

FILE COPY
RECEIVED

JUL 23 1984



1) Date: June 29, 19 84
2) Operator's Well No. A. Huntington #46
3) API Well No. 47 - 039 - 0136-DD
State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1042' Watershed: Hughes Creek (K66)
District: Cabin Creek 2 County: Kanawha Quadrangle: Montgomery 7 1/2 480
- 6) WELL OPERATOR Cabot Oil & Gas Corp. of WV 7) DESIGNATED AGENT Robert E. Horrell
Address P.O. Box 628 8150 Address P.O. Box 628
Charleston, WV 25322 Charleston, WV 25322
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name Rodney G. Dillon Name UNKNOWN
Address P.O. Box 7 Address _____
Williamstown, WV 26187 375-3747
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) Drill deeper from Big Lime to Weir
- 11) GEOLOGICAL TARGET FORMATION, Big Lime & Weir
- 12) Estimated depth of completed well, 2330 feet
- 13) Approximate trata depths: Fresh, 45 feet; salt, 1018, 1195, 1360 feet.
- 14) Approximate coal seam depths: 355, 528' Is coal being mined in the area? Yes / No /
- 15) CASING AND TUBING PROGRAM WORKOVER

CASING OR TUBING TYPE	Size	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS To be pulled	
		Grade	Weight per ft.	New	Used	For drilling			Left in well
Conductor	13					EXISTING	40'	ON SHOE	Kinds Spang Anchor
Fresh water	10					EXISTING	531'	ON SHOE	
Coal	8					1410'	PULLED		Sizes 2" x 6-5/8"
Intermediate	7					1410' 1956'	1956'	ON SHOE	Depths set 2012'
Production									
Tubing	2					1410' 2121'	2121'	TO BE PULLED	
Liners									Perforations:
	4-1/2		10.5	X		PROPOSED	2300'	60 sks.	Top Bottom
	1-1/2		2.75	X		PROPOSED	2275'		

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-039-0136-DD Date July 24, 19 84

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

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

Permit expires July 24, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: 30 BLANKET	Agent: <i>LS</i>	Plat: <i>MW</i>	Casing: <i>MW</i>	Fee: 013325
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Margaret J. Hass
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.

09/08/2023

File



1) Date: June 29, 19 84
 2) Operator's Well No. A. Huntington #46
 3) API Well No. 47 039 0136
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1042' Watershed: Hughes Creek
 District: Cabin Creek County: Kanawha Quadrangle: Montgomery 7 1/2
- 6) WELL OPERATOR Cabot Oil & Gas Corp. of WV 7) DESIGNATED AGENT Robert E. Horrell
 Address P.O. Box 628 Address P.O. Box 628
Charleston, WV 25322 Charleston, WV 25322
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 12) Estimated depth of completed well, 2330 feet
 13) Approximate strata depths: Fresh, 45 feet; salt, 1018, 1195, 1360 feet.
 14) Approximate coal seam depths: 355, 528' Is coal being mined in the area? Yes / No /
- 15) CASING AND TUBING PROGRAM WORKOVER

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	13					EXISTING	40'	ON SHOE	To be pulled Kinds Spang Anchor
Fresh water	10					EXISTING	531'	ON SHOE	
Coal	8					1410'	PULLED		Sizes 2" x 6-5/8"
Intermediate	7					1410'	1956'	ON SHOE	
Production									Depths set 2012'
Tubing	2					1410'	2121'	TO BE PULLED	
Liners									Perforations:
	4-1/2		10.5	X		PROPOSED	2300'	60 sks.	Top Bottom
	1-1/2		2.75	X		PROPOSED	2275'		

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____
 By _____
 Its _____ Date _____

 (Signature)
 Date: _____

 (Signature)

09/08/2023
 Surface Owner

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

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

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

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

Where to file comments and obtain additional information:

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

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

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

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

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

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

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

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

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

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- 3) API Well No. 47 - 039 - 0136-20
State County Permit

OIL & GAS DIVISION STATE OF WEST VIRGINIA
DEPT. OF MINES 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 First & Merchants National Bank
Address Trustees for Mariners Museum
2600 Washington Avenue
 - (ii) Name Newport News, Virginia 23607
Address _____
 - (iii) Name _____
Address _____

- Cannelton Industries
- 5(i) COAL OPERATOR Attn: Jim Staub
Address 1205 One Kanawha Valley Square
Charleston, WV 25301
 - 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Same as #4
Address _____
 - Name _____
Address _____
 - COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

