/ Card\_ 0 Latitude 39° 39012 130 S.M. BROADWATER N. B. MAXWELL 603 - 1 S.L. HURST SARAH D. É Rosco Scorr - 2 LEE PRUNTY B/2 No. 2 - 3 F.32822 20% O.P. SCOTT 240 /acob PRUNTY 313% N 62° 45 E - 667 PE'N -BOS N 38° 536°E-17. ZINN HRS. J.F. LAWSON M. B. GRAY 3249 Fracture .... Source of Elevation GRAY "2-F-32822 ELEV 850" Redrill . . . . . I, the undersigned, hereby certify that this map is correct to the best of my knowledge New Location . M and belief and shows all the information required by paragraph 6 of the rules and regula-Drill Deeper.... tions of the oil and gas section of the mining laws of West Virginia. Abandonment .... Minimum accuracy, one part in 200 Company ALLEGHENY LAND & MINERAL CO. Address CLARKSBURG, W. V. 2630/ STATE OF WEST VIRGINIA DEPARTMENT OF MINES Farm LLOYD W. GRAY, J.F. GRAY OIL AND GAS DIVISION CHARLESTON Well (Farm) No .\_ WELL LOCATION MAP Serial No. A. 8/0 Elevation (Spirit Level) 974 FILE NO. 47-017-2338 Quadrangle HOLBROOK 15 County DODDRIDGE + Denotes location of well on United States District Southwest Topographic Maps, scale 1 to 62,500, latitude Engineer Naniel & Muler and longitude lines being represented by border Engineer's Registration No. 530 LLS linės as shown. FEB 9 File No .\_\_ \_Drawing No. - Denotes one inch spaces on border line of Date\_/-//-79 original tracing. Scale\_/" = 1000'

