

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 10-19-80

Date: February 4, 1980

Operator's

Well No. A-867

API Well No. 47-083-0305

State Co. Permi

Robert S. Stewart
Deputy Director - Oil & Gas Division

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas XX /
(If "Gas", Production / underground storage / Deep / ShallowXX /

LOCATION: Elevation: 2468' Watershed: Middle Fork River
District: Roaring Ck County: Randolph Quadrangle: Cassity 7.5'

WELL OPERATOR ALLEGHENY LAND & MINERAL CO. Designated Agent ALLEGHENY LAND & MINERAL CO.
Address P.O. Box 1740 CLARKSBURG, WV 26301 Address: P.O. BOX 1740 CLARKSBURG, WV 26301

OIL & GAS ROYALTY OWNER G. H. Norvell, etux, etal
Address St. Albans, WV 25177

COAL OPERATOR
address

Acreage 440
SURFACE OWNER G. H. Norvell, etux, etal
Address St. Albans, WV 25177

Coal Owner(s) With Declaration On Record:
NAME Cora Wilda Osborn
Address c/o James LaRosa
420 Buckhannon Pike
Clarksburg, WV 26301

Acreage 440
FIELD SALE (IF MADE) TO:
Name Columbia Gas Transmission Corp.
Address P. O. Box 498
Washington, PA 15301

NAME
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert S. Stewart
Address P. O. Box 345
Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:
NAME
Address FEB - 5 1980

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease XX / other contract dated August 14, 1972, to the undersigned well operator from G. H. Norvell, etux, etal unto Allegheny Land and Mineral Company.

Recorded on August 22, 1972, in the office of the Clerk of the County Commission of Randolph County, West Virginia, in Deed book 278 at page 523. A permit is requested as follows:

PROPOSED WORK: Drill XX / DRILL DEEPER / REDRILL / FRACTURE OR STIMULATE / 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 S 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

ALLEGHENY LAND & MINERAL COMPANY
Well Operator: 03/29/2024

By Daniel L. Wheeler
Vice President

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING COMPANY
 Address P.O. BOX 40
BUCKHANNON, WEST VIRGINIA 26201

GEOLOGICAL TARGET FORMATION, ELK
 Estimated depth of completed well, 5100 feet Rotary XX / Cable tools /
 Approximate water strata depths: Fresh, 416 feet; salt, feet.
 Approximate coal seam depths: 313 - 314 is coal being mined in the area?
 Yes / No XX /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SIZE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS		
		GRADE	Weight Per ft.	New	Used	For drilling	left in well	(cubic ft.) Packers
Conductor	16"				X	20'	20'	cement to surface kinds
Fresh Water	8-5/8"							
Coal	8-5/8"		20#	X		600'	600'	cement to surface sizes
Intermediate								
Production	4 1/2"		J 55 10.50#	X		5100'	5100'	cement to 300' above producing horizon depths set
Tubing								
Liners								performations: 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 S 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code S 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code S 22-4-12a, and (v) if applicable, the consent required by Code S 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 S 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

