

Copy



STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil ___ / Gas X /

(If "Gas", Production X / Underground storage ___ / Deep X / Shallow ___ /

LOCATION: Elevation: 2094.7 Watershed: Ten Mile Fork of Cabin Creek of Kanawha River
District: Cabin Creek County: Kanawha Quadrangle: Dorothy

WELL OPERATOR Ashland Exploration, Inc.
Address P. O. Box 391
Ashland, KY 41114

DESIGNATED AGENT Forrest Burkett
Address P. O. Box 156 Brenton, WV 24818

OIL AND GAS ROYALTY OWNER Kanawha Valley Bank, et al
Address Box 1973
Charleston, WV 25326
Acreage 5626

COAL OPERATOR Bethlehem Mines Corporation
Address Box 4108
Charleston, WV 25304

SURFACE OWNER Kanawha Valley Bank, et al
Address Same as above
Acreage 550+

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Kanawha Valley Bank, et al
Address Same

FIELD SALE (IF MADE) TO:
NAME
Address

NAME
Address

COAL LESSEE WITH DECLARATION ON RECORD:
NAME Bethlehem Mines Corporation
Address Same as above

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Martin Nichols
Address P. O. Box 554
Clendenin, WV 25045
Telephone (304) 548-6993

APR 21 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated Feb. 15, 1956, to ~~the undersigned well operator~~ from Kanawha Valley Bank, et al United Producing Co., Inc.
(If said deed, lease, or other contract has been recorded:)

Recorded on October 13, 1956, in the office of the Clerk of County Commission of Raleigh County, West Virginia, in Deed Book ²⁵ at page 425. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___ / Redrill ___ / Fracture or stimulate X / Plug off old formation ___ / Perforate new formation ___ / Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above 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 receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

02/16/2024

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

ASHLAND EXPLORATION, INC.
Well Operator

By: John H. Burtnett
John H. Burtnett
Regional Civil Engineer

BLANKET BOND

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Ray Resources Drilling Company

Address 630 Commerce Square

Charleston, WV 25301

GEOLOGICAL TARGET FORMATION Marcellus Shale

Estimated depth of completed well 6759 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, feet; salt, Top of feet.
Approximate coal seam depths: 665' coal seam Salt Sand
Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left in Well		
Conductor	13 3/8	H40	48.00	X		40'	40'	25 sks	Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8	K55	24.00	X		2274	2274	Circ. to surface	
Production Tubing	4 1/2	K55	10.50	X		6759	6759	As Needed	Depths set
Liners									Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 receipt thereof:

W A I V E R

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, 02/16/2024 provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: , 19 .

By:

Its:

CAPITOL SOIL CONSERVATION DISTRICT

FEBRUARY 9, 1982

**1422 Federal Building
500 Quarrier St.
Charleston, WV 25301**

WELL SITE: #5, SER. #093271
ASHLAND EXPLORATION, INC.
BOX 391, Ashland, Ky.41114
Stephen N. Parks
(606-329-3682)

QUADRANGLE: DOROTHY

LANDOWNER: KANAWHA VALLEY BANK, ETAL.

PLAN RECEIVED BY CAPITOL SCD ON: JANUARY 28, 1982, by CERTIFIED
MAIL NO. AO-1838.

PLAN REVIEWED BY: Michael L. Edwards, Agent for Capitol SCD, on
FEBRUARY 6, 1982.

RECLAMATION PLAN COMMENTS:

- (1) ACCESS ROAD - Existing conditions and plans for reclamation (if needed) of the existing access road should be stated on the sketch. The sketch should show access from the nearest state or county road to the location.
- (2) ACCESS ROAD - STRUCTURE (A) DITCH RELIEF CULVERTS - Spacing of culverts 300 to 500 feet @ 2-5% road grade. Page Ref. Manual 2-5 and 2-6, Table 4.
- (3) ACCESS ROAD - STRUCTURE (B) DRAINAGE DITCHES - Page Ref. Manual 2-10.
- (4) ACCESS ROAD - STRUCTURE (C) HEADWALLS - The material of construction of the headwalls should be specified. Page Ref. Manual 2-12, Figure 7.
- (5) LOCATION - STRUCTURE (1) DIVERSION DITCH - Page Ref. Manual 2-10.
- (6) SKETCH - Should show the cut and fill areas around the location.
- (7) COMMENTS - Topsoil should be scalped from the disturbed area, stockpiled and utilized for topdressing after the site is regraded.

RECEIVED

APR 21 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

NOTE: ALL COMMENTS SHOULD BE STUDIED SO THEY WILL NOT BE
REPEATED ON FUTURE PLANS.



