

Minimum Error of Closure 1' in 200'  
 Source of Elevation Well No 9 Mary A White Hrs  
Tyler Permit No. 286 El. 810.5

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: *Arden L. Marshall, Surveyor*  
 Squares: N S E W

- Fracture
- New Location
- Drill Deeper
- Abandonment

Plugging Issued 7-8-70  
 Map No.

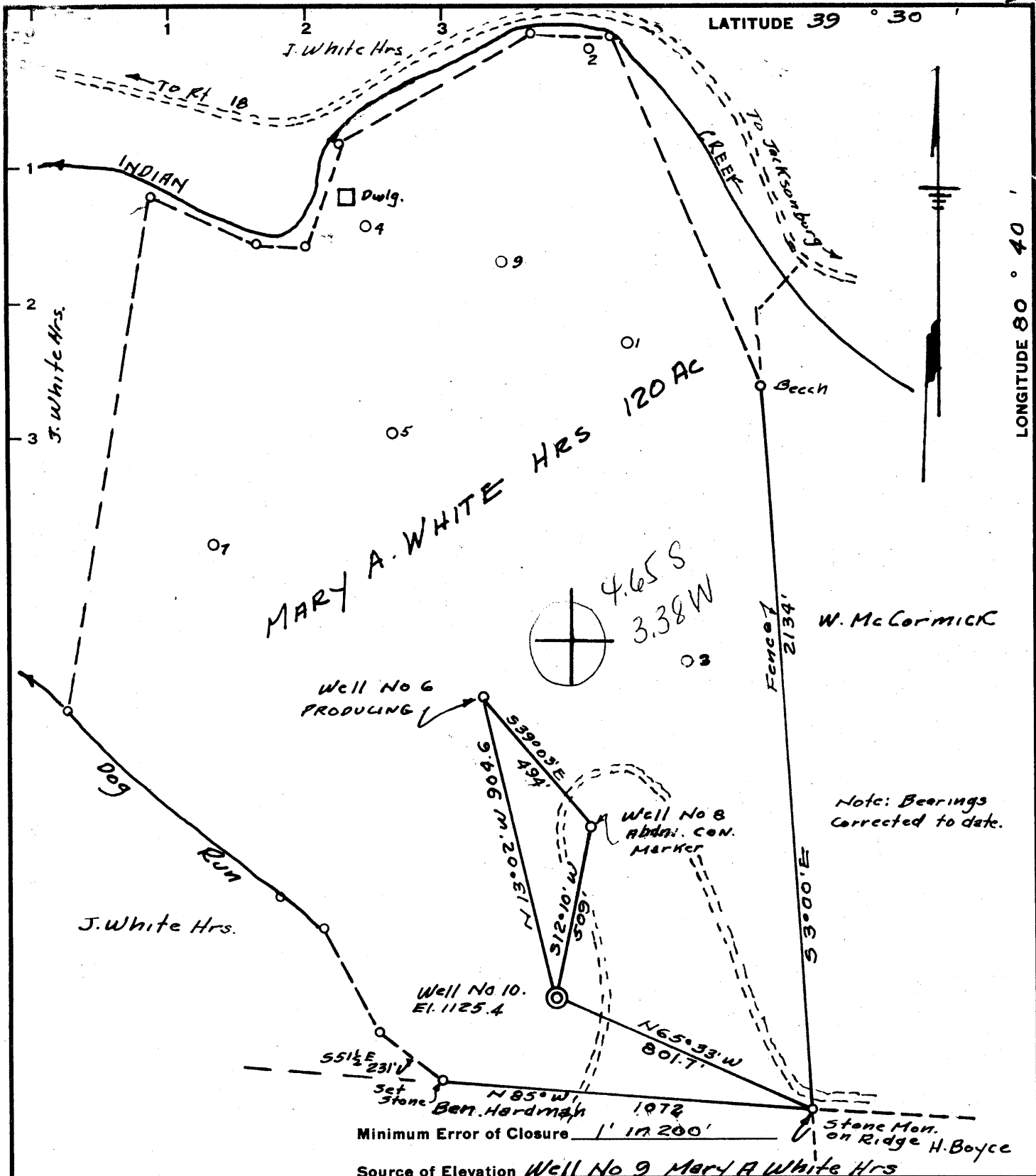
Company Quaker State Oil Refg. Corp.  
 Address Box 1327 Parkersburg, W. Va.  
 Farm Mary A. White Hrs  
 Tract \_\_\_\_\_ Acres 120 Lease No. \_\_\_\_\_  
 Well (Farm) No. 10 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1125.4 Gr.  
 Quadrangle Centerpoint NW  
 County Tyler District McElroy  
 Engineer A. J. [Signature]  
 Engineer's Registration No. 2492  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Mar 18, 1965 Scale 1" = 400'

