Fresh water				
<i>235</i> feet				
Salt water				
feet				

Drillers' Names

Century Drilling Co. #2

Remarks:

used 3 centralizers - guide shoe & insert, and 3 cement Baskets. used 510 50# neat Cement. 3 1/2 CaCl₂ - 4# Cel flake.

Sax. Broke circulation with 145 BBL gel. plug down at. 1200 A.M. this date

4-2-85

DATE

Rig Down 8 hrs W.O.C.

Arthur C. St. Clair (509)

DISTRICT WELL INSPECTOR

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

RECEIVED
APR 10 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Wyo. 109-0952
Permit No.

Completion Drilling

Oil or Gas Well Gas
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>Cabot O & S. of WV.</u>	Size			
<u>Charleston, W. V.</u>	16	<u>39' CTS</u>		Kind of Packer
<u>C.W. Murphy</u>	13			
<u># C 4</u>	10	<u>11" 285 emts</u>		Size of
<u>Oceana</u> County <u>Wyoming</u>	<u>8 3/4"</u>	<u>2045 CTS</u>		
<u>4-26-85</u>	6 3/8"			Depth set
<u>3750</u>	<u>5 3/16"</u>			
<u>Boea</u>	3"			Perf. top
	2"			Perf. bottom
	Liners Used			Perf. top
				Perf. bottom
	CASING CEMENTED <u>8 5/8"</u> SIZE <u>2045</u> No. FT. _____ Date _____			
	NAME OF SERVICE COMPANY <u>Salibuton</u>			
	COAL WAS ENCOUNTERED AT <u>235'</u> FEET <u>60"</u> INCHES			
	<u>490'</u> FEET <u>60"</u> INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Century Dry Co. Rig #2

Remarks:
Over Road & on location this site found Rig stacked out. Will probably to C-6- wyo-0955 this P.M. Dozer working Road. no completion 4-8-85 Records available @ this time

John C. Hillen (509)
DISTRICT WELL INSPECTOR

DATE

Cobot. Notified

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

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JUN 26 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

WYO-109-8952

Permit No.

Final Refused

Oil or Gas Well (KIND)

Gas

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<i>Cobot oil & Gas</i>	Size			
<i>Charleston, WV.</i>	16			Kind of Packer
<i>Murphy C-4</i>	13			
<i>C-4</i>	10			Size of
<i>Oceana County WYO</i>	8 1/4			
<i>5-27-85</i>	6 3/8			Depth set
<i>3270' Well</i>	5 3/16			
<i>2</i>				Perf. top
				Perf. bottom
				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 *Century Drilling Co. Rig # 2*

Remarks: *Final Refuse*

no work commenced on Reclamation Road & Sedimentation in bad conditions will notify Cobot. Hopefully they 6-21-85 will take care of this

DATE

John C. St. John
DISTRICT WELL INSPECTOR

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47- 109 - 0952																			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	N/A Category Code																		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	3744 feet																			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Cabot Oil & Gas Corporation of W.Va. Name		000728 Seller Code																	
	P. O. Box 628 Street																			
	Charleston	WV	25322																	
	City	State	Zip Code																	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Oceana Field Name																			
	Wyoming County	WV State																		
(b) For OCS wells:	N/A 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.)	C. W. Murphy C-4																			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A																			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Tennessee Gas Pipeline Co. Name		018629 Buyer Code																	
(b) Date of the contract:	1 0 0 2 8 0 Mo. Day Yr.																			
(c) Estimated annual production:	50 MMcf.																			
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)																
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	---	---	---	---																
9.0 Person responsible for this application:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%; text-align: center;">Agency Use Only</td> <td colspan="3" rowspan="3" style="vertical-align: top;"> H. Baird Whitehead Name Signature May 21, 1985 Date Application is Completed </td> </tr> <tr> <td style="text-align: center;">Date Received by Juris. Agency</td> <td colspan="3" style="vertical-align: top;"> Regional Manager Drilling & Production Title </td> </tr> <tr> <td style="text-align: center;">MAY 21 1985</td> <td colspan="3" style="vertical-align: top;"> (304) 347-1600 Phone Number </td> </tr> <tr> <td style="text-align: center;">Date Received by FERC</td> <td colspan="3"></td> </tr> </table>				Agency Use Only	H. Baird Whitehead Name Signature May 21, 1985 Date Application is Completed			Date Received by Juris. Agency	Regional Manager Drilling & Production Title			MAY 21 1985	(304) 347-1600 Phone Number			Date Received by FERC			
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Date Received by Juris. Agency				Regional Manager Drilling & Production Title																
MAY 21 1985				(304) 347-1600 Phone Number																
Date Received by FERC																				

