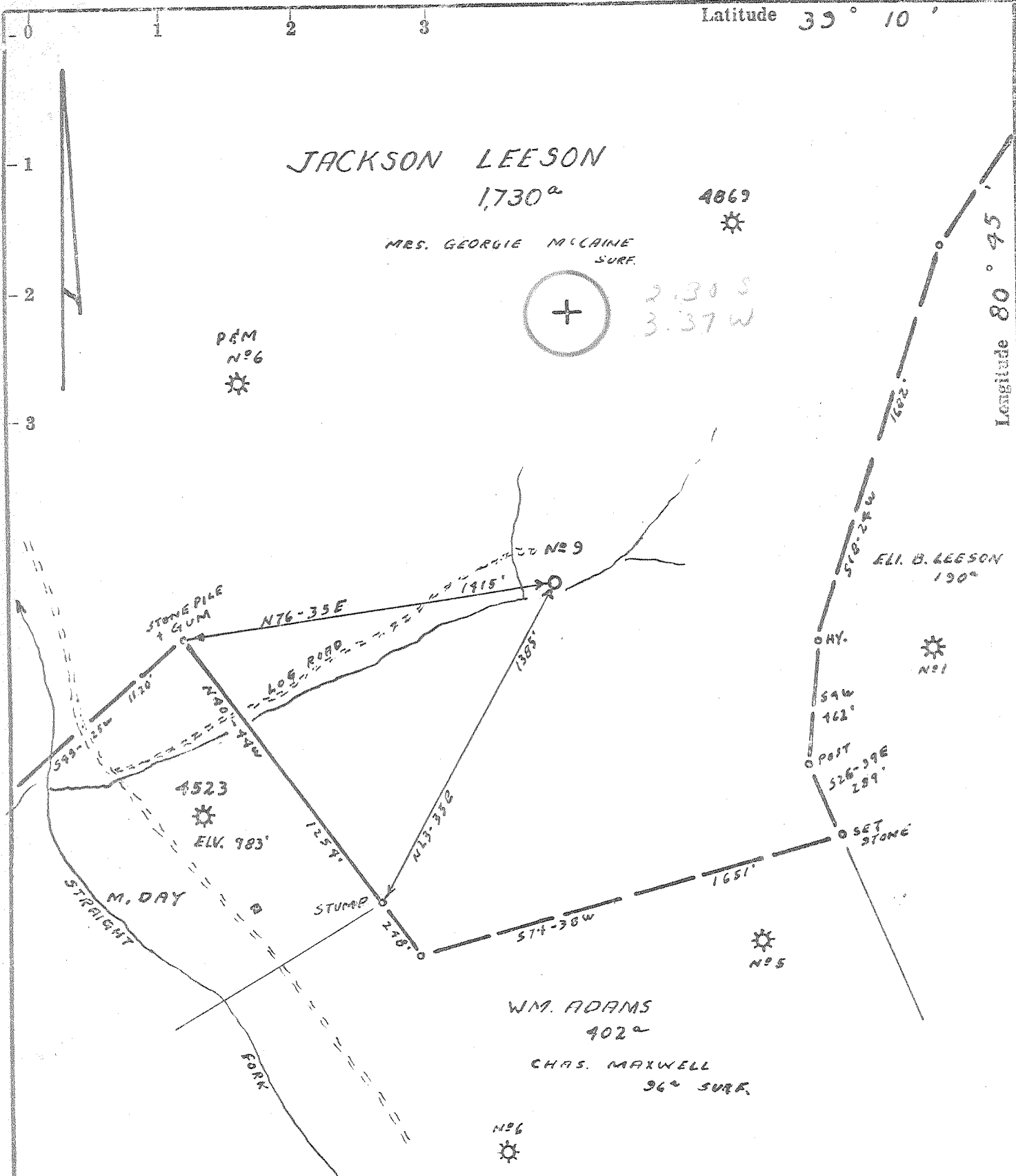


Latitude 39° 10'



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

Source of Elevation WELL NR 4523 ELV. 983'
 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.
 Minimum accuracy, one part in 200

Company P & M OIL CO.
 Address WEST UNION, W. VA.
 Farm JACKSON LEESON
 Tract _____ Acres 1730 Lease No. 9481
 Well (Farm) No. 9 Serial No. 9
 Elevation (Spirit Level) 996
 Quadrangle HOLBROOK NE 34
 County DODDRIDGE District SOUTH WEST
 Engineer Jamaad Jeffries
 Engineer's Registration No. 1084
 File No. 217/20 Drawing No. _____
 Date 8-1-69 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. 100d-1574

+ 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.