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

**WELL LOCATION MAP**

FILE NO. TYL-389-P

+ 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.



Note: Bearings Corrected to date.

Source of Elevation Well No 9 Mary A White Hrs  
 Tyler Permit No. 286 El. 810.5

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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: Charles L. Marshall, Surveyor  
 Squares: N S E W

Map No.

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 Address Box 1327 Parkersburg, W. Va.  
 Farm Mary A. White Hrs  
 Tract \_\_\_\_\_ Acres 120 Lease No. \_\_\_\_\_  
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 Quadrangle Centerpoint - NW  
 County Tyler District McElroy  
 Engineer A. J. Robinson  
 Engineer's Registration No. 2492  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Mar 18, 1965 Scale 1" = 400'

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

WELL LOCATION MAP

FILE NO. TYL-389

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 21

Rotary   
Spudder   
Cable Tools   
Storage

1-11-66  
WZ

Quadrangle Centerpoint

Permit No. Tyler - 389

**WELL RECORD**

Oil or Gas Well Oil ~~Gas~~  
(KIND)

Company Quaker State Oil Refining Corporation  
Address P. O. Box 1327, Parkersburg, W. Va.  
Farm Mary A. White Heirs Acres 120  
Location (waters) Indian Creek  
Well No. Mary White Heirs #10 Elev. 1125.4  
District McElroy County Tyler  
The surface of tract is owned in fee by  
Address  
Mineral rights are owned by Daniel N. White, et al.  
Address Middlebourne, W. Va.  
Drilling commenced 5-24-65  
Drilling completed 6-24-65  
Date Shot --- From --- To ---  
With ---

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	16'	16'	
13			Size of
10	570	--	
8 1/4	1369	--	Depth set
7	1828	--	
5 3/16			Perf. top
4 1/2	2330	2330	Perf. bottom
3		2234	Perf. top
2			Perf. bottom
Liners Used			

Open Flow --- /10ths Water in --- Inch  
/10ths Merc. in --- Inch  
Volume --- Cu. Ft.  
Rock Pressure --- lbs. --- hrs.  
Oil --- bbls., 1st 24 hrs.

Attach copy of cementing record.  
CASING CEMENTED 4 1/2 SIZE 2330 No. Ft. 7-9-65 Date  
Amount of cement used (bags) 75 sacks standard bulk  
Name of Service Co. Halliburton  
COAL WAS ENCOUNTERED AT 370 FEET show INCHES  
588 FEET show INCHES 840 FEET 12 INCHES  
FEET INCHES FEET INCHES

WELL FRACTURED (DETAILS) Halliburton fraced 11-8-65 in 3 stages - used 8100# 20-40 sand and 365 bbls. of sand laden water

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 3.4 bbls. oil/day; 39 bbls. water/day & 2300 cf.

ROCK PRESSURE AFTER TREATMENT 96# in 36 HOURS

Fresh Water --- Feet Salt Water 1640' Feet

Producing Sand Injun, Keener & Maxon Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			Surface	16			
Stone			16	24			
Shale			24	40			
Red Rock			40	48			
Lime			48	50			
Shale			50	72			
Lime			72	80			
Red rock			80	88			
Shale			88	114			
Lime			114	124			
Shale & lime shells			124	153			
Sand			153	172			
Red rock			172	180			
Shale			180	198			
Lime			198	212			
Shale			212	222			
Red rock			222	230			
Shale			230	242			
Red rock			242	255			
Lime & shale			255	272			
Red rock			272	277			
Shale			277	283			
Sand			283	320			
Red rock			320	332			
Lime			332	338			
Shale			338	358			
Lime			358	365			
Shale			365	380			
Lime & shale			380	410			
Shale & shells			410	424			



