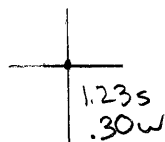


Latitude

Longitude



Topo Location

7.5' Loc. _____ 15' Loc. _____
 _____ (calc.) _____

Company Pgh Plate & Glass

Farm Pgh Plate & Glass

15' Quad _____
(sec.)

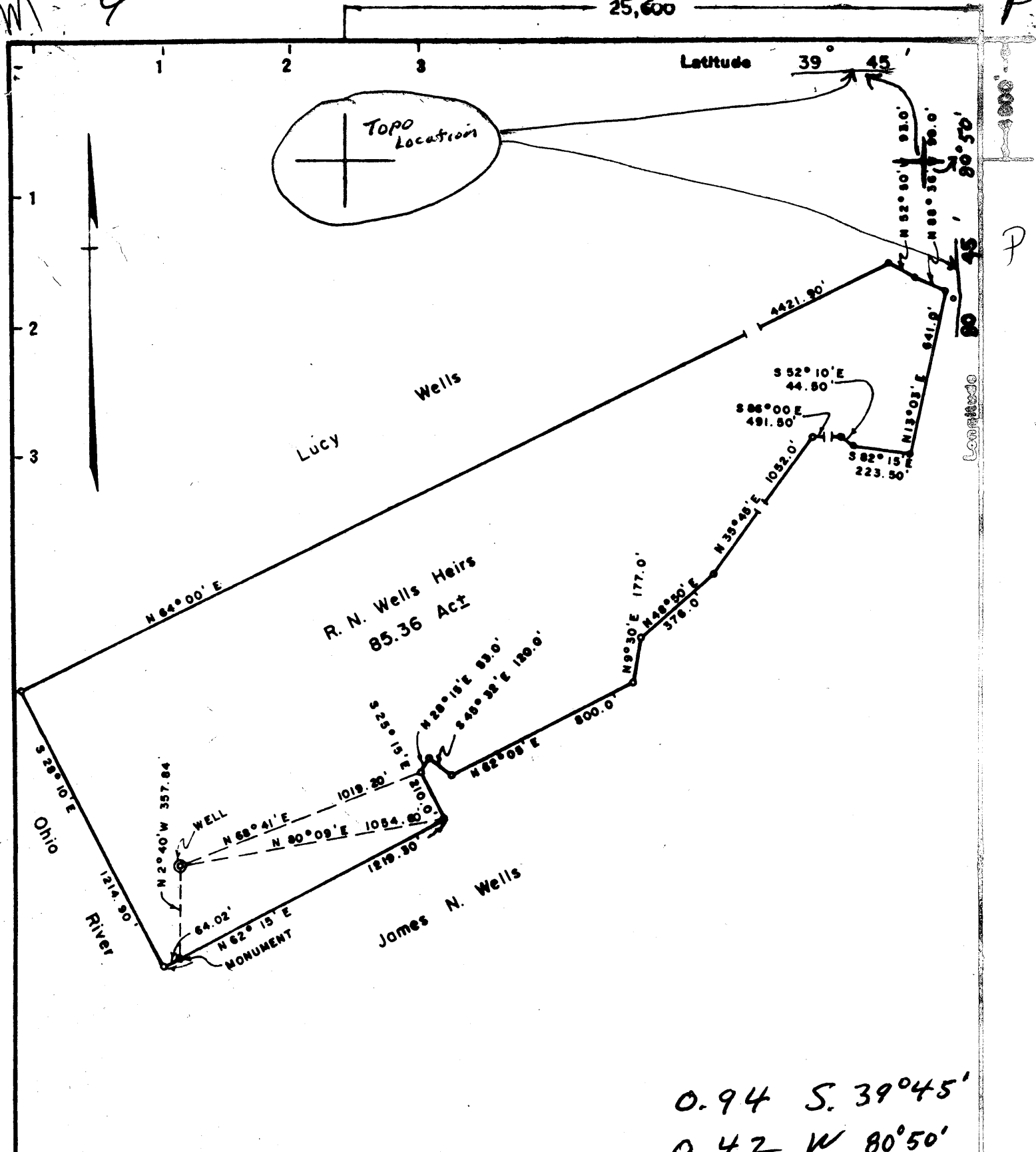
7.5' Quad New Martinsville

District Franklin

WELL LOCATION PLAT

County 051 Permit 508

DEEP WELL



0.94 S. 39°45'
 0.42 W 80°50'
 2 NE (E-8)

Minimum Error of Closure 1' in 1000'
 Source of Elevation B.M. S.E. Corner of landing of steps to Mobay Office elev. 650'

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.