R. C. ALFORD, CHAIRMAN
CAPITOL SCD BOARD OF SUPERVISORS

cc: Office of Oil & Gas, WV Dept. of Mines
Michael Edwards, Agent for Capitol SCD

02/16/2024



JAN 28 1982

IV-9
Revised 11-81

DATE Jan 26, 1982
WELL NO. #5- Ser #093271
API NO. 47-039-3860

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Ashland Exploration, Inc DESIGNATED AGENT Forrest Burkett
Harold Griffith
Address Box 391 Ashland Ky 41114 Address Box 156 Brenton W Va 24818
Telephone (606) 329-3682 Telephone (304) 732-6677
LANDOWNER Kanawha Valley Bank, et al SOIL CONS. DISTRICT Capitol
Revegetation to be carried out by Ashland Exploration, Inc (Agent)

This plan has been reviewed by CAPITOL SCD. All corrections and additions become a part of this plan: FEB 9 1982 (Date)

R. R. [Signature]
(SCD Agent)

Ditch Relief ACCESS ROAD
Structure Culvert- Steel (A)
Spacing 500' Spacing - See detail for sizes.
Page Ref. Manual 2-5 + 2-6
2-4, 2-7
Structure Drainage Ditch (B)
Spacing Per Sketch
Page Ref. Manual 2-6 2-10
Structure Headwalls (C)
Spacing Per Sketch
Page Ref. Manual 2-12 + Fig. 7
2-4, D. 7 58

LOCATION
Structure Diversion Ditch (1)
Material Earth
Page Ref. Manual 2-5 2-10
Structure Drilling Pit (2)
Material Earth-lined & treated if necessary
Page Ref. Manual _____
Structure _____ (3)
Material _____
Page Ref. Manual _____

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 dirt work begins.

REVEGETATION

Treatment Area I (Access Rd)
Line 3 Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch Straw 2 Tons/acre
Seed* Ky 31 Tall Fescue 20 lbs/acre
Creeping Red Fescue 20 lbs/acre
Redtop 5 lbs/acre

Treatment Area II (Location)
Line 3 Tns/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre
(10-20-20 or equivalent)
Mulch Straw 2 Tons/acre
Seed* Ky 31 Tall Fescue 20 lbs/acre
Creeping Red Fescue 20 lbs/acre
Redtop 5 lbs/acre

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

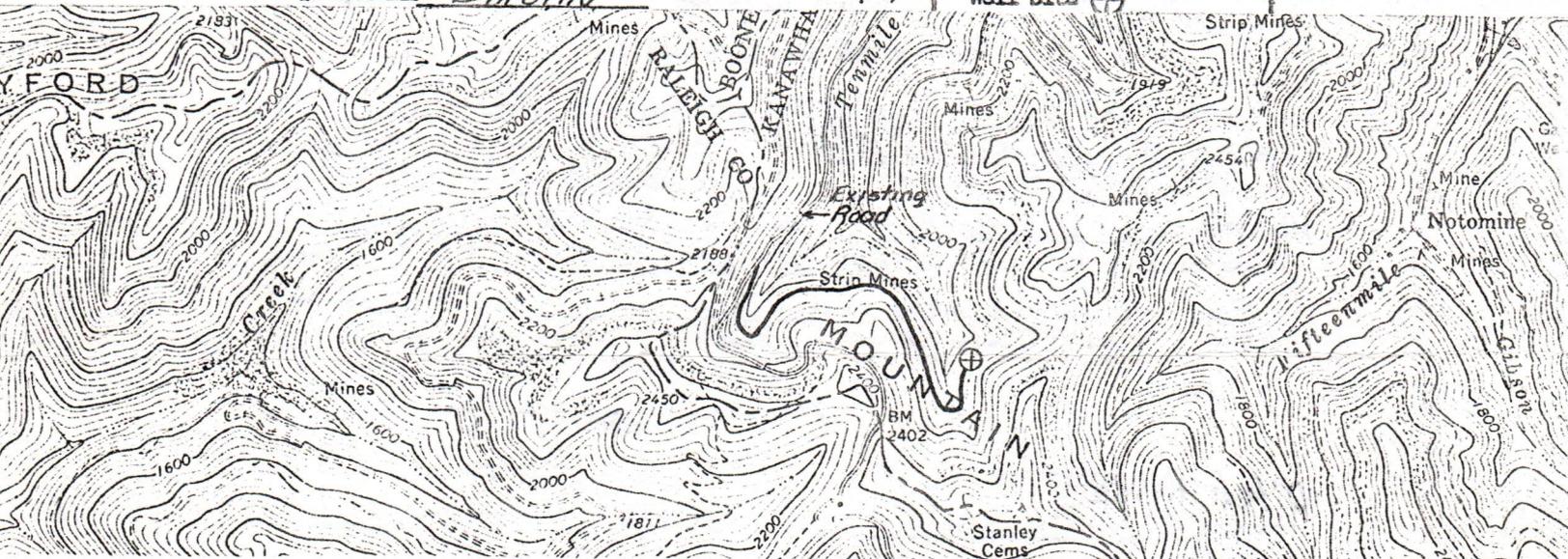
PLAN PREPARED BY Stephen N. Parks
ADDRESS PO Box 391 Ashland
Ky 41114
PHONE NO. (606) 329-3682