G. & W. LEACH CO., PGH., PA.

2377 G. G. STRAIGHT FK BLOESTONE CK 132

DEPARTMENT OF	E OF WEST VIRG MINES, OIL AND	CNIA D GAS PIVIS		March 2 , 1979
Copyerse MAR 13 19/9			Sperator Well No.	A-810
OIL & GAS DIVISION OIL & GAS DIVISION	OPERATOR'S REI	PORT /a	API Wel	- 017 -2338
DEPT. OF MINE	D/OR STIMULATI	NG, OR PHYS	CLIAL CHANGE	
WELL TYPE: Oil/ Gas_X_/ Liquid I	Injection	/ Waste D	isposal/	
(If "Gas", Production x / Ur	iderground stor	rage/	Деер	Jhallow
LOCATION: Elevation: 9711 Wat				
District: Southwest Cou	inty: <u>Doddri</u>	dge o	un irangle: <u>H</u>	olbrook (15)
WELL OPERATOR ALLEGHENY LAND & MINERA	AL CO. DES	SIGNATED AG	ENT ALLEGHEN	Y LAND & MINERAL CO
Address Box 1740		Address	Вох 1740	
Clarksburg, WV 26301	-		Clarksbu	rg, WV 26301
PERMITTED WORK: Drill X / Convert/	Drill deeper	/_ Red	riii Pra	cture or stimulate
Plug off old formation				
Other physical change in we	ell (specify)			
PERMIT ISSUED ON	<b>79</b> . 01	L & GAS IN	FPECTOR FOR THI.	WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING O REWORKING. VERBAL PERMISSION OPTAINED	R			Street
, 19				g. WV 26301
GEOLOGICAL TARGET FORMATION: We	<b>ા</b> જે જ			2300 See
Depth of completed well, 2150				
Water strata depth: Fresh, 40 feet			A CONTRACTOR OF THE CONTRACTOR	
Coal seam depths: XX			the open of	- Parita Kiripa (高がある) - Ding Parita (Alamana)
			7-33-110	
Work was commenced February 7	, 19 <u>19</u> , an	a combrere	reoruary	10 79
CASING AND TUBING PROGRAM				
CASING OR SPECIFICATIONS TUBING TYPE Weight	FOOTAGE IN	TERVALS	CEMENT FILL-"	PACKERS
Size Grade per ft New Used F	on drilling!	<b>a.</b>	■ OR SACKS	96
	01 - 01 111111 176	eit in well	(Cubic feet)	
Conductor	Or out IIIII be	eft in well	(Subic feet)	
and the state of t	348		(Cubic feet) cement to surface	Kinds
Conductor	·^:		(Subic feet)	
Conductor Fresh water 8-5/8**	·^:		cement to surface	Kinds
Conductor  Fresh water 8-5/8"  Coal	3481		cement to surface	Kinds
Conductor  Fresh water 8-5/8**  Coal  Intermediate	3481	3481	cement to surface	Kinds
Conductor  Fresh water 8-5/8 **  Coal  Intermediate  Production / 2 FRW 10.5#	3481	3481	cement to surface	Kinds Sizes
Conductor  Fresh water 8-5/8"  Coal  Intermediate  Production 1/2" ERW 10.5#  Tubing	3481	3481	cement to surface	Cines Continue
Conductor  Fresh water 8-5/8"  Coal  Intermediate  Production 1/2" ERW 10.5#  Tubing	3481	3481	cement to surface	Kinds Sizes
Conductor  Fresh water 8-5/8"  Coal  Intermediate  Production 1/2" ERW 10.5#  Tubing	3481	3481	cement to surface	Cines Continue
Conductor  Fresh water 8-5/8"  Coal  Intermediate  Production 1/2" ERW 10.5#  Tubing	3481	3481	cement to surface	Cines Continue
Conductor  Fresh water 8=5/8"  Ceal  Intermediate  Production 1 = ERW 10.5#  Tubing  Liners  CPEN FLOW DATA	348° 2364°	348°	cement to surface	Fires Bottom
Conductor  Fresh water 8-5/8"  Ceal  Intermediate  Production 1/2" FRW 10.5#  Tubing  Liners  CPEN FLOW DATA  Producing formation Injun,	348° 2364°	348°	cement to surface  cment to 1664:	Finds  Dottom
Conductor  Fresh water 8-5/8"  Coal  Intermediate  Production 112 ERW 10.5#  Tuting  Liners	348° 2364°	348°	cement to surface  cment to 1664:	Finds  Dottom
Conductor  Fresh water 8-5/8**  Coal  Intermediate  Production 1 2 2 ERW 10.5#  Tubing  Liners  CPEN FLOW DATA  Producing formation Injun,	348° 2364° ,	348!	cement to surface  cment to 1664:	Ferris Bottom
Conductor  Fresh water 8-5/8**  Coal  Intermediate  Production 1 = ERW 10.5*  Tubing  Liners  CPEN FLOW DATA  Producing formation Injun,  Gas: Initial open flow,  Final open flow, 1.078:  Time of open flow between	348; 2364;  Mef/d of Mef/d een initial an	348:	iny sché doits open flow,	Finds  Dettom  1910-1958
Conductor  Fresh water 8-5/8**  Coal  Intermediate  Production 1/2** ERW 10.5**  Tuting  Liners  CPEN FLOW DATA  Producing formation Injun,  Gas: Initial open flow,  Final open flow, 1,078	348; 2364;  Mef/d of Mef/d een initial an	348:	iny sché doits open flow,	Finds  Dettom  1910-1958
Conductor  Fresh water 8-5/8**  Coal  Intermediate  Production 1 = ERW 10.5*  Tubing  Liners  CPEN FLOW DATA  Producing formation Injun,  Gas: Initial open flow,  Final open flow, 1.078:  Time of open flow between	348:  2364.  2364.  Mef/d  Mef/d  een initial one	348:	iny sché doits open flow,	Finds  Dettom  1910-1958
Conductor  Fresh water 8-5/8**  Ceal  Intermediate  Production	348:  2364  2364  Mef/d  Mef/d  een initial one ion!	i: Initial  Final ( issurement)	cement to surface  cment to 1664:  inv sché double open flow, spen flow, sta, hours after 14 hours	Finds  Dettom  1910-1958
Conductor  Fresh water 8-5/8**  Coal  Intermediate  Production 1/2** ERW 10.5**  Tubing  Liners  CPEN FLOW DATA  Producing formation Injun,  Gas: Initial open flow,  Final open flow, 1,078:  Time of open flow between Static rock pressure, 500** ps*  Cif applicable due to multiple complete  Second producing formation Weir  Gas: Initial open flow,	348:  2364 P  2364 P  Mef/d  een initial and ion!  Mef/d  Mef/d  Mef/d  OI	1: Initial  final ( final te.  abungment)	iny sché derifice feet la coment to surface coment to 1664!  iny sché derifice feet la copen flow, spen flow, sta, hours after 14 hours after 14 hours after 15 pen flow,	Bottom 1910-1958 2130-2256 Feet
Conductor  Fresh water 8-5/8**  Coal  Intermediate  Production 1/2** ERW 10.5**  Tubing  Liners  CPEN FLOW DATA  Producing formation Injun,  Gas: Initial open flow,  Final open flow, 1,078:  Time of open flow between Static rock pressure, 500** ps*  Cif applicable due to multiple complete  Second producing formation Weir  Gas: Initial open flow,	348:  2364 P  2364 P  Mef/d  een initial and ion!  Mef/d  Mef/d  Mef/d  OI	1: Initial  final ( final te.  abungment)	iny sché derifice feet la coment to surface coment to 1664!  iny sché derifice feet la copen flow, spen flow, sta, hours after 14 hours after 14 hours after 15 pen flow,	Bottom 1910-1958 2130-2256 Feet
Conductor  Fresh water 8-5/8 **  Coal  Intermediate  Production 1/2 ERW 10.5 **  Tuting  Liners  CPEN FLOW DATA  Producing formation Injun,  Gas: Initial open flow,  Final open flow,  Time of open flow between Static rock pressure, 500 **  Second producing formation Weir  Gas: Initial open flow,  Final open flow,  Pinal open flow,	348:  2364*  2364*  Mef/d  en initial and	1: Initial  Final ( abunement)  1: Initial  Final ( Final (   Final (  Final (   Final (   Final (   Final (   Final (   Final (   Final (    Final (    Final (       Final (	iny sché derti cement to surface  cment to 1664:  iny sché derti open flow, spen flow, spen flow, spen flow, spen flow, spen flow,	Bottom  1910-1958  2130-2256 Feet
Conductor  Fresh water 8-5/8 **  Coal  Intermediate  Production 1/2 ERW 10.5 **  Tuting  Liners  CPEN FLOW DATA  Producing formation Injun,  Gas: Initial open flow,  Final open flow,  Time of open flow between Static rock pressure, 500 **  Second producing formation Weir  Gas: Initial open flow,  Final open flow,  Pinal open flow,	348:  2364*  2364*  Mef/d  en initial and	1: Initial  Final ( abunement)  1: Initial  Final ( Final (   Final (  Final (   Final (   Final (   Final (   Final (   Final (   Final (    Final (    Final (       Final (	iny sché derti cement to surface  cment to 1664:  iny sché derti open flow, spen flow, spen flow, spen flow, spen flow, spen flow,	Bottom 1910-1958 2130-2256 Feet

