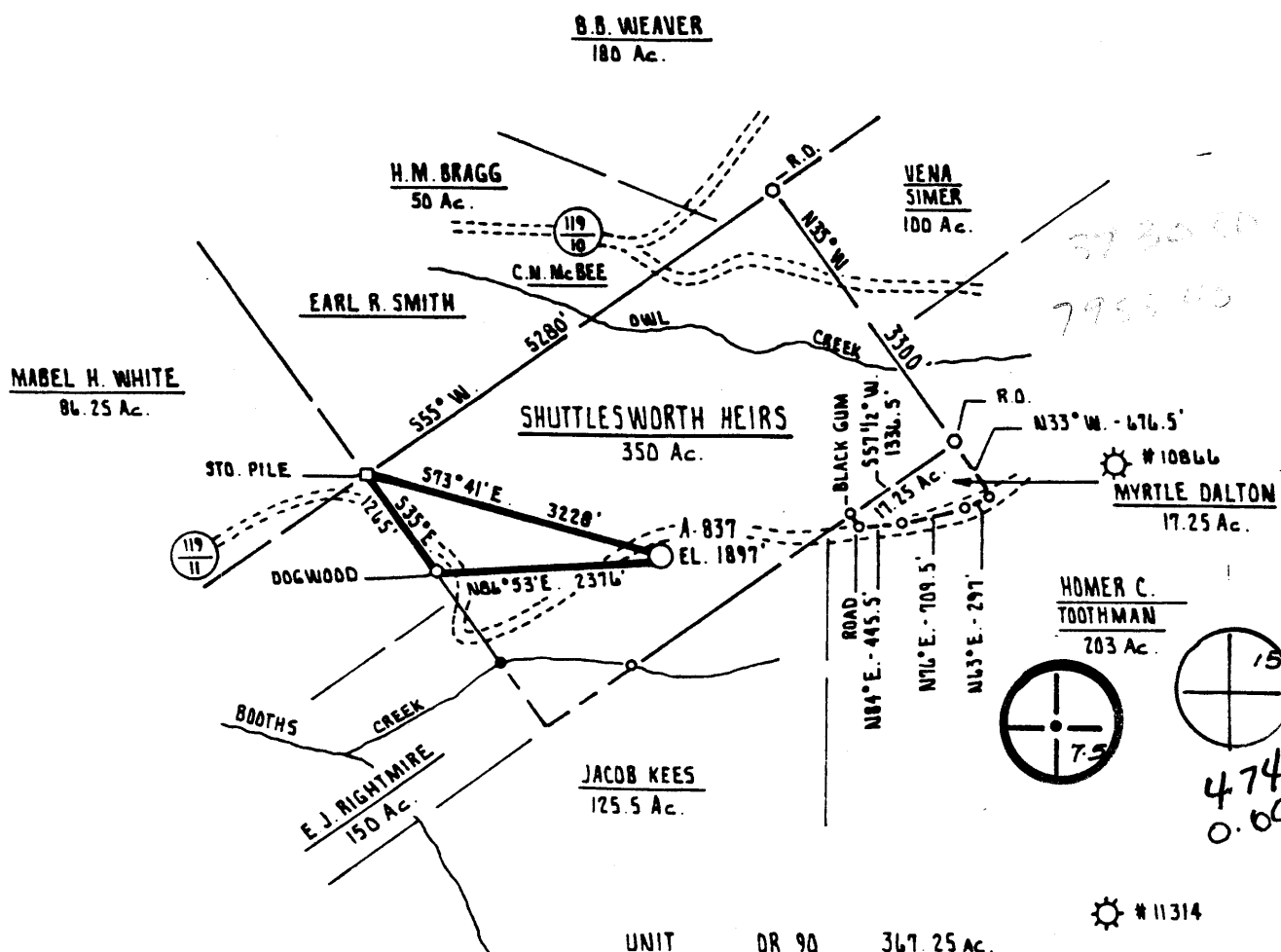


NORTH



LEASE NO.	MINERAL OWNER	ACRES
G-119643	SHUTTLESWORTH HEIRS	350 Ac.
G-	MYRTLE DALTON	17.25 Ac.

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION INT. OF   
 ELEVATION 1588'

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) Carl R. Mann  
 R.P.E. \_\_\_\_\_ L.L.S. 711



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



DATE OCTOBER 29<sup>th</sup> 19 81  
 OPERATOR'S WELL NO. A-837  
 API WELL NO. 47-061-0638  
 STATE CLINTON COUNTY MANONGALIA 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 1897' WATER SHED BOOTH'S CREEK  
 DISTRICT CLINTON COUNTY MANONGALIA  
 QUADRANGLE MORGANTOWN SOUTH 7.5' Morgan town 15' SW  
 SURFACE OWNER DARWIN CORPORATION ACREAGE 350 Ac.  
 OIL & GAS ROYALTY OWNER SHUTTLESWORTH HEIRS MYRTLE DALTON LEASE ACREAGE 367.25'  
 LEASE NO. G-119643

PROPOSED WORK: DRILL  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 ORISKANY ESTIMATED DEPTH 8100  
 WELL OPERATOR ALLEGHENY LAND & MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND & MINERAL CO. 3/3  
 ADDRESS P.O. Box 1740 ADDRESS P.O. Box 1740  
CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA - 26302-1740

DEC 4 1981

G-9 SOUTH BURNS CHAPEL  
8100  
ALLEGHENY LAND & MINERAL CO. 3/3  
P.O. Box 1740  
CLARKSBURG, WEST VIRGINIA - 26302-1740



Date March 9, 1982  
 Operator's \_\_\_\_\_  
 Well No. A-837  
 Farm Shuttlesworth  
 API No. 47 - 061 - 0638

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 XX /)

LOCATION: Elevation: 1897' Watershed Monongalia  
 District: Clinton County: Monongalia Quadrangle: Morgantown South

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

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

SURFACE OWNER S.A. & Frank Shuttlesworth  
 ADDRESS 19 Twin Pines Road  
Hilton Head Island, N.C.

