

Fracture Before 6/5/29
 New Location
 Drill Deeper
 Redrill
 Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia. *Paul S. Dean*
 The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations. PROVEN ELEVATION 1650

Company ALLERTON MILLER
 Address 3309 GRANT BLDG, PITTSBURGH, PA. 15219
 Farm R.C. SHACKLEFORD
 Tract ONE Acres 133 Lease No. _____
 Well (Farm) No. TWO Serial No. _____
 Elevation (Spirit Level) 1650
 Quadrangle CRAWFORD N6
 County UPSHUR District BUCKHANNON
 Engineer PAUL G. DEAN
 Engineer's Registration No. 1856
 File No. 136-B-26 Drawing No. 68-42
 Date JULY 25, 1968 Scale 1" = 30 FEET

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

WELL LOCATION MAP
 FILE NO. 445-1115

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 5

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well **Gas** (KIND)

WELL RECORD

Quadrangle Crawford
Permit No. UPS-1115

Company Allerton Miller
Address 3309 Grant Building, Pittsburgh, Pa.
Farm R. C. Shackelford Acres 133
Location (waters) _____
Well No. M-387 (2) Elev. 1650'
District Buckhannon County Upshur
The surface of tract is owned in fee by _____
Address _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	31'	31'	Size of
10			Depth set
8 5/8	889'	889'	
6 3/4			Perf. top <u>4293'</u>
5 3/16	4343'	4343'	Perf. bottom <u>4297'</u>
4 1/2			Perf. top _____
3			Perf. bottom _____
2			
Liners Used			

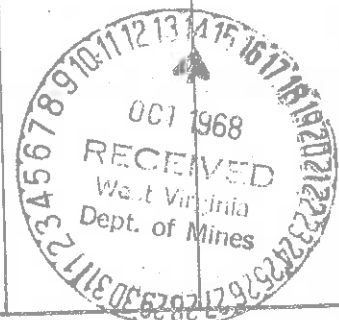
Mineral rights are owned by _____
Address _____
Drilling commenced August 11, 1968
Drilling completed August 17, 1968
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 35,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____

Attach copy of cementing record.
CASING CEMENTED 4 1/2" SIZE 1250 No. Ft. 8/18/68 D:
Amount of cement used (bags) 250
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCH
_____ FEET _____ INCHES _____ FEET _____ INCH
_____ FEET _____ INCHES _____ FEET _____ INCH

WELL FRACTURED (DETAILS) 9/4/68 - Dowell - 32,300 Gal. Waterfrac
60,000 Lbs. Sand

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 400,000 400 McF
ROCK PRESSURE AFTER TREATMENT 750# HOURS 96
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Benson Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale			0	238	Water @	47'	
Sand			238	285			
Shale & Red Rock			285	387			
Sand & Shale			387	690	Water @	388'	
Shale			690	724			
Sand			724	742			
Gritty Lime			742	786			
Sand			786	857			
Shale			857	920			
Sand			920	1050			
Shale			1050	1083			
Lime			1083	1122	Water @	1105'	
Shale			1122	1270			
Sand & Shale			1270	1337			
Red Rock & Shale			1337	1533			
Little Lime			1533	1550			
Shale			1550	1590			
Big Lime			1590	1680	Hole Damp @	1672'	
Injun Sand			1680	1732			
Lime			1732	1795			
Lime & Shale Streaks			1795	1830			
Sand			1830	1877			
Sand & Shale			1877	2112			
Red Rock			2112	2121			
Sand, Shale & Red Rock			2121	2160			
Red Rock & Shale			2160	2204			
Sand			2204	2227			
Shale			2227	2237			
Sand & Shale			2237	2331			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			2331	2367			
Sandy Lime & Shale		Streaks	2367	2488			
Sand & Shale			2488	2833			
Lime & Shale			2833	3010			
Shale			3010	4280			
Benson Sand		<i>Benson</i>	4280	4295			
Shale			4295	4394	Total Depth		

1968

Date October 9, 1968

APPROVED Allerton Miller, Owner

By Allerton Miller
(Title)