P 522 049 210
RECEIPT FOR CERTIFIED MAIL

TO THE PERSON TO WHOM DELIVERED

NOT FOR INTERNATIONAL MAIL

(1) The recipient's name and address (See Reverse)

(2) The postage and certified fee

(3) The recipient's name and address plus return receipt

THE REASON WHICH ARE SUITABLE FOR ACTION AT ALL

Take no action for a Well Work Department and depicted Construction by hand to the before the date

6) EXTRACTION

Check and Include I have The recipient

7) ROYALTY PAYMENT

Is the right of other for compensation to the volume

PS Form 3800, Feb. 1982

First & Merchants Nat'l Bank
Trustees for Mariners Museum

Street and No.
2600 Washington Avenue

P.O., State and ZIP Code
Newport News, VA. 23607

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	

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

Form and the following documents:

2(B) (or Form IV-4 if the well is in the drilling or other work, applicable, the proposed casing and

n on Form IV-6; and

)unless the well work is only to and sediment control and for

THE RIGHTS REGARDING THE APPLICATION SIDE OF THE COPY OF THE APPLICATION ARE NOT REQUIRED TO TAKE ANY

Code, the undersigned well operation and accompanying documents of Oil and Gas, West Virginia described on attached Application the Application, the plat, and the entered or certified mail or delivered certain circumstances) on or

contract or contracts by which see reverse side for specifics.)

s based upon a lease or leases royalty or any similar provision which is not inherently related 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.

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 H. Baird Whitehead this 29 day of June, 1984. My commission expires March 5, 1989.

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

WELL OPERATOR CABOT OIL & GAS CORP. OF WV

By H. Baird Whitehead
Its Regional Manager, Drilling & Production
Address P.O. Box 628
Charleston, WV 25322
Telephone (304) 347-1600

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OIL & GAS DIVISION
DEPT. OF MINES

09/08/2023



RECEIVED
MAY 17 1984
Scott Dept 5/17/84

State of West Virginia
Department of Mines
Oil and Gas Division

MAY 7 1984

Construction and Reclamation Plan

COMPANY NAME Cabot Oil & Gas Corporation
ADDRESS P.O. Box 628, Chas. WV 25322
TELEPHONE 304-347-1600
LANDOWNER First & Merchants National Bank
Trust Account of Mariners Museum

DESIGNATED AGENT Robert Horrell
ADDRESS P.O. Box 628 Chas. WV 25322
TELEPHONE 304-347-1600
SOIL CONS. DISTRICT Capitol

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

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

May 15, 1984

(Date)

R. C. Alford
(SCD Agent)

SEE ATTACHED COMMENTS

ACCESS ROAD

LOCATION

STRUCTURE _____ (A)

SPACING _____

PAGE REF. MANUAL _____

STRUCTURE _____ (B)

SPACING _____

PAGE REF. MANUAL _____

STRUCTURE _____ (C)

SPACING _____

PAGE REF. MANUAL _____

STRUCTURE _____ (1)

MATERIAL _____

PAGE REF. MANUAL _____

STRUCTURE _____

MATERIAL _____

PAGE REF. MANUAL _____

STRUCTURE Sediment Barrier (3)

MATERIAL Straw Bales or Filter Fabric

PAGE REF. MANUAL 2:16, 2:18, 2:19

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OIL & GAS DIVISION (2)
DEPT. OF MINES

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.

Revegetation

TREATMENT AREA I

TREATMENT AREA II

Lime _____ Tons/acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/acre
Seed* _____ lbs/acre
_____ lbs/acre
_____ lbs/acre

Lime _____ 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 *Robert E. Howell*

Cabot Oil and Gas Corporation

ADDRESS P.O. Box 628

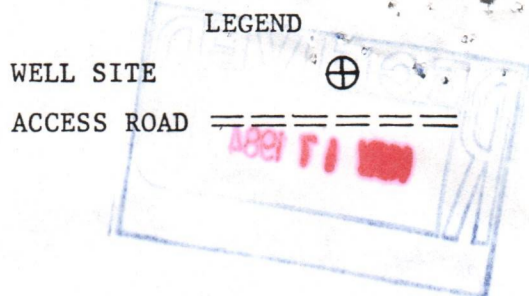
Charleston, WV 25322

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.

09/08/2023

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








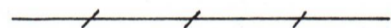












PHOTOCOPY ATTACHED

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.