Company Lt. Col. James P. Wells Ret. & Assc.
 Address 1304 7th St. Moundsville, W. Va.
 Farm R. N. Wells Heirs
 Tract 1 Acres 85.36 Lease No. _____
 Well (Farm) No. _____ Serial No. _____
 Elevation (Spirit Level) 640
 Quadrangle New Martinsville - NC
 County Marshall District Franklin
 Engineer M. James Schellhase
 Engineer's Registration No. 1673
 File No. _____ Drawing No. _____
 Date June 17, 1963 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. MARS-508

+ Denotes location of well on United States Topographic Maps, scale 1 to 62500, 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 14

Rotary
Spudder
Cable Tools
Storage

12-6-65

Quadrangle New Martinsville NE

WELL RECORD

Permit No. MAR 508 R

Oil or Gas Well Brine
(KIND)

Company PAT WELLS OIL COMPANY
Address P.O. BOX 267 Moundsville, W.Va.
Farm R.N. Wells Hrs. Acres 85.36
Location (waters) Ohio River
Well No. 1 -R Elev. 639'
District Franklin County Marshall
The surface of tract is owned in fee by Mary C., William F., & James P. Wells
& James P. Wells Address RFD#2 Proctor W.Va.
Mineral rights are owned by As Above
Address _____

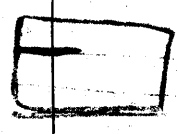
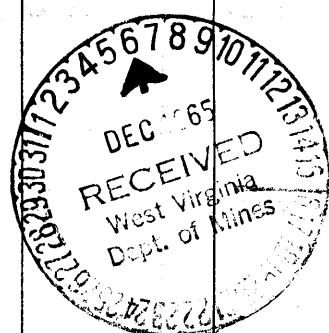
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	88'	88'	
13 3/8	287'	287'	
9 5/8"	1602'	1602'	Size of
8 1/4			
6 1/2			Depth set
5 3/16			
4 1/2			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced NOV. 4, 1964
Drilling completed April 26, 1965
Date Shot no 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) no
WELL FRACTURED (DETAILS) no

Attach copy of cementing record.
CASING CEMENTED 9 5/8 SIZE 500 No. Ft. 11/29/64 Date
Amount of cement used (bags) 130
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT 156 FEET _____ INCHES
250 FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water 50 Feet _____ Salt Water _____ Feet
Producing Sand Salina Salt Depth 6754' - 6897'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
-From Logs of well-							
top soil			0	30			
gravel			30	80			
shale			80	83			
shale	red		83	156	1285		
coal			156	164	639		
shale			164	250	646		
coal			250	256			
shale			256	306			Pittsburg
shale	gr.		306	406			
lime			406	414			
shale			414	500			
sand			500	520			
shale			520	745			
lime			745	810			
sand&Shale			810	970			
shale			970	1050			
sand			1050	1070			
shale			1070	1165			
lime			1165	1195			
sandy shale			1195	1270			
lime			1270	1280			
shale			1280	1285			
Lime			1285	1314			
Lime			1314	1390			
sand			1390	1402			



Little lime
Pencil cave
Blue Monday
Big Lime
Keener

Deep Well

Formation	Color	Hard or Soft	Top ¹⁴	Bottom	Oil, Gas or Water	Depth Found	Remarks
sand			1402	1508			<u>Big Injun</u>
shale			1508	1750			
sand&shale			1750	1790			<u>Weir</u>
shale			1790	1955			
sand&shale			1955	1967			<u>Berea</u>
sand&shale			1967	2905			
sand&shale			2905	2944			<u>Speechley</u>
shale			2944	4215			<u>Harrell</u>
shale			4215	5800			<u>Hamilton</u>
shale			5800	5846			<u>Onondaga 5842'</u>
lime	Onondaga		5842	6074			<u>Huntersville</u>
sandstone	Oriskany		6074	6122			<u>Oriskany</u>
limestone			6122	6283			<u>Shriver</u>
Dolomite lime	Helderberg Group		6283	6400			<u>Helderberg</u>
limestone			6400	6535			<u>Keyser</u>
limestone			6535	6689			<u>Top of Silurian 6535'</u> <u>Tonoloway</u>
limestone			6689	6742			<u>Wills Creek</u>
anhydrite, lime - salt			6742	6896			<u>Salina</u>
shale			6896	6915			
dolomite			6915	6950			
shale			6950	6990			
dolomite			6990	7000			
shale			7000	7055			
limestone, sandstone			7055	7785			
sandstone, shale			7785	7826	gas	7820'	<u>Keefex</u>
shale			7826	7943			<u>Rosehill</u>
total depth			7943				

5842 6074 6122
 640 640 640

 5202 5434 5482

Date Dec. 3, 1965, 19__

APPROVED PAT WELLS OIL COMPANY, Owner

By [Signature]
Consultant (title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 20

Rotary
Spudder
Cable Tools
Storage

Quadrangle New Martinsville N.E/4

Permit No. MARS508

WELL RECORD

-Oil or Gas Well Dry
Will Skip Ring

Company Lt. Col. James P. Wells & Associates
Address 1304 Seventh Street, Moundsville, W. Va.
Farm R. N. Wells Heirs Acres 85.36

Location (waters) Ohio River
Well No. 1 Elev. 640
District Franklin County Marshall

The surface of tract is owned in fee by Mary C., Wm. F. & James P. Wells Address RD#2, Proctor, W. Va.

