

RECEIVED

MAR 25 1985



- 1) Date: March 21, 19 85
 2) Operator's Well No. Mead #1
 3) API Well No. 47 - 105 - 1173
 State County Permit

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

OIL & GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

DEPT. OF MINES

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production / Underground storage / Deep / Shallow X /)
 5) LOCATION: Elevation: 860' Watershed: Burning Springs of Little Kanawha River
 District: Burning Springs County: Wirt Quadrangle: Burning Springs
 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, West Virginia 25322 Charleston, West Virginia 25322
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Homer Dougherty Name UNKNOWN
 Address Linden Rt., Box 3-A Address
Looneyville, WV 25259 927-4591
 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, Brown Shale @ 3445'
 12) Estimated depth of completed well, 4500 feet
 13) Approximate trata depths: Fresh, 150 feet; salt, None feet.
 14) Approximate coal seam depths: None 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	9-5/8		36	X		350'	350'	110 sks. Neat	CTS
Coal									Sizes
Intermediate	7		20	X		1950'	1950'	300 sks. Neat	CTS
Production	4-1/2		10.5	X		4500'	4500'	125 sks. or	Depths set
Tubing								as req. by Rule 15.01	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-105-1173

April 11, 19 85
Date

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

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

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

Bond:	Agent:	Plat:	Casing	Fee
30	SW	MHJ	MHJ	16940

Margaret J. Dasse

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.

09/29/2023

File

1) Date: March 21, 1985
2) Operator's Well No. Mead #1
3) API Well No. 47-105-1173
State County Fe

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 Hollie P. Buffington
Address 3919 10th Avenue
Parkersburg, WV 26101

(ii) Name O.M. Belt
Address 910 Pike Street
Parkersburg, WV 26101

(iii) Name _____
Address _____

5(i) COAL OPERATOR NOT OPERATED
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Name Cabot Oil & Gas Corp. of WV
Address _____

Name _____
Address _____

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

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

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

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

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

6) EXTRACTION RIGHTS

Check and provide one of the following:

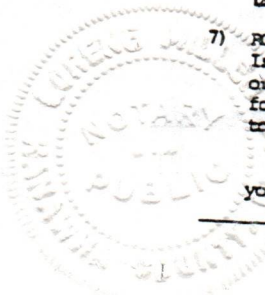
- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

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

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.



DEPT. OF MINES
OIL & GAS DIVISION

RECEIVED
MAR 25 1985

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 21 day of March, 1985.

My commission expires March 5, 1989.

Lorene Miller

Notary Public, Kanawha County, West Virginia

WELL

OPERATOR CABOT OIL & GAS CORPORATION OF WV

By David G. McCluskey
Its District Drilling Superintendent

Address P.O. Box 628

Charleston, WV 25322

Telephone (304) 347-1600 **09/29/2023**

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)

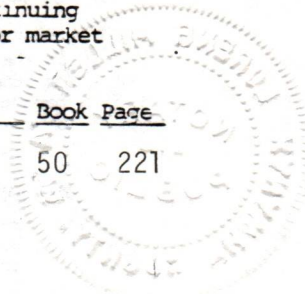
Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

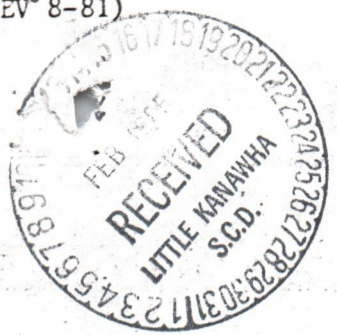
- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) 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>
W.O. Meade et ux	Godfey L. Cabot	1/8	50	221

(CURRENT ROYALTY OWNER)

Cabot Oil & Gas Corp. of WV





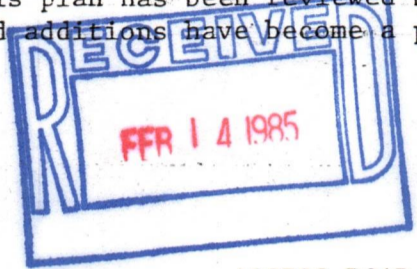
State of West Virginia
Department of Mines
Oil and Gas Division

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 Hollie P. Buffington & O.M. Belt SOIL CONS. DISTRICT Little Kanawha

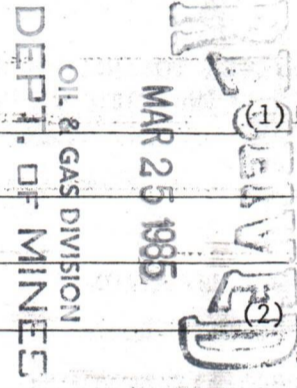
Revegetation to be carried out by Company Contractor (Agent)

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



2/13/85
(Date)
Randall L. Atkinson
(SCD Agent)

ACCESS ROAD	LOCATION
STRUCTURE <u>Ditch Relief Cross Drain (A)</u>	STRUCTURE <u>(1)</u>
SPACING <u>Per Plan</u>	MATERIAL <u></u>
PAGE REF. MANUAL <u>2-1, 2-2, 2-3, 2-4</u>	PAGE REF. MANUAL <u></u>
STRUCTURE <u>Culverts (B)</u>	STRUCTURE <u>Diversion (2)</u>
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 <u>(C)</u>	STRUCTURE <u>Sediment Barrier (3)</u>
SPACING <u></u>	MATERIAL <u>Straw Bales or Filter Fence</u>
PAGE REF. MANUAL <u></u>	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	Tons/acre	Lime	Tons/acre	Lime	Tons/acre
or correct to pH <u>6.5</u>		or correct to pH <u>6.5</u>		or correct to pH <u>6.5</u>	
Fertilizer <u>500</u>	lbs/acre	Fertilizer <u>500</u>	lbs/acre	Fertilizer <u>500</u>	lbs/acre
(10-20-20 or equivalent)		(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	Mulch <u>Hay or Straw @ 1 1/2</u>	Tons/acre
Seed* <u>Ky 31 Tall Fescue</u>	40 lbs/acre	Seed* <u>Ky 31 Tall Fescue</u>	40 lbs/acre	Seed* <u>Ky 31 Tall Fescue</u>	40 lbs/acre
<u>Redtop</u>	5 lbs/acre	<u>Redtop</u>	5 lbs/acre	<u>Redtop</u>	5 lbs/acre
	lbs/acre		lbs/acre		lbs/acre


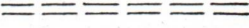
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X the recommended amount.