[08-78]

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

Well was fractured February 16, 1979 by Halliburton.

Perforations: 1920-1950' - 18 holes

2137-2144' - 5 " 2154-2162' - 4 " 2192-2200' - 5 " 2222-2238' - 6 "

WELL LOG

	- Annaharing data and the same of the same	,					
***************************************	FORMATION	Color	Hard or Soft	10 Top Feet	Bottom Feet	Remained indicated and sait water.	arks ation of all fresh coal, cil and ac
	Red Rock Red Rock & Shall Salt Sand Red Rock & Shall Sand Sand & Shale Sand Sand & Shale Lig Lime Injun Sand Sand & Shale Weir Sand Sand & Shale Berea Sand Shale		total d	0 10 767 775 945 1210 1336 1358 -1830 1910 1958 2130 2256 2318 2322 epth	10 767 775 945 1210 1336 1358 1830 1918 2136 2318 2318 2318 2318		

(Attach separate sheets to complete as necessiry

Allegheny Land & Mineral Company Well Operator

Ву_	Claron Dawson	in the special annual configuration and special control of the speci
Its	Superintendent	

STE: Regulation C.OL(i) provides as follows:

"The term 'i'g' or 'we'l log' shall mean a systematic, detailed geologial resort of all formations, including soal, encountered in the drilling of a well."