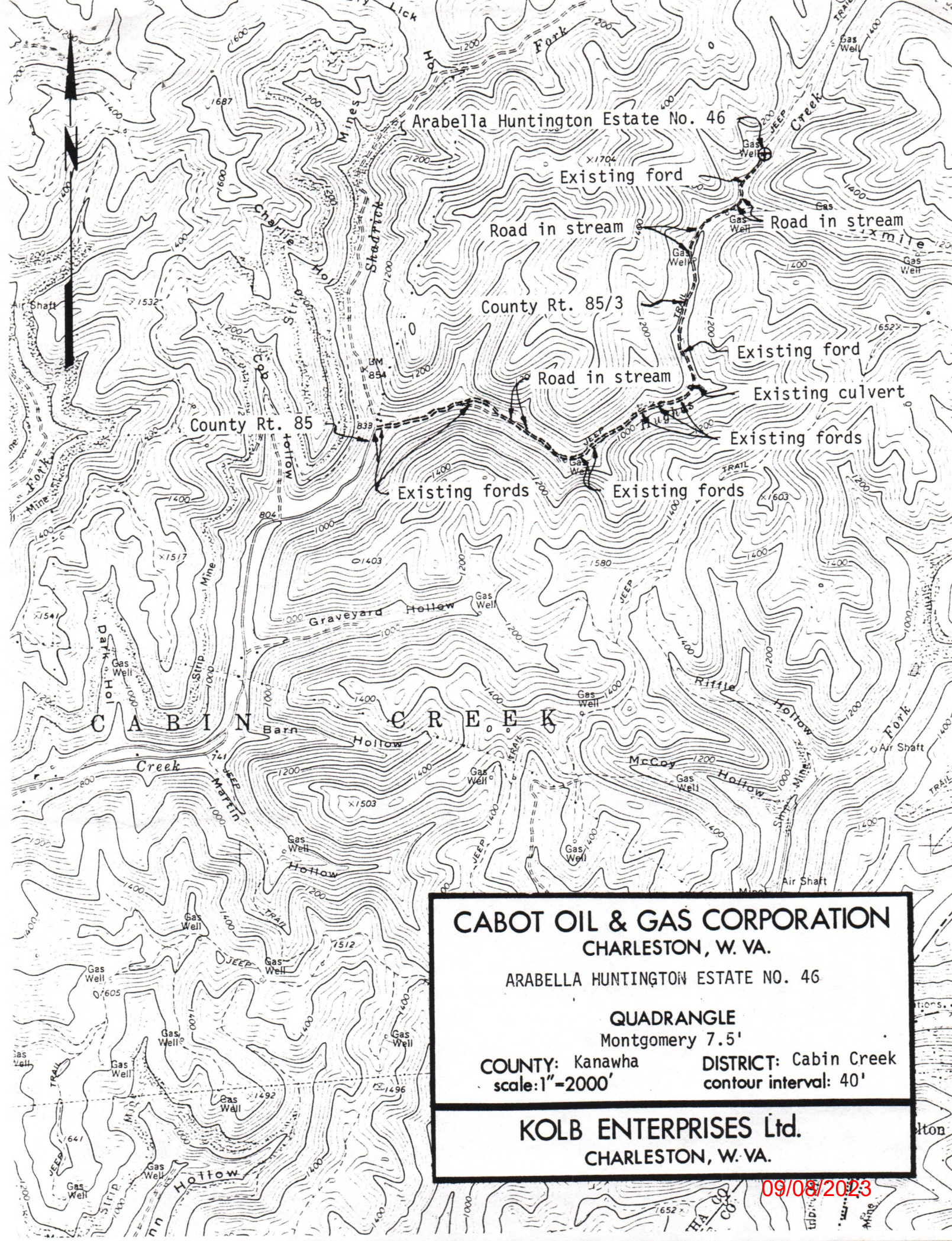
LEGEND

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: This is an existing location. The proposed work is a reconditioning of the well.
Existing location to be graded and leveled as required.

09/08/2023



CABOT OIL & GAS CORPORATION
CHARLESTON, W. VA.

ARABELLA HUNTINGTON ESTATE NO. 46

QUADRANGLE
Montgomery 7.5'

COUNTY: Kanawha
scale: 1"=2000'

DISTRICT: Cabin Creek
contour interval: 40'

KOLB ENTERPRISES Ltd.
CHARLESTON, W. VA.

09/08/2023

GODFREY L. CABOT, INC.
WELL RECORD

RECEIVED
SEP 18 1934
MAP SQUARE 30-49
INITIAL OPEN FLOW

SERIAL NO. 799 LEASE NO. 46 OPERATING DIST. AUK

RECORD OF WELL No. 46 on the
Huntington Farm of Acres
in Cabin Creek District
Kanawha County
Field, State of W. Va.

