#### 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

drilling \_\_\_\_. This permit shall expire if



APR 2 9 1981

operations have not commenced by

DEPARTMENT OF MINES

OIL & GAS DIVISION DEPT. OF MINES

Deputy Director - Oil & Gas Division

OIL and GAS DIVISION

## OIL AND GAS WELL PERMIT APPLICATION

TO THE	DEPARTMENT OF MINES,					
	Charleston, W. Va.			ril 24, 1981		1
			AL	LEGHENY LAND	O AND MINERAL COMPANY	
	Harry McMullan		Company P.	O. Drawer	1740	all the way
OWNERS:	P. O. Box 8	203 Randolph Avenue	Address CI	arksburg, We	est Virginia 26301	
	Washington, NC 27889	Elkins, WV 26241	Farm Hu	tton	Acres 167	
0/G	Ernest W. Hutton, eta	d .	Location (	waters) Mid	ddle Fork River	T. Kristian
OWNER:	501 S. Ellison Lane		Well No	A-1009	Elevation 2055	L
	Waynesboro, Virginia	22980			County Randolpi	7. 7. 6. 3. 9. 9. 1
COAL	Harry McMullan (addre	ss shown above)		e Cassity	- production of the state of th	
OWNER:						1000
COAL	AMAX Coal Company					
LESSEES:	105 S. Meridan St.					
	Indianapolis, Indiana	46225	INSPECTOR	TO BE Mr.	Robert S. Stewart	
	International Coal Co		NOTIFIED:		0. Box 345	
	International Coal Co Greenbrier Valley Bu!		ADDRESS:	Jan	e Lew, West Virginia 263	378
	119 Washington Street		PHONE:	994	7702	
	Lewisburg, West Virgin	The sale of the sa	PHONE:	004	-7782	
	3,					
GENTLEMEN	V:	1				
etal made	e to Allegheny Land & !	is the case my be) und Mineral Company and re	ecorded on the (not	tated <u>Februa</u>	ry 16, 1981 by Ernest W.	Hutton,
					dy day of	7 1 8 Aug
-	In Randolph NEW WELL					
					FRACTURE OR S	TIMULATE
	OTL AND GAS WELL	ORIGINALLY DRILLED BE	FORE JUNE 5, 1969.		Thoughton outsites	Himmor
The e	enclosed plat was prepa	ared by a registered e	naineer or licensed	l land surve	yor and all coal owners a	and/or
operators	s have been notified as	of the above date.			, and are deal of the same of a	illa/Ol
Tho	above named coal curence					
required	to make by Section 3 of	of the Code. must be r	nereby notified that	at any object	tion they wish to make, o Department of Mines with!	or are
(10) days	*		3301133 57, 51 1116	S WITH THE	Department of Mines with	птеп
Conto	o of this nation and d					
operators	s or coal owners at the	the enclosed plat were	mailed by register	ed mail, or	delivered to the above n	
own the s	same day with the mail!	ng or delivery of thi	s copy to the Depar	tment of Mi	day be nes at Charleston, West V	efore, or
		and the state of the line			nos ar onarreston, west v	irginia.
			Very truly	yours,		
PLEASE SU	BMIT COPIES OF ALL					
	AL LOGS DIRECTLY TO:		(Sign Name)	ALLEGHENY /	AND AND MINERAL COMPANY	
				6/1	milf Than	12.
		Add	ress	BY: /(//	MULLO MULL	W
	OIL AND GAS		of			
	Ington Street, East	Well O	perator	Daniel L. W	Wheeler, Vice President	
	n, West Virginia 304 348-3092 348-3	006		P. 0. Box 1	1740	
n ea code	304 348-3092 348-3	096		Clarksburg,	, West Virginia 26301	
	0.1	conflict to the second of the			and the second of the second o	
*SECT	10N 3 If no object!	ons are filed or found	by the Department	of mines, w	within said period of ten	days
forthwith	Issue to the well ope	rator a permit recition	of mines, to said	proposed to	ocation, the de $03/15/20$	241
ille coal	operators or found the	reto by the department	t and that the same	is approved	d and the well operator as	n made by
to procee	d.			7, 5,50	All the track with	1200
		DI MAGNETE -				
		BLANKET BOND		47	- 083 - 0467 PERMIT	T AUMOSS
'I have re	ead and understand the			4/	PERMI1	T NUMBER
Chapter 22	2, Article 4, Section	12-b and will carry ou	it the specified rea	ulrements."		
Signed by	Alhmink	Manda.				
. 3d by	- Harris W.	MARKEN				

## THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	XXX DRILL	DEEPEN	FRACTURE STIMULATE
DRILLING CONTRACTOR: (If Known	1)	RESPONSIBLE AGENT:	
NAME: Union Drilling Compa	iny	NAME: Allegheny	Land and Mineral Company
ADDRESS: P. O. Drawer 40		ADDRESS: P. O. Draw	wer 1740
Buckhannon, West Vir	ginia 26201	Clarksburg	g, West Virginia 26301
TELEPHONE: 304-472-4610		Telephone: 304-623-66	571
ESTIMATED DEPTH OF COMPLETED WE	5200'		CABLE TOOLS
PROPOSED GEOLOGICAL FORMATION _			
		MD STOPACE	DISPOSAL
TYPE OF WELL: OIL			
	RECYCL ING		OTHER
TENTATIVE CASING PROGRAM.			
TENTATIVE CASING PROGRAM:	1 1 (as otherwise)		Take parell, Marrial VA
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP
SIZE	DRILLING	WELL	OR SACKS - CUBIC FT.
20 - 16	201	20'	cement to surface
13 - 10			
9 - 5/8		7001	cement to surface
8 - 5/8	700'	700 1	cement to surface
7			
5 1/2	5200'	5200'	cement to 300' above
4 1/2	)200 · · · · · · · · · · · · · · · · · ·	7200	producing horizon
3			Perf. Top Perf. Bottom
2 Liners			Perf. Top
			Perf. Bottom
		SALT WATER	FEET
APPROXIMATE FRESH WATER DEPTHS		Total III and the said of the said the	example assets.
APPROXIMATE COAL DEPTHS			Table to Transport of Filterior of State
IS COAL BEING MINED IN THE ARE	A? NO	BY WHOM?	s serveperotive to puse, to
TO DRILL:		The state of the s	distance of a little
SUBMIT FIVE (5) COPIES OF			
SUBMIT FIVE (5) COPIES OF			
TO DRILL DEEPER OR REDRILL:	. 264	p. 1990 a. This etc. To rate	The Talk He
SUBMIT FIVE (5) COPIES OF	OG - 1. SHOWING ORIGINAL P	ERMIT NUMBER AND PERFORMAN	NCE BOND. ON WELLS DRILLED PRIOR
TO 1929, A PERMANENT COPY	OF THE PLAT AND THE ORIGIN	AL WELL RECORD MUST ALSO	BE SUBMITTED.
TO FRACTURE - STIMULATE:			memory (theothermoveds off)
OIL AND/OR GAS WELL ORIG	OBLICINAL WELL BECORD	6, 1929, FIVE (5) COPIES OF	G - 1, PERFORMANCE BOND, PERMANEN
			150 00 1 CHOWING ORICINAL
OIL AND/OR GAS WELL ORIG	INALLY DRILLED ON AND/OR AFT	ER JUNE 5, 1929, FIVE COP	IES OG - 1, SHOWING ORIGINAL
PERMIT NUMBER, AND PERFOR	RMANCE BOND.	the second second second second	at Harmond Administration of Section 12
Desired forms must be f	iled within ninety (90) days	s of completion for bond r	elease. Inspector to be notified
twenty-four (24) hours !	n advance.		
Twenty-Tour (247 nours)			10 23 HOSA TEMPO 1828 19
			and the second second second second second second second
		operator if the permit is	to be issued within ten days of
	at be completed by the coal of	operator if the permit is	
receipt thereof.			Shirmly fact, medical and
WALVER. I the understaned A	gent for	Coal Company, Ov	wner or Operator of the coal under
this lease have eyam	ined and place on our mine	maps this proposed well ic	ocation.
11113 16036 11040 6701	mitter was the control of the test to	Arran Comment of the Control	settle gas couple this was temperated
All the state of the second			said well be M3/15/2024 this
We the	Coal Con	all rules and regulations	In Articles 4, 5, and 7, Chapter
location, providing 22 of the West Virgi	nia Code.		
22 of the west virgi			
Committee of the second second second		Witness 1	For Coal Company
	# 1 may 1 + 0 m	valar en la cara el transfor	property of the property of the component (for

Official Title

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

## INSPECTOR'S WELL REPORT

Permit No. 033-8	2701				Oil or	Gas Well	AS
Company AlleGH	tery LAND &M	in	CASING AND TUBING	USED IN DRILLING	Leftin	PAC	CKERS
Address C/AR	KSBUR6		Size			A-1	y New York
Farm HARRY	me nuller		16			Kind of Pa	acker
Well No. A-	1009		13				See a report seeker
District MIDDle	FORK County RANDO	OPH	81/4	A - U	N. 1.3 * E	Size of	
Drilling commenced_	8-14-81		65/8			Depth set_	
Drilling completed	Total depth		5 3/16				
Date shot	Depth of shot		2			Perf. botton	
Initial open flow	/10ths Water in	Inch	Liners Used			Perf. top_	
Open flow after tubing	/10ths Merc. in	_Inch				Perf. bottor	m
			CASING CEMEN			_No. FT	Date
	lbs		NAME OF SERV	VICE COMPAN	TY		
	bbls., 1st 2		COAL WAS ENC	COUNTERED A	ATF	EET	INCHES
	feet		FEET_	INCHE	SF	EET	INCHES
Salt water	feet	feet	FEET_	INCHE	SF	EET	INCHES
Orillers' Names	WION RIG						
Remarks:							
110,10	PY SA	DIE					

