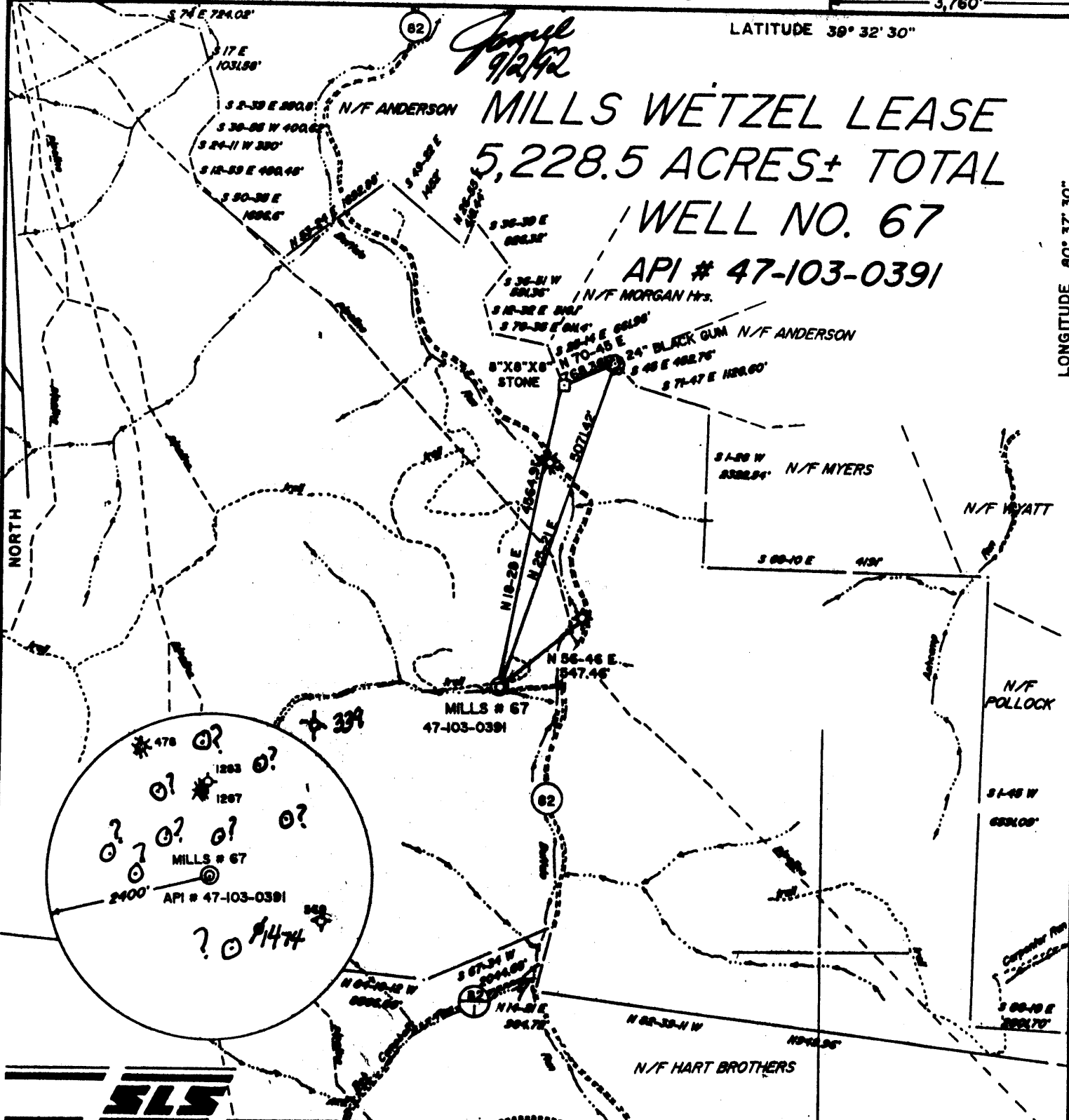


*Janell  
9/2/92*

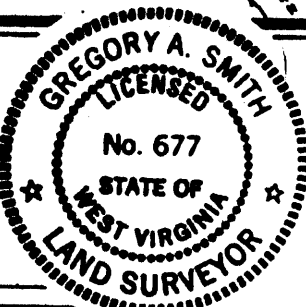
# MILLS WETZEL LEASE 5,228.5 ACRES± TOTAL WELL NO. 67

