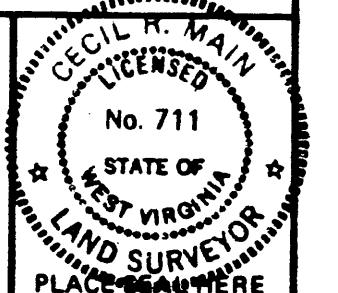


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION INTERSECTION OF RTS. _____
 ELEVATION 770'
 (17) and (7)

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) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE MARCH 26th 1982
 OPERATOR'S WELL NO. A-1163
 API WELL NO. 47-085-5552
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1010' WATER SHED OTTER SLIDE CREEK
 DISTRICT UNION COUNTY RITCHIE
 QUADRANGLE PULLMAN T.5' Hobbrook 15' WC
 SURFACE OWNER ERNEST L. MONK, ET AL. ACREAGE 109.38 Ac.
 OIL & GAS ROYALTY OWNER L. BASSELL MAXWELL HEIRS LEASE ACREAGE 593 Ac.
 LEASE NO. _____

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5300'
 WELL OPERATOR ALLEGHENY LAND and MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND and MINERAL CO.
 ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740
CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA 26302-1740

APR 19 1982
 Hazel Green-Lowford (128)



Date July 27, 1982
 Operator's _____
 Well No. A-1163
 Farm Maxwell
 API No. 47 - 003 - 5552

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

OIL and GAS DIVISION

WELL OPERATOR'S REPORT
 OF

RECEIVED

AUG - 2 1982

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE OIL AND GAS DIVISION
 WV DEPARTMENT OF MINES

WELL TYPE: OIL / GAS X / LIQUID INJECTION / WASTE DISPOSAL
 (If "Gas", Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1010' Watershed Otter Slide Creek
 District: Union County: Ritchie Quadrangle: Pullman 7.5'

COMPANY Allegheny Land and Mineral Co.
200 West Main Street
 ADDRESS Clarksburg, West Virginia 26301

DESIGNATED AGENT Allegheny Land & Mineral
200 West Main Street
 ADDRESS Clarksburg, West Virginia 26301

SURFACE OWNER Ernest L. Monk, etal
 ADDRESS 116 Summit Park, Elkview, W.Va.

MINERAL RIGHTS OWNER Maxwell Heirs
 ADDRESS P.O. Box 47, Clarksburg, W.Va.

OIL AND GAS INSPECTOR FOR THIS WORK Deo
Mace ADDRESS RT. 1 Box 5, Sandridge, WV

PERMIT ISSUED April 13, 1982

DRILLING COMMENCED June 2, 1982

DRILLING COMPLETED June 7, 1982

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
20-16 Cond.			
11 3/4"	21	21	
9 5/8"			
8 5/8"	1326.50	1326.50	to surface
7"			
5 1/2"			
4 1/2"	5225.92	5225.92	w/400 sks. 2900'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander | DEPTH 5300 FEET

Depth of completed well 5309 feet Rotary xxx / Cable Tools _____
 Water Strata depth: Fresh 240' feet Salt _____ feet
 Coal seam depth: _____ Is coal being mined in this area? 3279-3298

OPEN FLOW DATA ?
 Producing formation Riley, Alexander & Speechly Pay zone depth 3305-3310 feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow 4406-4411 Bbl/d
 Final open flow 933 Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 5 hours

Static rock pressure 1680 psig (surface measurement after 144 hours shut-in
 (If applicable due to multiple completion--))

Second producing formation _____ Pay zone depth _____ 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)

AUG 9 1982

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

Well was fractured, June 16, 1982

Perforations: 3279 - 3292 4 holes
3294 - 3298 5 holes
3305 - 3310 6 holes
4406 - 4411 12 holes