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

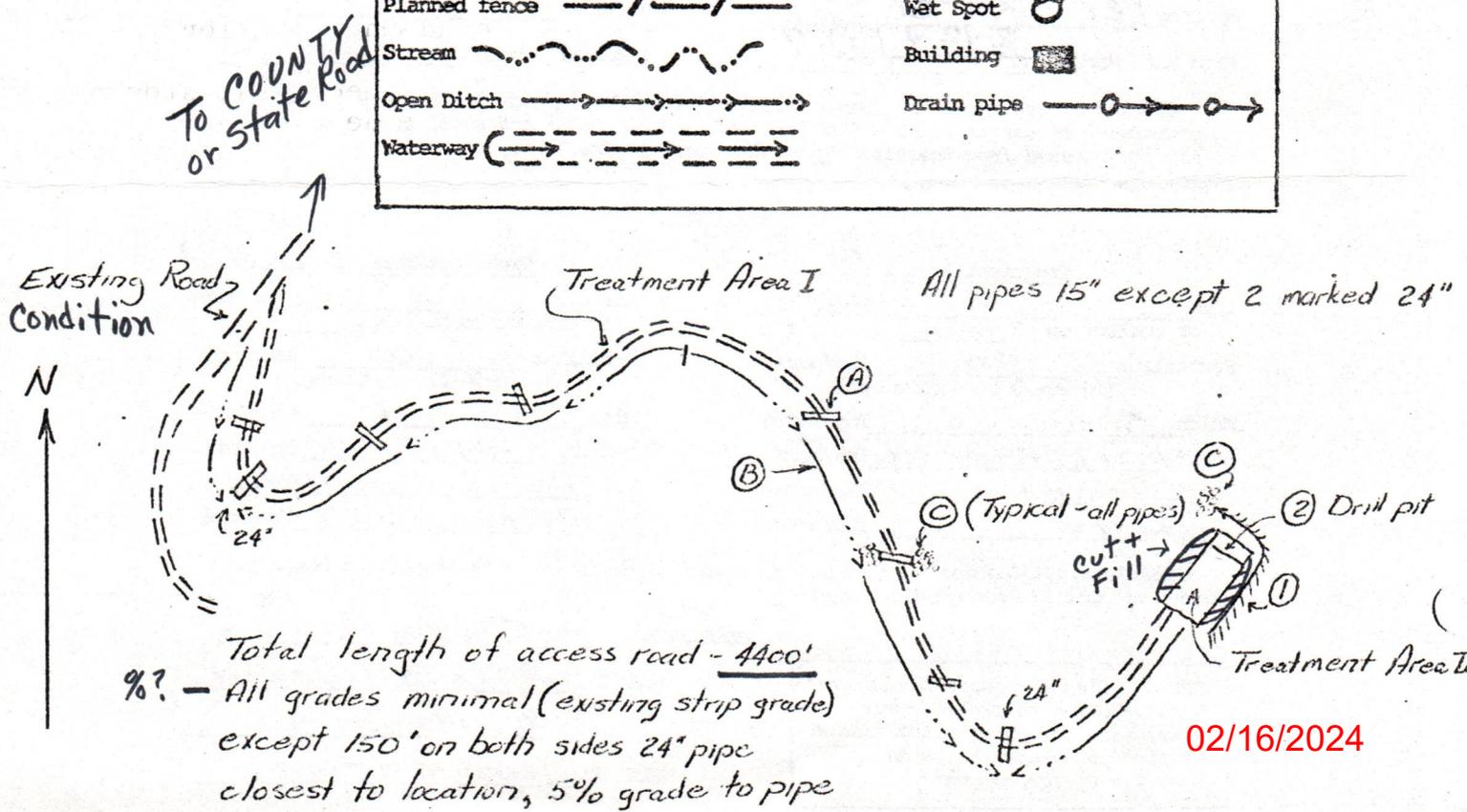
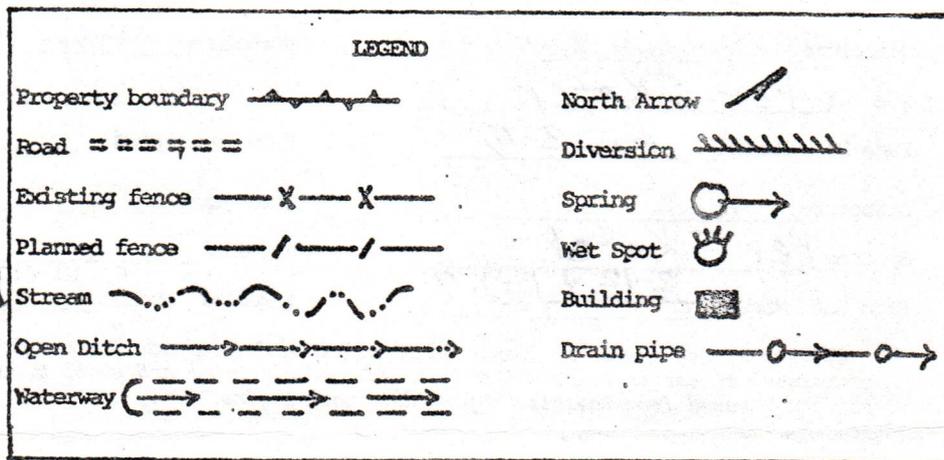
02/16/2024

IV-9 REVERSE
 Revised 11-81

ATTACH OR PHOTOCOPY SECTION OF
 INVOLVED TOPOGRAPHIC MAP.
 QUADRANGLE *Dorothy*



Land Use: Pasture ___ Hayland ___ Cropland ___ Woodland .