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: May 21, 19 85

9150

AGENCY USE ONLY

Applicant's Name: Cabot Oil & Gas Corporation of WV

Address: P. O. Box 628
Charleston, WV 25322

Gas Purchaser Contract No. GSC151

Date of Contract 10/2/80
(Month, day and year)

First Purchaser: Tennessee Gas Pipeline Company

Address: P. O. Box 2511
(Street or P.O. Box)
Houston, TX 77001
(City) (State) (Zip Code)

FERC Seller Code 000728

WELL DETERMINATION FILE NUMBER
850521-1030-109-0952
Use Above File Number on all
Communications Relating to This Well

Designated Agent: H. Baird Whitehead

Address: P. O. Box 628
Charleston, WV 25322

FERC Buyer Code 018629

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

Name: Ed Hindman Regulatory Assistant
(Print) (Title)

Signature: Ed Hindman

Address: P. O. Box 628
(Street or P.O. Box)
Charleston WV 25322
(City) (State) (Zip Code)

Telephone: (304) 347-1600
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

Copy sent to Purchaser by Certified Mail P753 224 785 on May 21, 1985
NGPA Category 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

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

- 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

AGENCY USE ONLY

QUALIFIED

RECEIVED

MAY 21 1985

OIL & GAS DIV.
DEPT. OF MINES

Date Received

Determination Date

FERC-121

<p>1.0 API well number: (If not available, leave blank. 14 digits.)</p>	<p>47-109 - 0952</p>						
<p>2.0 Type of determination being sought: (Use the codes found on the front of this form.)</p>	<p>107TS Section of NGPA</p>	<p>Weir Big Lime Ravencliff</p>	<p>6 Category Code</p>				
<p>3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)</p>	<p>_____ feet</p>						
<p>4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)</p>	<p>Cabot Oil & Gas Corporation of W.Va. Name</p>		<p>000728 Seller Code</p>				
	<p>P. O. Box 628 Street</p>						
	<p>Charleston City</p>		<p>WV State</p>	<p>25322 Zip Code</p>			
<p>5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)</p>	<p>Oceana Field Name</p>						
	<p>Wyoming County</p>		<p>WV State</p>				
<p>(b) For OCS wells:</p>	<p>N/A</p>						
	<p>Area Name</p>		<p>Block Number</p>				
	<p>Date of Lease:</p>						
	<p>Mo. Day Yr.</p>		<p>OCS Lease Number</p>				
<p>(c) Name and identification number of this well: (35 letters and digits maximum.)</p>	<p>C. W. Murphy C-4</p>						
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)</p>	<p>N/A</p>						
<p>6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)</p>	<p>Tennessee Gas Pipeline Co. Name</p>		<p>018629 Buyer Code</p>				
<p>(b) Date of the contract:</p>	<p>1, 0, 0, 2, 8, 0 Mo. Day Yr.</p>						
<p>(c) Estimated annual production:</p>	<p>50 MMcf.</p>						
<p>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</p>	<p>(a) Base Price (\$/MMBTU)</p>	<p>(b) Tax</p>	<p>(c) All Other Prices [Indicate (+) or (-).]</p>	<p>(d) Total of (a), (b) and (c)</p>			
	<p>-----</p>	<p>-----</p>	<p>-----</p>	<p>-----</p>			
<p>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</p>	<p>-----</p>	<p>-----</p>	<p>-----</p>	<p>-----</p>			
<p>9.0 Person responsible for this application:</p>	<p>H. Baird Whitehead Name</p>						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"> <p>Agency Use Only</p> </td> </tr> <tr> <td style="text-align: center;"> <p>Date Received by Juris. Agency</p> <p>MAY 21 1985</p> </td> </tr> <tr> <td style="text-align: center;"> <p>Date Received by FERC</p> </td> </tr> </table>	<p>Agency Use Only</p>	<p>Date Received by Juris. Agency</p> <p>MAY 21 1985</p>	<p>Date Received by FERC</p>	<p>Regional Manager Drilling & Production Title</p>			
<p>Agency Use Only</p>							
<p>Date Received by Juris. Agency</p> <p>MAY 21 1985</p>							
<p>Date Received by FERC</p>							
	<p>Signature</p>						
	<p>May 21, 1985</p>						
	<p>Date Application is Completed</p>		<p>(304) 347-1600 Phone Number</p>				

