

Company Okland Exploration  
 Address Box 391, Okland, W.V. 26114  
 Farm MARMET  
 Tract 2 Acres 1318.0 Lease No. \_\_\_\_\_  
 Well (Farm) No. 2 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 960.06  
 Quadrangle PEYTONA 15/BELLE 7.5  
 County KANAWHA District LOUDEN  
 Engineer Geo. H. Miller  
 Engineer's Registration No. 1892  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date OCTOBER 8 1966 Scale 1" = 500'

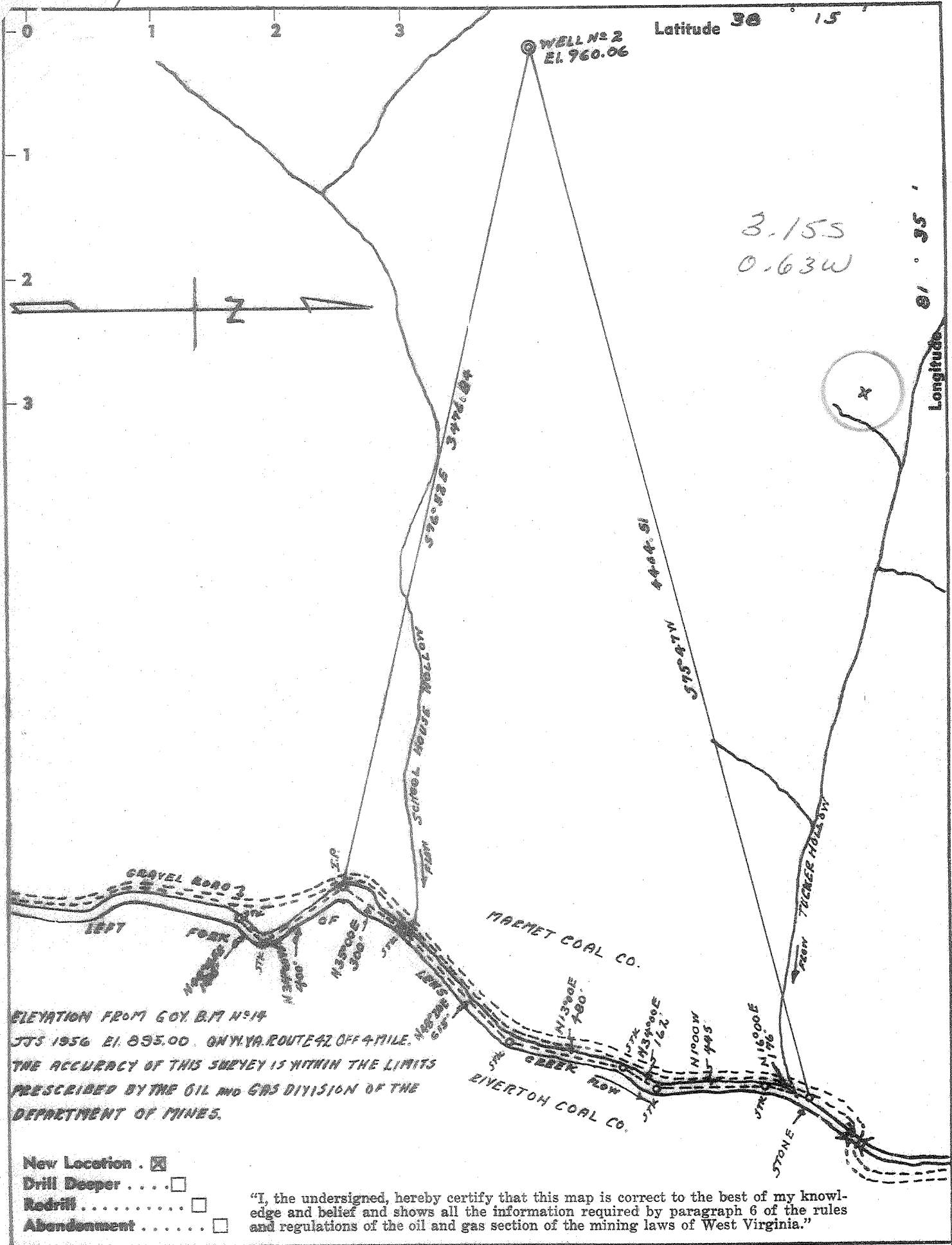
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. KAN-2085-P  
47-039-

+ 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.

APR 27 1990



ELEVATION FROM GOV. B.M. N°14  
 JTS 1956 EL. 895.00. ON W.VA. ROUTE 42 OFF 4 MILE.  
 THE ACCURACY OF THIS SURVEY IS WITHIN THE LIMITS  
 PRESCRIBED BY THE OIL AND GAS DIVISION OF THE  
 DEPARTMENT OF MINES.