PLAN PREPARED BY David J. McCluskey 09/29/2023
Cabot Oil & Gas Corporation of WV
ADDRESS P.O. Box 628
Charleston, WV 25322
PHONE NO. (304) 347-1600

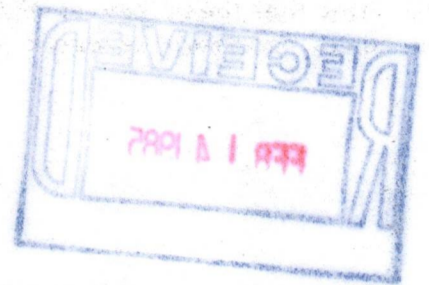
Note: Please request landowner cooperation to protect new seedlings for one growing season. Attach separate sheets as necessary for comments.

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

LEGEND

WELL SITE 
ACCESS ROAD 




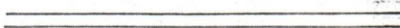

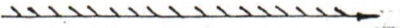

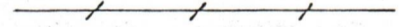










PHOTOCOPY ATTACHED



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: 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.

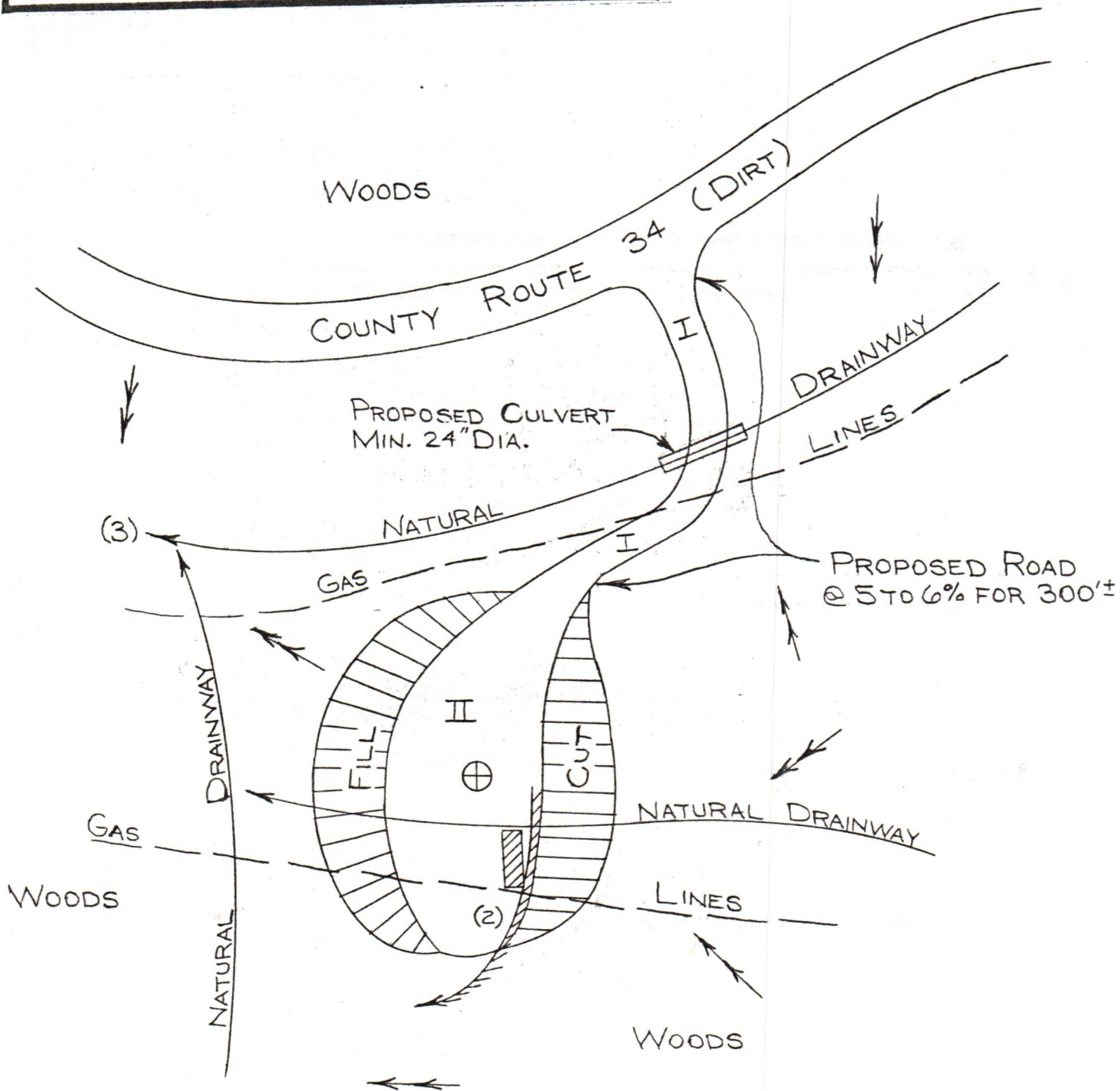
• Portions of existing/proposed roads which are located in "solid" rock shall not require ditches and/or cross drains, unless otherwise warranted by field conditions.

09/29/2023

CABOT OIL & GAS CORPORATION OF WEST VIRGINIA

MEAD #1

KOLB ENTERPRISES Ltd.
CHARLESTON, W. VA.