MINERAL RIGHTS OWNER Darwin Corporation  
 ADDRESS P. O. Box 663  
Morgantown, West Virginia

OIL AND GAS INSPECTOR FOR THIS WORK William Blosser  
 ADDRESS Rt.4, Box 317, Fairmont, WV

PERMIT ISSUED November 21, 1981

DRILLING COMMENCED December 16, 1981

DRILLING COMPLETED January 6, 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			
13-10"			
9 5/8"			
8 5/8"	1276'	1276'	to surface
7"			
5 1/2"			
4 1/2"	7744'	7744'	w/200 sks.
3			
2			
Liners used			

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MAR 11 1982

OIL AND GAS DIVISION  
 WV DEPARTMENT OF MINES

GEOLOGICAL TARGET FORMATION Oriskany DEPTH 8100 FEET

Depth of completed well 7904 feet Rotary xxx / Cable Tools \_\_\_\_\_  
 Water Strata depth: Fresh 46 feet Salt \_\_\_\_\_ feet  
 Coal seam depth: 45-48 and 116-122 Is coal being mined in this area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation Chert HUNTERSVILLE Pay zone depth \_\_\_\_\_ feet  
 Gas: Initial open flow 88 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 2768 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 4 hours

Static rock pressure 3400 psig (surface measurement after 6 days 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)

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

Well was fractured February 18, 1982  
Perforations: 7605' - 7631' 26 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
Sand & Shale	0	45	1/2" water @ 46'
Coal	45	48	Gas check @ 1833' No show
Shale	48	116	Gas check @ 1940' No show
Coal	116	122	Gas check @ 2392' 3MCF
Shale	122	132	Gas check @ 2570' 2MCF
Sand	132	180	Gas check @ 2723' 3MCF
Shale	180	209	Gas check @ 2923' 4MCF
Sand	209	558	Gas check @ 3239' 2MCF
Sand & Red Rock	558	575	Gas check @ 3553' 2MCF
Sand	575	650	Gas check @ 3773' 3MCF
B. Lime	650	660	Gas check @ 3991' 2MCF
Shale	660	668	Gas check @ 4148' 2MCF
Lime	668	695	Gas check @ 4548' 4MCF
Shale	695	700	Gas check @ 4952' 4MCF
Lime	700	935	Gas check @ 5141' 3MCF
Sand & Shale	935	3890	Gas check @ 5547' No show
Benson	3890	3918	Gas check @ 5735' No show
Sand	3918	4116	Gas check @ 5229' 2MCF
Sand & Shale	4116	4827	Gas check @ 5806' 7MCF
Shale	4827	4830	Gas check @ 6018' 6MCF
Sand	4830	5359	Gas check @ 6240' 6MCF
Sand & Shale	5359	7140	Gas check @ 6646' 6MCF
Lime	7140	7212	Gas check @ 6859' 6MCF
Shale	7212	7546	Gas check @ 7078' 2MCF
Onondaga	7546	7563	Gas check @ 7264' 7MCF
Chert	7563	7726	Gas check @ 7438' 3MCF
Sand & Shale	7726	7907 T.D.	Gas check @ 7593' 3MCF
			Gas check @ 7781' 8MCF
			Gas check @ 7907' No show

(Attach separate sheets as necessary)

Allegheny Land and Mineral Company

Well Operator

By: \_\_\_\_\_

*A. J. Sabata*  
Vice President Production

Date: \_\_\_\_\_

March 9, 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-837  
FARM NAME Shuttlesworth Heirs  
API WELL NO. 47 - 061 - 0638  
DATE November 3, 1981

WELL TYPE: Oil        / Gas XXX /  
If "Gas", Production        / Underground storage        / Deep        / Shallow XXX /  
LOCATION: Elevation: 1,897' Watershed: Booths Creek  
District: Clinton County: Monongalia Quadrangle: Morgantown South 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 Darwin Corporation  
Address P. O. Box 663  
Morgantown, West Virginia 26505

COAL OPERATOR N/A  
Address       

Acreage 350  
SURFACE OWNER S. A. & Frank Shuttlesworth Heirs  
Address 19 Twin Pines Road  
Hilton Head Island, SC 29928  
Acreage 367

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name S. A. & Frank Shuttlesworth Heirs  
Address 19 Twin Pines Road  
Hilton Head Island, South Carolina 29928

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         
Address       

COAL LESSEE WITH DECLARATION ON RECORD  
Name         
Address       

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OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

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 15, 1974, to the undersigned well operator from Evelyn S. Shingleton, etal unto Phillips Petroleum subsequently unto Allegheny Land & Mineral Company

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

Recorded on       , 19      , in the office of the Clerk of the County Commission of Monongalia County, West Virginia in Deed Book 746 at page 571. 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

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

BLANK

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, Oriskany

Estimated depth of completed well 8,100 feet Rotary XXX / Cable tools      /

Approximate water strata depths: Fresh, 546 feet; salt,      feet.

Approximate coal seam depths: 76-79 Is coal being mined in the area? Yes      / No      /

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	Left in well		
Conductor	16"				X	20'	20'	cement to surface	Kinds
Fresh Water	8-5/8"								Sizes
Coal	8-5/8"		24#	X		700'	700'	cement to surface	Depths set
Intermediate									
Production	4-1/2"		N-80 11.616	X		8100'	8100'	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, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 7-21-82.

*Ted Burdette*  
Deputy Director - Oil & Gas Division