SIZE	USED IN DRILLING	LEFT IN WELL
16		
13 3/8	40'	40'
10 5/8	531'	531'
8 1/4	1410'	
6 5/8	1956'	1956'
5 3/16		
3		
2 2 1/2	2121'	2121'

of Water in 6-5/8 inch
10ths of Merc. in 3 inch
10ths Volume 3,214 M. Cu. ft.

Rig Commenced 19
Rig Completed 19
Drilling Commenced July 11 1934
Drilling Completed Sept. 13 1934
Drilling Cost \$2.25 per foot
Contractor is: Everett Ferrell
Address: Seth, W. Va.
Drillers' Names Wm. Ashby
C. W. Poulton
S. T. Lee

TUBED & SHUT IN
Date Sept. 13, 1934
Size of Packer Spang Anchor
Kind of Packer 2" x 6-5/8"
Packer Set, Depth 2012'
Size of Anchor 88' of 2"
Perf.—Top 2085 Bot. 2105'
Perf.—Top Bot.
2" Tubing Cage 2085'

SHOOTING RECORD
Date Shot
No. of Quarts
OPEN FLOW AFTER TUBING
of Water in inch
10ths of Merc. in 2 inch
10ths Volume 684,480 Cu. ft.
Rock Pressure 310 lbs. 24 Hrs.
24 HR. PRODUCTION TEST AFTER TUBING
M. Cu. Ft. Line Pres.
OIL PRODUCTION
Oil Flowed Bbls. 1st 24 Hrs.
Oil Pumped Bbls. 1st 24 hrs.
Well Abandoned and Plugged 19

Elevation 1019.4 1042.24

FORMATION	COLOR	TOP	BOTTOM	STEEL LINE MEASUREMENTS	HARD OR SOFT	OIL, GAS OR WATER	DEPTH FOUND	DISTANCE ABOVE OR BELOW S. L.	REMARKS
Gravel	yellow	0	40						
Sand	white	40	128			water	45'		Hole full. Fresh
Slate & Shells	black	128	160						
Sand	white	160	192						
Slate & Shells	"	192	270						
Sand		270	310						
Slate & Shells		310	336						
Sand		336	355						
Coal		355	358	358					
Slate & Shells		358	400						
Sand		400	430						
Slate & Shells		430	457						
Lime		457	490						
Sand		490	528						
Coal		528	529	529					
Lime		529	540						
Sand		540	550						
Slate & Shells		550	624						
Lime		624	635						
Sand		635	670						
Slate & Shells		670	771						
Sand		771	860						
Slate		860	862						
Lime		862	884						
Grampus		884	1030			water	1018'		1 bailer per hr. Salt water
Slate		1030	1032						
st. Salt Sand		1032	1073						
Slate		1073	1075						
nd. Salt Sand		1075	1102						
Slate		1102	1104						
rd. Salt Sand		1104	1289			water	1195		Hole 09/08/2023 t wat
late		1289	1292						
th. Salt Sand		1292	1363			water	1360		Hole full. Salt wat
ime		1363	1375						
ed Rock		1375	1385						
## Slate		1385	1405						
ime		1405	1420						

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OCT 9 1934
OIL & GAS DIVISION
DEPT. OF MINES

APPROVED E. S. Rutledge FOREMAN

DATE Sept. 15, 1934

FORMATION	COLOR	TOP	BOTTOM	STEEL LINE MEASUREMENTS	HARD OR SOFT	OIL OR WATER	DEPTH FOUND	DISTANCE ABOVE OR BELOW S. L.	REMARKS
late		1420	1428	1410					
late		1428	1435						
ed Rock & Slate		1435	1450						
and & Lime		1450	1585						
ed Rock		1585	1595						
ed Rock		1595	1603						
late		1603	1610						
late		1610	1633						
ed Rock		1633	1694						
late		1694	1711						
Slate & Shells		1711	1764						
ed Rock		1764	1769						
lime		1769	1785						
laxon Sand		1785	1849						
Little Lime		1849	1880						
Slate		1880	1881						
lime		1881	1889						
Slate		1889	1898						
lime		1898	1914						
lime		1914	1920						
lime		1920	1924						
Slate		1924	1936						
lime		1936	1940						
Pencil	Gray	1936	1940		1956	hard	2105		
Big Lime		1940				soft			
Minute Pick-up Pressure									
1		110	150						
2		170	178						
3		180	181						
4		181	182						
5		182	183						
6		183	184						
7		184	185						
8		185	186						
9		186	188						
10		188	189						
11		189	190						
12		190	191						
13		191	192						
14		192	193						
15		193	194						
TRANSFERS									
No.									
Date									
7/24/34	13								
8/31/34	20								
9/15/34	5								
9/15/34	6								
9/15/34	10								