AREA I = 1/2 ACRE±
AREA II = 1 ACRE±

09/29/2023



09/29/2023

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

Perf shale 4104-4264' (20 holes). Breakdown w/250 gals 15% HCL @ 2050 psi. Injected 100 sks. 20/40 sand w/1,500,000 Scf N₂. AIR 80,000 Scf/min. ATP 2,630 psi. ISIP 1780 psi, 5 min 1740 psi, 10 min 1710² psi, 15 min 1680 psi. Perf from 2112-2519' (17 holes). Breakdown w/500 gals 15% HCL & 27,000 Scf N₂ @ 2760 psi. ISIP 1800 psi. Pumped 10,000 gals foam pad @ 40 BPM. Foam treated w/500 sks. 20/40 sand, 810,000 Scf N₂, 26,100 Scf/min. T/F 137 bbls. S/L 94 bbls. AIR 11.6 bbls. ATP 2675 psi, 14 min 1790 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 & Shale			0	716	
Salt Sand			716	744	
Shale			744	790	
Sand			790	817	
Shale			817	898	
Salt Sand			898	1048	
Sand & Shale			1048	1248	
Maxton			1248	1414	S/O
Shale			1414	1434	
Big Lime			1434	1608	
Injun			1608	1629	
Shale			1629	1644	
Squaw			1644	1648	
Shale			1648	2044	
Berea			2044	2050	
Devonian Sands & Shale			2050	3326	
Brown Shale			3326	4316	
Shale			4316	4343	
Benson			4343	4348	
Shale			4348	4357	
					T.D. 4357'

(Attach separate sheets as necessary)

Cabot Oil & Gas Corporation of West Virginia
Well Operator

By: David D. McCluskey 09/29/2023
Date: July 24, 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
JUN 4 - 1985
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1173

Oil or Gas Well _____
(KIND)

Company Cabot Oil & Gas Corp.
 Address Charleston, W. Va.
 Farm Cabot Oil & Gas
 Well No. mead #1
 District Burningspring County West
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks:
5-30-85 - Cabot called going to start construction
5-31-85 - looked up location, Roy Resources doing construction
& going to drill. crew cutting brush & timber, dozer
stacking timber.

5-31-85
DATE

Homer H. Dwyer
DISTRICT INSPECTOR
09/29/2023

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

RECEIVED
JUN 11 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 185-1173

Company <u>Cobot Oil + Gas Corp</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Charleston, W.Va.</u>	Size			
Farm <u>Cobot Oil + Gas</u>	16			Kind of Packer _____
Well No. <u>Mead #1</u>	13			
District <u>B. Springs</u> County <u>Mit</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: 6/4/85 Met with A. D. Mitchell of Cobot about construction on location. Crew had hit rock + had to blast to grade location. Cobot was concerned about digging pit as to Rec. plan on upper side of location, or cutting some more trees + digging off of end of location. Crew will try for building pit on location on upper side.

6/4/85
DATE

Homer H. Dougherty
DISTRICT WELL INSPECTOR

09/29/2025

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

RECEIVED
JUN 18 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 105-1173

Oil or Gas Well _____
(KIND)

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

Drillers' Names Robert Coleman - Pusker - Jerry Childers

Remarks: Ray Resources Rig #3
6-11-85 - Rig moving on location + rigging up
may start drilling late tonight.

6-11-85
DATE

Homes H. Doughty
09/29/2023
DISTRICT WELL INSPECTOR

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

RECEIVED

JUN 18 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 105-1173

Oil or Gas Well _____
(KIND)

Company Cabot Oil + Gas Corp.
 Address Chas, W. Va.
 Farm Cabot Oil + Gas
 Well No. Mead # 1
 District B Springs County St. Albans
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 3/4			
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names Robert Coleman Pusher - Jerry Childers

Ray Resources Rig #3

Remarks:
 6-13-85 - T.O. of 12 1/4" surface hole 385 ft. at 1 P.M. started to run 365' of 9 7/8" surface pipe, B.J. Hughes on location to cement with 125 sks. regular. 9 7/8" pipe would not go rig went back in to clean out hole + knock out bridge 6:30 P.M. started to run pipe again, pipe still would not go, pulled pipe back called for reamer from yard will start reaming 12 1/4" on 6-14-85.

6-13-85
DATE

Homer H. Doughty
 09/29/2023
 DISTRICT WELL INSPECTOR

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

RECEIVED

JUN 26 1985

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1173

Oil or Gas Well _____
(KIND)

Company <u>Cahot Oil + Gas Corp.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Chas, W. VA.</u>	Size			
Farm <u>Cahot Oil + Gas</u>	16			Kind of Packer _____
Well No. <u>Mead #1</u>	13			
District <u>B Springs</u> County <u>Shirt</u>	10 <u>9 7/8</u>		<u>365</u>	Size of _____
Drilling commenced <u>6-12-85</u>	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 1/4			
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 <u>9 7/8</u> SIZE <u>365</u> No. <u>FT6-14-85</u> Date			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY <u>B. J. Hughes</u>			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Robert Coleman Pusher Jerry Cheldea

Ray Bessner as Sig #3

Remarks:
6-14-85 - ran 365 ft. 9 7/8" surface pipe, cemented with 125 sks. neat 3% C.C. plug down 1:15 P.M. By B. J. Hughes.
6-16-85 - T.O. of 8 3/4" hole 1950'.
6-17-85 - Start on location logging well, will run 7" late in afternoon.