8-14-81 PATE Robert Ster03H15/2024
DISTRICT WELL INSPECTOR

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

#### INSPECTOR'S PLUGGING REPORT

Permit No				We	II No	1			
COMPANY			ADDRESS						
FARM		DISTRICTCOUNTY							
Filling Material Used				5 1 1 5 1					
Liner Lo	cation	Amount	Packer	Location	- <del>5</del> 5				
PLUGS USED A	AND DEPTH PLACED		BRIDGES	CASIN	G AND TO	BING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST			
			11 27 27 5 2 V com						
A111				- comment	Land Fried Print				
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				# / s					
			· 1000 acc	to control of the second ways	planted (AV)				
:									
						economic le			
Orillers' Names					Sea just to the sea	property and the second			
Remarks:		The second secon	V. 9.74	11600	19 "	esh kari			
				1					
	I horoby matifu I	vicital the about	eve well on this date.						
DATE	r nereby certify I	VISITED THE ADO	wen on this date.						
				ם	03/15/	2024			

## RECEIVED

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

#### INSPECTOR'S WELL REPORT

Permit No. 083 - 046 7	A. S.		Oil or	Gas Well	45
Company AlleG Heny LAND & Min	CASING AND TUBING	USED IN DRILLING	LE T IN	PACK	ERS
Address C/ARKSBURG	Size				
Farm HARRY MENULLEN	16			Kind of Pac	ker
Well No. 4-1009	13				
District MIDDLE FORK County RANDO/P/	10			Size of	
Drilling commenced 8-14-8/	65%			Depth set	
	5 3/16				
Drilling completedTotal depth	3		4	Perf. top	7. 10. 1
Date shotDepth of shot	2			Perf. bottom	
Initial open flow/10ths Water inInch	Liners Used			Perf. top	×
Open flow after tubing/10ths Merc. inInch				Perf. bottom	
Volu.neCu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressurelbshrs.	NAME OF SEE				
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEET	INCHES
Fresh waterfeetfeet		INCH			
Salt waterfeetfeet					
Orillers' Names	FBBI_	1105	Do	FEET	INCHES
Remarks:					1
NITO Release					

7-14-81

Robert Stengan 57

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

### INSPECTOR'S PLUGGING REPORT

Permit No.		omerimental Chronogenicific pour influence en outral bound		We	II No	
COMPANY			ADDRESS			
FARM		DISTRICT	C	OUNTY		
Filling Material Used						12 (18 )
			The same of the sa			
Liner Loc	cation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
			Marine Services			
						39.
			and the second second	3		va PAS
						Sec. 2
	7-10-1	DECTRICAL E		1.0		
rillers' Names						
emarks:						
	I hamahu mantifu I	rigited the above	to well on this data			
DATE	i nereby certify I	visited the abov	ve well on this date.			
					03/15/2	024

DISTRICT WELL INSPECTOR



## State of West Virginia

Department of Mines Gil and Gas Division Charleston 25305

WALTER N. MILLER DIRECTOR

THEODORE M. STREIT ADMINISTRATOR

July 20, 1982

Allegheny Land & Mineral Co. P. O. Box 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:

	PERMIT NO.	FARM AND WELL NUMBER	DISTRICT
*	RAN-0441 RAN-0457 RAN-0467 RAN-0495 RAN-0502 UPS-2257 UPS-2272 UPS-2314	Rebecca Arnold, #A-1011 Ernest W. Hutton, #A-1008 Ernest W. Hutton, #A-1009 Robert E. Maxwell, #A-1034 Denver Hanifan, #A-945 Harry McMullan, Jr., #A-1020 Dove Neeley, #A-1033 Frank T. Litton, et al, #A-1046 Westvaco/Harry McMullan, Jr., #A-1010	Middle Fork Middle Fork Middle Fork Roaring Creek Middle Fork Middle Fork Washington Meade Washington
	UPS-2315	Audra Dora Hanifan, et al, #A-1030	Washington

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,

Theodore M. Streit

TMS:rl

A- 1009

1.0 API well number: 47 -083 -0467 (If not available, leave blank. 14 digits.) 2.0 Type of determination being sought: 103 (Use the codes found on the front of this form.) Section of NGPA 3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) 46 92 T.D. feet 4.0 Name, address and code number of Allegheny Land & Mineral Co. applicant: (35 letters per line maximum. If code number not 000333 Name P.O. Drawer 1740 Seller Code available, leave blank.) Street Clarksburg, W W.Va. 26301 City State Zip Code 5.0 Location of this well: [Complete (a) middle or (b).] 1 ork District (a) For onshore wells (35 letters maximum for field Randolphi W.Va. name.) (b) For OCS wells: N/A Area Name Block Number Date of Lease: Mo. Yr. Day OCS Lease Number (c) Name and identification number of this well: (35 letters and digits 1009 maximum.) (d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters 1st Balltown - 2nd Balltown - 1st Elk maximum.) 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not Columbia Gas Transmission Corp. 004030 available, leave blank.) Name Buyer Code (b) Date of the contract: (c) Estimated annual production: in line MMcf. (a) Base Price (b) Tax (c) All Other (d) Total of (a), (\$/MMBTU) Prices [Indicate (b) and (c) (+) or (-).] 7.0 Contract price:
(As of filing date. Complete to 3 2.501 0.250 decimal places.) 0.250 3.00L 8.0 Maximum lawful rate: (As of filing date. Complete to 3 2.501 decimal places.) 1.250 0.250 3.001 9.0 Person responsible for this application: Daniel L. Wheeler Vice-Pres.Land Dept. Agency Use Only Name Date Received by Juris. Agency SEP 221981
Date Received by FERC 9-21-81
Date Application is Completed 304-623-6671 Phone Number

