

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, 5500 feet Rotary XX / Cable tools /
 Approximate water strata depths: Fresh 346, 408 feet; salt, feet.
 Approximate coal seam depths: 616-618 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 (cubic ft.)		Packers
		GRADE	Weight Per ft.	New	Used	For drilling	left in well		
Conductor	16"				X	20'	20'	cement to surface	kinds
Fresh Water	8-5/8"								
Coal	8-5/8"		20#	X		700'	700'	cement to surface	sizes
Intermediate									
Production	4 1/2"		J 55 10.50#	X		5500'	5500'	cement to 300' above producing horizon	depths set
Tubing									
Liners									perfor- ations: 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. **THIS PERMIT MUST BE POSTED AT THE WELL SITE. All provisions being in accordance with the Code of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 6-17-81.**

J. E. Huzey
 Deputy Director Oil & Gas Division

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

The undersigned coal operator / owner / lessee / of the 03/22/2024 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.

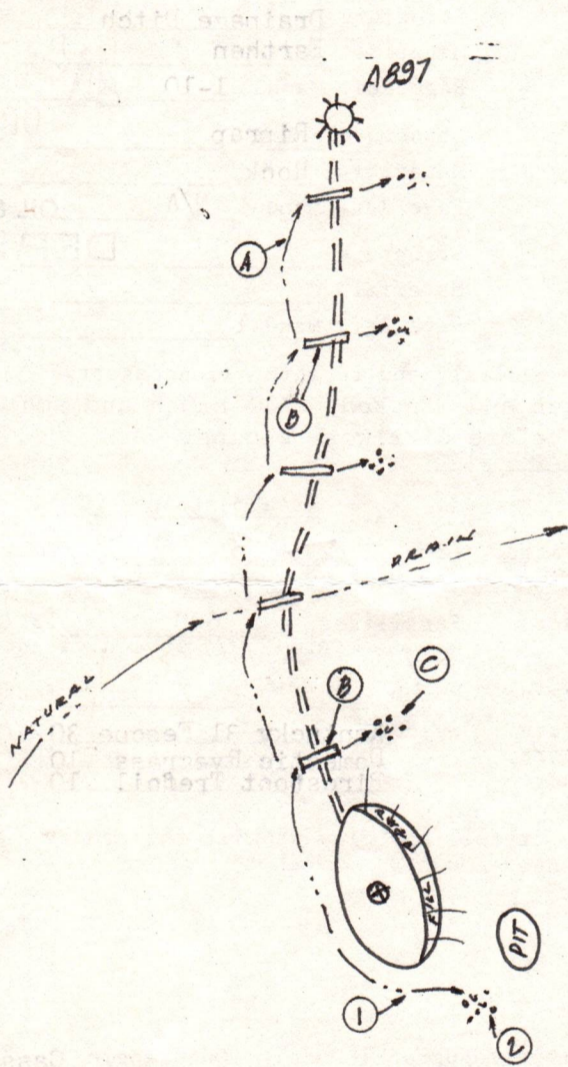
Date: 19

By

Well Site Plan

- Legend:
- Property Boundry
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch
 - Diversion
 - Spring
 - Wet Spot
 - Building
 - Drain Pipe
 - Waterway

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



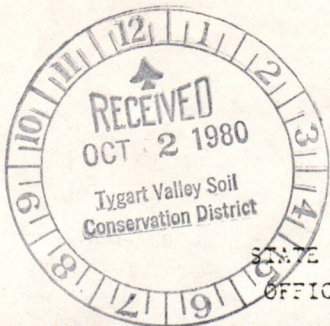
Comments: Slope of access road 5% -- Cuts to be on a 2:1 slope or less --
Access road subject to change by company or landowner -- All ditches and culverts
will be maintained after construction is completed -- Reclamation to be performed
by Halls Reclamation, Inc.

Signature: J. Leonard Cullen P.O. Box 1740, Clarksburg, W.Va. 623-6671
 Agent Address Pn 03/22/2024

Please request landowners cooperation to protect new seeding for one growing season.