6-17-85
DATE

Homer H. [Signature]
09/29/2023
DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 26 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 105-1173

Oil or Gas Well _____
(KIND)

Company	Address	Farm	Well No.	District	County	Drilling commenced	Drilling completed	Date shot	Initial open flow	Open flow after tubing	Volume	Rock pressure	Oil	Fresh water	Salt water	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
																Size			Kind of Packer
<u>Cabot Oil & Gas Corp.</u>	<u>Chas, W. VA.</u>	<u>Cabot Oil & Gas</u>	<u>Mead #1</u>	<u>B Springs</u>	<u>Shel</u>	<u>6-12-85</u>			<u>10ths Water in</u> _____ <u>Inch</u>	<u>10ths Merc. in</u> _____ <u>Inch</u>	_____ <u>Cu. Ft.</u>	_____ <u>lbs.</u> _____ <u>hrs.</u>	_____ <u>bbls., 1st 24 hrs.</u>	_____ <u>feet</u> _____ <u>feet</u>	_____ <u>feet</u> _____ <u>feet</u>	<u>7"</u>		<u>1891'</u>	
							<u>Total depth</u> _____	<u>Depth of shot</u> _____								<u>16</u>			<u>Kind of Packer</u> _____
																<u>13</u>			
																<u>10</u>			<u>Size of</u> _____
																<u>8 1/4</u>			
																<u>6 5/8</u>			<u>Depth set</u> _____
																<u>5 3/16</u>			
																<u>3</u>			<u>Perf. top</u> _____
																<u>2</u>			<u>Perf. bottom</u> _____
																<u>Liners Used</u>			<u>Perf. top</u> _____
																			<u>Perf. bottom</u> _____

Drillers' Names Robert Coleman Pusker Jerry Childers

Remarks: Ray Resources Rig #3

6-17-85 - ran 1891 ft. of 7" pipe, cemented with 425 sks. Cement 3% CC. 14lb. alloflake plug down 7 P.M. by B.J. Hughes.

6-19-85 - 3447 dup drilling on air with 6 1/4" bit, dusting

6-19-85
DATE

James H. Dwyer
09/29/2023
DISTRICT WELL INSPECTOR

RECEIVED
AUG 28 1985

Date: August 14, 19 85
Operator's Well No. Mead #1
API Well No. 47 - 105 - 1173
State County Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Cabot Oil & Gas Corporation of WV DESIGNATED AGENT David G. McCluskey
Address P.O. Box 628 Address P.O. Box 628
Charleston, West Virginia 25322 Charleston, West Virginia 25322

GEOLOGICAL TARGET FORMATION: Brown Shale Depth 3326-4316 feet
Perforation Interval (4104-4264) (2112-2519) feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 51.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE <u>8/6/85</u>	TIME <u>12:00</u>	END OF TEST-DATE <u>8/7/85</u>	TIME <u>12:00</u>	DURATION OF TEST <u>24 hrs.</u>
TUBING PRESSURE <u>94</u>	CASING PRESSURE <u>159</u>	SEPARATOR PRESSURE <u>94</u>	SEPARATOR TEMPERATURE <u>60^o</u>	
OIL PRODUCTION DURING TEST <u>-0-</u> bbls.	GAS PRODUCTION DURING TEST <u>51</u> Mcf	WATER PRODUCTION DURING TEST & SALINITY <u>-0-</u> bbls. ppm.		
OIL GRAVITY	PRODUCING METHOD (Flowing, pumping, gas lift, etc.) <u>Flowing</u>			

GAS PRODUCTION		
MEASUREMENT METHOD: FLANGE TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input checked="" type="checkbox"/>	POSITIVE CHOKE CRITICAL FLOW PROVER <input type="checkbox"/>	
ORIFICE DIAMETER <u>2" x 3/8"</u>	PIPE DIAMETER (INSIDE DIAM.) <u>2"</u>	NOMINAL CHOKE SIZE - IN.
DIFFERENTIAL PRESSURE RANGE <u>250 psig</u>	MAX. STATIC PRESSURE RANGE <u>50"</u>	PROVER & ORIFICE DIAM. - IN.
DIFFERENTIAL <u>37" 8.5 Roots</u>	STATIC <u>94# 6.6 Roots</u>	GAS GRAVITY (Air-1.0) MEASURED ESTIMATED
GAS GRAVITY (Air-1.0) <u>.723</u>	FLOWING TEMPERATURE	GAS TEMPERATURE <u>60</u> °F
24 HOUR COEFFICIENT	24 HOUR COEFFICIENT	
		PRESSURE - psia

TEST RESULTS			
DAILY OIL <u>-0-</u> bbls.	DAILY WATER <u>-0-</u> bbls.	DAILY GAS <u>51</u> Mcf.	GAS-OIL RATIO <u>N.A.</u> SCF/BBL

CABOT OIL & GAS CORPORATION OF WV
Well Operator
By: [Signature]
Its: Regional Manager, Drilling & Production

* Some oil (2 BBL) produced during clean-up. Incorrectly measured due to a tilted tank. Since clean-up, well has not produced any oil.

09/29/2023

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

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

JAN 7 1986

INSPECTOR'S WELL REPORT

Permit No. 105-1173

94-11-85)

Oil or Gas Well _____
(KIND)

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

Drillers' Names _____

Remarks: 1-3-86. Inspected Reclamation - O.K. to release

1-3-86
DATE

Homer H. Dougherty
DISTRICT INSPECTOR

09/29/2023

P 591 457 036

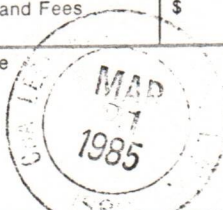
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

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

Sent to Mr. O.M. Belt	
Street and No. 910 Pike Street	
P.O., State and ZIP Code Parkersburg, WV 26101	
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	



P 591 457 037

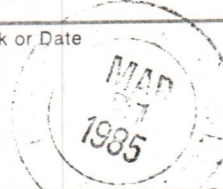
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

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

Sent to Ms. Hollie P. Buffington	
Street and No. 3919 10th Avenue	
P.O., State and ZIP Code Parkersburg, WV 26101	
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	