03/29/2024

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

Date: February 4, 1980

Operator's Well No. A-867

API Well No. 47 - 083 -
State County Permit

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

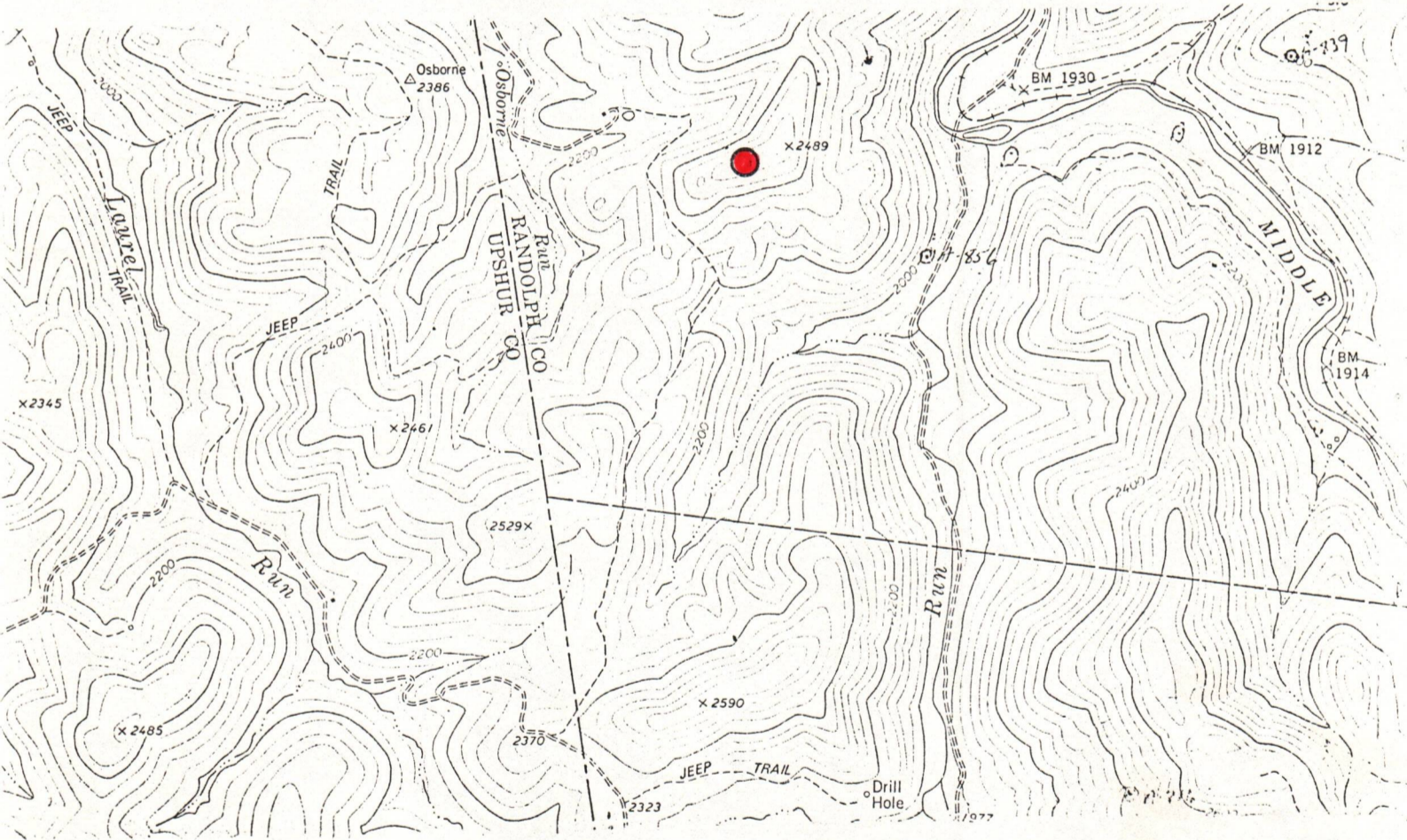
RECLAMATION PLAN

WELL OPERATOR Allegheny Land & Mineral Co DESIGNATED AGENT Allegheny Land & Mineral
Address P. O. Drawer 1740 Address P. O. Drawer 1740
Clarksburg, WV 26301 Clarksburg, WV 26301

The well operator hereby agrees to carry out the reclamation requirements of Code § 22-4-12b in the manner set out below.

This plan has / has not XX / been reviewed with the district oil and gas inspector.

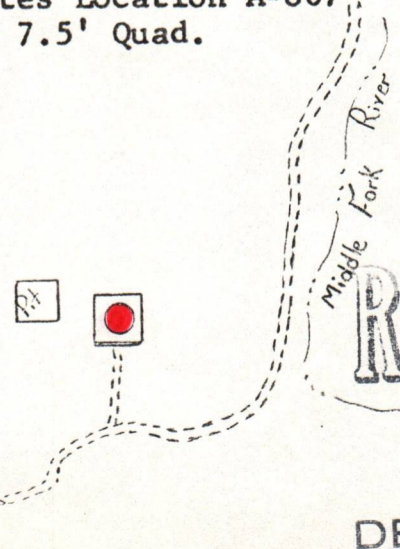
SKETCH: (Locate and show the (1) well location, (2) existing access road, (3) access road to be constructed, (4) well site, (5) drilling pit(s), and (6) necessary drainage features, including drains (natural and manmade), silt traps, etc.)



STATEMENT OF RECLAMATION PLAN (Complete on reverse side if necessary)

● Designates Location A-867
Cassity 7.5' Quad.

Location will be ditched to disperse water without causing erosion. Road will be culverted to prevent erosion and provide for proper drainage where needed. After well is completed, surface will be restored to its original contour or as near as possible to its original contour. Area will then be seeded and mulched down.



RECEIVED

FEB - 5 1980

Daniel L. Wheeler

03/29/2024

OIL & GAS DIVISION
DEPT. OF MINES

ALLEGHENY LAND & MINERAL COMPANY
Well Operator

By Daniel L. Wheeler
Daniel L. Wheeler
Vice President

[08-78]

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

Well was fractured April 17, 1980 by Dowell.

Perforations: 2005 - 2036' - 18 holes

3720 - 3745' - 16 "

4895 - 4908' - 16 "

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	290	Water - 1" stream @ 70'
COAL *****			290	295	COAL *****
Sand			295	690	
Sand & Shale			690	1212	
Big Lime			1212	1371	
Injun Sand			1371	1412	
Sand & Shale			1412	1630	
Gordon Sand			1630	1658	
Sand & Shale			1658	1916	
4th Sand			1916	1929	
Sand & Shale			1929	2004	
5th Sand			2004	2046	
Sand & Shale			2046	2260	
Speechly Sand			2260	2278	
Sand & Shale			2278	3512	
Riley Sand			3512	3525	
Sand & Shale			3525	3720	
Benson Sand			3720	3758	
Sand & Shale			3758	4886	
Elk Sand			4886	4911	
Shale			4911	5200	
		total depth		5200	(Driller)

(Attach separate sheets to complete as necessary)

Alleghey Land & Mineral Company

Well Operator

By Claron Dawson

Its Supt.