JUN 14 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: May 21, 19 85

8150

AGENCY USE ONLY

TF

Applicant's Name: Cabot Oil & Gas Corporation of WV

Address: P. O. Box 628
Charleston, WV 25322

Gas Purchaser Contract No. GSC151

Date of Contract 10/2/80
(Month, day and year)

First Purchaser: Tennessee Gas Pipeline Company

Address: P. O. Box 2511
(Street or P.O. Box)
Houston, TX 77001
(City) (State) (Zip Code)

FERC Seller Code 000728

WELL DETERMINATION FILE NUMBER
850521 -1076-109-0952
Use Above File Number on all
Communications Relating to This Well

Designated Agent: H. Baird Whitehead

Address: P. O. Box 628
Charleston, WV 25322

FERC Buyer Code 018629

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

Name: Ed Hindman Regulatory Assistant
(Print) (Title)

Signature: Ed Hindman

Address: P. O. Box 628
(Street or P.O. Box)
Charleston WV 25322
(City) (State) (Zip Code)

Telephone: (304) 347-1600
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

Copy sent to Purchaser by Certified Mail P753 224 785 on May 21, 1985
NGPA Category 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

108 Stripper Well Natural Gas

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

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
- 107-3 Devonian Shale
- 107-5 Production enhancement
- X 107-6 New Tight Formation (Weir, BigLime, Berea)
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

Q
QUALIFIED

RECEIVED

MAY 21 1985

OIL & GAS DIV.
DEPT. OF MINES

Date Received

Determination Date

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

Date May 21, 19 85

Operator's Well No. C. W. Murphy C-4

API Well No. 47 - 109 - 0952
State County Permit

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - NEW TIGHT FORMATION
NGPA Section 107

DESIGNATED AGENT H. Baird Whitehead
ADDRESS P. O. Box 628
Charleston, WV 25322

WELL OPERATOR Cabot Oil and Gas Corp. of W. Va. LOCATION Elevation 2012'
ADDRESS P. O. Box 628 Watershed Simmons Fork of Clear Creek
Charleston, WV 25322 Dist. Oceana County Wyoming Quad Matheny 7-1

GAS PURCHASER Tennessee Gas Pipeline Co. Gas Purchase Contract No. GSC151
ADDRESS P. O. Box 2511 Meter Chart Code N/A
Houston, TX 77001 Date of Contract 10/2/80

* * * * *

Date surface drilling began: 3/26/85

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

BHP = $P_1 + P_1(eGL/53.34T_1)$ $P_1 = \frac{RVCL/W\&BL}{436/680}$ PSIA BHP = $\frac{RVCL/W\&BL}{454/739}$ PSIA
T = 82/94
G = 0.64
L = 2193/3387

AFFIDAVIT

I, Paul L. Gebhard, 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 July 16, 1979, the gas is being produced from a designated tight formation 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.

