

Minimum Error of Closure $\frac{1}{2,000}$

Source of Elevation R.R. XING 2/3 MILE WEST OF LOCATION

- Fracture.....
- New Location.....
- Drill Deeper.....
- 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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: Paul H. Dean

Map No. Squares: N S E W

Company MICOA INC.
 Address 211 WATER STREET, WESTON, W.VA.
 Farm FLESHER HEIRS SURF. DOTSON 1/2 O.G.
 Tract 1 Acres 27± Lease No. _____
 Well (Farm) No. TWO Serial No. _____
 Elevation (Spirit Level) 1060
 Quadrangle WEST UNION - 5C
 County DODDRIDGE District CENTRAL
 Engineer Paul H. Dean
 Engineer's Registration No. 1856
 File No. 136-5-24 Drawing No. 67-11
 Date FEB. 15, 1967 Scale 1" = 300'

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

WELL LOCATION MAP

FILE NO. 200-1455

† 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

Rotary
Spudder
Cable Tools
Storage

Quadrangle **West Union**

WELL RECORD

Permit No. **DoD 1455**

Oil or Gas Well **Oil & Gas**
(KIND)

Company	Micoa, Inc.	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address	Box 105 Weston, W. Va.	Size			
Farm	Lot Flesher Heirs Acres 27	16	18'	18'	Kind of Packer
Location (waters)	Wilhelm Run	13			Size of
Well No.	# 2 Elev. 1060	10	280'	Pulled	Depth set
District	Central County Doddridge	8 1/4	1099'	Pulled	
The surface of tract is owned in fee by	Lot Flesher Heirs & Clude Dotson	6% 7"	1868'	Pulled	
Mineral rights are owned by	Same	5 3/16			
	Address	4 1/2	2264'	Cemented	
Drilling commenced	May 1, 1967	3			Perf. top
Drilling completed	May 29, 1967	2			Perf. bottom
Date Shot	From To	Liners Used			Perf. top
With					Perf. bottom

Attach copy of cementing record.

CASING CEMENTED 4 1/2" SIZE 2264 No. FL 6/1/67 Date

Amount of cement used (bags) 35 sks. Cement 10 Bell

Name of Service Co. Lawson Cementing Co.

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

WELL ACIDIZED (DETAILS) _____

WELL FRACTURED (DETAILS) OVER

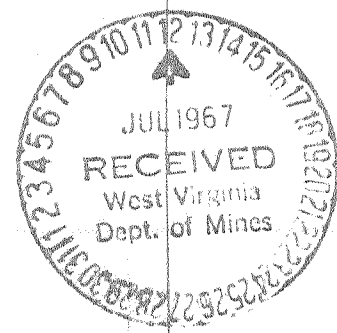
RESULT AFTER TREATMENT (initial open flow or bbls) 411,000 Cu. Ft. Gas, 1 bbls. Oil

ROCK PRESSURE AFTER TREATMENT 560 HOURS 24hrs.

Fresh Water 174' Feet Salt Water 765, 1730 Feet

Producing Sand Injun Depth 2227'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	19			
Sand			19	35			
Red Rock			35	50			
Sand			50	60			
Shale			60	64			
Red Rock			64	87			
Sand			87	96			
Red Rock & Shale			96	121			
Sand			121	174	Water	174'	
Red Rock			174	205			
Red Rock & Shale			205	238			
Sand			238	264			
Red Rock			264	276			
Sand			276	281			
Red Rock & Lime			281	310			
Shale			310	365			
Sand			365	393			
Red Rock & Shale			393	460			
Lime			460	485			
Red Rock			485	525			
Lime Sandy			525	540			
Slate & Shells			540	570			
Sand			570	590			
Red Rock			590	602			
Lime			602	608			
Red Rock			608	645			
Lime Sandy			645	659			
Red Rock & Shale			659	679			
Sand			679	765	Water	765'	



(over)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime & Shale			765	800			
Slate			800	815			
Lime			815	845			
Slate & Shells			845	930			
Red Rock			930	1012			
Red Rock & Lime			1012	1030			
Red Rock			1030	1061			
Lime Sandy			1061	1078			
Red Rock & Sand			1078	1099			
Sand			1099	1114			
Shale Sandy			1114	1152			
Red Rock & Shale			1152	1190			
Slate			1190	1198			
Red Rock			1198	1220			
Shale & Red Rock			1220	1248			
Sand & Lime			1248	1270			
Sand			1270	1324			
Shale			1324	1355			
Sand			1355	1358			
Lime Sandy			1358	1380			
Sand			1380	1390			
Lime Sandy			1390	1445			
Sand			1445	1485			
Slate			1485	1490			
Sand			1490	1566			
Slate & Sand			1566	1628			
Sand			1628	1736	Water	1730	
Slate & Shells			1736	1825			
Slate			1825	1859			
Sand			1859	1915			
Slate & Shells			1915	2022			
Red Rock			2022	2055			
Lime (Big)			2055	2121			
Lime Sandy			2121	2172			
Sand			2172	2196	Gas	2187	
Lime Sandy			2196	2205			
Sand			2205	2230	Gas	2225	
Slate			2230	2270			
			TD	2270			

5/28/67
Well was logged by Allegheny Nuclear Surveys.
Gamma Neutron Density Caliper Temp.

6/1/67
Well was cementing by Lawson Cementing Co.
4 1/2" casing was run to 2264' and cemented with 35 sks. Cement and 10 sks Gel.

6/17/67
Well was Perforated by Allegheny Nuclear Surveys.
6holes 2225-2227, 4 holes 2185-2188, 2 holes 2176-2177.

Well was fractured by Dowell.
700 bbls. Treated water, 17,000# sand, 1000 gals, acid.
Breakdown 1750#
Treating Pressure 2800#
Injection Rate 25.6 bbls.

Date July 11, 1967
APPROVED Jerry W. Mason, Owner
By [Signature] (Title)