## API # 47-103-0391



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY

L.L.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JULY 8, 19 92

OPERATORS WELL NO. MILLS NO. 67

API WELL NO. 47-103-0391-P

STATE COUNTY PERMIT  
Cancelled

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2865 (39-53)  
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 823' SCALE 1" = 2000'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_ IF "GAS" PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW

LOCATION: ELEVATION 844' WATERSHED BUFFALO RUN  
DISTRICT GRANT COUNTY WETZEL QUADRANGLE PINE GROVE 7.5'

SURFACE OWNER LEWIS WETZEL HUNTING GROUNDS ACREAGE 5228.5  
ROYALTY OWNER MILLS WETZEL LANDS, Inc. LEASE ACREAGE 5228.5

PROPOSED WORK: LEASE NO. \_\_\_\_\_  
DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ PLUG AND ABANDON \_\_\_\_\_  CLEAN OUT AND REPLUG \_\_\_\_\_ OTHER \_\_\_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION GORDON  
ESTIMATED DEPTH \_\_\_\_\_

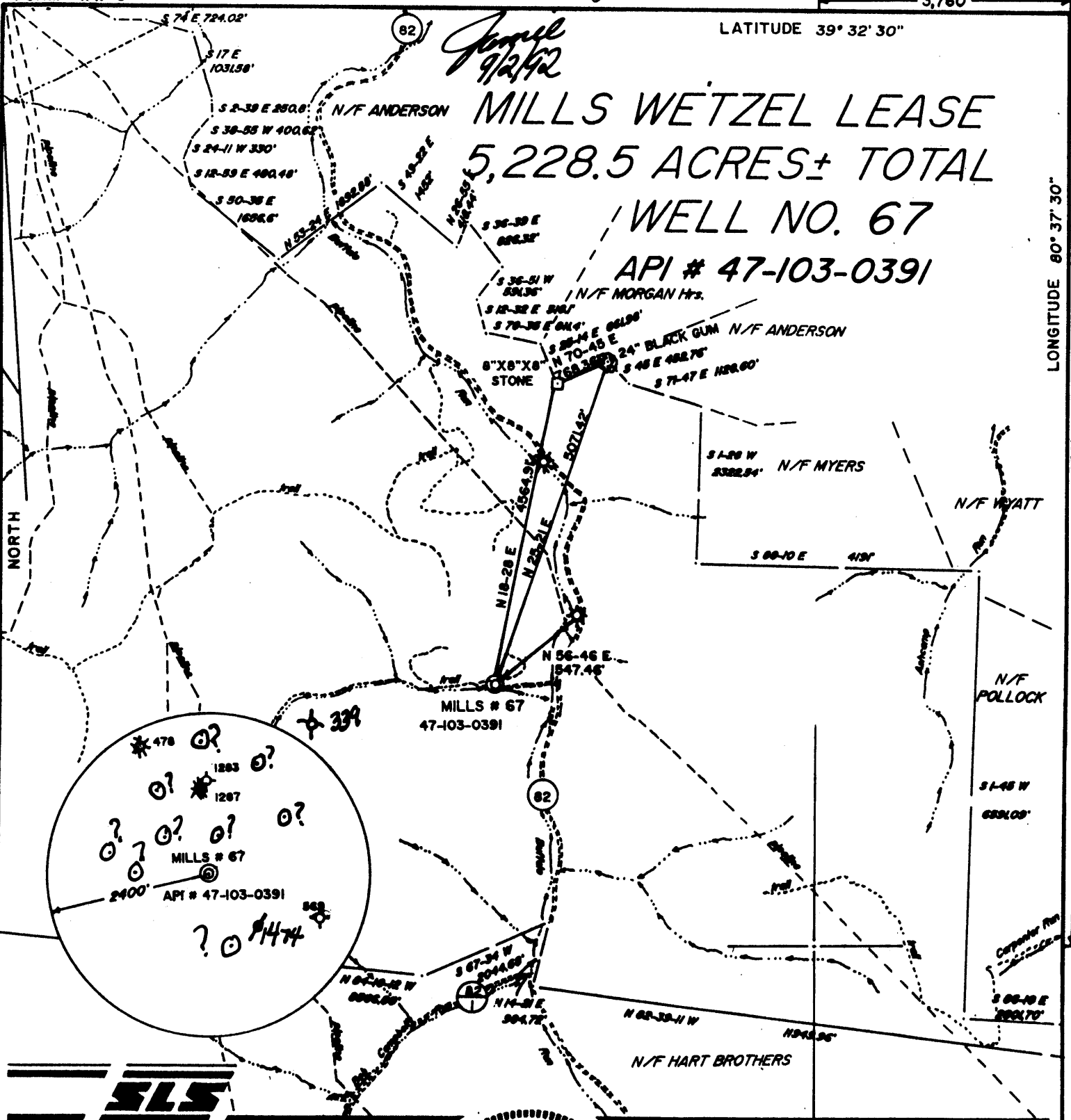
WELL OPERATOR Quaker State Corporation DESIGNATED AGENT Frank Rotunda  
ADDRESS 1226 Pulnam-Howe Drive Belpre, Ohio 45714 ADDRESS P.O. Box 823 Parkersburg, WV 26102