RECEIVED
 MAR 25 1985
 OIL & GAS DIVISION
 DEPT. OF MINES

FERC-121

<p>1.0 API well number: (If not available, leave blank. 14 digits.)</p>	<p><u>47- 105 - 1173</u></p>																							
<p>2.0 Type of determination being sought: (Use the codes found on the front of this form.)</p>	<p><u>103</u> Section of NGPA</p>		<p><u>N/A</u> 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><u>4357</u> 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><u>Cabot Oil & Gas Corporation of W.Va.</u> Name <u>P. O. Box 628</u> Street <u>Charleston</u> <u>WV</u> <u>25322</u> City State Zip Code</p>			<p><u>000728</u> Seller 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><u>Burning Spring</u> Field Name <u>Wirt</u> <u>WV</u> County State</p>																							
<p>(b) For OCS wells:</p>	<p><u>N/A</u> Area Name Block Number</p> <p style="text-align: center;">Date of Lease: <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> <td style="border-bottom: 1px solid black; width: 10px;"></td> </tr> <tr> <td style="text-align: center; font-size: 8px;">Mo.</td> <td style="text-align: center; font-size: 8px;">Day</td> <td style="text-align: center; font-size: 8px;">Yr.</td> <td colspan="7"></td> </tr> </table> </p> <p style="text-align: right;"><u> </u> OCS Lease Number</p>														Mo.	Day	Yr.							
Mo.	Day	Yr.																						
<p>(c) Name and identification number of this well: (35 letters and digits maximum.)</p>	<u>Mead #1</u>																							
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)</p>	<u>N/A</u>																							
<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><u>Tennessee Gas Pipeline Co.</u> Name</p>			<p><u>018629</u> Buyer Code</p>																				
<p>(b) Date of the contract:</p>	<p><u>1, 0, 0, 2, 8, 0</u> Mo. Day Yr.</p>																							
<p>(c) Estimated annual production:</p>	<p><u>35</u> MMcf.</p>																							
<p>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</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><u>H. Baird Whitehead</u> <u>Regional Manager</u> Name Title <u>Drilling & Production</u></p> <p style="text-align: center;"><i>H. Baird Whitehead</i> Signature</p> <p><u>July 25, 1985</u> Date Application is Completed</p> <p style="text-align: right;"><u>(304) 347-1600</u> Phone Number</p>																							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: 8px;">Agency Use Only</td> </tr> <tr> <td style="text-align: center;">Date Received by Juris. Agency</td> </tr> <tr> <td style="text-align: center; font-size: 16px; font-weight: bold;">JUL 25 1985</td> </tr> <tr> <td style="text-align: center;">Date Received by FERC</td> </tr> </table>	Agency Use Only	Date Received by Juris. Agency	JUL 25 1985	Date Received by FERC																				
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JUL 25 1985																								
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09/29/2023

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

AUG 15 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: July 25, 19 85

8150

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 ^{P 627}

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
850 725 -1030-105- 1173
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 (Print) Regulatory Assistant (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 224 843 on July 25, 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
- 103 New Onshore Production Well
 - X 103 New Onshore Production Well
- 107 High Cost Natural Gas
 - 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

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

AGENCY USE ONLY

QUALIFIED
09/29/2023

RECEIVED
JUL 26 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date Received

Determination Date

Date July 25, 1985

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

Operator's Well No. Mead #1

API Well No. 47 - 105 - 1173
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

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

WELL OPERATOR Cabot Oil & Gas Corp. of WV
ADDRESS P. O. Box 628
Charleston, WV 25322

LOCATION: Elevation 860'
Watershed Burning Springs of Little Kanawha River
Dist. Burning Springs County Wirt Quad. Burning Springs

GAS PURCHASER Tennessee Gas Pipeline Co.
ADDRESS P. O. Box 2511
Houston, TX 77001

Gas Purchase Contract No. GSC151
Meter Chart Code N/A
Date of Contract 10/2/80

* * * * *

Date surface drilling was begun: 6/12/85

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

$BHP = P_1 + P_1(eGL/53.34T_1)$

$P_1 = 660$ PSIA
 $T = 92^\circ$
 $G = .69$
 $L = 3188$

$BHP = 712$ PSIA

AFFIDAVIT

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

H. Baird Whitehead

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 H. Baird Whitehead, whose name is signed to the writing above, bearing date the 25th day of July, 1985, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 25th day of July, 1985.

My term of office expires on the 5th day of March, 1989.

[NOTARIAL SEAL]

Lorene Miller
Notary Public

09/29/2023

RECEIVED
JUL 25 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1.0 API well number: (If not available, leave blank. 14 digits.)	47- 105 - 1173			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107DV Section of NGPA		3 Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4357 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 P. O. Box 628 Street Charleston WV 25322 City State Zip Code			000728 Seller Code
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Burning Springs Field Name Wirt WV County 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.)	Mead #1			
(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 Company Name			018629 Buyer Code
(b) Date of the contract:	1 0 0 2 8 0 Mo. Day Yr.			
(c) Estimated annual production:	35 MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	---	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	---	---	---	---
9.0 Person responsible for this application:	H. Baird Whitehead Name Regional Manager Drilling & Production Title <i>H. Baird Whitehead</i> Signature July 25, 1985 Date Application is Completed (304) 347-1600 Phone Number			
Agency Use Only				
Date Received by Juris. Agency				
JUL 25 1985				
Date Received by FERC				

09/29/2023

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: _____, 19 _____ 8150

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 ^{P627}

Address: P. O. Box 2511

(Street or P.O. Box)

Houston, TX 77001

(City) (State) (Zip Code)

FERC Seller Code 000728

AGENCY USE ONLY
WELL DETERMINATION FILE NUMBER
850725 -1073-105 - 1173
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

Signature: Ed Hindman
(Print) (Title)

Address: P. O. Box 628
(Street or P.O. Box)
Charleston WV 25322

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

(Certificate of Proof of Service to Purchaser)
Copy sent to Purchaser by Certified Mail P753 224 843 on July 25, 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

103 New Onshore Production Well

- 103 New Onshore Production Well

107 High Cost Natural Gas

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

108 Stripper Well Natural Gas

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

AGENCY USE ONLY

QUALIFIED
09/29/2023

RECEIVED
JUL 25 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date Received

Determination Date

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

Operator: _____ Agent: _____

Type Determination being sought - 107 (Devonian Shale)

API Well No.: _____ Well Name: _____

West Virginia Office of Oil & Gas County: _____
References: SJA File No.