Mineral rights are owned by Mary C., Wm. F. & James P. Wells Address RD#2, Proctor, W. Va.

Drilling commenced July 10, 1963

Drilling completed October 17, 1964

Date Shot No From No To No

With No

Open Flow No /10ths Water in No Inch

No /10ths Merc. in No Inch

Volume No Cu. Ft.

Rock Pressure No lbs. hrs.

Oil No bbls., 1st 24 hrs.

WELL ACIDIZED No

WELL FRACTURED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	70'	70'	Kind of Packer
14	315'	315'	
10	762'	762'	Size of
8 5/8	1630'	203'	Depth set
6 3/4			
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 8 5/8 SIZE 203 No. Ft. 10/15/64 Date

COAL WAS ENCOUNTERED AT 155 FEET 60 INCHES
250 FEET 60 INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT No

ROCK PRESSURE AFTER TREATMENT No

Fresh Water Feet 50 Salt Water Feet 287 & 1410

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil		S	0	28			
Gravel		S	28	78			
Shale		S	78	80			
Red	Red	S	80	90			
Shale	Lt Br	S	90	105			
Line	LTER to GR	S	105	155			
#9 Coal	Black	S	155	160			
Shale	Gr	S	160	163			
Line	Br	H	163	217			
Shale	Gr	H	217	250			
#8 Coal	Black	S	250	255			
Shale	Gr	S	255	285			
Sand	Lt Gr	S	285	300	Water at 287 ft.		
Line	Gr	H	300	306			
Red	Red	H	306	315			
Shale	Gr	S	315	322			
Red	Red	S	322	346		1272	1365
Shale	Gr	S	346	352		640	640
Red	Red	S	352	374			
Shale	Gr	S	374	390		632	725
Sand	Gr	S	390	408			
Shale	Gr	H	408	418			
Red	Red	S	418	432			
Shale	Gr	S	432	460			
Sand	Lt Gr	S	460	498			
Shale	Lt Gr	H	498	526			
Red	Red	S	526	540			
Shale	Red	S	540	560			
Sand	Lt Gr	S	560	583			
Shale	Gr	S	583	600			

Formation	Color	Hard or Soft	Top 20	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Gr	S	600	606			
Shale	Gr	S	606	634			
Pink Rock	Pink	S	634	655			
Sand	Lt Gr	S	655	675			
Shale	Gr	S	675	685			
Slate	Gr	S	685	715			
Shale	Gr	S	715	726			
Shale	Gr	S	726	760			
Lime	Lt Gr	S	760	790			
Shale	Lt Br	S	790	814			
Sand	Gr	S	814	963			
Shale	Lt Br	S	963	985			
Sand	Gr	S	985	1026			
Shale	Gr	S	1026	1071			
Sand	Gr	S	1071	1094			
Shale	Gr	S	1094	1108			
Sand	Gr	S	1108	1160			
Shale	Gr	S	1160	1245			
Sand	Lt Gr	S	1245	1255			
Slate	Lt Gr	S	1255	1260			
Lime	Gr	S	1260	1269			
Break	Gr	S	1269	1272			
Big Lime	Gr	S	1272	1365			
Sand	Lt Br	S	1365	1398			Gas & Oil 1390 ft to 1395 ft.
Sand	Lt Br	S	1398	1401			
Break	Lt Br	S	1401	1506			H.F. water 1410 ft.
Sand	Lt Br	H	1506	1507			Gas 1470 ft.
Break	Lt Br	H	1507	1519			Gas 1515 ft.
Sand	Lt Br	H	1519	1590			Gas 1575 ft.
Slate	Gr	S	1590	1790			
Lime	Wh	S	1790	2030			
Shale	Lt Gr	S	2030	2085			
Shale Pink	Pink	S	2085	2476			
Shale	Pink	S	2476	2506			
Shale	Pink	S	2506	3023			Bottom of hole 3023 ft.

Date 2ND OF NOVEMBER, 1964

APPROVED LTCOL James P. Well RETYASSOC, Owner

By James P. Wells
(Title)