02/16/2024



STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /

(If "Gas", Production X / Underground storage / Deep X / Shallow /

LOCATION: Elevation: 2094.7 Watershed: Ten Mile Fork of Cabin Creek of Kanawha River
District: Cabin Creek County: Kanawha Quadrangle: Dorothy

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DESIGNATED AGENT Forrest Burkett
Address P. O. Box 156 Brenton, WV 24818

OIL AND GAS ROYALTY OWNER Kanawha Valley Bank, et al
Address Box 1973
Charleston, WV 25326
Acreage 5626

COAL OPERATOR Bethlehem Mines Corporation
Address Box 4108
Charleston, WV 25304

SURFACE OWNER Kanawha Valley Bank, et al
Address Same as above
Acreage 550+

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Kanawha Valley Bank, et al
Address Same

FIELD SALE (IF MADE) TO:
NAME
Address

NAME
Address

COAL LESSEE WITH DECLARATION ON RECORD:
NAME Bethlehem Mines Corporation
Address Same as above

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Martin Nichols
Address P. O. Box 554
Clendenin, WV 25045
Telephone (304) 548-6993

RECEIVED

MAY - 4 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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United Producing Co., Inc.
(If said deed, lease, or other contract has been recorded:)

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PROPOSED WORK: Drill X / Drill Deeper / Redrill / Fracture or stimulate X /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.

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02/16/2024

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

ASHLAND EXPLORATION, INC.
Well Operator
By: John H. Burkett
John H. Burkett
Its: Regional Civil Engineer

79

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Ray Resources Drilling Company

Address 630 Commerce Square

Charleston, WV 25301

GEOLOGICAL TARGET FORMATION Manassas Sh.

in
by
:)

02/16/2024

Distribution List

Huntington Trust & Savings
Successor-Trustee for
Marion E. Holland Trust
P. O. Box 2087
Huntington, WV 25721

The Kay Company
820 Virginia Street, East
Charleston, WV 25326
Attn: J. K. Thomas, President

Mr. Harvey A. Ford
5406 Riverhills Dr.
Temple Terrace, FL 33617

Mrs. Frances Polan Einstein
519 11th Avenue
Huntington, WV 25701

Mr. Howard James, Exec.
O/E/O May C. James
2793 Bristol Pike
Bensalem, PA 19020

Mr. J. E. Wildey
Manager of Mines
Bethlehem Mines Corp.
Box 4108
Charleston, WV 25304

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

1st Stage - Perf Devonian Shale 39H/6278-6636, Waterfrac w/20#/1000 gal gel system, ATP 2181, 38 B/M ATP, MTP 3600#, ISIP 3600#, 15 min 200#, 4,400# sand.

2nd Stage - Perf Devonian Shale 40H/5459-5808 - Foam frac w/1000 gal 28% HCl. BD @ 1000#, ATP 3200#, SI @ 1600#, 15 min 1400#, ATR @ 40 B/M - TSLF 176 bbl, TL&FW 221 bbl. (75 Quality foam.)

3rd Stage - Perf Gordon 16H/4093-4106 - Faom frac w/75 Quality foam, 500 gal 15% HCl acid, 30,000# 20/50 sand, 182 MCFN₂, ATP 1200# @ 20 B/M. BD @ 1100#, ISIP 700#, 15 min 600#. TL&FW 155 bbl., TSLF 104 bbl.

4th Stage - Perf Middle Weir 16H/3507-3520-Foam frac w/75 Quality foam, 30,000# 20/50 sand, 276 MCFN₂, ATR 20 B/M, BD @ 1000#, ATP 1350#, ISIP 1100#, 15 min 900#. TL&FW 153 bbl., TSLF 104 bbl.

Completed as dual gas producer w/total initial potential @ 1086 MCF/D. Gordon & Devonian Shale (297 MCF/D) and M. Weir (789 MCF/D)

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	202	
Shale & Sand			202	523	
Shale			523	690	Gas test @
Sand			690	850	3654' no show
Shale			850	892	3904' - 419 MCF/D
Sand & Shale			892	1140	4155' - 375 MCF/D
Shale			1140	1280	4651' - 554 MCF/D
Sand			1280	1328	5129' - 547 MCF/D
Shale			1328	1378	5649' - 325 MCF/D
Sand			1378	1633	6150' - 430 MCF/D
Shale			1633	1730	6650' - 430 MCF/D
Salt Sand			1730	2280	TD - 325 MCF/D
Shale			2280	2360	
Ravencliff			2360	2409	
Shale			2409	2416	
Avis Limestone			2416	2443	
Shale			2443	2524	
Upper Maxton			2524	2589	
Shale			2589	2632	
Middle Maxton			2632	2677	
Shale			2677	2908	
Lower Maxton			2908	2932	
Shale			2932	2970	
Little Lime			2970	3054	
Pencil Cave			3054	3062	
Big Lime			3062	3375	
Shale			3375	3475	
Middle Weir			3475	3555	
Shale			3555	3559	
Lower Weir			3559	3623	
Shale			3623	3856	
Coffee Shale			3856	3876	
Berea			3876	3918	
Devonian Shale			3918	4091	
Gordon			4091	4107	
Devonian Shale			4107	6812	
Onondaga Ls.			6812	6852*	

*LTD 6852'
DTD 6820'

(Attach separate sheets as necessary)

ASHLAND EXPLORATION, INC.