Arnold

Form IV-9
(31-80)



Date 9-29 19 80
Well No. A-920
API No. 47 - 083 - 0367
State County Permit

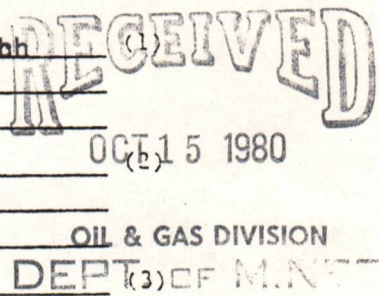
STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name Allegheny Land & Mineral Co Designated Agent J. Ronald Cullen
Address P.O. Box 1740, Clarksburg, W.V. Address P.O. Box 1740, Clarksburg, W.V.
Telephone 623-6671 Telephone 623-6671
Landowner Rebecca A. Arnold et al Soil Cons. District Tygart Valley
Revegetation to be carried out by Halls Reclamation, Inc. (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan. 10/8/80 (Date) Jean Freeman (SCD Agent) Junia Hedrick

Access Road
Structure Drainage Ditches (A)
Spacing Earthen
Page Ref. Manual 1-10
Structure Culverts (B)
Spacing 12" Min. I.D.
Page Ref. Manual 1-8
Structure Riprap (C)
Spacing Rock
Page Ref. Manual N/A

Location
Structure Drainage Ditch (1)
Material Earthen
Page Ref. Manual 1-10
Structure Riprap (2)
Material Rock
Page Ref. Manual N/A
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. All brush and small timber to be cut and removed from site before dirt work begins.
Revegetation

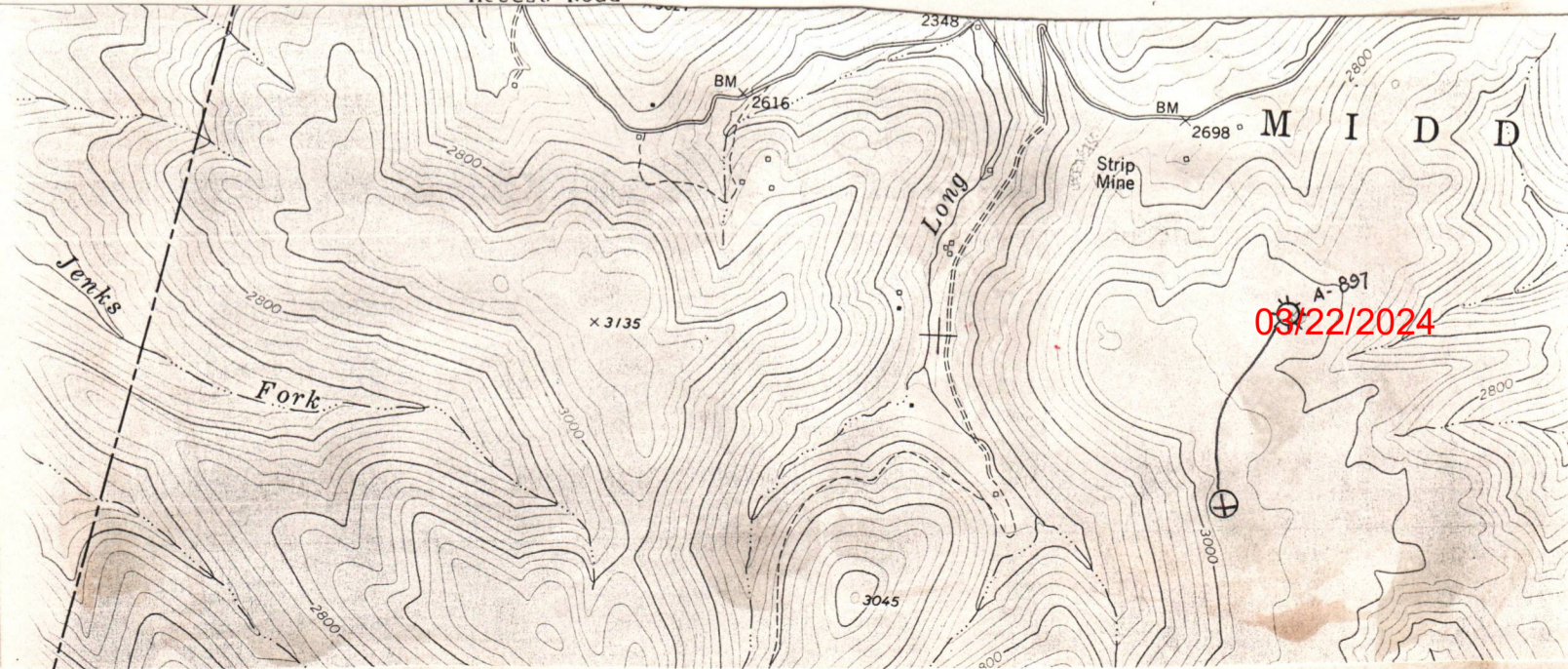
Treatment Area I
Lime 2.5 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Straw 2 Tons/Acre
Seed* Kentucky 31 Fescue 30 lbs/acre
Domestic Ryegrass 10 lbs/acre
Birdsfoot Trefoil 10 lbs/acre

Treatment Area II
Lime 2.5 3 Tons/Acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Straw 2 Tons/Acre
Seed* Kentucky 31 Fescue 30 lbs/acre
Domestic Ryegrass 10 lbs/acre
Birdsfoot Trefoil 10 lbs/acre

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

Attach or photocopy section of involved Topographic map. Quadrangle Cassity 7.5

Legend: Well Site
 Access Road



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

Well was fractured 12-30-80 by Halliburton.