Showing 2065 2078-2083 3/10 Mer. in 6-5/8

Hole full. Salt water

Water 1800'

DEPT. OF MINES
RECEIVED

3202/80/60

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

MIRU Pool Well Service and Foam air. Pulled 2-3/8" tbg and packer. RIH w/6-1/4" button bit, 4-3/4" drill collars and 2-7/8" drillpipe. Tagged T.D. @ 2110' K.B. R/U foam air. Drilled deeper to 2308' G.L. 4-1/2", 10.50# csg. (2304'), 65 sacks Class A. Perforated Weir @ 2208-2232' (11 holes). R/U Howco. Foam frac Weir. Broke down with N₂ @ 1940#. ISIP 1290#. Pumped 75 quality foam w/5 bbls. H₂O and 8,000 SCF/min. N₂ and 200 bbls. of foam pad, 142 bbls. of 20/40 @ 1#/gal., 464 bbls. @ 2#/gal., 180 bbls. 10/20 @ 2#/gal. ATP 1830#, AIR 20 bbls./min., TF 247 bbls., S/L 197 bbls. Total N₂ 510,000 SCF, ISIP 1480#, 15 min. 1260. Perforated Big Lime from 2065-2088' (10 holes). R/U Howco, pumped 100,000 SCF N₂, 5 bbls. 28% HCL and dropped frac ball. Pumped 19 bbls. 28% HCL and 48 bbls. 15% HCL w/350 SCF N₂ per bbl. Broke down Big Lime @ 1400#. AIR @ 12 BPM, ATP 1990#. Total N₂ 140,000 SCF. ISIP 1170#, 15 min. 390#. 1-1/2" tbg. w/perf. jt. Total 2226.40'. Final Test on 8/29/84. SITP 125 psi. SICP 125 psi. 4 hr. test. 40/10 Hg, 1-1/2" tbg., 638 MCF/D, dry. Big Lime and Weir.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
SEE ATTACHED ORIGINAL WELL RECORD					
DEEPENING:					
Big Lime			2105	2137	
Injun			2137	2152	
Shale			2152	2206	
Weir			2206	2293	
Shale			2293	2308	

(Attach separate sheets as necessary)

Cabot Oil & Gas Corporation of West Virginia
Well Operator

09/08/2023

By:

Robert E. Howell

Date: October 3, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

IV-35
(Rev 8-81)

RECEIVED
FEB 15 1985



Date February 12, 1985
Operator's _____
Well No. #46
Farm A. Huntington
API No. 47 - 039 - 0136

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

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

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

LOCATION: Elevation: 1042' Watershed Hughes Creek
District: Cabin Creek County Kanawha Quadrangle Montgomery 7-1/2

COMPANY Cabot Oil & Gas Corporation of WV
ADDRESS Box 628, Charleston, WV 25322
DESIGNATED AGENT Robert E. Horrell
ADDRESS Box 628, Charleston, WV 25322
SURFACE OWNER First & Merchants National Bank
Trustees for Mariners Museum
ADDRESS 2600 Washington Avenue
Newport News, Virginia 23607
MINERAL RIGHTS OWNER First & Merchants Nat'l Bank
Trustees for Mariners Museum
ADDRESS 2600 Washington Avenue
Newport News, VA 23607
OIL AND GAS INSPECTOR FOR THIS WORK Rodney
G. Dillon ADDRESS Box 7, Williamstown, WV 26187

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	2303	2303	65 sks.
2	Pulled	2000'	
1 1/2	2226.40	2226.40	
Liners used			

PERMIT ISSUED 7/24/84
WORKOVER
DRILLING COMMENCED 8/7/84
WORKOVER
DRILLING COMPLETED 1/8/85

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Injun Weir Big Lime Weir Depth 2137-2151 2065-2088 2206-2293 feet

Depth of completed well 2308 feet Rotary XX / Cable Tools
Water strata depth: Fresh 45 feet; Salt 1360 feet
Coal seam depths: 355, 528 Is coal being mined in the area? _____

OPEN FLOW DATA Big Lime Weir 2065-2088
Producing formation Pay zone depth 2208-2232 feet
Gas: Initial open flow - - Mcf/d Oil: Initial open flow - - Bbl/d
4 hr. Final open flow 638 Mcf/d Final open flow - - Bbl/d

Time of open flow between initial and final tests - - hours
Static rock pressure 125 psig (surface measurement) after 48 hours shut in
Big Lime Weir 2065-2088 2208-2232