2

4-05.2

FT7900806/2-2

PARTIC	IPANTS: DATE: JAN 7 1982	BUYER-SELLER COU
	OPERATOR: Allegheny Land+ Mineral	000333
FIRST	PURCHASER: Columbia Gas Trans Corp	004030
OTHER		
81°	2. Department of Mines, Oil & Gas Division  VELL DETERMINATION FILE NUMBER  083-073 (A-5)  O922-103-083-0467  Above File Number on all Communications elating to Determination of this Well  OR 3-073 (A-5)	(4): 2100'
	CHECK FACH ITEM AS COMPLETE OF NOTE WHAT IS WELLEN	
ITEM N	CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
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? Aff	idavit Signed/
	Other: Survey Logs Geological Charts	
	Structure Map 1: 4000 Map Well Tab	ulations
(5)	Date commenced: 8 -14 - 81 Date completed 8-19-81 Deepen	ed —
	Production Depth: 2099-2104 23/7-23 4306-	
(5)	st p 111 st m a 111	7k
(5)	Final Open Flow: 1517 MCF	
(5)	After Frac. R. P. 1100# 2 hrs.	
	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: PSI	G from Daily Renc
(5)	Oil Production: From Completion Report	-
10-17.	Does lease inventory indicate enhanced recovery being done	
10-17.	Is affidavit signed? Notarized?	20/45/0004
Does off	icial well record with the Department confirm the submitted informatio	n? <b>VP</b> \$
Addition	al information Does computer program confirm?	
	rmination Objected to By Whom?	
	3	•

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

Operator's #-1009

API Well No. 47 - 083 - 0467
State County Permit

WELL CLASSIFICATION FORM NEW ONSHORE PRODUCTION WELL

MGPA Section 103

	DESIGNATED AGENT Allegheny Land & Mineral C
	ADDRESS P.O. Drawer 1740
	Clarksburg, W. Va. 26301
LL OPERATOR Allegheny Land & Mine	ral Cook Elevation 20.55
DRESS P.O. Drawer 1740	Watershed Middle Fork lever
Clarksburg, W. Va. 26301	
AS PURCHASER Columbia Gas Transmis	sign Corp.
DDRES 1700 MacCorkle Ave. S.E.	Contract No.
Charleston, W.Va. 25314	Meter Chart Code
Charleston, w.va. 23314	Date of Contract /A
* * * * * . * *	* * * * * * * *
	물병 마양계 시네다. 공연하다 가지 회원에 걸려 있다면 가장이 되었다.
te surface drilling was begun: 8-1	4-81
diagra the best of bell and the second	
dicate the bottom hole pressure of the well	and explain how this was calculated:
ck Pressure was	DCTC on the surface
ck riessure was	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 protation 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 was 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.

President

Allegheny Land & Mineral Co.

STATE OF WEST VIRGINIA.

COUNTY OF Harrison TO WIT

I, Ethel Marie Crowley 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 lot day of September . 19 81, has acknowledged the same before me, in my county aforesaid.

Civen under my hand and official seal this let day of September 19 81.

My term of office expires on the 20th day of December 19 89.

[NOTARIAL SEAL]

