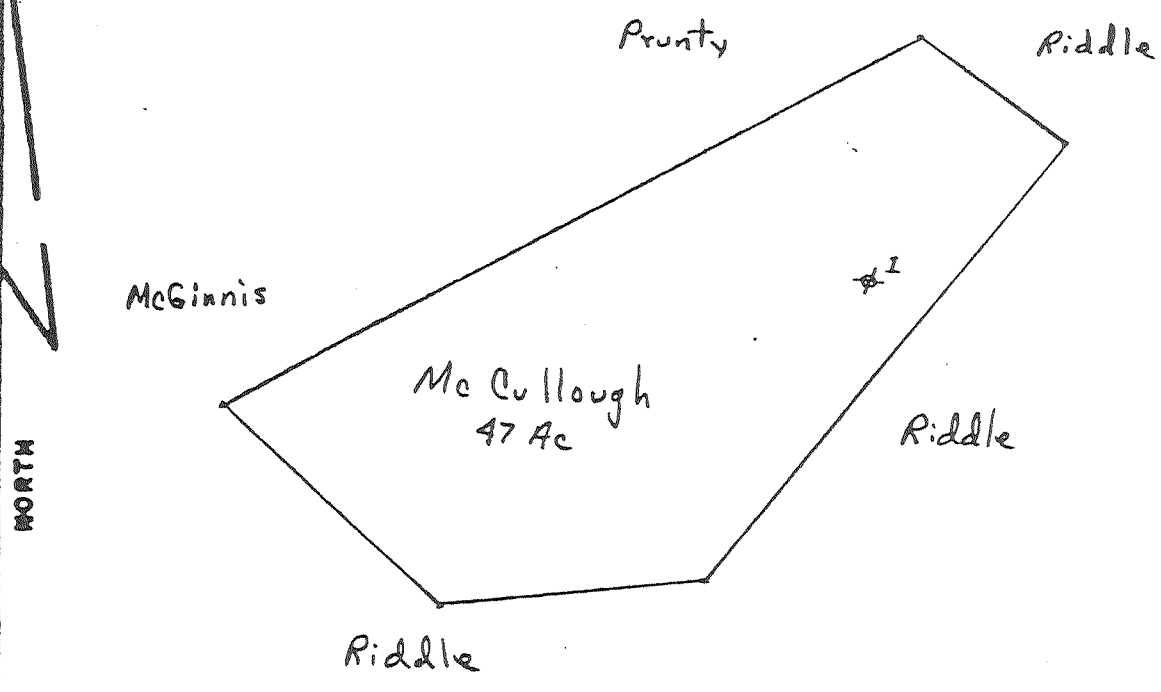


LATITUDE 39° 15.5'

LONGITUDE 80° 59.5'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 300'
 MINIMUM DEGREE OF ACCURACY .05±
 PROVEN SOURCE OF ELEVATION _____

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) W Kevin Snider
 R.P.E. _____ L.L.S. _____

PLACE SEAL HERE



DATE FEBRUARY 10, 19 79
 OPERATOR'S WELL NO. #7
 API WELL NO. _____
47 085 - 4681
 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 _____ WATER SHED BUNNELL RUN
 DISTRICT CLAY COUNTY RITCHIE
 QUADRANGLE HARRISVILLE
 SURFACE OWNER _____ ACREAGE _____
 OIL & GAS ROYALTY OWNER _____ LEASE NO. _____ LEASE ACREAGE 47
 PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) STRIPPER GAS CLASSIFICATION
 PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION _____ ESTIMATED DEPTH _____
 WELL OPERATOR PALMER HILL DESIGNATED AGENT _____
 ADDRESS Box 595 ADDRESS _____
PENNSBARD WVA 26915

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

[08-78,

WELL OPERATOR'S REPORT
OF

Operator's
Well No. McCullough #1
API Well No. 47 - 085 - 468
State County Perm:

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ✓ / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production ✓ / Underground storage ___ / Deep ___ / Shallow ___ /)
LOCATION: Elevation: _____ Watershed: BUNNELL RUN
District: CLAY County: RITCHIE Quadangle: HARRISVILLE

WELL OPERATOR PALMER HILL DESIGNATED AGENT NONE
Address Box 545 Address _____
PENNSBORO, W.VA 26415

PERMITTED WORK: Drill ___ / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation ___
Other physical change in well (specify) STRIPPER GAS CLASSIFICATION

PERMIT ISSUED ON _____, 19____ OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name _____
Address _____

GEOLOGICAL TARGET FORMATION: _____ Depth _____ feet
Depth of completed well, _____ feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh, _____ feet; salt, _____ feet.
Coal seam depths: _____ Is coal being mined in the area? No
Work was commenced _____, 19____, and completed _____, 19____

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		
Conductor								Kinds <u>anchor</u>
Fresh water								Sizes <u>2x6 5/8</u>
Coal								Depths set <u>1796</u>
Intermediate								Perforations:
Production	<u>6 5/8</u>					<u>1786</u>	<u>1786</u>	Top _____ Bottom _____
Tubing	<u>2</u>						<u>1950</u>	
Liners								

OPEN FLOW DATA

Producing formation Injun Pay zone depth 1925 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
[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

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

085-4681

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Big Lime			1776	1847	
Keener			1851	1878	
Big Injun			1878	1945	gas at 1925
Total Depth				1950	

(Attach separate sheets to complete as necessary)

Palmer Hill
Well Operator

By Palmer Hill

Its Owner

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."