Second producing formation Injun Pay zone depth 2137-2151 feet
Gas: Initial open flow - - Mcf/d Oil: Initial open flow - - Bbl/d
4 hr. Final open flow 72 Mcf/d Oil: Final open flow - - Bbl/d
(after completing Injun)

Time of open flow between initial and final tests - - hours
Static rock pressure 83 psig (surface measurement) after - - hours shut in

(Continue on reverse side)

KAN
0136

09/08/2023

REVIEWED

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

MIRU Pool Well Service and Foam air. Pulled 2-3/8" tbg and packer. RIH w/6-1/4" button bit, 4-3/4" drill collars and 2-7/8" drillpipe. Tagged T.D. @ 2110' K.B. R/U foam air. Drilled deeper to 2308' G.L. 4-1/2", 10.50# csg. (2304'), 65 sacks Class A. Perforated Weir @ 2208-2232' (11 holes). R/U Howco. Foam frac Weir. Broke down with N₂ @ 1940#. ISIP 1290#. Pumped 75 quality foam w/5 bbls. H₂O and 8,000 SCF/min. N₂ and 200 bbls. of foam pad, 142 bbls. of 20/40 @ 1#/gal., 464 bbls. @ 2#/gal., 180 bbls. 10/20 @ 2#/gal. ATP 1830#, AIR 20 bbls/min. TF 247 bbls., S/L 197 bbls. Total N₂ 510,000 SCF, ISIP 1480#, 15 min. 1260. Perforated Big Lime from 2065-2088' (10 holes). R/U Howco, pumped 100,000 SCF N₂, 5 bbls. 28% HCL and dropped frac ball. Pumped 19 bbls. 28% HCL and 48 bbls. 15% HCL w/350 SCF N₂ per bbl. Broke down Big Lime @ 1400#. AIR @ 12 BPM, ATP 1990#. Total N₂ 140,000 SCF. ISIP 1170#, 15 min. 390#. 1-1/2" tbg. w/perf. jt. Total 2226.40'. R/U Pool Well Service, pulled 1-1/2" tbg. R/U McCullough, perf Injun 2137-2151' (10 holes). Ran Howco RTTS pkr & RBP on 2-3/8" EUE 8rd tbg, set RBP @ 2170' & RTTS pkr @ 2100'. R/U Howco, ran 500 gal 15% HCL, BD Injun @ 1930 psi. ISIP 1400 psi. Treated w/3.7 bpm treated H₂O + 4770 SCF/min N₂ for 75 Q foam, 30,000# 20/40 sand, max 2#/gal. ^{WELL LOG} ATP 3040 psi, max 3290 psi. S/L 125 bbls. TF 179 bbls. Total N₂ 259,000 SCF. ISIP 1340 psi, 15 min 1020 psi. Released thru 1/4" choke.

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Pulled Howco RBP & RTTS pkrs, ran 65 jts 1-1/2" tbg. (2226.40'). Well now produces from Big Lime, Injun and Weir.					
DEEPENING:					
Big Lime			2105	2137	
Injun			2137	2152	
Shale			2152	2206	
Weir			2206	2293	
Shale			2293	2308	
SEE ATTACHED ORIGINAL WELL RECORD					

(Attach separate sheets as necessary)

CABOT OIL & GAS CORPORATION OF WEST VIRGINIA

Well Operator

By: Robert E. Howell

09/08/2023

Date: February 12, 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
AUG 13 1984

INSPECTOR'S WELL REPORT

Permit No. 034-0136 DD

OIL & GAS DIVISION
(KIND)

DEPT. OF MINES

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>CAROL</u>	<u>Charleston</u>	<u>1st -> Meach. Nat Bank</u>	<u>Huntington #46</u>	<u>CABIN CREEK</u>	<u>KAN</u>											16				
																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			FEET	INCHES
																			FEET	INCHES
																			FEET	INCHES

Drillers' Names Pooler Well Service

Remarks: Move in Try to Pull 2 3/8 Tubing

8/16/84
DATE

Paul L. Miller
DISTRICT WELL INSPECTOR

09/08/2023

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

RECEIVED
MAY 28 1985

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

INSPECTOR'S WELL REPORT

Permit No. 039-0136-DD

Company <u>Cabot Oil & Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Mariners Museum</u>	16			Kind of Packer _____
Well No. <u>A. Huntington #46</u>	13			
District <u>Cabin Creek</u> County <u>Rainbow</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/4			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: No API number on well