Well Operator

By: David J. Belcher

02/16/2024

Date: October 12, 1982

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

JUL 19 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 47-039-3860

Oil or Gas Well Gas
(KIND)

Company Ashland Exploration Inc
 Address Ashland Ky
 Farm Kanawha Valley Bank
 Well No. 5-Serial No-093271
 District Cabin Creek County Kanawha
 Drilling commenced 6-26-82
 Drilling completed 7-15-82 Total depth 6820
 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	15	15	
10			Size of _____
8 3/8	2305	2305	
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 8 3/8 SIZE 2305 No. FT. 7-11-82 Date
 NAME OF SERVICE COMPANY Haliburton
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: Cemented with 350 Bag 6% Jell - 100 Bags neat F Logging Well

7-16-82

Martin B. Nichols
508
02/16/2024



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

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JUL - 8 1984

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
May 22, 1984

COMPANY Ashland Exploration, Inc.

PERMIT NO 039-3860 (4-82)

P. O. Box 391

FARM & WELL NO Kanawha Valley Bank #5

Ashland, Kentucky 41114

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 Rod Dillon

DATE 6/27/84

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.

TLL r/bb

Administrator-Oil & Gas Division

July 19, 1984

DATE

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47-039-3860</u>																										
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>103</u> Section of NGPA Category Code																										
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>6820</u> feet																										
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<table style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2"><u>Ashland Exploration, Inc.</u></td> <td style="text-align: right;"><u>023608</u></td> </tr> <tr> <td colspan="2"><small>Name</small></td> <td style="text-align: right;"><small>Seller Code</small></td> </tr> <tr> <td colspan="3"><u>P.O. Box 391</u></td> </tr> <tr> <td><small>Street</small></td> <td><u>Ashland</u></td> <td><u>KY 41114</u></td> </tr> <tr> <td><small>City</small></td> <td><small>State</small></td> <td><small>Zip Code</small></td> </tr> </table>	<u>Ashland Exploration, Inc.</u>		<u>023608</u>	<small>Name</small>		<small>Seller Code</small>	<u>P.O. Box 391</u>			<small>Street</small>	<u>Ashland</u>	<u>KY 41114</u>	<small>City</small>	<small>State</small>	<small>Zip Code</small>											
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5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<table style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2"><u>Paint Creek</u></td> </tr> <tr> <td colspan="2"><small>Field Name</small></td> </tr> <tr> <td><u>Kanawha</u></td> <td><u>WV</u></td> </tr> <tr> <td><small>County</small></td> <td><small>State</small></td> </tr> </table>	<u>Paint Creek</u>		<small>Field Name</small>		<u>Kanawha</u>	<u>WV</u>	<small>County</small>	<small>State</small>																		
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<small>Agency Use Only</small>
Date Received by Jurisdiction Agency NOV 10 1982
Date Received by FERC

DATE: MAR 10 1983

BUYER-SELLER

PARTICIPANTS:

WELL OPERATOR:

Ashland Exploration, Inc.

023608

FIRST PURCHASER:

Columbia Gas Trans. Corp.

004030

OTHER:

1500'

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
821110-103-039-3860
 Use Above File Number on all Communications
 Relating to Determination of this Well

Qual

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No.
- 2. IV-1 Agent Forrest Burkett
- 3. IV-2 Well Permit
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening
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- 8. IV-40 90 day Production Days off line:
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - (54) - 55 - 56 - 57 - 58 Complete? Affidavit Signed
- 18-28. Other: Survey Logs Geological Charts
 Structure Map 1: 4000 Map Well Tabulations
 Gas Analyses
- (5) Date commenced: 6-26-82 Date completed 7-18-82 Deepened
- (5) Production Depth: 5459-6636 4093-4106, 3507-20
- (5) Production Formation: Devonian Shale & Gordon, Weir
- (5) Final Open Flow: 297 MCF 789 MCF
- (5) After Frac. R. P. 457# 48 hrs. 473#
- (6) Other Gas Test:
- (7) Avg. Daily Gas from Annual Production:
- (8) Avg. Daily Gas from 90-day ending w/1-120 days
- (8) Line Pressure: PSIG from Daily R.
- (5) Oil Production: From Completion Report
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized? 02/16/2024
- Does official well record with the Department confirm the submitted information? yes
- Additional information Does computer program confirm?
- Was Determination Objected to By Whom?

Date November 10, 1982

Operator's Well No. 093271

API Well No. 47 - 039 - 3860
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. _____
(If Applicable)

WELL OPERATOR ASHLAND EXPLORATION, INC. DESIGNATED AGENT Forrest Burkett
ADDRESS P. O. BOX 391 ADDRESS P. O. BOX 156
ASHLAND, KY 41114 Brenton, WV 24818

Gas Purchase Contract No. 6257 and Date 3/30/60
(Month, day and year)

Meter Chart Code N/A

Name of First Purchaser Columbia Gas Transmission Corp.
P.O. Box 1273
Charleston, WV 25325
(City) (State) (Zip Code)

FERC Seller Code 023608 FERC Buyer Code 004030

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 103 Section of NGPA Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Paul W. Sturm Region Manager
Name (Print) Title
Paul W. Sturm
Signature

Kanawha Valley Bank #5

P.O. Box 391
Street or P. O. Box
Ashland, KY 41114
City State (Zip Code)
606 329-5738
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978. (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA)

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____.

