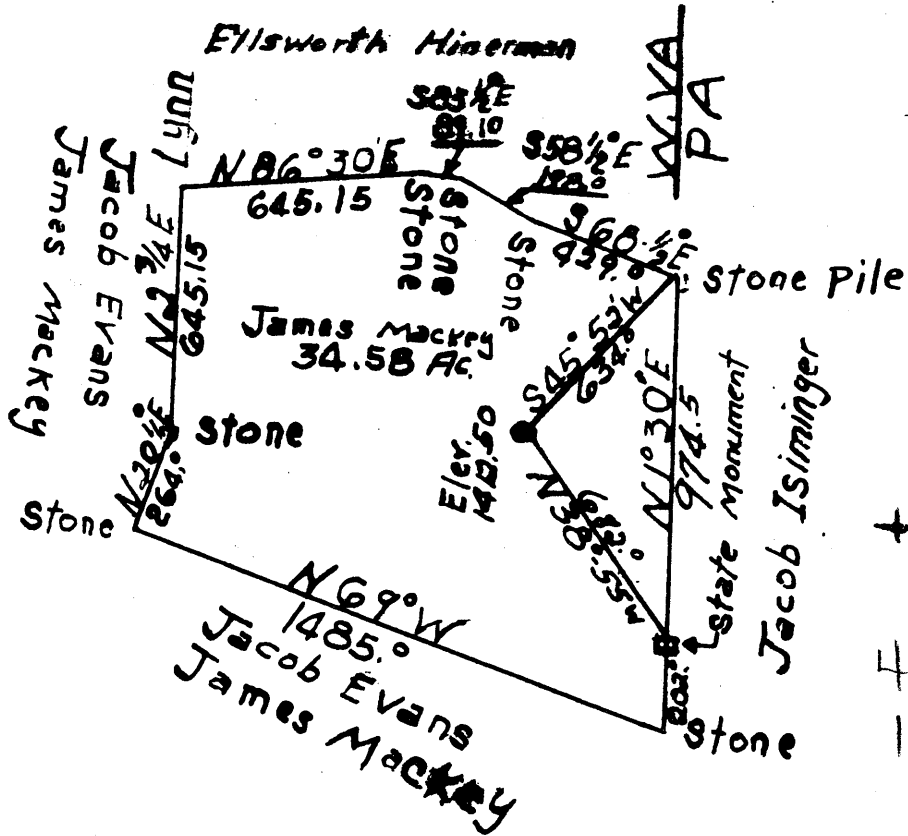


Latitude 39° 50'

Longitude 80° 30'



Farm - James Mackey Heirs
 % Thelma King Haight
 Cameron, W. Va.

Coal - Hanna Coal Co.
 Cadiz, Ohio.

W.V.A.
 P.A.

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 Commission under laws of West Virginia.

New Location
 Drill Deeper
 Abandonment

Company Bissett Constr. Co.
 Address New Freefort, Pa.
 Farm James Mackey
 Tract 1 Acres 34.58 Lease No. _____
 Well (Farm) No. _____ Serial No. _____
 Elevation (Spirit Level) 1412.50
 Quadrangle Cameron SE
 County Marshall District Liberty
 Engineer A. L. Headley
 Engineer's Registration No. 2021
 File No. _____ Drawing No. _____
 Date 6-25-1943 Scale 1" = 500

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

WELL LOCATION MAP
 FILE NO. MARS-512-D

+ 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 16

Rotary
Spudder
Cable Tools
Storage

Quadrangle Cameron

Permit No. MARS-512-D

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Bissett Construction Company
Address Box 71, New Freeport, Pa.
Farm James Mackey Acres 34.58
Location (waters) _____
Well No. K Elev. 1412.50
District Liberty County Marshall
The surface of tract is owned in fee by James Mackey
Heirs, c/o Helma Haight Address Cameron, W. VA.
Mineral rights are owned Bissett Construction Co.
Address New Freeport, Pa.
Drilling commenced 9/12/63
Drilling completed 11/7/63
Date Shot _____ From _____ To _____
With _____
Open Flow 2 /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 144,300 Cu. Ft.
Rock Pressure 100 lbs. 24 hrs.
Oil scum in 5th. bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			_____
13			_____
10		302'	Size of <u>6 x 4</u>
8 3/4		153' 15"	Depth set <u>2000'</u>
6 3/4	2347'	2347'	
5 3/16			
<u>XX 4"</u>	<u>2410' 10"</u>	<u>2410' 10"</u>	Perf. top <u>2030'</u>
2			Perf. bottom <u>2334'</u>
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date
no cementing

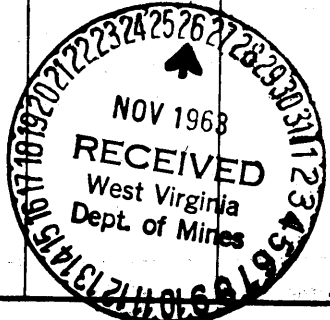
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Big Dunkard			1643	1690			
Slate			1690	1725			
Lime			1725	1765			
Slate & Shells			1765	1780			
Lime			1780	1800			
Slate & Shells			1800	1895			
Lime			1895	1930			
Gas Sand			1930	1960			
Slate			1960	1985			
Sand			1985	2010			
Slate			2010	2025			
Sand			2025	2043			
Slate			2043	2065			
Salt Sand			2065	2098	Gas @ 2065-2072		
Slate			2098	2120			
Lime			2120	2140			
Slate & Shells			2140	2177			
2nd. Salt Sand			2177	2207			
Slate			2207	2219	Gas @ 2228-2230		
Maxon Sand			2219	2248			
Red Rock			2248	2268			
Slate & Shells			2268	2290			
Lime			2290	2305			
Slate			2305	2314			
Big Lime			2314	2374			
Big Injun			2374	2625			
Slate & Shells			2625	2645			
Lime			2645	2665			
Slate			2665	2670			
Lime			2670	2688			



Formation	Color	Hard or Soft	Top 16	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate & Shells			2688	2770			
Lim			2770	2835			
Slate & Shells			2835	2920			
Lim			2920	2972	Small gas @	2929	
Sand			2972	3025			
Slate & Shells			3025	3082			
Pink Rock			3082	3164			
Soft. Sand			3164	3195	Gas	3167-69	
Slate & Shells			3195	3233			
Sand			3233	3250			
Slate			3250	3256			
Sand			3256	3257			
Slate			3257	3260			
Sand			3260	3275			
Slate			3275	3285			
Lim			3285	3298			
Slate			3298				
TOTAL DEPTH			3354.6	542	Oil @	3320	

Date 11/21/ 19 63
 APPROVED Bryant Construction Co. Owner
Charles C. Bissett
 By Senior Partner
 (Title)