5-21-85
DATE

Carlos W. Hively
INSPECTOR
08/08/2023

IV-20
Obverse
1-84

RECEIVED
NOV 6 1984



OIL & GAS DIVISION
DEPT. OF MINES

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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
November 8, 1984

COMPANY Cabot Oil & Gas Corp. of WV
P. O. Box 628
Charleston, West Virginia 25322

PERMIT NO 039-0136DD
FARM & WELL NO Mariners Museum
DIST. & COUNTY Cabin Creek/Kanawha

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

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

SIGNED *Lorayne D. Wilson*

DATE 11-19-84

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

T. L. v. B.

Administrator-Oil & Gas Division

December 28, 1984

DATE

17715 7/24/84

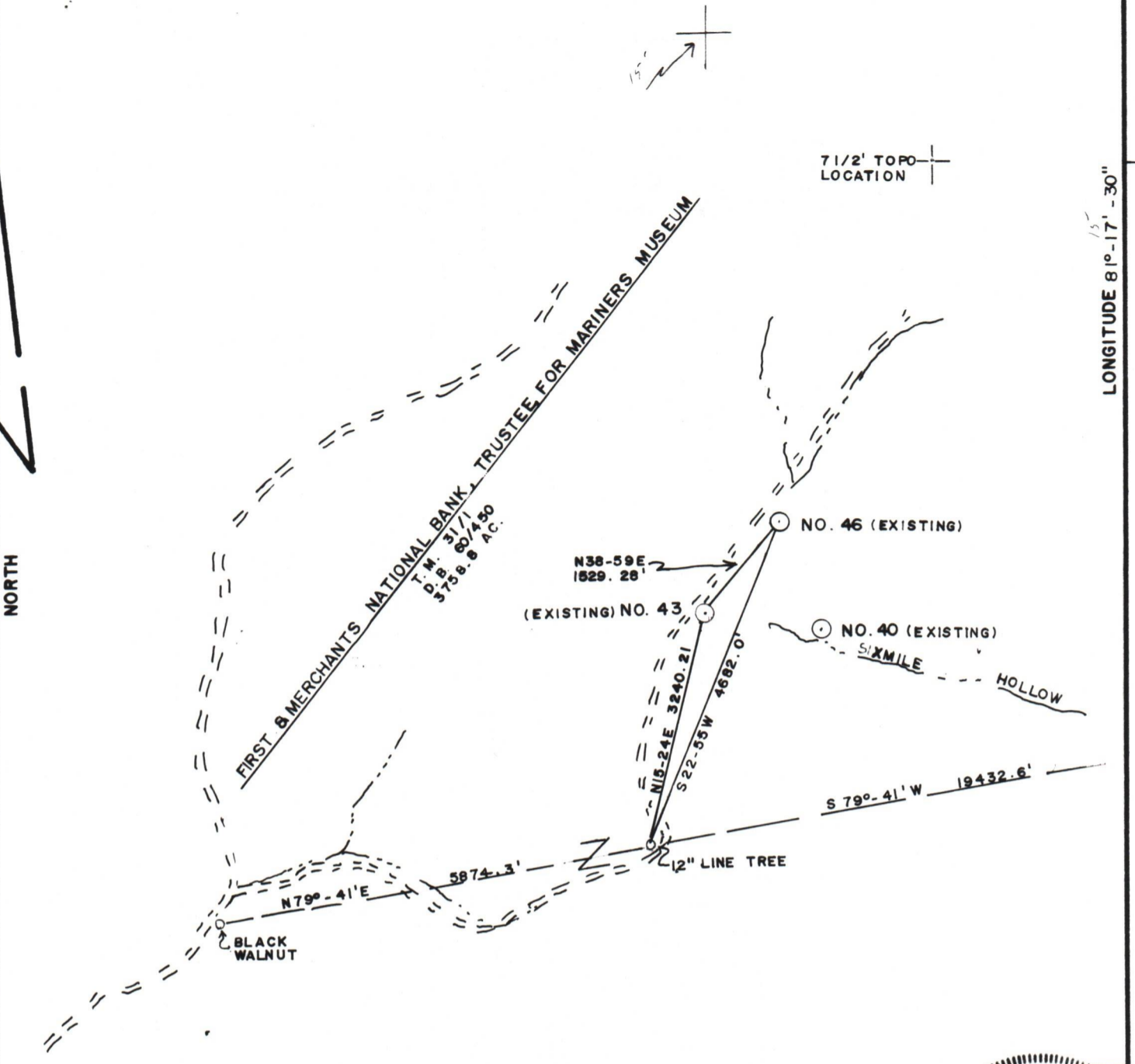
2575'

LATITUDE 38°-15'-00"