Vol. _____ Page _____ Line _____

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

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 125 * API Units

2. Remarks: *BASE of WELL bore not logged but should be similar to that immediately above.*

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

1. GR Value = 125 * API Units

2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (125 *)}} = \underline{88}$ API Units

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

Interval		Thickness of Interval Feet	Feet of less than * 0.7 (Shale Base Line) Feet
From**	To***		
2050	2550	500	51
2550	3350	800	0
3350	4262	912	1

Total Devonian Interval

2212

Total Less Than 0.7 (Shale Base)

52

% Less than 0.7 (Shale Base Line) = $\frac{52}{2212} \times 100 = \underline{2.4}\%$

*Marked on log included with analysis.

**Top of Devonian Section Recorded on First Interval in this column. 09/29/2023

***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's
Well No. Mead #1

API Well No.

47 - 105 - 1173
State County Permit

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

DESIGNATED AGENT H. Baird Whitehead

ADDRESS P. O. Box 628
Charleston, WV 25322

LOCATION Elevation 860'

WELL OPERATOR Cabot Oil & Gas Corp. of W.Va. Watershed Burning Springs of Little Kanawha

ADDRESS P. O. Box 628
Charleston, WV 25322 Dist. Burning Springs County Wirt Quad. Burning Springs

Gas Purchase Contract No. GSC151

GAS PURCHASER Tennessee Gas Pipeline Co.

ADDRESS P. O. Box 2511
Houston, TX 77001

Meter Chart Code N/A

Date of Contract 10/2/80

* * * * *

Date surface drilling began: 6/12/85

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

$$BHP = P_1 + P_1(eGL/53.34T_{-1})$$

$P_1 = 660$	PSIA	$BHP = 712$	PSIA
$T = 92^\circ$			
$G = .69$			
$L = 3188$			

AFFIDAVIT

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

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 25th day of July, 19 85, has acknowledged the same before me, in my county aforesaid.

09/29/2023

Given under my hand and official seal this 25th day of July, 19 85.
My term of office expires on the 5th day of March, 19 89.

Lorene Miller
Notary Public

(NOTARIAL SEAL)

100 4-9-85

Q.M. BELT TRACT
SCALE: 1" = 2000'

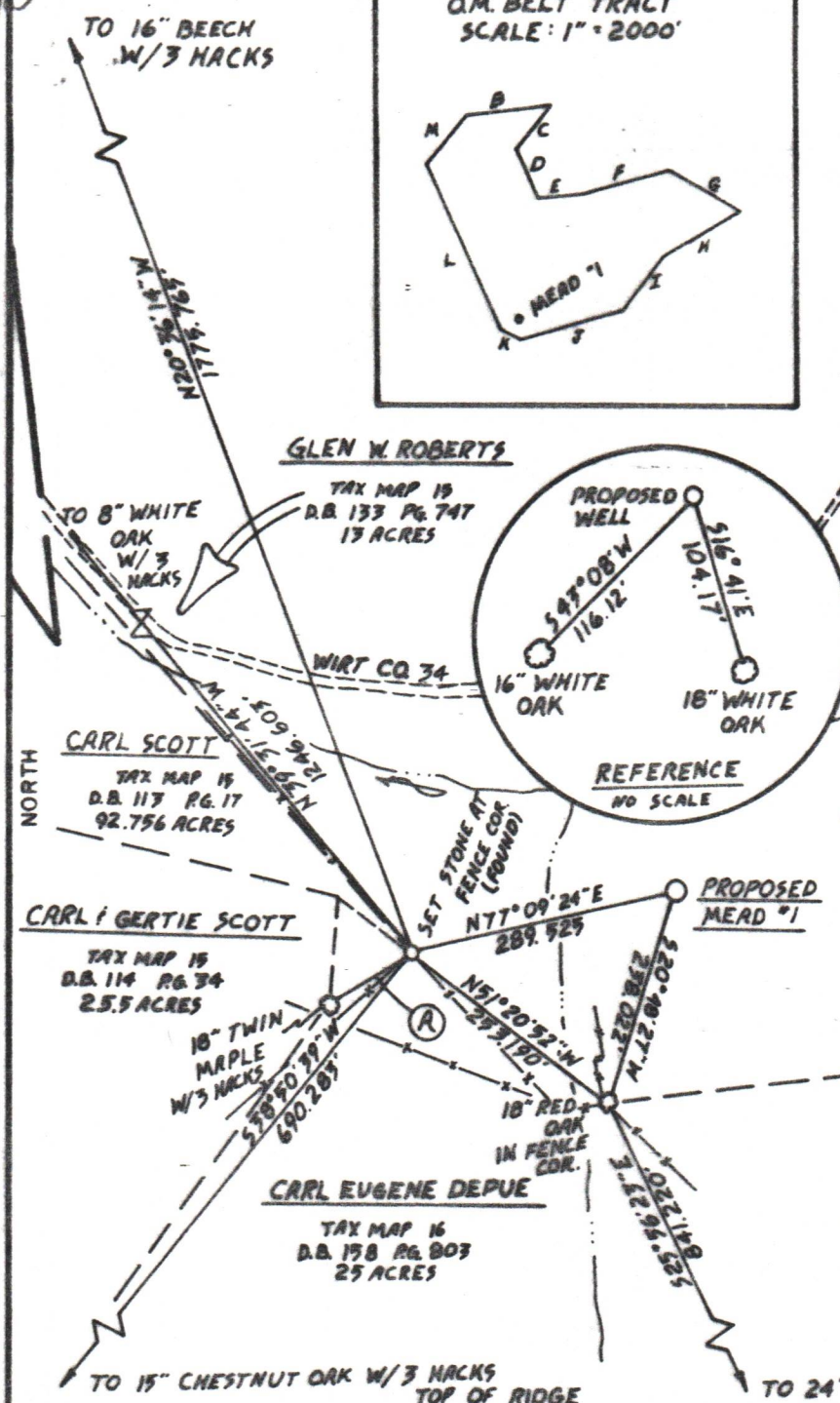
LATITUDE 39°00'00"