Perforations: 2151 - 2156' - 16 holes

2335 - 2341' - 16 "

5279 - 5291' - 16 "

WELL LOG

FORMATION	Color	Hard or Soft	8/ Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Soil			0	3	
Sand & Shale			3	730	Water - ½" stream @ 40'
COAL *****			730	734	Coal *****
Sand & Shale			734	1532	Water - 1" stream @ 860'
Big Lime			1532	1692	
Injun Sand			1692	1734	
Sand & Shale			1734	2150	
Gordon Sand			2150	2158	
Sand & Shale			2158	2330	
4th Sand			2330	2360	
Sand & Shale			2360	2428	
5th Sand			2428	2442	
Sand & Shale			2442	2652	
Speechly Sand			2652	2664	
Sand & Shale			2664	3762	
Riley Sand			3762	3772	
Sand & Shale			3772	3940	
Benson Sand			3940	3952	
Sand & Shale			3952	5257	
Elk Sand			5257	5291	
Shale			5291	5517	
			Total depth	5517	(Driller)

(Attach separate sheets to complete as necessary)

Allegheny Land & Mineral Company

Well Operator

By Claron Dawson

Its Supt.

03/22/2024

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."

Date: February 11, 19 81

Operator's
Well No. A-920

API Well No. 47 - 083 - 0367
State County Permit

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

WELL OPERATOR'S REPORT 81
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: 3043' Watershed: Pleasant Run
District: Middle Fork County: Randolph Quadrangle: Cassity 7.5'

WELL OPERATOR ALLEGHENY LAND & MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND & MINERAL CO.
Address P. O. BOX 1740 Address P. O. BOX 1740
CLARKSBURG, W. VA. 26301 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 September 22, 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
Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Elk Sand Depth 5500 feet

Depth of completed well, 5517 feet Rotary / Cable Tools

Water strata depth: Fresh 40,860 feet; salt, _____ feet.

Coal seam depths: 730-734' Is coal being mined in the area?

Work was commenced December 11, 19 80, and completed December 17, 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	For drilling		
Conductor	11-3/4"			x		16 1/2'	0	Kinds
Fresh water	8-5/8"							
Coal	8-5/8"			x		1120'	1120'	Cemented to surface
Intermediate								
Production	4 1/2"			x		5396'	5396'	1796' Depths set
Tubing								
Liners								Perforations: Top Bottom

RECEIVED
FEB 24 1981

OPEN FLOW DATA

Producing formation Gordon Sand 4th Sand Pay zone depth 2150-2158' 2330-2360 feet

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

All sands -- Final open flow, 1,517 Mcf/d Final open flow, _____ Bbl/d

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

Static rock pressure, 520# psig (surface measurement) after 18 hours shut in

[If applicable due to multiple completion--]

Second producing formation Elk Sand Pay zone depth 5257-5291 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

(Continue on reverse side)

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

RECEIVED

DEC 15 1980

OIL & GAS DIVISION
DEPT. OF MINE

INSPECTOR'S WELL REPORT

Permit No. 083-0367

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			
Form <u>REBECCA ARNOLD</u>	16			Kind of Packer
Well No. <u>A-920</u>	13			
District <u>MIDDLE FORK</u> County <u>RANDOLPH</u>	10			Size of
Drilling commenced <u>12-11-80</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 -11

Remarks:

move Rig SPD

12-12-80

Robert Stewart

03/22/2024

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

INSPECTOR'S WELL REPORT

Permit No. 083-0367

Oil or Gas Well GAS
(KIND)

Company Allegheny Land & Min
 Address CLARKSBURG
 Farm REBECCA ARNOLD
 Well No. A-920
 District MIDDLE FORK County RANDOLPH
 Drilling commenced 12-11-80
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 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
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

RECEIVED

APR 19 1982

Remarks:

O.K. To Release

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

4-16-82

DATE

Robert Stewart 54
03/22/2024
DISTRICT WELL INSPECTOR



State of West Virginia

Department of Mines
Oil and Gas Division

Charleston 25305

WALTER N. MILLER
DIRECTOR

May 24, 1982

Allegheny Land & Mineral Company
P. O. Drawer 1740
Clarksburg, W. Va. 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-0367	Rebecca A. Arnold, et al, #A-920	Middle Fork
RAN-0368	Neva McMullan, exec., #A-935	Middle Fork
RAN-0437	Coastal Lumber Co., #A-962	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