Paul L. Gebhard

STATE OF WEST VIRGINIA.

COUNTY OF Kanawha TO WIT:

I, Lorene Miller, a Notary Public in and for the state and county aforesaid, do certify that Paul L. Gebhard, whose name is signed to the writing above, bearing date the 21st day of May, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 21st day of May, 1985.
My term of office expires on the 5th day of March, 1989.

Lorene Miller
Notary Public

[NOTARIAL SEAL]

IR-21

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

REC'D - MINS.
20 SEP 8 11 43

WYO-109-0955 #5
INSPECTOR'S WELL REPORT

WYO-109-0952 #4
Permit No.

Final Refused

Oil or Gas Well (KIND) Oil

		CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Company	<u>Cabot Oil & Gas W.V.</u>	Size			
Address	<u>Chickston, W.V.</u>	16			Kind of Packer
Farm	<u>Murphy</u>	13			
Well No.	<u>C-45 C-5</u>	10			Size of
District	<u>Oceana</u> County <u>Wyoming</u>	6 3/8			Depth set
Drilling commenced		5 3/16			
Drilling completed	Total depth	3			Perf. top
Date shot	Depth of shot	2			Perf. bottom
Initial open flow	/10ths Water in Inch	Liners Used			Perf. top
Open flow after tubing	/10ths Merc. in Inch				Perf. bottom
Volume	Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Rock pressure	lbs. hrs.	NAME OF SERVICE COMPANY _____			
Oil	bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Fresh water	feet feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Salt water	feet feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Dale Bros. - Reclamation

Remarks:

cannot pass this Road or location.
grass has not ~~yet~~ started to grow.
will expect a late date

9-18-85
DATE

Dale C. St. John
DISTRICT WELL INSPECTOR

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE Gas (shallow)
ELEVATION 2024
DISTRICT OCEANA
QUADRANGLE OCEANA
COUNTY Wyo

API# 47-109-0952 (1-11-85)
OPERATOR Cabot OIL & GAS
TELEPHONE _____
FARM C.W. Murphy
WELL # C-4

SURFACE OWNER Simmons For K Land COMMENTS _____ TELEPHONE _____
TARGET FORMATION Weir DATE APPLICATION RECEIVED _____

DATE STARTED _____
LOCATION 1-18-85 NOTIFIED DRILLING COMMENCED 2-26-85

WATER DEPTHS 49', 235', 135', _____
COAL DEPTHS 540', 1070', 115'-660', 490-601

Ran 30' feet of 3-26-85 CASING 16" "pipe on C+S with C+S fill up
Ran 2045' feet of 8 3/4" "pipe on 4-2-85 with C+S fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran 3710 feet of 4 1/2" "pipe on _____ with _____ fill up
TD 3710 feet on _____

PLUGGING

MAY 5 1986

Type	From	To	Pipe Removed

Pit Discharge date: _____ Type KoLB
Field analysis ph _____ fe _____ cl _____
Well Record received _____

Date Released 5-1-86

[Signature]
Inspector's signature

API# 47-109-0952

LIST ALL VISITS FOR THIS PERMIT

Century Reg #2

	DATE	TIME	PURPOSE	COMMENTS
1	1-18-85		Dale Bro Commence	Coast
2	3-11-85		Dale Bro work	Access Road
3	3-26-85		Century comm	ing
4	3-28-85		Down waiting	on Reamer
5	4-2-85		Run 2045	of 878 cog (Halibutson) CTS
6				
7	4-8-85		pts	Leaking under violation
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

M. SPENCE
C.C. SPENCE
R. BLACKBURN
B.T. HOLLOWAY
G.D. & M.H. MITCHEM
B. & M. ACORD
W.J. & L. MATENY
H. & V. SIZEMORE
H. SIZEMORE

EASTERN GAS & FUEL ASSOC.