Ethel Marie Crowley

Ethel Marie Crowley



03/15/2024

ormation Color	Hard or Soft	   Top Feet 	   Bottom Feet	   Oil, Gas o	r Water *Remarks
Perforations:	d August 25, 1981   2099' - 2104' 16   2317' - 2323' 16	noles	ton   	  -  -	
	4306' - 4310' 6 I 4312' - 4319' 10		1	1	
Comb.			1	1	drandle Canalty 7.5'
	bool3godoW in a	1			7340-737-0467 nv 41
(Kind)			 		
			bra pnies	.0	osay Alicenson Land & Gineral C
		pilling	uniduT		rasa P. O. Cox Tyaf. Clarkstoff
		1	i ize		m Hutton eting (water) Niddon Ford Win
		1 101 10	1	Elev. 2055	
			Cond. 11 3/		
	5391 [w/160 a		8/8 9		
	2 19 /A	1	1-3/2		.0. H. no leaf mark Jane 1 and on H. C. sees of the State
			2/2/2	.eV .orn	era 501 S. Fllison La. Lavnesh
Will C. ast		19500	1/12		Illing Companded August 16, 15
		1	2 =	the .	Fig. a Completed - August 19. US Fig. up of the second of
			beall aroni. La.	Idd yn s	rec. d'ina 1.512 en du on le
				he 40011 de	of racing and the area I
			visco docida		Logra 2 hrs before to
		ob.oa biol	ledoj e kidaal	ו אומן ואין ואין אומן	I treatment ditails.  Belltown as 1 treated 9/500 de
	ON 20/40	neld 60.00 Netal 80200	766bble totel f 773bble totel f	of 15% HCL 7	timeboont details   Bailtown earl tracted 9/500 and   Bailtown eard tracter w/500 and
	ON 20/40	neld 60.00 Netal 80200	766bble totel f 773bble totel f	of 15% HCL 7	l transbornt details. Bailtown said transbod 9/800 an Balltown said transbor w/800 m
	ON 20/40	neld 60.00 Netal 80200	766bble totel f 773bble totel f	of 15% HCL 7	timeboont details   Bailtown eard tracted 9/500 and   Bailtown sand tractes w/500 and
	ON 20/40	neld 60.00 Netal 80200	766bble totel f 773bble totel f	of 15% HCL 7	l benebent ditalls Balltown saud trested s/500 se Balltown saud trester s/500 m Fik sand trested s/500 mal 15
deal	20140 41. 00/02 40. 00/02 40.	101d 60,10 101d 50,10 80,0,00 20	Madbble total f 773bble total f la total flui Feet	T 15% NCL T 15%	trostwont details   Sailtown about trosted a/200 and Sailtown and treated w/500 and []   Sailtown about treated w/500 and []   Sailtown about 1721 and all was encountered at water 1471, 1721 a 6681
deol	0# 20/40 0# 20/40 /40 1011169	101d 60,10 101d 50,10 80,0,00 20	Madable total f Wyzbole total f a total flui	T 15% NCL T 15%	Firsternt ditails   Selltown as 1 treated w/200 as   Halltown and treated w/200 as   Elk asod treated w/200 as   Selltown as electrical at   Was electrical as   Was electrical as   Was electrical as   Was electrical as
deol	04. 20/40 18. 20/40 /40 Invest It wises	101d 60,10 101d 50,10 80,0,00 20	Madbble total f 773bble total f la total flui Feet	T 15% NCL T 15%	Firsternt ditails   Selltown as 1 treated w/200 as   Halltown and treated w/200 as   Elk asod treated w/200 as   Selltown as electrical at   Was electrical as   Was electrical as   Was electrical as   Was electrical as
deol	04. 20/40 18. 20/40 /40 Invest It wises	101d 60,10 101d 50,10 80,0,00 20	Madbble total f 773bble total f la total flui Feet	T 15% NCL T 15%	Limaternt disalls   Selltown as discreticed w/200 and Balltown and treated w/200 and []   Selltown treated w/200 and []   Selltown as encount seed at water []   1721   1721   1661
	0# 20/40 0# 20/40 /40 10***********************************	1014 60,10 1044 80310 80,031W 20	Medbols total f 773bbls total f d total flui Feet ullst Elk	15% NCL 74 15% NCL 7 15% N	l tematemnt ditails  Bailtown sand treated w/500 and File sand treated w/500 calls  File sand treated w/500 calls  l was ground seed at  a water 147, 172 c 660;  boile sand let Bailtown, 20
	UM 20/40  UM 20/40  /AU  Investigation of Marker  Courter  Courter	1014 60,10 1014 80,00 80, 0,00 70	Medbols total f 773bbls total f d total flui Feet ullst Elk	15% NCL 74 15% NCL 7 15% N	Realtown as it treated a/500 as Salltown and treated a/500 as File send treated a/500 call as I was encountaged at a table a salltown. The Balltown, 20
	UM 20/40  VAD  Invest  It wills  Outh	114   60, 10   10   10   10   10   10   10   10	Maddis total f 773bile total f 18 total flui Feet 10 let Elk 1 ottes feet 1 set Elk 1 ottes feet	15% NCL 7/4m 16% N	Emakeont ditails
	Company Control of the Control of th	114   60, 10   60,	Mabbie total f 773bile total f d total flui Feet ullat Elk cotton feet 896	15% NCL 7/4cm 15	Emakeont ditails
	0#. 20/40  10****  10****  10****  15***  15**  15**  16**		Maddis total f 773bile total f 18 total flui Feet 10 let Elk 1 ottes feet 1 set Elk 1 ottes feet	15% NCL 7 15% NC	I hometoon deals.  Selltown and trocket w/200 and institute and treated w/200 and is.  It is send treated w/200 and is.  I was encount seed at an water 167, 172, 5 660;  and a send let Bailtown. 20 and the Bailtown. 20
	08 20/40  /AD  Towns  It washer  Country  10 '/a' or '/a'  14 / a 172  25 / a 172  26 / a 172  26 / a 172  27 / a 172  28 / a 172	114   60, 0	### ### ##############################	1 15% HCL 77400	I beneficht desile  Sailtown and treated a/200 and in its acmed treated a/200 coils  I'lk sound treated a/200 coils  I was encount seed at a water 1871 1721 8 6681  Sounder 1871 1721 8 6681  Sound to Bailtown, 2nd och a seed at the Lime  of the Lime  o
1953	101 20/40  101 20/40  101 20/40  101 101 101  102 101 101  103 101  104 105  105 106  106 106  107 107	11/20 stell [688 che]	## ## ## ## ## ## ## ## ## ## ## ## ##	15% HCL	Itematernt details     Palltewn sand treated w/S00 ar     Palltewn sand treated w/S00 onf 18     Pas enount seed at     was enount seed
	10:00	114 60,000   101.   11/2" st.   11/2" st.   12/4" st.   15/4" st.   16as chell	### ##################################	15% NCL 7/4m 16% NCL 7/4m 16% NCL 7/4m 16% NCL 7/4m 16% NCL 12 NCL 16m	Itemateunt dispile     Balltown sand treated w/S00 or     Balltown sand treated w/S00 or     Ite sand treated w/S00 or     Ite sand treated w/S00 or     Ite sand treated of     Ite sand treated or     Ite time     Ite time     Ite     I
	20/40  Inverse Inverse It water  Country  Applied 172  Sam HgT & 664  Sam HgT & 666  Sam HgT & 6	nid 60,000 hint: 60,000 for a formal for a f	## ## ## ## ## ## ## ## ## ## ## ## ##	15% HCL	I breatent deals  Saltown and treated a/200 and Elk sand treated a/200 and is  I'lk sand treated a/200 and is  I was encountered at  a water 1A71, 1721 c A601  book a sand let Bailtown. 20  and in Shale  I the Lime  at a Shale  I Tajun  I Tajun  I Tajun  I Shale  I Tajun  I Shale  I Tajun  I Shale  I Tajun  I Shale  I Tajun
	## 20/40    10   20/40   20/40		### Feet   Feet	1 15% HCL	I broadwork depoils     Salitown and treated w/200 and     Salitown and treated w/200 and     The send treated w/200 and     The send treated w/200 and     The send treated at     The send treated
053	20/40  10,000	mid 60.00 hint: 60.00 fint: 60	Feet   Fe	1 15% HCL   Feet   Feet	I tematernt depoils     Sailtown and treated w/SDO and     Sailtown and treated w/SDO online     I was enount seed at     was enount se
0.53	## 20/40    10   20/40   20/40	mid 60.00 hint: 60.00 fint: 60	### Feet   Feet	1 15% HCL	