Initial review of information submitted indicates the well is. is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

NOV 10 1982

Director
By [Signature]
Title _____

Date received by
Jurisdictional Agency _____

02/16/2024

[Handwritten signature]

NOV 10 1985

02/16/2024

Date November 10, 1982

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

Operator's Well No. 093271

API Well No. 47 - 039 - 3860
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL

KANAWHA VALLEY BANK #5

NGPA Section 103

DESIGNATED AGENT Forrest Burkett
ADDRESS P. O. Box 156
Brenton, WV 24818

WELL OPERATOR Ashland Exploration, Inc.
ADDRESS P. O. Box 391
Ashland, KY 41114

LOCATION: Elevation 2094.7
Watershed Tennile Fork of Cabin Cr. of Kanawha River
Dist. Cabin Cr County Kanawha Quad Dorothy

GAS PURCHASER Columbia Gas Trans.
ADDRESS P.O. Box 1273
Charleston, WV 25325

Gas Purchase Contract No. 6257
Meter Chart Code N/A
Date of Contract 3/30/60

* * * * *
Date surface drilling was begun: 6/24/82

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

SIP = 473 psi (487.7 psia)
MIDPOINT = 3514' KB
BHP = .25 (487.7 x 3514 / 100) + 487.7 = 530.54 psia
WEIR

AFFIDAVIT

I, Paul W. Sturm, 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.

Paul W. Sturm

STATE OF ~~WEST VIRGINIA~~ KENTUCKY

COUNTY OF BOYD, TO WIT:

I, Sheri S. Tackett, a Notary Public in and for the state and county aforesaid, do certify that Paul W. Sturm, whose name is signed to the writing above, bearing date the 10 day of November, 1982, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 10 day of November, 1982.

My term of office expires on the 19 day of March, 1986.

[NOTARIAL SEAL]

Sheri S. Tackett
Notary Public

02/16/2024

C10



Kanawha Valley Bank #5

Ashland Exploration, Inc.

SUBSIDIARY OF ASHLAND OIL, INC.

P. O. BOX 391 • ASHLAND, KENTUCKY 41101 • (606) 329-3333

EASTERN REGION

CERTIFICATE OF SERVICE

I hereby certify that I have this day served Form IV-48 WC (state application for well classification) of the state of West Virginia Department of Mines, Oil and Gas Division, on the purchaser of gas attributable to this application by certified mail, return receipt requested in accordance with the requirements of the West Virginia Administrative Regulations.

Dated at Ashland, Kentucky, this 10 day of November, 1982.

Paul W. Sturm

Paul W. Sturm

Region Manager

For

Ashland Exploration, Inc.

02/16/2024

PARTICIPANTS:

DATE: MAR 10 1983

BUYER-SELLER CODE

WELL OPERATOR: Ashland Exploration, Inc.

023608

FIRST PURCHASER: Columbia Gas Trans. Corp.

004030

OTHER: Uncommitted

Devonian Shale

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

921110-107-039-3860

Use Above File Number on all Communications
Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. 6.0, 7.0, 8.0
- 2. IV-1 Agent Forrest Burkett
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- (5) Oil Production: _____ From Completion Report _____
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed? Notarized?

02/16/2024

Does official well record with the Department confirm the submitted information? yes

Additional information _____ Does computer program confirm? _____

Was Determination Objected to _____ By Whom? _____

7B

<p>1.0 API well number: (If not available, leave blank. 14 digits.)</p>	<p>47-039-3860</p>						
<p>2.0 Type of determination being sought: (Use the codes found on the front of this form.)</p>	<p>107 Section of NGPA</p>		<p>Devonian Shale 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>6820 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>Ashland Exploration, Inc. Name P.O. Box 391 Street Ashland City</p>		<p>KY State</p>	<p>41114 Zip Code</p>	<p>023608 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>Paint Creek Field Name Kanawha County WV State</p>						
<p>(b) For OCS wells:</p>	<p>N/A Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number</p>						
<p>(c) Name and identification number of this well: (35 letters and digits maximum.)</p>	<p>Kanawha Valley Bank #5 - 093272</p>						
<p>(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)</p>	<p style="color: red; font-size: 2em;">093271</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>N/A Name Buyer Code</p>						
<p>(b) Date of the contract:</p>	<p>Mo. Day Yr.</p>						
<p>(c) Estimated annual production:</p>	<p>27 MMcf.</p>						
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)			
<p>7.0 Contract price: (As of filing date. Complete to 3 decimal places.)</p>	---	N/A	---	---			
<p>8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)</p>	---	D E R E G U L A T E D		---			
<p>9.0 Person responsible for this application:</p>	<p>Dorothy A. Lewis Name Natural Gas Regulatory Compliance Coordinator Title</p>						
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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date November 10 1982

Operator's Well No. 093272

API Well No. 039 - 3860
State West Virginia Permit 093271

KANAWHA VALLEY BANK #5

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

DESIGNATED AGENT Forrest Burkett
ADDRESS P. O. Box 156
Brenton, WV 24818

WELL OPERATOR Ashland Exploration, Inc. LOCATION Elevation 2094.7
ADDRESS P. O. Box 391 Tenmile Fork of Cabin Cr. of
Ashland, KY 41114 Watershed Kanawha River
Dis Cabin Cr County Kanawha Road Dorothy

GAS PURCHASER N/A Gas Purchase Contract No. _____
ADDRESS _____ Meter Chart Code N/A
Date of Contract _____

Date surface drilling began: 6/20/82

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

SIP = 475 psi (489.7 psia)
Midpoint = 5364
BHP = .25 ($\frac{489.7}{100} \times \frac{5364}{100}$) + 489.7 = 555.37 psia

Devonian Shale AFFIDAVIT

I, Paul W. Sturm, 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 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 W. Sturm

STATE OF KENTUCKY
COUNTY OF BOYD, TO WIT:

I, Sheri S. Tackett, a Notary Public in and for the state and county aforesaid, do certify that Paul W. Sturm, whose name is signed to the writing above, bearing date the 10 day of November, 1982, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 10 day of November, 1982.
My term of office expires on the 19 day of March, 1986.