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

## OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: O11/ Gas XX/	
	storage / Deep / Shallow XX/)
LOCATION: Elevation: 974 Watershed: S	
District: Southwest County: Dodo	dridge Quadrangle: Holbrook (15)
WELL OPERATOR ALLEGHENY LAND & MINERAL CO.	DESIGNATED AGENT ALLEGHENY LAND & MINERAL
Address P. O. Drawer 1740	Address P. O. Drawer 1740
	6301 <u>Clarksburg, WV 26301</u>
OIL & GAS ROYALTY OWNER Hayward Gray	COAL OPERATOR
Address Ellenboro	Address
West Virginia 26364	
Acreage 318.23	COAL OWNER(S) WITH DECLARATION ON RECORD:
surface owner J. F. Gray	Name Hayward Gray
Address Route 1, Box 171	Address Ellenboro
West Union, WV 26456	West Virginia
Acreage 318.23	Name
FIELD SALE (IF MADE) TO:	Address
Name no contract as of this date	
Address	COAL LESSEE WITH DECLARATION ON RECORD:
	Name none
OIL & GAS INSPECTOR TO BE NOTIFIED	Address
Name Paul Garrett	
Address 321 Beech Street	0.000
<u>Clarksburg, West Virginia</u>	203 <u>0</u> 1
undersigned well operator from see attached  [If said deed, lease, or other contract has been recor  Recorded on, 19, in the office of	
County, West Virginia, in Book a	at page A permit is requested as follows:
	edrill / Fracture or stimulate of the common
Plug off old formation / Pe	
	pecify)
planned as shown on the work or	rder 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	y Code § 22-4-3 must be filed with the Department
of Mines within fifteen (15) days after the receipt of	<u>.</u>
**	nclosed plat and reclamation plan have been mailed .
by registered mail or delivered by hand to the above r	
on or before the day of the mailing or delivery of this	is Permit Application to the Department of Mines at
Charleston, West Virginia.	
PLEASE SUBMIT COPING OF ALL	
GEOPHYSICAL LOGS DIRECTLY TO:	
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311	ALLEGHENY LAND & MINERAL COMPANY Well Operator
TELEPHONE: (304) 348-3092	The State of the same
	Glen E. Watkins, Manager
BLANKET BOWN	Land, Lease and Right of Way
ol é gas division Didita of Miniss	

## PROPOSED WORK ORDER

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

DRILLING CO	NTRACTOR (I			· · · · · · · · · · · · · · · · · · ·	. Box			
		,	Address				irginia 26	5201
		,	T T	20011				
GEOLOGICAL 1					~~	<del></del>		
Estimai	ted depth o	f complete	ed well.	, <u>23</u>	20 60	Seet	Rotary XX /	Cable tools/
							,feet.	
Approx.	imate coal	seam depti	ns: <u>07</u>	<u> </u>	915	coal being m	ined in the area	? Yes/ No/
CASING AND	PUBING PROG	RAM						
CASING OR TUBING TYPE	1	ECIFICATION Weight de per ft	9	11		INTERVALS Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor	16"		1 1	Х	20'	201	cement to surface	Kinds
Fresh water	8-5/8							
Coal	8-5/8	24#	Х		<u>550'</u>	550'	cement to surface	Sizes
Intermediate	2	-No. 80						
Production	412"	11.616	X	2	3001	2300'	cement to 300 above producing	Depths set
Pubing							horizon	
Liners					**************************************			Perforations:
-								Top Bottom
	1 .							
·		Advanced Company						
where is no THIS PERMIT All provisions of the W. V for <u>dri</u> operations ha	ted as such MUST BE s being in code, the	rate Formula on the F POSTED A accordance location is . This period by	i IV-2 s liating lorm IV- AT THE with Ch s hereby ermit sha	is to be 2 filed  WELL SI  mapter 2: approve	e part of in conne	tired for fra the work fo ection therew	cturing or stimer which a permit	viating a well t is sought and
or is  The continuity of the c	e undersign examined to be to	ee who has ued within ned coal o this propo l location done at s of the w	record fiftee operator osed wel has be this lo	ied a de en (15).  W 1 locaten adde ocation.	alaration days of:  A I V E !  owner ion. If d to the provided	under Code receipt there    1   lesse   a mine map comine map. 1   the well control   the	ee / of the	he permit  coal under this well ers the area of the has no objection to
)ate:		, 19	na	•			· · · · · · · · · · · · · · · · · · ·	
					. *	By management of the second	antoniana di matamata di m	National sub-design and supply with a proper proper supply and a supply of the suppl
		•				Its	Ÿ.	

Under this lease or grant dated the 1st day of August, 1907, by D. W. Gray, etux unto Hope Natural Gas Company, subsequently Consolidated Gas Supply Corporation.

This lease was recorded on the 26th day of January, 1902 in Lease Book 30, Page 148 in the Office of the County Clerk of Doddridge County, West Virginia.

Allegheny Land and Mineral Company is vested with the drilling rights of this lease by virtue of an assignment dated the 15th day of November, 1957 and is of record in the office of the County Clerk of Doddridge County in Book 60, Page 84.