LONGITUDE 81°-17'-30"

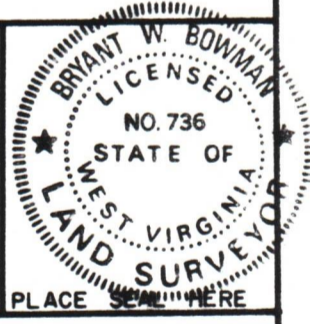
2950'

NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1" IN 5000
 PROVEN SOURCE OF ELEVATION INTERSECTION OF ROAD 833 S.W. OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Bryant W. Bowman
 R. P. E. _____ L. L. S. 736



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



Department of Mines
 Oil & Gas Division

DATE JUNE 13, 1984
 OPERATOR'S WELL NO. ARABELLA
 API WELL NO. HUNTINGTON 46
47 - 039 - 0136-DD
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X)
 LOCATION: ELEVATION 1042' WATER SHED HUGHES CREEK
 DISTRICT CABIN CREEK COUNTY KANAWHA
 QUADRANGLE MONTGOMERY (7 1/2')
 SURFACE OWNER FIRST MERCHANTS NATIONAL BANK, TRUSTEE, FOR MARINERS MUSEUM ACREAGE 3758.8
 OIL & GAS ROYALTY OWNER SAME AS SURFACE LEASE ACREAGE 2258.8
 LEASE NO. 47-0644
 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 RERLUG ___
 TARGET FORMATION WEIR ESTIMATED DEPTH 2330'
 WELL OPERATOR CABOT OIL & GAS CORP. OF W.V. DESIGNATED AGENT JIM CRAMBLETT
 ADDRESS P.O. BOX 628 CHARLESTON, W. Va. ADDRESS P.O. BOX 628 CHARLESTON, W. Va.

09/08/2023

KAN 0136-DD



1) Date: June 29, 19 84
 2) Operator's Well No. A. Huntington #46
 3) API Well No. 47 State 030 County 0136 Permit

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

- 4) WELL TYPE: A Oil _____ / Gas _____ /
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /)
- 5) LOCATION: Elevation: 1042' Watershed: Hughes Creek
 District: 1042' County: Kanawha Quadrangle: Montgomery 7 1/2
- 6) WELL OPERATOR Cabin Creek
 Address Cabot Oil & Gas Corp. of WV
P.O. Box 628
Charleston, WV 25322
- 7) DESIGNATED AGENT Robert E. Horrell
 Address P.O. Box 628
Charleston, WV 25322
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Rodney G. Dillon
 Address P.O. Box 7
Williamstown, WV 26187 375-3747
- 9) DRILLING CONTRACTOR:
 Name UNKNOWN
 Address _____
- 10) PROPOSED WELL WORK: Drill _____ / Drill deeper / Redrill _____ / Stimulate /
 Plug off old formation _____ / Perforate new formation /
 Other physical change in well (specify) Drill deeper from Big Lime to Weir
- 11) GEOLOGICAL TARGET FORMATION, Big Lime & Weir
- 12) Estimated depth of completed well, 2330 feet
- 13) Approximate strata depths: Fresh, 45 feet; salt, 1018, 1195, 1360 feet
- 14) Approximate coal seam depths: 355, 528' Is coal being mined in the area? Yes _____ / No _____

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		Kinds	Depths set
Conductor										
Fresh water	<u>13</u>					<u>EXISTING</u>	<u>40'</u>	<u>ON SHOE</u>		<u>To be pulled</u>
Coal	<u>10</u>					<u>EXISTING</u>	<u>531'</u>	<u>ON SHOE</u>		<u>Spang Anchor</u>
Intermediate	<u>8</u>					<u>1410'</u>	<u>PULLED</u>			<u>Sizes 2" x 6-5/8"</u>
Production	<u>7</u>					<u>1410' 1956</u>	<u>1956'</u>	<u>ON SHOE</u>		<u>Depths set 2012'</u>
Tubing						<u>1410' 2121</u>	<u>2121'</u>	<u>TO BE PULLED</u>		
Liners	<u>2</u>									<u>Perforations:</u>
	<u>4-1/2</u>		<u>10.5</u>	<input checked="" type="checkbox"/>		<u>PROPOSED</u>	<u>2300'</u>	<u>60 sks.</u>		<u>Top Bottom</u>
	<u>1-1/2</u>		<u>2.75</u>	<input checked="" type="checkbox"/>		<u>PROPOSED</u>	<u>2275'</u>			

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

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

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

WAIVER

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

Date: _____, 19 _____ By _____
 Its _____

09/08/2023