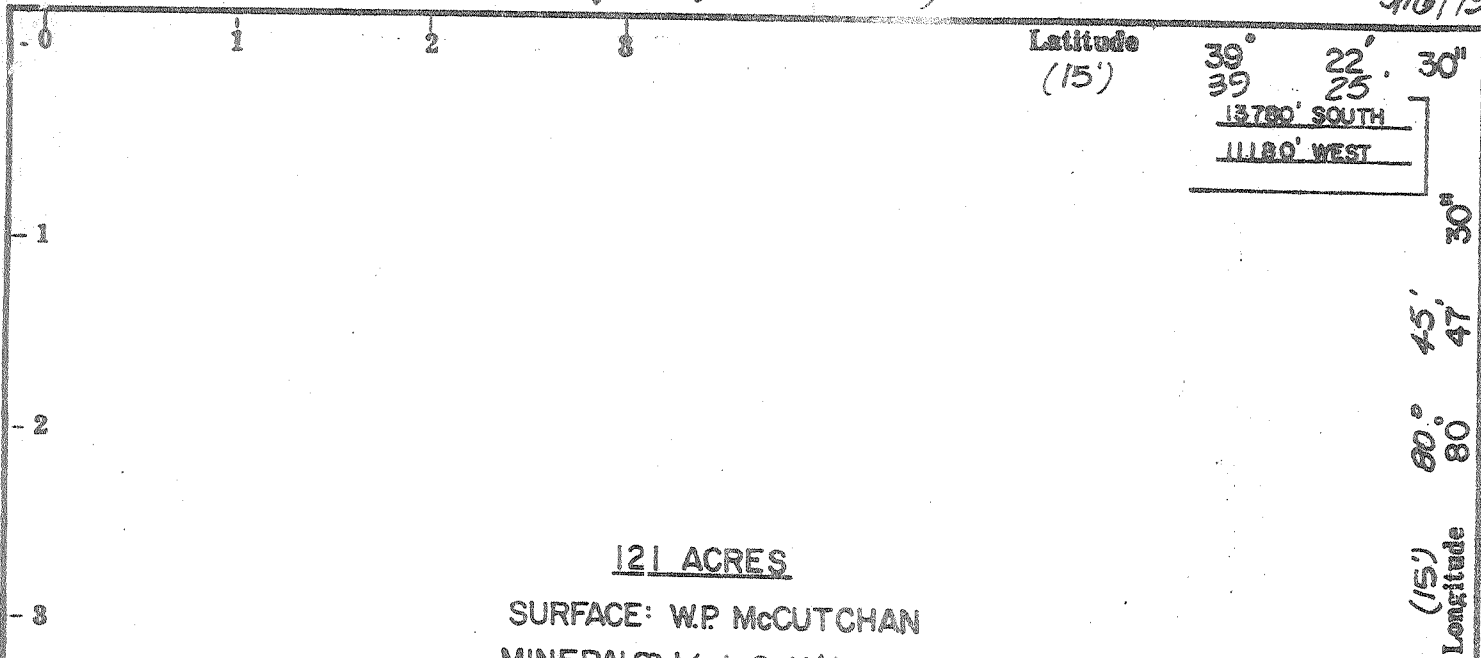
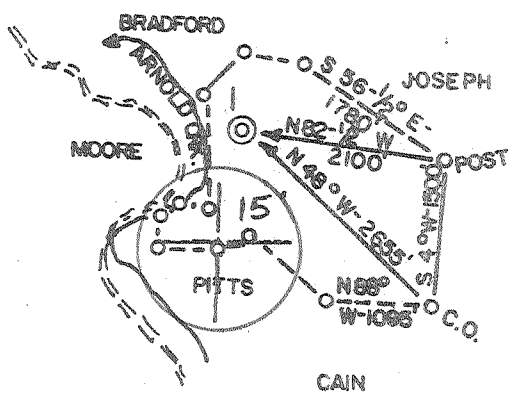