Sheri S. Tackett
Notary Public

[NOTARIAL SEAL]

02/16/2024

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

Operator: Ashland Exploration, Inc. Agent: Forrest E. Burkett

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 039-3860 Well Name: Kanawha Valley Bank No. 5

West Virginia Office of Oil and Gas County: Kanawha

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 = 150 * API Units

2. Remarks:

Shown @ 3700'-3800'

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

1. GR Value = 105 * API Units

2. Calculation: $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{150} \text{ *)} = \underline{105} \text{ API Units}$

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***		
3918'	6812'	2894'	13'

Total Devonian Interval 2894'

Total Less Than 0.7 (Shale Base) 13'

% Less Than 0.7 (Shale Base Line) = $\frac{13}{2894} \times 100 = \underline{0.4} \%$

*Marked on log included with analysis.

**Top of Devonian Section Recorded on First Interval in this Column.

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

02/16/2024

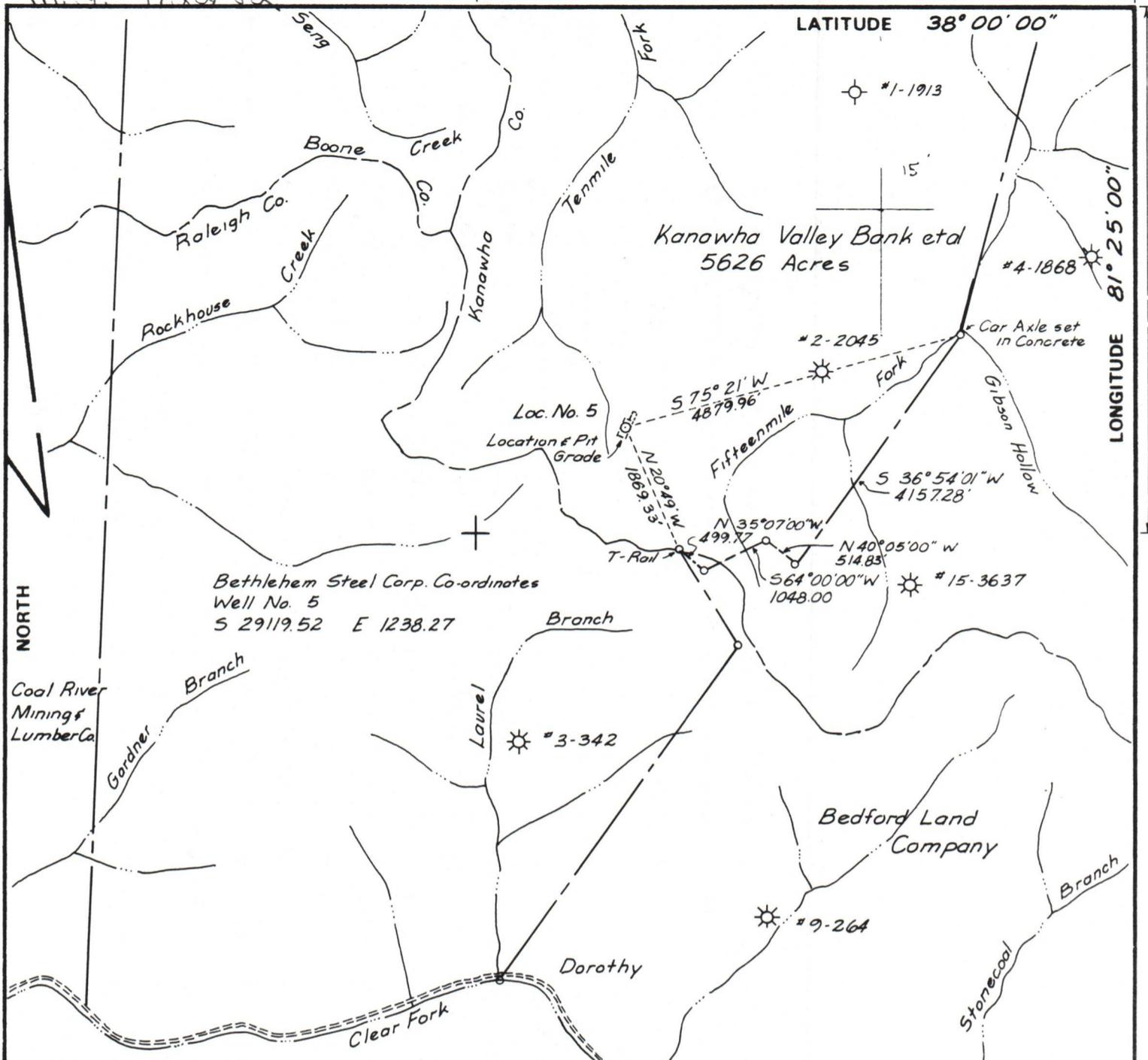
[Handwritten signature]