- 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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company FACEBOWER CONSTRUCTION COMPANY  
 Address 305 NELSON BUILDING CHARLESTON, W.V.A.  
 Farm MAGNET  
 Tract 2 Acres 1318.0 Lease No. \_\_\_\_\_  
 Well (Farm) No. 2 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 960.06  
 Quadrangle PEYTONA NC  
 County KANAWHA District LOUREN  
 Engineer A. H. Miller  
 Engineer's Registration No. 1892  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date OCTOBER 8 1946 Scale 1" = 500'

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

**WELL LOCATION MAP**  
 FILE NO. KAN-2085

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APR 26 1971

38-15  
2-35

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage  S. NOLE  
Oil or Gas Well Gas (KIND)

WELL RECORD

Quadrangle Peytona  
Permit No. Kan. 2085

Company Pace-Bower Construction Company  
Address 305 Nelson Bldg., Charleston, W.Va.  
Farm Marmet Acres 2500  
Location (waters) Lens Creek 968.9KB  
Well No. 2 Elev. 961.9GT  
District Loudon County Kanawha  
The surface of tract is owned in fee by L.K. Marmet  
One Morris Apts. Address Charleston, W.Va.  
Mineral rights are owned by L.K. Marmet  
One Morris Apts. Address Charleston, W.Va.  
Drilling commenced 11/8/66  
Drilling completed 11/22/66  
Date Shot From To  
With  
Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume Cu. Ft.  
Rock Pressure lbs. hrs.  
Oil bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) See Completion Data  
WELL FRACTURED (DETAILS) See Completion Data

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8	31'2"	31'2"	
10			Size of
8 9-5/8	1586	1586	Depth set
6 3/16			
5 3/16	5542	5542	
4 1/2			Perf. top 5488
3	5474.8	5474.8	Perf. bottom 5490
2X 1 1/2			Perf. top 5495
Liners Used			Perf. bottom 5497

Attach copy of cementing record.  
CASING CEMENTED SIZE No. Ft. Dat  
Amount of cement used (bags) See Chronological Seq.  
Name of Service Co.  
COAL WAS ENCOUNTERED AT FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 5,000 Cubic Feet (Well Still Cleaning Up)  
ROCK PRESSURE AFTER TREATMENT 1810# HOURS  
Fresh Water Feet Salt Water Feet  
Producing Sand Newburg Depth

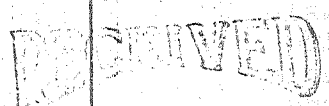
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Lithology based on Gamma Ray - all measurements from Kelly bushing.							
limestone & shale			0	170			
limestone & shale			170	188			
limestone & shale			188	243			
limestone & shale			243	282			
limestone & shale			282	358			
limestone & shale			358	377			
limestone & shale			377	383			
limestone & shale			383	403			
limestone & shale			403	407			
limestone & shale			407	413			
limestone & shale			413	435			
limestone & shale			435	522			
limestone & shale			522	527			
limestone & shale			527	556			
limestone & shale			556	628			
limestone & shale			628	705			
limestone & shale			705	716			
limestone & shale			716	730			
limestone & shale			730	783			
limestone & shale			783	800			
limestone & shale			800	930			
limestone & shale			930	945			
limestone & shale			945	975			
limestone & shale			975	1048			
limestone & shale			1048	1144			
limestone & shale			1144	1198			
limestone & shale			1198	1234			
limestone & shale			1234	1253			

Hole Size:  
12 1/4" to 1592  
8-3/4" 1592-5545  
Drilling Fluid:  
Air & Foam 0-5340  
Mud 5340-5545

Formation	Color	Hard or Soft	Top $\frac{4}{8}$	Bottom	Oil, Gas or Water	Depth Found	Remarks
Little Lime			1253	1333			
Big Lime			1333	1525			
Big Injun			1525	1555			
Shale			1555	1975			
Berea			1975	1977			
Shale			1977	4717			
Onondaga			4717	4810			
Oriskany			4810	4828			
Limestone & Chert - <i>McKenzie</i>			4828	5024	Top of Silurian	5024	
Dolomite & Anhydrite - <i>McKenzie</i>			5024	5485			
Newburg			5485	5507	Porosity	5488-91; 5494-97	
Dolomite - <i>McKenzie</i>			5507	5545	5545 T.D. (Driller)		
					5538 T.D. (Logger)		

CHRONOLOGICAL SEQUENCE OF EVENTS:

11/8/66	Commenced drilling.						
11/8/66	Ran one joint of 13-3/8" (48#) casing - cemented with 25 sacks.						
11/14/66	Ran 1586' of 9-5/8" casing - cemented with 100 cubic feet of cement and 200# of calcium chloride (Well Service).						
11/19/66	Mudded up hole at 5340.						
11/22/66	Drilling completed - T.D. 5545 (Driller).						
11/23/66	Logged Well (Schlumberger):						
	<u>Gamma Ray</u>			<u>Density</u>			<u>Induction</u>
	120-2040 (2")			1590-2040 (2")			1586-2060 (5")
	1570-2040 (5")			1590-2040 (5")			4670-5530 (5")
	4710-5530 (2")			4710-5540 (2")			
	4674-5530 (5")			4674-5540 (5")			
11/23/66	Ran 5542' of 4 1/2" (11.6#) J-55 casing. Differential fill up collar at 5534 and guide shoe at 5542. Ran 6 centralizers.						
11/23/66	Cemented 4 1/2" casing with 165 sacks of neat cement, 700 gallons of "Cealment," and 840 gallons of "C.W. 7" (Dowell).						
12/16/66	Ran cement bond log - top of cement 4579' (McCullough).						
12/16/66	Perforated 4 1/2" casing (McCullough): 4759'						
	Perforated with 25 gram glass jets.						
	Average hole diameter - 0.53".						
	Average total depth - 7.52".						
	Average flow index - 1.45.						
	<u>Perforations corrected to Schlumberger log:</u>						
	2 holes - 5488						
	3 holes - 5489						
	2 holes - 5490						
	1 hole - 5495						
	2 holes - 5496						
	1 hole - 5497						
12/17/66	Fractured well (Dowell):						
	500 gallons mud acid						
	750 gallons J.111						
	400 gallons J.84						
	20 gallons F.18						
	769 total Bbls.						
	28,000 # of 20/40 sand						
	82,500 standard cubic feet nitrogen (Aircowell).						
	Breakdown Pressure - 2200//						
	Maximum Pressure - 4800//						
	Average Pressure - 4700//						
	Final Pump In " - 4800//						
	Immediate Shut In " - 4100//						
	Adjusted Injection Rate - 12.9 Bbls./Min.						
	Maximum Sand - 1 1/2//						

  
 APR 26 1971  
 OIL & GAS DIVISION  
 DEPT. OF MINES

12/22/66 Ran 5274.8' of 1 1/2" tubing. Date: April 22, 1971

APPROVED:  
  
 (110)

FINAL GROSS FLOW: 5,000 Cubic Feet (well still flowing up.)  
 GROSS FLOW: 1310//

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
DIVISION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: MARMET, LEOPOLD K. Operator Well No.: MARMET 2

LOCATION: Elevation: 968.90 Quadrangle: BELLE  
District: LOUDON County: KANAWHA  
Latitude: 1150 Feet South of 38 Deg. 12 Min. 30 Sec.  
Longitude 3220 Feet West of 81 Deg. 35 Min. 0 Sec.

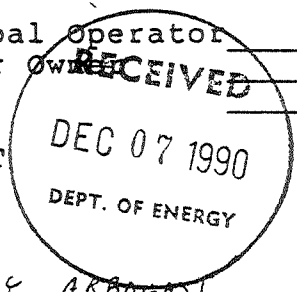
Well Type: OIL \_\_\_\_\_ GAS

Company: ASHLAND EXPLORATION  
PO BOX 391  
ASHLAND, KY 41114

Coal Operator APPALACHIAN POWER CO  
or Owner P.O. BOX 2021  
RAINSVILLE, VA 24221

Agent: CLOWSER WELL SERVICE INC  
Inspector: CARLOS HINDLY  
Permit Issued: 04/23/90

Coal Operator SAME  
or Owner \_\_\_\_\_



AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of \_\_\_\_\_

ss:

JOHN CLOWSER and CLAY ARBOGAST being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by CLOWSER WELL SERVICE INC, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 19<sup>th</sup> day of OCTOBER, 1990, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
GEL	5497'	5474'		
CMT	5474'	5190'		
GEL	5190'	2142'		
CMT	2142'	2040'	CUT 4" CSG @ 2750'	
GEL	2040'	1636'	+ PULLED	
CMT	1636'	1538'		4" below 2750'
GEL	1538'	159'	9 3/8" CSG PARTED @ 102'	ALL 9 3/8" CSG
CMT	159'	0'		below 102'

Description of monument: 10 3/8" CSG w/ NAME PLATE 30" ABOVE GROUND LEVEL

and that the work of plugging and filling said well was completed on the 29<sup>th</sup> day of OCTOBER, 1990.

And further deponents saith not.

Sworn and subscribe before me this 12<sup>th</sup> day of November, 1990  
My commission expires: August 3, 1991

John Clouser  
Clay Arbogast  
Notary Public DEC 14 1990