COUNTY NAME WETZEL PERMIT 0391-P

*June 9/2/92*

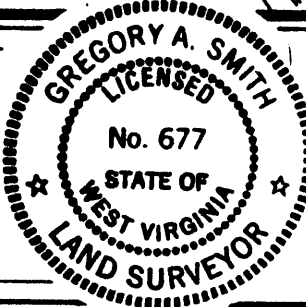
# MILLS WETZEL LEASE 5,228.5 ACRES± TOTAL WELL NO. 67

## API # 47-103-0391



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L.L.S. *Gregory A. Smith*  
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.


DATE JULY 8, 19 92

OPERATORS WELL NO. MILLS NO. 67

API WELL NO. 47-103-0391-P  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2865 (39-53)  
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 823' SCALE 1" = 2000'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

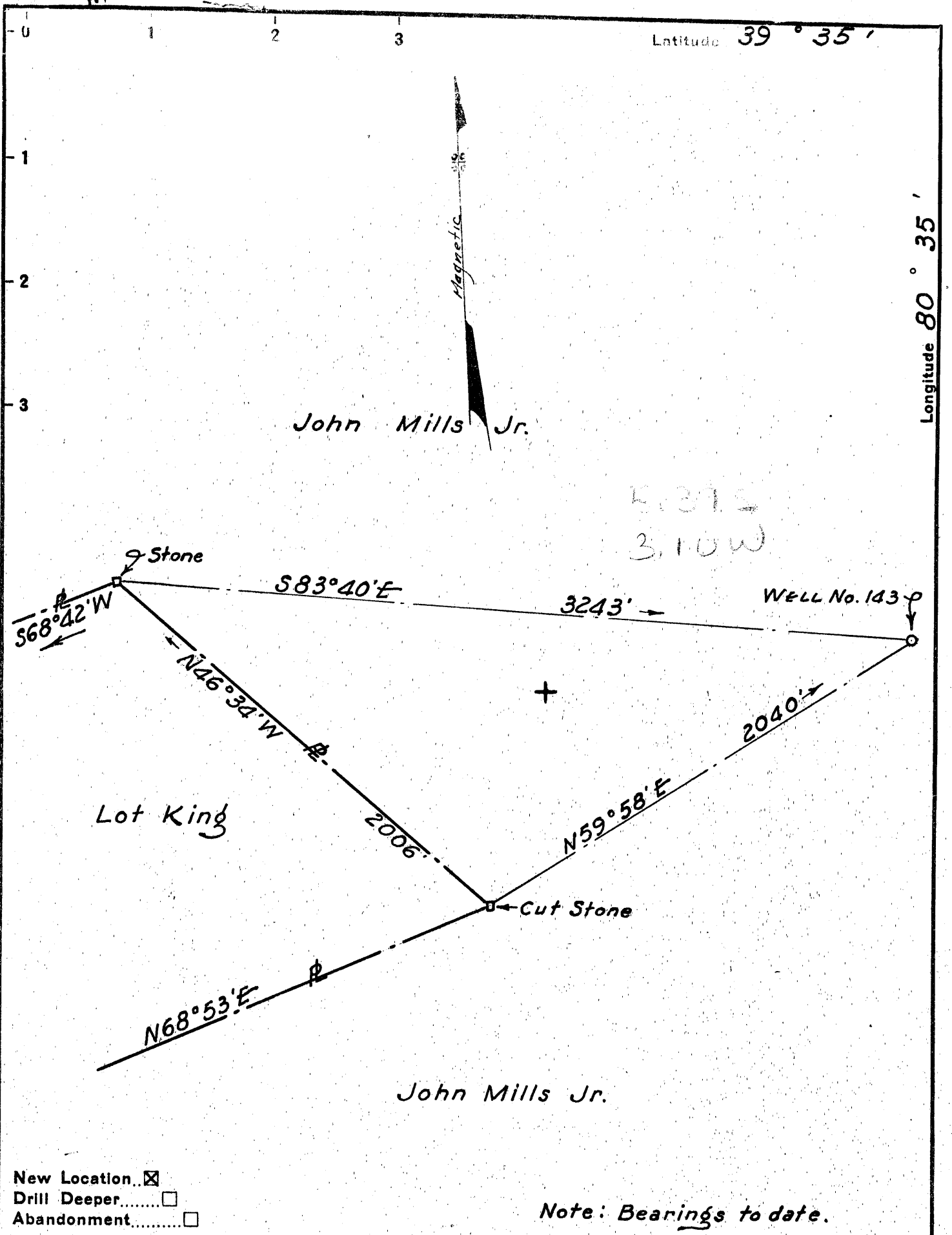
LOCATION: ELEVATION 844' WATERSHED BUFFALO RUN  
DISTRICT GRANT COUNTY WETZEL QUADRANGLE PINE GROVE 7.5'

SURFACE OWNER LEWIS WETZEL HUNTING GROUNDS ACREAGE 5228.5  
ROYALTY OWNER MILLS WETZEL LANDS, Inc. LEASE ACREAGE 5228.5

PROPOSED WORK: LEASE NO. \_\_\_\_\_  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION GORDON  
ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR Quaker State Corporation DESIGNATED AGENT Frank Rotunda SEP 11 1992  
ADDRESS 1226 Putnam-Howe Drive Belpre, Ohio 45714 ADDRESS P.O. Box 823 Parkersburg, WV 26102

COUNTY NAME PERMIT



Company Quaker State Oil Refining Corp.  
 Address 1222 Market St. Parkersburg, W.Va.  