A-920

MAR 23 1981

1.0 API well number: (If not available, leave blank. 14 digits.)	47-083-0367						
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA		N/A Category Code				
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5517 feet						
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Allegheny Land & Mineral Co. Name P.O. Drawer 1740 Street Clarksburg, W City		000333 Seller Code W.Va. 26301 State Zip Code				
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Middle Fork Field Name Randolph County		District W.Va. State				
(b) For OCS wells:	N/A Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number						
(c) Name and identification number of this well: (35 letters and digits maximum.)	A - 920						
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	Gordon - 4th						
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corp. Name		004030 Buyer Code				
(b) Date of the contract:	N/A Mo. Day Yr.						
(c) Estimated annual production:	Not in line! MMcf.						
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)			
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	2.406	0.240	0.240	2.886			
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.406	0.240	0.240	2.886			
9.0 Person responsible for this application:	Daniel L. Wheeler Vice-Pres. Land Dept. Name Title Signature 3-20-81 304-623-6671 Date Application is Completed Phone Number						
<table border="1"> <tr> <td>Agency Use Only</td> </tr> <tr> <td>Date Received by Juris. Agency MAR 23 1981</td> </tr> <tr> <td>Date Received by FERC</td> </tr> </table>	Agency Use Only	Date Received by Juris. Agency MAR 23 1981	Date Received by FERC				
Agency Use Only							
Date Received by Juris. Agency MAR 23 1981							
Date Received by FERC							

03/22/2024

PARTICIPANTS:

DATE:

JUN 24 1981

BUYER-SELLER CODE

WELL OPERATOR:

Allesheny Land + Mineral Co.

000333

FIRST PURCHASER:

Columbia Gas Trans. Corp.

004030

OTHER:

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
81-3-23-103-083-0367
 Use Above File Number on all Communications
 Relating to Determination of this Well

ck map 1500'

~~HC GOR~~

Qualifies J. H. Huggins

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No.
- 2. IV-1 Agent James B. Gehr
- 3. IV-2 Well Permit
- 4. IV-6 Well Plat
- 5. IV-35 Well Record Drilling Deepening
- 6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced? Ratio
- 7. IV-39 Annual Production years
- 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: 12-11-80 Date completed 12-17-80 Deepened
- (5) Production Depth: 2150-58, 2330-60, 5251-91
- (5) Production Formation: Gordon, 4th, Elk
- (5) Final Open Flow: 1517 mcf
- (5) After Frac. R. P. 520# 18 hrs.
- (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 Report
- (5) Oil Production: From Completion Report
- 0-17. Does lease inventory indicate enhanced recovery being done IVO
- 0-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information?
- Additional information Does computer program confirm?
- Was Determination Objected to By Whom?

03/22/2024

5

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

Date 3-20 1981

Operator's Well No A-920

API Well No. 47 - 083 - 0367
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Allegheny Land & Mineral Co.

ADDRESS P.O. Drawer 1740

Clarksburg, W.Va. 26301

WELL OPERATOR Allegheny Land & Mineral Co.

ADDRESS P.O. Drawer 1740

Clarksburg, W.Va. 26301

LOCATION: Elevation 3043'

Watershed Pleasant Run

Dist Middle Fork County Randolph Quad Cassity 7.5'

GAS PURCHASER Columbia Gas Transmission Corp

ADDRESS 1700 MacCorkle Ave. S.E.

Charleston, W.Va. 25314

Contract No. N/A

Meter Chart Code _____

Date of Contract A

* * * * *

Date surface drilling was begun: 12-11-80

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

Rock Pressure was 520 # PSIG at the surface.

AFFIDAVIT

I, James B. Gehr, 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.

James B. Gehr

President
Allegheny Land & Mineral Co.

STATE OF WEST VIRGINIA,

COUNTY OF Harrison, TO WIT:

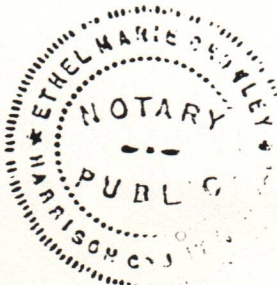
I, Ethel Marie Crowley, a Notary Public in and for the state and county aforesaid, do certify that James B. Gehr, whose name is signed to the writing above, bearing date the 20th day of March, 1981, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 20th day of March, 1981.

My term of office expires on the 20th day of December, 1989.

[NOTARIAL SEAL]

Ethel Marie Crowley
Notary Public
Ethel Marie Crowley



03/22/2024