3279-3310

4406-4411 Huron shale

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
			Including indication of all fresh and salt water, coal, oil and gas
G.L.	0	10	Damp @ 240'
Sand & Shale	10	696	Gas check @ 1938' No show
Sand	696	735	Gas check @ 2032' No show
Sand & Shale	735	852	Gas check @ 2528' No show
Sand	852	885	Gas check @ 2738' No show
Sand & Shale & Red Rock	885	1040	Gas check @ 4005' No show
Sand & Shale	1040	1348	Gas check @ 4066' No show
Sand & Shale & Red Rock	1348	1909	Gas check @ 4907' No show
L. Lime	1909	1931	Gas check @ 5156' No show
B. Lime	1931	1998	Gas check @ 5309' No show
B. Injun	1998	2078	
Sand & Shale	2078	3828	
Balltown	3828	3848	
Sand & Shale	3848	4970	
D-Sand	4970	4980	
Sand & Shale	4980	5050	
D-Sand	5050	5060	
Sand & Shale	5060	5080	
D-Sand	5080	5110	
Sand & Shale	5110	5170	
D-Sand	5170	5200	
Sand & Shale	5200	5309 T.D.	above Rhinestreet, below Huron.

(Attach separate sheets as necessary)

Allegheny Land and Mineral Company

Well Operator

By:

A. J. Sabat
Vice President Oil & Gas Operations

Date:

July 26, 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."



WELL NO. A-1163
FARM NAME Maxwell
API WELL NO. 47 - 085 - 5552
DATE April 7, 1982

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL and GAS DIVISION
OIL and GAS WELL PERMIT

WELL TYPE: Oil / Gas XXX /
If "Gas", Production / Underground storage / Deep / Shallow XXX /
LOCATION: Elevation: 1010 Watershed: Otter Slide Creek
District: Union County: Ritchie Quadrangle: Pullman 7.5'

WELL OPERATOR Allegheny Land and Mineral Company
Address P. O. Drawer 1740
Clarksburg, West Virginia 26301

DESIGNATED AGENT Allegheny Land & Mineral Company
Address P. O. Drawer 1740
Clarksburg, West Virginia 26301

OIL & GAS
ROYALTY OWNER Maxwell Heirs
Address % Haymond Maxwell, Agent
P.O. Box 47, Clarksburg, WV 26301
Acreage 593

COAL OPERATOR N/A
Address

SURFACE OWNER Ernest L. Monk, etal.
Address % Danny J. Monk
116 Summit Park, Elkview, WV 25071
Acreage 109.38

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Maxwell Heirs
Address % Haymond Maxwell Agent
P.O. Box 47, Clarksburg, WV 26301
Name
Address

FIELD SALE (IF MADE) TO: Consolidated Gas Supply Corp.
Address 445 West Main Street
Clarksburg, WV 26301

OIL AND GAS INSPECTOR TO BE NOTIFIED:
Name Deo Mace
Address Rt.1, Box 5
Sandridge, WV 25274

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address

RECEIVED

**OIL AND GAS DIVISION
WV DEPARTMENT OF MINES**

APR 8 1982

The undersigned well operator is entitled to operate for oil or gas purposes as the above location under a deed
 / lease XX / other contract / dated April 30, 1979, to the undersigned well operator from Maxwell Heirs

(If said deed, lease, or other contract has been recorded:)

Recorded on August 2, 1979, in the office of the Clerk of the County Commission of Ritchie County, West Virginia in Lease Book 128 at page 453. A permit is requested as follows:

PROPOSED WORK: Drill XXX / 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 §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
1613 WASHINGTON STREET, EAST
CHARLESTON, WV 25311

Telephone (304) 348-3092

BY: Daniel L. Wheeler
Daniel L. Wheeler, Vice President
P. O. Drawer 1740
Clarksburg, West Virginia 26301

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, Inc.
P. O. Drawer 1740
Buckhannon, West Virginia 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well 5300 feet Rotary XXX / Cable tools /

Approximate water strata depths: Fresh, 2040 feet; salt, feet.

Approximate coal seam depths: Unknown Is coal being mined in the area? Yes / No XX /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP or SACKS (Cubic Feet)	PACKERS Kinds
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left in well		
Conductor	16"				X	20'	20'	cement to surface	
Fresh Water	8-5/8"								Sizes
Coal	8-5/8"		20#	X		700'	700'	cement to surface	
Intermediate									Depths set
Production	4-1/2"		J-55 10.50#	X		5300'	5300'	cement to 300' above producing horizon or as required by Rule 15.01	
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 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 with fifteen (15) days of receipt thereof.

WAIVER

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 by the West Virginia Code and the governing regulations.

Date: _____ 19 _____ BY: _____

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 12-13-82.
BY T. J. Smith