03/29/2024

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 DIVISION

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

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

LOCATION: Elevation: 2468' Watershed: Middle Fork River

District: Roaring Creek County: Randolph Quadrangle: Cassity 7.5'

WELL OPERATOR ALLEGHENY LAND & MINERAL CO.

DESIGNATED AGENT ALLEGHENY LAND & MINERAL CO.

Address P. O. BOX 1740
CLARKSBURG, W. VA. 26301

Address P. O. BOX 1740
CLARKSBURG, W. VA. 26301

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON February 4, 19 80

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Robert S. Stewart

Address P. O. Box 345

_____, 19 _____

Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Elk Depth 5100 feet

Depth of completed well, 5200 feet Rotary / Cable Tools _____

Water strata depth: Fresh, 70 feet; salt, _____ feet.

Coal seam depths: 290-295' Is coal being mined in the area? _____

Work was commenced April 6, 19 80, and completed April 10, 19 80

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			
Conductor	11-3/4"			x		20'	0	Kinds
Fresh water	8-5/8"							
Coal	8-5/8"			x		1024'	1024'	Cemented to surface
Intermediate								
Production	4 1/2"			x		4980'	4980'	" " Depth 1700'
Tubing								
Liners								Perforations: Top Bottom

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MAY 13 1980

OPEN FLOW DATA

4th Sand

OIL & GAS DIVISION ---

1916-1929'

Producing formation Benson Sand DEPT. OF MINES Pay zone depth 3720-3758 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d

All sands ---- Final open flow, 1,750 Mcf/d Final open flow, _____ Bbl/d

Time of open flow between initial and final tests, _____ hours

Static rock pressure, 640# psig (surface measurement) after 36 hours shut in

[If applicable due to multiple completion--]

Second producing formation Elk Sand Pay zone depth 4886-4911 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d

Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d

Time of open flow between initial and final tests, _____ hours

Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

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

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APR - 8 1980

INSPECTOR'S WELL REPORT OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 083-0305

Oil or Gas Well GAS
(KIND)

Company <u>Allegheny Land & Min</u>	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Address <u>CLARKSBURG</u>	Size			
Farm <u>G. H. Norvell</u>	16			Kind of Packer
Well No. <u>A-867</u>	13			
District <u>BOARING CREEK</u> County <u>RANDOLPH</u>	10			Size of
Drilling commenced <u>4-4-80</u>	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 Union DRIG RiG 8

Remarks:

Move RiG SPD

4-4-80
DATE

Robert Schuch 03/29/2024 511
DISTRICT WELL INSPECTOR

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

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SEP 8 - 1981

INSPECTOR'S WELL REPORT OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Permit No. 083-0305

Oil or Gas Well GAS
(KIND)

Company <u>ALLEGHENY LAND & MIN</u>	CASING AND TUBING	USED IN DRILLING	Left in well	PACKERS
Address <u>CLARKSBURG</u>	Size			
Farm <u>G. H. NORVELL</u>	16			Kind of Packer
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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:
O.K. To Release

9-3-81
DATE

Robert St... 511
08/29/2024
DISTRICT WELL INSPECTOR



State of West Virginia

Department of Mines
Oil and Gas Division

Charleston 25305

January 25, 1982

WALTER N. MILLER
DIRECTOR

Allegheny Land & Mineral Company
P. O. Box 1740
Clarksburg, West Virginia 26301

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

<u>PERMIT NO.</u>	<u>FARM AND WELL NO.</u>	<u>DISTRICT</u>
RAN-0286	Neva McMullan/Westvaco #A-844	Roaring Creek
RAN-0290	Neva McMullan/Westvaco #A-840	Middle Fork
RAN-0291	Robert E. Maxwell, et al #A-859	Middle Fork
RAN-0305	G. H. Norvell, et al #A-867	Roaring Creek
RAN-0306	Coastal Lumber Co./M. Ross et al #A-852	Middle Fork
RAN-0307	G. H. Norvell, et ux #A-888	Roaring Creek
RAN-0311	Mary K. Hedrick #A-868	Roaring Creek
RAN-0317	Lucian R. Whitmor #A-873	Roaring Creek
RAN-0318	Lucian R. Whitmore #A-896	Roaring Creek
RAN-0337	J. C. Michaels Heirs #A-895	Roaring Creek
RAN-0339	Neva McMullan, exec #A-903	Middle Fork
RAN-0342	Neva McMullan, exec #A-902	Middle Fork

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved.....

Very truly yours,

Fred Burdette