 Farm John Mills, Jr.  
 Tract \_\_\_\_\_ Acres 5265 Lease No. \_\_\_\_\_  
 Well (Farm) No. 143 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1037.4  
 Quadrangle LITTLETON 50  
 County WETZEL District GRANT  
 Engineer L.G. Merrill, Parkersburg, W.Va.  
 Engineer's Registration No. 152  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date FEB. 13, 1954 Scale 1" = 500'

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

**WELL LOCATION MAP**  
 FILE NO. Wet-391

+ 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.

9-0 95





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 16

Quadrangle Littleton

WELL RECORD

Permit No. Wet-321 391

Oil or Gas Well Pressure  
(KIND)

Company Quaker State Oil Refining Corp.  
Address Box 1789, Parkersburg, W. Va.  
Farm John Mills Est. Acres 5265  
Location (waters) Buffalo Run  
Well No. 143 Elev. 1037.4  
District Grant County Wetzel  
The surface of tract is owned in fee by F. C. Cook  
Address \_\_\_\_\_

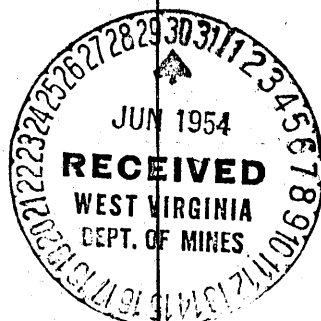
Mineral rights are owned by Mills-Wetzel Lands Inc.  
10 S. LaSalle St. Address Chicago 3, Ill.  
Drilling commenced February 9, 1954  
Drilling completed April 12, 1954  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_