✓ Show coal @ 370'

Formation	Color	Hard or Soft	Top 2'	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale			424	432			
Lime			432	444			
Red rock			444	452			
Lime			452	460			
Shale			460	502			
Lime & shale			502	515			
Sand			515	525			
Red rock			525	532			
Lime shells			532	537			
Shale			537	548			
Red rock			548	556			
Shale			556	566			
Lime			566	578			
Shale			578	590	✓ Show coal @588		
Lime			590	595			
Sand & shale			595	610			
Sand			610	622			
Red rock			622	628			
Shale & lime shells			628	665			
Lime			665	725			
Shale			725	798			
Lime shells			798	801			
Shale			801	820			
Shale & shells			820	830			
Shale			830	840			
✓ Pittsburgh Coal			840	841			
Lime			841	865			
Shale			865	897			
Sand			897	920			
Sand & shale			920	945			
Shale			945	964			
Red rock			964	976			
Shale			976	1017			
Red rock & lime shells			1017	1100			
Shale			1100	1125			
Lime			1125	1138			
Shale			1138	1150			
Lime shells			1150	1152			
Shale			1152	1164			
Lime			1164	1168			
Shale & shells			1168	1189			
Red rock			1189	1195			
Lime			1195	1207			
Shale			1207	1222			
Shale			1222	1237			
Sandy lime			1237	1250			
Shale			1250	1267			
✓ Little Dunkard			1267	1278			
Lime			1278	1291			
Shale & shells			1291	1300			
Shale			1300	1360			
✓ Big Dunkard			1360	1395			
Shale			1395	1439			
Sandy lime			1439	1490			
Shale			1490	1506			
Lime			1506	1520			
Shale & shells			1520	1538			
✓ Salt sand 1st			1538	1550			
Sandy shale			1550	1595			
✓ Salt sand 1st			1595	1668	Hole full of water @1640'		
Shale			1668	1685			
✓ Salt sand 2nd			1685	1700			
Shale			1700	1728			
Sand			1728	1750			
Shale			1750	1756			
✓ Sand 3rd Salt Sand			1756	1814			
Shale			1814	1827			

Date December 29, 19 65

APPROVED OWNER STATE OIL REFINING CORPORATION Owner

By Thomas H. Richard  
(Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 21A

Quadrangle \_\_\_\_\_

Permit No. Tyler - 389

WELL RECORD

Oil or Gas Well \_\_\_\_\_ (KIND)

Company Quaker State Oil Refining Corporation  
 Address \_\_\_\_\_  
 Farm \_\_\_\_\_ Acres \_\_\_\_\_  
 Location (waters) \_\_\_\_\_  
 Well No. Mary White Heirs #10 Elev. 1125  
 District Mc Elroy County Tyler  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by Daniel N. white, et al.  
 Address Middlebourne, W.Va.  
 Drilling commenced 5-24-65  
 Drilling completed 6-24-65  
 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 \_\_\_\_\_  
 WELL FRACTURED \_\_\_\_\_

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

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Dat \_\_\_\_\_  
 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
CONTINUED FROM PAGE NO. ONE							
Sand			1827	1854			
Shale			1857	1870			
Sand			1870	1880			
Shale & shells			1880	1958			
Sand			1958	1966			
Shale & shells			1966	1984			
Maxon sand			1984	2017			
Shale			2017	2029			
Sand <del>Heiner</del>			2029	2034			
Lime			2034	2102	Smell oil 2042-50		
Injun			2102	2127			
Injun			2127	2135			
Injun			2135	2145	Smell oil 2135-45		
Injun		Hard	2145	2160			
Injun		Soft	2160	2185			
Injun		Hard	2185	2200			
Injun		Soft	2200	2220			
Broken Shale & sand			2220	2247			
Sand <del>Syner</del>			2247	2307			
Shale			2307	2331	Total Depth		

2017  
1125  
-892

LOGS: Piper Well Surveys  
 Gamma Ray, Neutron,  
 Density, Temperature,  
 S P, Guard, Caliper  
 and Solinometer

Perforations:  
 2163 - 2167 5 holes  
 2071 - 2092 6 holes  
 2004 - 2013 6 holes

