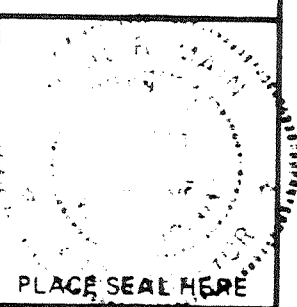


SHEET 54 51 W2

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION INTERSECTION (20) and
 ELEVATION 1184'

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE FEBRUARY 11th 19 82
 OPERATOR'S WELL NO A-1087
 API WELL NO 47 - 017 - 3084
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1332' WATER SHED BIG BATTLE RUN
 DISTRICT Mc CLELLAN COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7.5' Centerpoint 151 C
 SURFACE OWNER MARY K. POST ACREAGE 78 1/2 Ac.
 OIL & GAS ROYALTY OWNER CLARISSA A. STARKEY HEIRS LEASE ACREAGE 78 1/2 Ac.
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6-6
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ SMITHTON PLINT-SEDALIA
 TARGET FORMATION FIFTH SAND ESTIMATED DEPTH 3400'
 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 6 1982



Date June 1, 1982
 Operator's
 Well No. A-1087
 Farm Starkey
 API No. 47 - 017 - 3084

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 X / LIQUID INJECTION / WASTE DISPOSAL /
 (If "Gas", Production / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1332' Watershed Big Battle Run
 District: McClellan County: Doddridge Quadrangle: Smithburg 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 Mary K. Post
 ADDRESS Rt. 1, Salem, W. Va.

MINERAL RIGHTS OWNER Jennings Starkey, etal
6167 Roseville
 ADDRESS H. Ridgeville, Ohio 44035

OIL AND GAS INSPECTOR FOR THIS WORK Stephen
Casey ADDRESS Rt 2, Box 232-D, Jane Lew, WV

PERMIT ISSUED March 23, 1982

DRILLING COMMENCED April 30, 1982

DRILLING COMPLETED May 2, 1982

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

Casing & Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
20-16			
11 3/4"	27'	27'	
9 5/8"			
8 5/8"	1203'	1203'	to surface
7"			
5 1/2"			
4 1/2"	3115'	3115'	w/250 sks. 1900'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMAION Fifth Sand DEPTH 3400 FEET

Depth of completed well 3220 feet Rotary xxx / Cable Tools
 Water Strata depth: Fresh 716 & 1937 feet Salt feet
 Coal seam depth: 137-139 & 635-637 Is coal being mined in this area?

OPEN FLOW DATA

Producing formation Injun, Pocono & Weir Pay zone depth feet
 Gas: Initial open flow 14 Mcf/d Oil: Initial open flow Bbl/d
 Final open flow 1264 Mcf/d Final open flow Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 300 psig (surface measurement after 12 hours shut-in
 (If applicable due to multiple completion--)
 Second producing formaiton Pay zone dpeth 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)

JUN 22 1982

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

Well was fractured May 20, 1982
 Perforations: 2306 - 2322 17 holes
 2358 - 2364 8 holes
 2371 - 2381 8 holes
 2990 - 2995 12 holes

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
			Including indication of all fresh and salt water, coal, oil and gas
Red Dog-Dirt	0	27	H ₂ O @ 716'
Sand	27	91	H ₂ O @ 1937'
Red Dog	91	98	Gas check @ 2543' no show
Sand	98	137	Gas check @ 2890' 42MCF
Coal	137	139	Gas check @ 2973' 14MCF
Sand & Shale	139	196	Gas check @ 3220' no show
Shale	196	206	
Red Rock	206	210	
Sand & Shale & Red Rock	210	635	
Coal	635	637	
Sand & Shale	637	651	
Sand	651	675	
Sand & Shale	675	1190	
Red Rock	1190	1215	
Sand & Shale	1215	2154	
L. Lime	- 2154	2177	
Sand & Shale	2177	2200	
B. Lime	- 2200	2275	
Pocono	2275	2335	
Sand & Shale	2335	2515	
Weir	2515	2520	
Sand & Shale	2520	2968	
Berea	- 2968	2973	
Sand & Shale	2973	3220 T.D.	

(Attach separate sheets as necessary)

Allegheny Land and Mineral Company

Well Operator

By: _____

A.D. Subata

Vice President Oil & Gas Operations

Date: June 1, 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."



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

WELL NO. A-1087
FARM NAME Starkey 3084
API WELL NO. 47 - 017 -
DATE February 26, 1982

WELL TYPE: Oil / Gas XXX /
If "Gas", Production / Underground storage / Deep / Shallow XXX /)
LOCATION: Elevation: 1332' Watershed: Big Battle Run
District: McClellan County: Doddridge Quadrangle: Smithburg 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 Clarissa A. Starkey Heirs

ROYALTY OWNER c/o Jennings Starkey, etal
Address 6167 Roseville
H. Ridgeville, Ohio 44035

COAL OPERATOR
Address

Acreage 78.50

SURFACE OWNER Mary K. Post
Address Route 1
Salem, West Virginia 26426

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Consolidation Coal Company
Address P. O. Box 1314
Morgantown, West Virginia 26505

Acreage 78.50

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

Name
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
Name Stephan Casey 884-7470
Address Route 2, Box 232-D
Jane Lew, West Virginia 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

The undersigned well operator is entitled to operate for oil or gas purposes as the above location under a deed / lease XXX / other contract / dated January 26, 1960, to the undersigned well operator from James R. Starkey, etal

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

Recorded on October 28, 1960, in the office of the Clerk of the County Commission of Doddridge County, West Virginia in Lease Book 71 at page 323. 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

ALLEGHENY LAND AND MINERAL COMPANY

RECEIVED
FEB 26 1982
OIL AND GAS DIVISION
DEPARTMENT OF MINES

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

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

GEOLOGICAL TARGET FORMATION, Fifth Sand

Estimated depth of completed well 3400 feet Rotary XXX / Cable tools /

Approximate water strata depths: Fresh, 332 feet; salt, feet.

Approximate coal seam depths: 412-432 Is coal being mined in the area? Yes / No /

CASING AND TUBING PROGRAM 475-480; 667-682; 921-932

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP or SACKS (Cubic Feet)	PACKERS
	Size	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"								Sizes
Coal	8-5/8"		20#	X		1300'	1300'	cement to surface	
Intermediate									Depths set
Production	4-1/2"		J-55 10.50#	X		3400'	3400'	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 form 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 11-23-82
 BY [Signature]