RECEIVED

AP PROVED

September 15

1981

Vice President Oil & Gas Productions



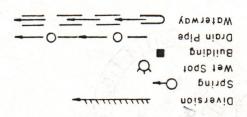
# DEPARTMENT OF MINES

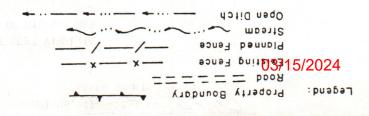
# OIL and GAS DIVISION WELL RECORD

Quadran	ngle_	Cassity	7.5'
Permit	No .	47-083-0	0467

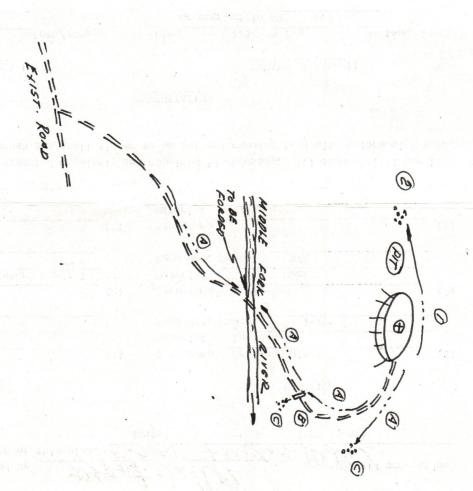
Rot ary	XXX	Oil		
Cable	FEB .	Gas	XXX	
Recycling		Comb.		
WaterFlood		Storage		
Disposa	1			
		(V	ind)	