POCAHONTAS LAND CORP

CONSOLIDATED GAS
TRANSMISSION CORP

BROWN, ALVIN, PROFIT
ALVALINE

M.G. & R.W. WEST

TONEY FORK

NORFOLK & WESTERN R.R.

G.C. HEDRICK

WD. LAFFERTY
& H.L. KELSEL

SIMMONS FORK
LAND COMPANY
1104.69 AC.
D.B. 344 PG. 975
T.M. 135 T.P. 29

LUGER
LUMBER
CO.

85
CLEAR AND
NORFOLK

SIMMONS
FORK

214P
921

C.W. MURPHY C-4
REV.

CARRIBEAN VENTURES
GROUP INC.

D. CAMP

POCAHONTAS LAND CORP

G.L. & L.B. CHAMBERS

INDEPENDENT
BAPTIST CHURCH

V.E. WALKER

T.H. & E.K.
STEWART

WATER OAK

- (F) CHESTNUT OAK (FND)
- (E) STAKE
- (D) HICKORY
- (C) BLACK WALNUT
- (B) HICKORY BY ROCKS ON KNOB (FND)
- (A) STAKE

N39°27'08"E
3016.05'
N56°51'10"E
2651.48'

REFERENCES C.W. MURPHY C-4 REV.

REF "B" 14" HICKORY S76°10'W 135.81'
REF "A" 10" POPLAR S50°18'E 146.34'

DEED CALLS
A-S31°33'W 209.6'
B-S25°33'E 364.6'
C-S 4°27'W 151.4'
D-S36°03'E 152.4'
E-S28°03'E 257.4'
F-S2° 03'W 122'

NOTE:
NO OTHER ADJOINERS SHOWN ON
TAX MAP WITHIN 2500' OF WELL.
SURVEY BEARINGS BASED ON
MAGNETIC OF SURVEY PERFORMED
3/27/85.
WELL WAS EXISTING WHEN SURVEYED.

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 2000'
MINIMUM DEGREE OF
ACCURACY 1:2500
PROVEN SOURCE OF
ELEVATION PLUGGED WELL NO.
214 ELEV. 1611'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES.
(SIGNED) Don K. Cunningham
R.P.E. _____ L.L.S. 701
KOLB ENTERPRISES LTD.