SURVEY TIES

- (A) 557°59'35"W ~ 107.000'
- (B) 583°45'W ~ 899.25'
- (C) N38°30'E ~ 222.75'
- (D) N24°15'W ~ 552.75'
- (E) 586°15'W ~ 495'
- (F) 574°45'W ~ 940.5'
- (G) N61°00'W ~ 858'
- (H) N59°30'E ~ 924'
- (I) N35°45'E ~ 709'
- (J) N73°45'E ~ 1122'
- (K) 562°00'E ~ 264'
- (L) 523°45'E ~ 1914'
- (M) 540°00'W ~ 660'

TOPO LOCATION
7 1/2

LONGITUDE 81°17'30"



FILE NO. _____

DRAWING NO. _____

SCALE 1" = 200'

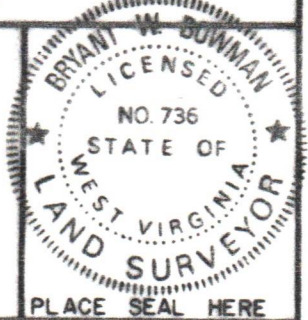
MINIMUM DEGREE OF ACCURACY 1" = 5000'

PROVEN SOURCE OF ELEVATION INT. OF ROADS 676
≈ 2600' NW OF LOC.

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. Downman

R.P.E. _____ L.L.S. 776



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

FORM IV-6
(8-78)



DATE FEBRUARY 9, 1985

OPERATOR'S WELL NO. MEAD #1

API WELL NO. 47-105-1173

STATE COUNTY PERMIT

Department of Mines
Oil & Gas Division

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____)

LOCATION: ELEVATION 860' WATER SHED BURNING SPRINGS OF LITTLE MANAWNA RIVER
DISTRICT BURNING SPRINGS COUNTY WIRT
QUADRANGLE BURNING SPRINGS

SURFACE OWNER OM BELT AND MOLLIE BUFFINGTON ACREAGE 101.27

OIL & GAS ROYALTY OWNER CABOT OIL & GAS OF W.VA. LEASE ACREAGE 97.27 AC
LEASE NO. 47-8961

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 DEV. SHALE ESTIMATED DEPTH 4600'

WELL OPERATOR CABOT OIL & GAS CORP. W.V. DESIGNATED AGENT DAVID G. McCLUSKEY
ADDRESS P.O. BOX 628 CHARLESTON W.V. ADDRESS P.O. BOX 628 CHARLESTON W.V.

09/29/2023



Scale: 1" = 2000'