NOV 10 1985

02/16/2024

M.S. 4/22/82

9080'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 6140
 PROVEN SOURCE OF ELEVATION USC & GS BM on Kayford Mountain Elev 2402

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) Forrest Burkett
 R.P.E. 1442 L.L.S. _____

PLACE SEAL HERE

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

FORM IV-6
(8-78)



DATE April 20, 1982
 OPERATOR'S WELL NO. #5 - Ser# 093271
 API WELL NO. _____
47 - 039 - 3860
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

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

LOCATION: ELEVATION 2094.7 WATER SHED Tenmile Fork of Cabin Creek of Kanowha River
 DISTRICT Cabin Creek COUNTY Kanawha
 QUADRANGLE Dorothy

SURFACE OWNER Kanowha Valley Bank et al ACREAGE 5500+
 OIL & GAS ROYALTY OWNER Kanowha Valley Bank et al LEASE ACREAGE 5626
 LEASE NO. 10306

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION Marcellus Shale ESTIMATED DEPTH 6759'
 WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391 Ashland Ky 41114 ADDRESS P.O. Box 156 Brenton WVa. 24818

02/16/2024



STATE OF WEST VIRGINIA
OIL AND GAS CONSERVATION COMMISSION
CHARLESTON 25305

April 26, 1982

Mr. Thomas E. Huzzey, Administrator
Department of Mines
Office of Oil and Gas

RE: APPLICATION FOR PERMIT #47-039-3860 TO DRILL DEEP WELL

COMPANY: ASHLAND EXPLORATION, INC.

FARM: KANAWHA VALLEY BANK ET AL

COUNTY: KANAWHA DISTRICT: CABIN CREEK

The application of the above company is APPROVED FOR MARCELLUS SHALE COMPLETION
(APPROVED - DISAPPROVED)

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

1. *Provided a certified copy of duly acknowledged and recorded consent and easement from all surface owners; Yes*
2. *Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and, ***
3. *Provided a plat showing that the proposed location is a distance of 1869 feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3000 feet of the proposed location: None*

**
47-081-0342 - 4700'

Very truly yours,

Thomas E. Huzzey
Commissioner

TEH/rf

02/16/2024

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Ray Resources Drilling Company

Address 630 Commerce Square

Charleston, WV 25301

GEOLOGICAL TARGET FORMATION Marcellus Shale

Estimated depth of completed well 6759 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, feet; salt, Top of feet.
Approximate coal seam depths: 665' coal seam Salt Sand
Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drilling	Left in Well		
Conductor	13 3/8	H40	48.00	X		40'	40'	25 sks	Kinds
Fresh water									Sizes
Coal									
Intermed.	8 5/8	K55	24.00	X		2274	2274	Circ. to surface	
Production	4 1/2	K55	10.50	X		6759	6759	As Needed	Depths set
Tubing									Perforations:
Liners									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or drilling within 200 feet of the proposed well.
A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling **. THIS PERMIT SHALL EXPIRE**
IF OPERATIONS HAVE NOT COMMENCED BY 1-5-83
BY [Signature]

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 receipt thereof:

W A I V E R

The undersigned coal operator X / owner / lessee X / 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: April 30, 1982.

Bethlehem Mines Corporation
By: [Signature]
Its: Manager

02/16/2024

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

Date November 10, 19 82

Operator's Well No. 093272

API Well No. 47 - 039 93271
State County Permit

Previous File No. (If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR ASHLAND EXPLORATION, INC. DESIGNATED AGENT Forrest Burkett
ADDRESS P. O. BOX 391 P. O. BOX 156
ASHLAND, KY 41114 Brenton, WV 24818

Gas Purchase Contract No. N/A and Date _____ (Month, day and year)

Meter Chart Code N/A

Name of First Purchaser N/A

(Street or P. O. Box) (City) (State) (Zip Code)

FERC Seller Code 023608

FERC Buyer Code _____

Devonian Shale
Category Code

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Section of NGPA 107
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Paul W. Sturm
Name (Print)

Region Manager
Title

Paul W. Sturm
Signature

P.O. Box 391
Street or P. O. Box
Ashland, KY 41114
City State (Zip Code)

606 329-5738
Area Code Phone Number

Kanawha Valley Bank #5

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request, for certification of the above described well as meeting the requirements of Section _____ under the Natural Gas Policy Act of 1978, (NGPA); or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA).

All interested parties are hereby notified that on the _____ day of _____, 19____, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard, there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. _____

Initial review of information submitted indicates the well is, is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

WEST VIRGINIA DEPARTMENT OF MINES

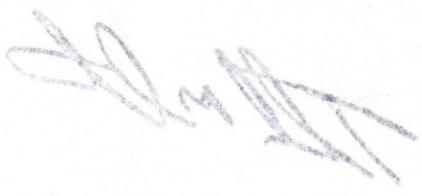
NOV 10 1982

Date received by
Jurisdictional Agency _____

By [Signature]
Title _____

02/16/2024

NOV 10 1985

A handwritten signature in blue ink, appearing to be 'M. J. ...'.

02/16/2024