PLACE SEAL HERE

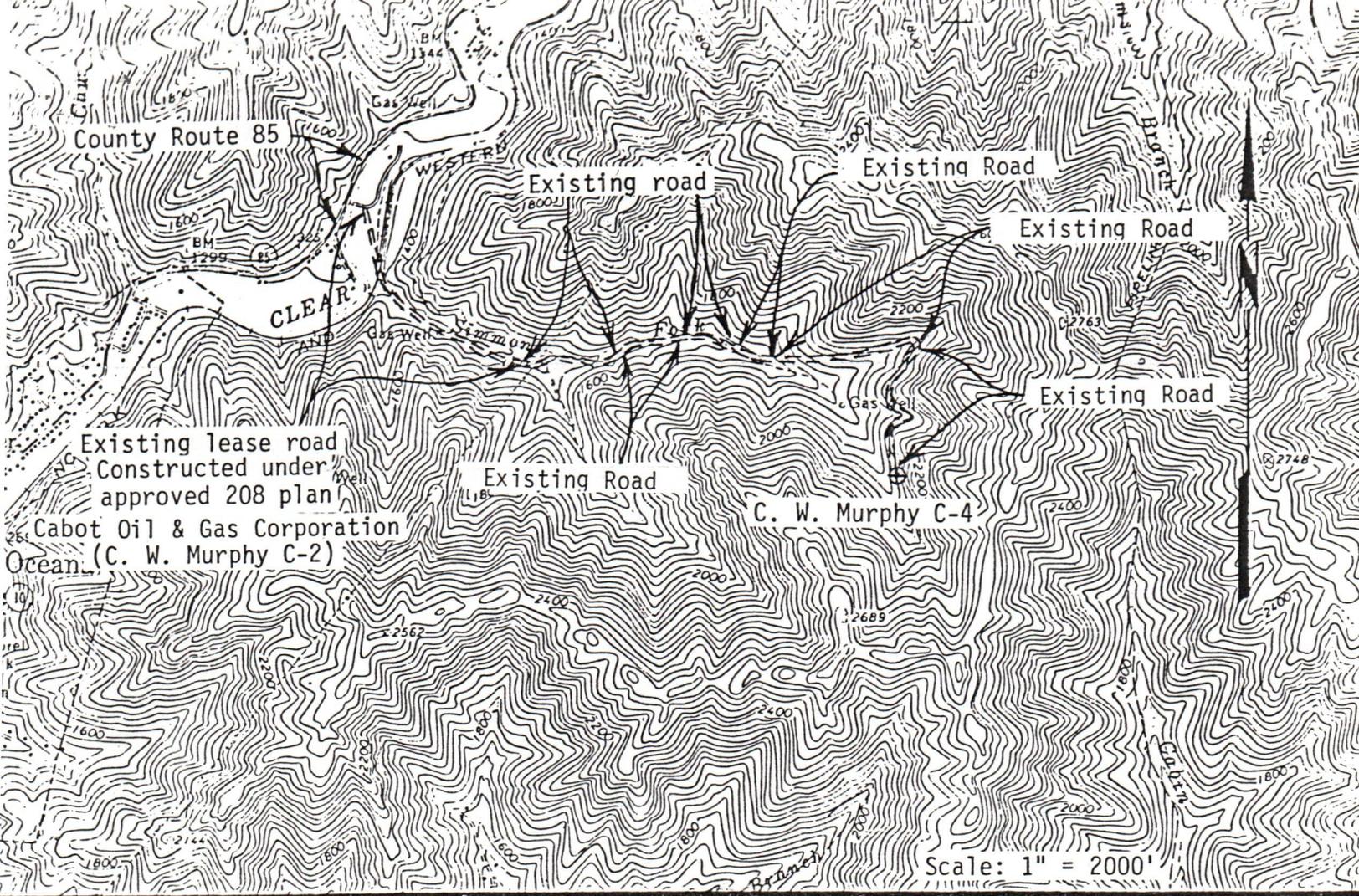
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE MARCH 27 19 85
OPERATOR'S WELL NO. C.W. MURPHY C-4
API WELL NO. REV.

47 - 109 - 0952 - Rev
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 2004.47' WATER SHED Simmons Fork of Clear Fork
DISTRICT Oceano COUNTY Wyoming
QUADRANGLE Matheny
SURFACE OWNER Simmons Fork Land Company ACREAGE 1104.69 ACS. ±
OIL & GAS ROYALTY OWNER SIMMONS FORK LAND Co. LEASE ACREAGE 1116 AC.
LEASE NO. 47-0471
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 WEIR ESTIMATED DEPTH 3710'
WELL OPERATOR Cobot Oil & Gas Corp. of W.V. DESIGNATED AGENT David G. McCluskey
ADDRESS P.O. Box 628 ADDRESS P.O. Box 628
Charleston, W.V. 25322 Charleston W.V. 25322



CABOT OIL & GAS CORPORATION OF WEST VIRGINIA

C. W. MURPHY C-4

QUADRANGLE: Matheny 7.5' *109-0952*
 COUNTY: Wyoming DISTRICT: Oceana
 scale: 1"-2000' contour interval: 40'

KOLB ENTERPRISES Ltd.
CHARLESTON, W. VA.

Scale: 1" = 2 miles