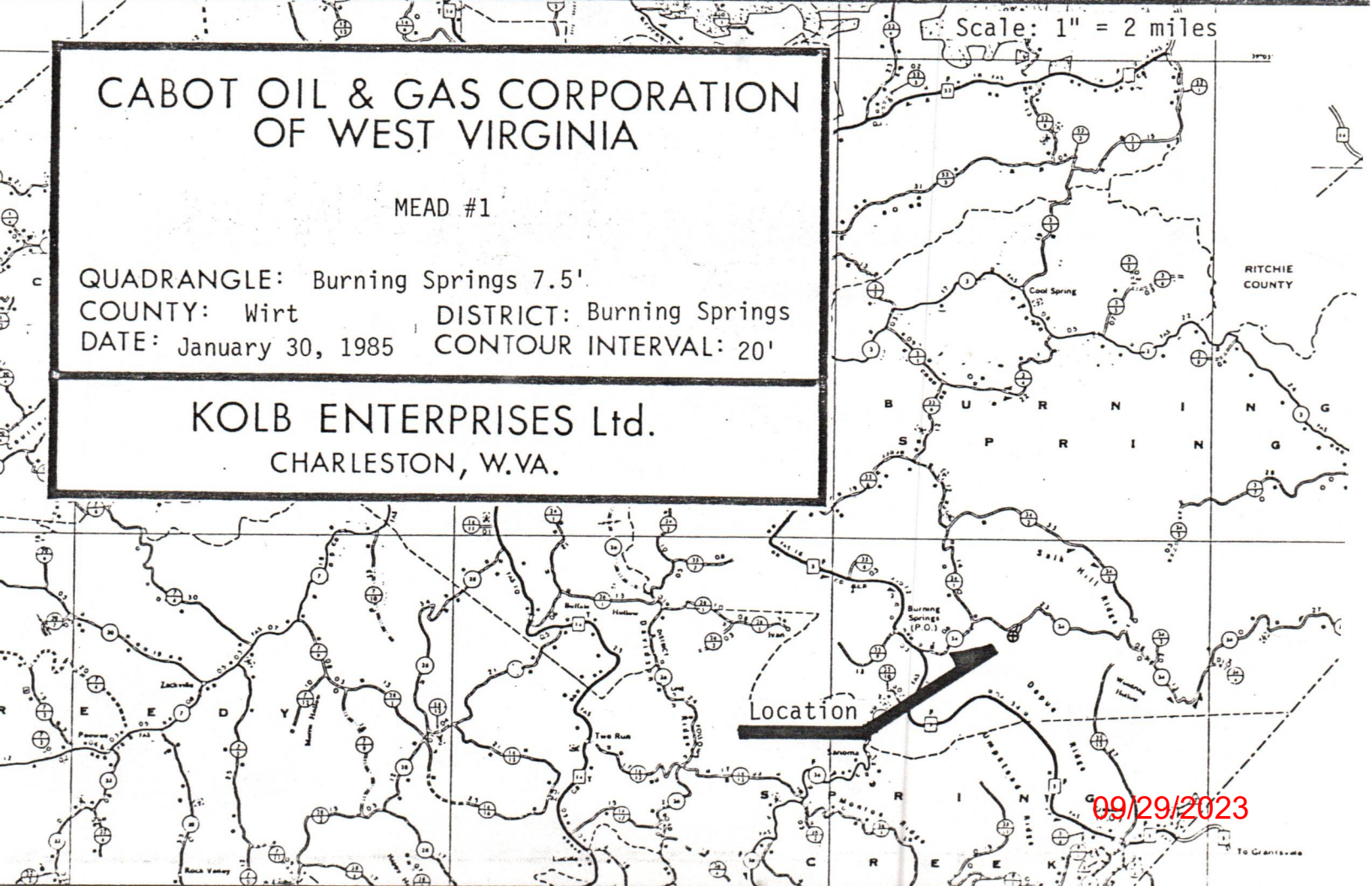
Scale: 1" = 2 miles

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

MEAD #1

QUADRANGLE: Burning Springs 7.5'
 COUNTY: Wirt DISTRICT: Burning Springs
 DATE: January 30, 1985 CONTOUR INTERVAL: 20'

KOLB ENTERPRISES Ltd.
 CHARLESTON, W.VA.



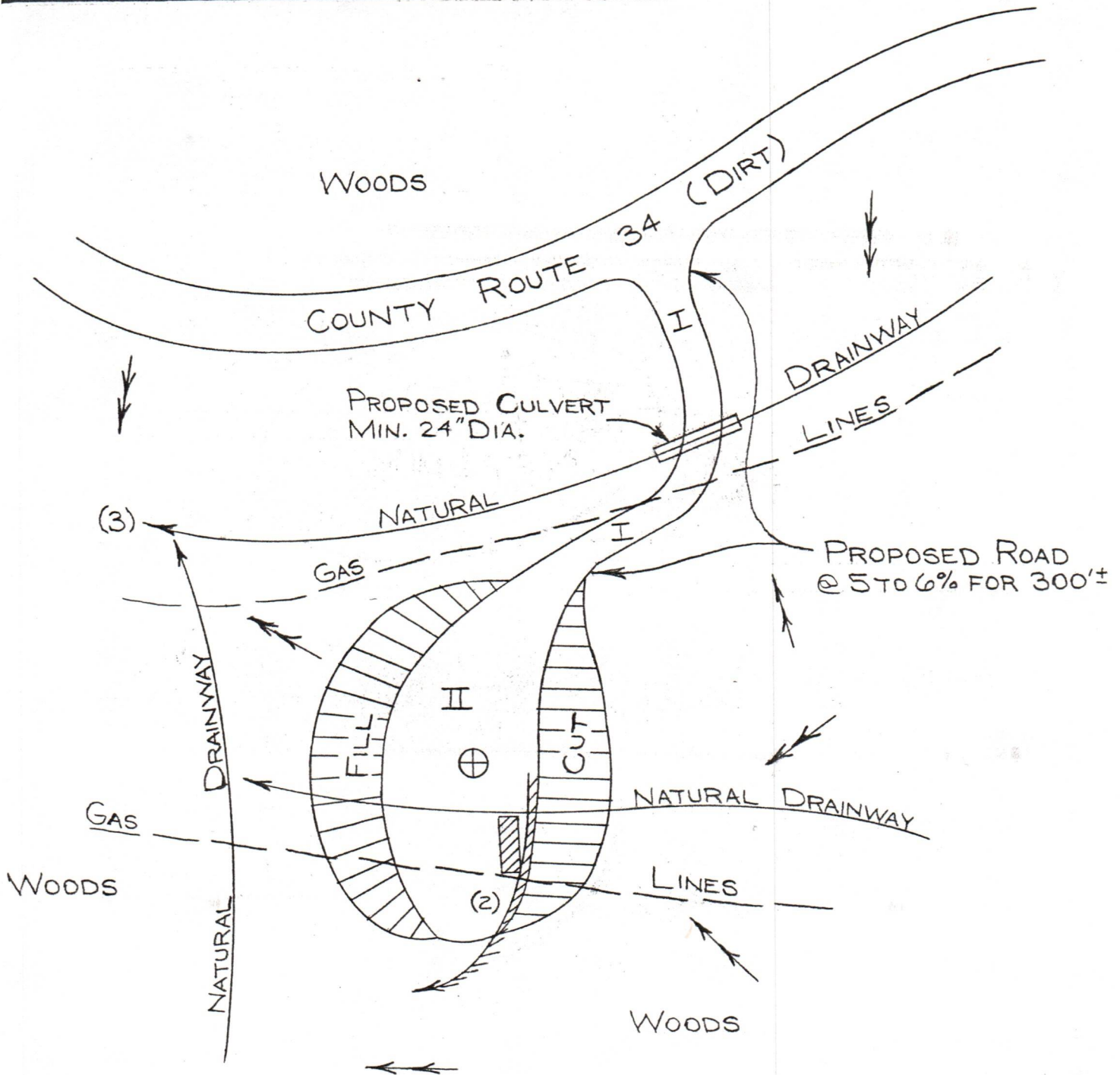
Location

09/29/2023

CABOT OIL & GAS CORPORATION
OF WEST VIRGINIA

MEAD #1

KOLB ENTERPRISES Ltd.
CHARLESTON, W. VA.



AREA I = 1/2 ACRE±
AREA II = 1 ACRE±

09/29/2023