P.D.M.



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AUG 4 1970

OIL & GAS DIVISION
 STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION 3

Rotary
 Spudder
 Cable Tools
 Storage
 Oil or Gas Well Gas No. No.
 (KIND)

Quadrangle Holbrook
 Permit No. Dodd-1574

WELL RECORD

Company P. & M. Oil Company
 Address West Union, W. Va.
 Farm Jackson Leeson Acres 1.730
 Location (waters) St. Fork
 Well No. 9 Elev. 996
 District South west County Doddridge
 The surface of tract is owned in fee by Georgia McKain
& Others Address West Union, W. V
 Mineral rights are owned by Same
 Address _____

Drilling commenced 10-1-69
 Drilling completed 11-4-69
 Date Shot _____ From _____ To _____
 With _____

Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume 125 M Cu. Ft.
 Rock Pressure 400 lbs 16 hrs.
 Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS) _____
 WELL FRACTURED (DETAILS) 7-20-70 1000 gal acid, 33,000 sand, 850 lb. water

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 1,000 M 1,000,000
 ROCK PRESSURE AFTER TREATMENT 400 HOURS 1 hr.
 Fresh Water 20 Feet _____ Salt Water _____ Feet _____
 Producing Sand Injun Depth 1795 1818

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	100	100	Cemented
8 1/4			
6 3/4	906	0	Depth set
5 3/16			
4 1/2	1834	1834	Cemented 50bg
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
 CASING CEMENTED 10 SIZE 100 No. Ft. 10-7-69 Date
 Amount of cement used (bags) 25
 Name of Service Co. P. & M. Oil Co.
 COAL WAS ENCOUNTERED AT None FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	5			
Rock			5	20			
Red & Blue Rock			20	100			
Blue shale			100	105			
Red rock			105	140			
Blue Rock			140	183			
Red rock			183	220			
Blue & Red			220	290			
Lime			290	305			
Slate			305	390			
Lime			390	405			
Sand			405	440			
Red rock			440	532			
Slate & shells			532	634			
Red rock			634	710			
Lime			710	730			
S. & shells			730	772			
Sand			772	850			
Slate			850	885			
Lime			885	910			
Slate			910	920			
Sand			920	1021			
S. & S.			1021	1090			
Sand			1090	1114			
S & S.			1114	1135			
Lime			1135	1145			
Gas Sand			1145	1170			

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	& shells		1170	1187			
Lime			1187	1200			
Sand			1200	1220			
Slate			1220	1288			
Lime			1288	1306			
Slate			1306	1340			
Sand			1340	1406			
Redxrock		Slate	1406	1460			
Bluxxrock		Lime	1460	1488			
Redxrockx		Sand	1488	1548			
BluxxandxRed		Slate	1548	1552			
Lime			1552	1568			
Slate		Sand	1568	1574			
Lime			1574	1587			
Sand		Pink Rock	1587	1596			
Redxrock		Lime	1596	1625			
S. & S.			1625	1636			
Redxrock		Lime	1636	1662			
Lime		Slate	1662	1670			
Sxaxx		Lime	1670	1675			
Slate			1675	1678			
Lime			1678	1746			
Injun Sand			1746	1818			
			1795	1801	Gas	75M	
			1801	1818	"	118M	
Slate			1818	1838			
Total Depth			1838				

Date July 30, 1920
APPROVED P. M. Oil Co, Owner
By L. E. Riggs, Pres
(Title)