Company Allegheny Land & Mineral Co. Address P. O. Box 1740, Clarksburg, W	Property and the second second	·				
	· va · Zojul	Tubing	Drilling	in Well	ICu. ft. (	(Sks.)
Farm Hutton Ac	res 167				1	
Location (water) Middle Fork River		Size			1	
	v. 2055'	20-16			1	
District Middle Fork County		Cond. 11 3/4	16'	16'	1	
The surface is owned in fee by Harry		13-10"			1	
	Heridilan	9 5/8	-	No. of the last	i	
et al		8 5/8	539'	539'	  w/160 sks	s.to surface
Address P.O. Box 8, Wahsington, N.C.	tten etel	7	337		1	
Mineral rights are owned by Ernest Hu		5 1/2		1000	i	
Address 501 S. Ellison La., Waynesboro			4456'	4456'	_'  w/575 sks	1100'
Drilling Commenced August 14, 1981		4 1/2	1 4476	4470	_   W/ J/ J JK	3. 1100
Drilling Completed August 19, 1981	1112	3			-	
Initial open flow 8,430 cu.ft.	bbls.				-	
Final production 1,517 cu.ft.per da		Liners Used			-	
Well open 2 hrs before test	1100# RP.					
		Attach copy	of cement i	na record		
Well treatment details:	IEW UCL 7					
1st Balltown sand treated w/500 gal	12% HUL 766	oppis total fil	uid 60,000	D# 20/40		
2nd Balltown sand treated w/500 gal '	15% HCL //2	Sbbis total file	(0,000/1,00	/40		
1st Elk sand treated w/500 gal 15% HO	CL 774bbls	total fluid	60, UUU# 20,	740		
Fresh water 147', 172' & 664'	Feet		Sa	lt water_		Feet
1 I OOI 1 Hadda						
		1st Elk		Depth		
Producing Sand 1st Balltown, 2nd Ba		1st Elk		Depth		
		1st Elk		Depth		
		1st Elk		Depth		
Producing Sand 1st Balltown, 2nd Ba	alltwon and		1			
Producing Sand 1st Balltown, 2nd Ba	alltwon and		   Oil, Gas		· *Rema	nrks
Producing Sand 1st Balltown, 2nd Ba	alltwon and	     Bottom Feet 	1	or Water		ırks
Producing Sand 1st Balltown, 2nd Ba	alltwon and	     Bottom Feet 	  1/2" stre	or Water	147'	irks
Producing Sand 1st Balltown, 2nd Balltown, 2	alltwon and	     Bottom Feet 	  1/2" stre  2" stream	or Water am H <sub>2</sub> O @ H <sub>2</sub> O @ 17	147'	nrks
Producing Sand 1st Balltown, 2nd Balltown, 2	alltwon and	   Bottom Feet   594	  1/2" stre	or Water am H <sub>2</sub> O @ H <sub>2</sub> O @ 17	147'	ırks
Producing Sand 1st Balltown, 2nd Balltown, 2	l Top Feet l 0 594 620	   Bottom Feet     594   620	  1/2" stre  2" stream	or Water am H <sub>2</sub> O @ H <sub>2</sub> O @ 17	147' '2' 664'	irks
Producing Sand 1st Balltown, 2nd Balltown, 2	 	   Bottom Feet     594   620   682	  1/2" stre  2" stream  3/4" stre  Gas check	or Water am H <sub>2</sub> O @ H <sub>2</sub> O @ 17 am H <sub>2</sub> O @	147' '2' 664' no show	irks
Producing Sand 1st Balltown, 2nd Balltown, 2	Top Feet     0   594   620   682   688	   Bottom Feet   594   620   682   688	  1/2" strem  2" strem  3/4" stre  Gas check  Gas check	or Water am H <sub>2</sub> O @ H <sub>2</sub> O @ 17 am H <sub>2</sub> O @ @ 1010' @ 1474'	147' '2' 664' no show	irks
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun		Bottom Feet   594   620   682   688   892   900	1/2" stre  2" stream  3/4" stre  Gas check  Gas check  Gas check	or Water am H <sub>2</sub> O @ H <sub>2</sub> O @ 17 am H <sub>2</sub> O @ @ 1010' @ 1474'	147' 22' 664' no show " "	nrks
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale		Bottom Feet   594   620   682   688   892   900   1442	1/2" stre  2" stream  3/4" stre  Gas check  Gas check  Gas check	or Water am H <sub>2</sub> O @ H <sub>2</sub> O @ 17 am H <sub>2</sub> O @ @ 1010' @ 1474' am 2004'	147' 72' 664' no show " " 4,800 CF	nrks
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand		   Bottom Feet   594   620   682   688   892   900   1442   1450	1/2" stream   3/4" stree   Gas check   G	or Water am H <sub>2</sub> O @ 17 am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' & 2916'	147' '2' 664' no show " " 4,800 CF 4,800 CF	irks
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale		   Bottom Feet   594   620   682   688   892   900   1442   1450   1518	1/2" strem  2" strem  3/4" stre  Gas check  Gas check  Gas check  Gas check  Gas check	or Water am H <sub>2</sub> O @ H <sub>2</sub> O @ 17 am H <sub>2</sub> O @ @ 1010' @ 1474' a@ 2004' a@ 2601' a@ 2916' a@ 3258'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF	ırks
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A		   Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528	1/2" streem   3/4" streem   3/4" streem   Gas check   Gas check	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' a 2004' a 2601' a 2601' a 3258' a 4133'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF	ırks
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale		Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528   2094	1/2" stream   3/4" streem   3/4" streem   Gas check   Gas check	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF	irks
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A	Top Feet   0	Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528   2094   2110	1/2" streem   3/4" streem   3/4" streem   Gas check   Gas check	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF	irks
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale	Top Feet	Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528   2094   2110   2312	1/2" stream   3/4" streem   3/4" streem   Gas check   Gas check	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF	
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale Upper Balltown	Top Feet	Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528   2094   2110   2312   2328	1/2" strem   3/4" strem   3/4" strem   Gas check   G	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF	
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale Upper Balltown Shale	Top Feet	Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528   2094   2110   2312	1/2" strem   3/4" strem   3/4" strem   Gas check   G	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF	
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale Upper Balltown Shale Lower Balltown Sand & Shale	Top Feet	Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528   2094   2110   2312   2328	1/2" strem   3/4" strem   3/4" strem   Gas check   G	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF 8,430 CF	03/15/2024
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale Upper Balltown Shale Lower Balltown	Top Feet	Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528   2094   2110   2312   2328	1/2" strem   3/4" strem   3/4" strem   Gas check   G	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF 8,430 CF	03/15/2024
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale Upper Balltown Shale Lower Balltown Sand & Shale	Top Feet	Bottom Feet	1/2" strem   3/4" strem   3/4" strem   Gas check   G	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' '2' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF 8,430 CF	03/15/2024 CDIV
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale Upper Balltown Shale Lower Balltown Sand & Shale	Top Feet	Bottom Feet   594   620   682   688   892   900   1442   1450   1518   1528   2094   2110   2312   2328	1/2" strem   3/4" strem   3/4" strem   Gas check   G	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' 22' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF 8,430 CF	03/15/2024 <b>CDIV</b>
Formation Color Hard or Soft  Sand & Shale Little Lime Sand & Shale Big Lime Sand & Shale Big Injun Sand & Shale 4th Sand Sand & Shale 4th A Sand & Shale Upper Balltown Shale Lower Balltown Sand & Shale	Top Feet   O	Bottom Feet	1/2" strem   3/4" strem   3/4" strem   Gas check   G	or Water  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 17  am H <sub>2</sub> O @ 1010' @ 1474' @ 2004' @ 2601' : @ 2916' : @ 3258' : @ 4133' : @ 4318'	147' 22' 664' no show " " 4,800 CF 4,800 CF 4,800 CF 4,800 CF 8,430 CF 8,430 CF	03/15/2024