3/16/79 RE

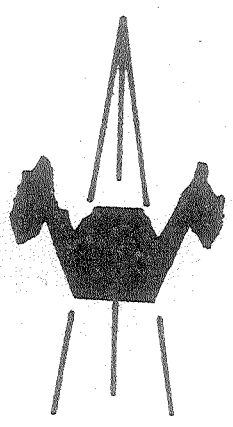


121 ACRES  
 SURFACE: W.P. McCUTCHAN  
 MINERALS: 1/2 L.G. HAMMER.  
 1/2 W.P. McCUTCHAN



CAIN 39 20.15  
80 50

5.445  
4.40W



ACCURACY: 1'/200'

Source of Elevation DEEP VALLEY (750')

- New Location
- Drill Deeper  GAS
- Abandonment
- Fracture
- Redrill

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the regulations of the oil and gas section of the mining laws of West Virginia.

FIFTH 2800'

Company INDUSTRIAL GAS ASSOCIATION  
 Address GREENWICH, CONN.  
 Farm L.G. HAMMER  
 Tract \_\_\_\_\_ Acres 121 Lease No. \_\_\_\_\_  
 Well (Farm) No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 918'  
 Quadrangle WEST UNION, 7 1/2, 15'  
 County DODDRIDGE District CENTRAL  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 79-154 Drawing No. \_\_\_\_\_  
 Date 3/14/79 Scale 1" = 2000'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. 47-017-2359

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.  
 — Denotes one inch spaces on border line of original tracing.

APR 10 1979

2700' Area 6-6 SMITHSON FLINT-JEDALIA 99 92



Hanes #1

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb.   
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle West Union 7 1/2

Permit No. 47-017-2359

Company Industrial Gas Company  
Address Box 1610, Greenwich, Connecticut  
Farm Haynes Acres 121  
Location (waters) Arnolds Creek  
Well No. 1 Elev. 918  
District Central County Doddridge  
The surface of tract is owned in fee by W. P. McCutchan  
Address Box 8, West Union, WV  
Mineral rights are owned by W. P. McCutchan  
G. Hammer Address Box 8 West Union, WV  
Drilling Commenced 3-20-79  
Drilling Completed 3-26-79  
Initial open flow show cu. ft. \_\_\_\_\_ bbls.  
Final production 650,000 cu. ft. per day 2 bbls.  
Well open 4 hrs. before test 600 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Weir - Fraced with 321 bbls. water - 21,000# sand - 48,000 SCF N<sup>2</sup>  
Injun - Fraced with 348 bbls. water - 21,000# sand - 50,000 SCF N<sup>2</sup>

Coal was encountered at none Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water 75 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Weir and Injun Depth W-2130-2234 I-1884-1988

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil	Brown	soft	0	10		
Sand & Shale		soft	10	900		
Shale	Black	soft	900	970		
1st Cow Run	White	soft	970	1026		
Shale	Black	soft	1026	1052		
2nd Cow Run	White	soft	1052	1092		
Shale	Black	hard	1092	1174		
Sand	White	hard	1174	1204		
Shale	Black	soft	1204	1330		
Sand	White	hard	1330	1345		
Shale	Black	soft	1345	1376		
Sand	White	hard	1376	1448		
Shale	Black	soft	1448	1538		
Sand	White	hard	1538	1585		
Shale	Black	soft	1585	1684		
Sand	White	soft	1684	1700		
Shale	Black	soft	1700	1794		
Big lime	White	hard	-1794	1884		
Big Injun	White	hard	1884	1988		
Shale	Black	soft	1988	2130		
Weir	Black	soft	2130	2234		
Shale	Brown	soft	2234	2300		
TD				2300		

MAY 1 1979  
DEPT. OF MINES

\* Indicates Electric Log tops in the remarks section.

(over)



THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Gene Stalaker, Inc. NAME Dallas Frederick  
 ADDRESS Letter, Gap, W.V. ADDRESS Box 13 Hobe, W.V.  
 TELEPHONE 462-7092 TELEPHONE 345-7484  
 ESTIMATED DEPTH OF COMPLETED WELL: 2700 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Baron  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	240	240	Circ.
7			
5 1/2			
4 1/2		2700	125 Sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS 3/A  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title