Open Flow 56 /10ths Water in \_\_\_\_\_ One Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 16,000 Cu. Ft.  
Rock Pressure 180 lbs. 48 hrs.  
Oil One (1) bbls., 1st 24 hrs.  
Fresh water 68 feet 90 feet  
Salt water 1740 feet 1870 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	295	295	Size of
8 3/4	1360		
6 5/8	2093	2093	Depth set
5 3/16			
3			Perf. top
2	2895	2895	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 797 FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock		Soft	0	40			
Shale	Yellow	Med.	40	54			
Red Rock		Soft	54	65			
Lime	White	Hard	65	90	Water	68	
Sand	Gray	Soft	90	108	Water	90	
Lime&Shale	Red&Gray	H & S	108	207			
Red Rock	Red	Soft	207	225			
Lime&Shells	(Red & Gray)	H & S	225	310			
Shale	Light	Soft	310	348			
Lime	Gray	Hard	348	438			
Lime&Shale	Red&Gray	H & S	438	517			
Red Rock		Soft	517	537			
Lime&Shale	Gray	H & S	537	645			
Lime	White	Hard	645	745			
Shale	Gray	Soft	745	752			
Lime	White	Hard	752	797			
Pgh. Coal	-	Soft	797	805			
Lime	White	Hard	805	845			
Shale	Gray	H & S	845	865			
Lime	White	Hard	865	920			
Sand	Gray	Hard	920	937			
Lime	Gray	Hard	937	976			
Sand	Gray	Hard	976	985			
Lime&Shale	Red&Gray	H & S	985	1212			
L. Dunkard	Sand	Hard	1212	1230			
Shale and Red Rock		H & S	1230	1364			
Sand U.G.S.	White	Hard	1364	1395			
Shale		Med.	1395	1424			
Gas Sand L.	White	Hard	1424	1470			
Shale	Dark	Soft	1470	1482			
Salt Sand	Gray	Hard	1482	1512			
Shale	Dark	Soft	1512	1528			
Salt Sand	Gray	Hard	1528	1576			
Shale&Shells		H & S	1576	1642			
Salt Sand	Gray	Hard	1642	1671			



Formation	Color	Hard or Soft	Top <sup>16</sup>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale	Black	Soft	1671	1692			
Shale&Shells		Med.	1692	1718			
Sand Salt	White	Hard	1718	1770	Water	1740	2 bails/hr.
Shale&Shells	(Black & gray)	H & S	1770	1848			
Sand Salt	White	Hard	1848	1890	Water	1870	2½ bails/hr.
Shale&Shells		H & S	1890	1984			
Red Rock		Soft	1984	2004			
Shale&Shells		H & S	2004	2065			
Little Lime	Gray	Hard	2065	2071			
Pencil Cave		Soft	2071	2076			
Big Lime	Dark	Med.	2076	2130			
Big Injun			2130	2310			
(Sand	-		2130-2144)				
(Lime	-		2144-2149)				
(Shale	-		2149-2158)				
(Sand	-		2158-2249)				
(Shale	-		2249-2252)				
(Sand	-		2252-2310)				
Shale&Shells		H & S	2310	2470			
Sand	Gray	Hard	2470	2492			
Shale&Shells		H & S	2492	2765			
Red Rock	Pink	Soft	2765	2789			
Lime shells		Hard	2789	2795			
Red Rock		Soft	2795	2808			
Shale	Dark	Soft	2808	2890			
Sand Gordon	Stray	Hard	2890	2893			
Shale	Dark	Soft	2893	2896			
Sand Gordon		Hard	2896	2939	Gas & Oil	2937	SLM 2919
Shale	Dark	Soft	2939	2960	Show		
Total Depth				2960			

Date June 29, 1954

APPROVED Quaker State Oil Ref'ng. Corp. Owner

By H. F. Johnston (Title) Geologist