Sketch to Include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with first part of this drilling pits and necessary structures numbered or lettered to correspond with first part of this drilling pits and necessary structures numbered or lettered to correspond with first part of this



COMMENTS: Slope of access road 10%-- Cuts to be on a 2:1 slope or less -- Access road subject to company or landowner -- All ditches and culverts will be maintained after consturction is completed -- Reclamation to be performed by Halls Reclamation, Inc.

Signature:

Address Address Box 1740, Clarksburg, W. Va. 623-6671

Phone Number

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

State County Permit - E80 - 74 .ON 19A Well No. A-1009 Apr 11 23, 1981

(08-10)6-VI mno7

03/15/2024

STATE OF WEST VIRGINIA

Spacing Earthen Page Ref. Manual 1-10 Page Ref. Manual Earthen Material Earthen Structure Drainage Ditch (1) (A) Structure Drainage Ditch LOCATION ACCESS ROAD (tnegA dos) and additions become a part of this plan. 5-2-8 This plan has been revelwed by (Agent) Halls Reclamation, Revegetation to be carried out by Soli Cons. District Tygarts Valley Westvacp Landowner Telephone 623-6671 Telephone 1299-529 Ciarksburg, West Virginia Clarksburg, West Virginia P. 0. Box 1740 Address P. 0. Box 1740 Address Designated Agent J. Ronald Cullen Company Name Allegheny Land & Mineral Co. OFFICE OF OIL AND GAS

be cut and stacked. All brush and small timber to be cut and removed from site before dirt work All structures should be inspected regularly and repaired if necessay. All comercial importants in

Material

(C)

(B)

Structure

Material Structure

Page Ref. Manual

Page Ref. Manual

1861 8 - YAM

(2)

(2)

REVEGETATION

(in-20-20 or equivalent) Ferfillzer 1 pz/scre or correct to pH\_ DEMPSE OF MINES 2.5 OIL & GAS DIVISION II A3AA TWAMTA3AT

A\N

Rip-Rap

10 | pa\scr e Domestic Ryegrass 10 ibs/acre Bridsfoot Trefoil 45 | bs/acre Seed\* Kentucky 3! Fescue 2 | bs/acre

Domestic Ryegrass 10 | bs/acre 10 1bs/acre Birdsfoot Trefoil 45 | bs/acre Seed\* Kentucky 31 Fescue 2 lbs/acre Mulch Straw

or correct to pH 6.5

Page Ref. Manual

Spacing

(10-20-20 or equivalent)

TREATMENT AREA I

A/N

Rock

Structure Culverts (where needed)

Rip-Rap

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

Attach or photocopy section of involved Topographic map. Quadrangle CASSITY 7.51

Tons/acre

Access Road etis liew redeuq: