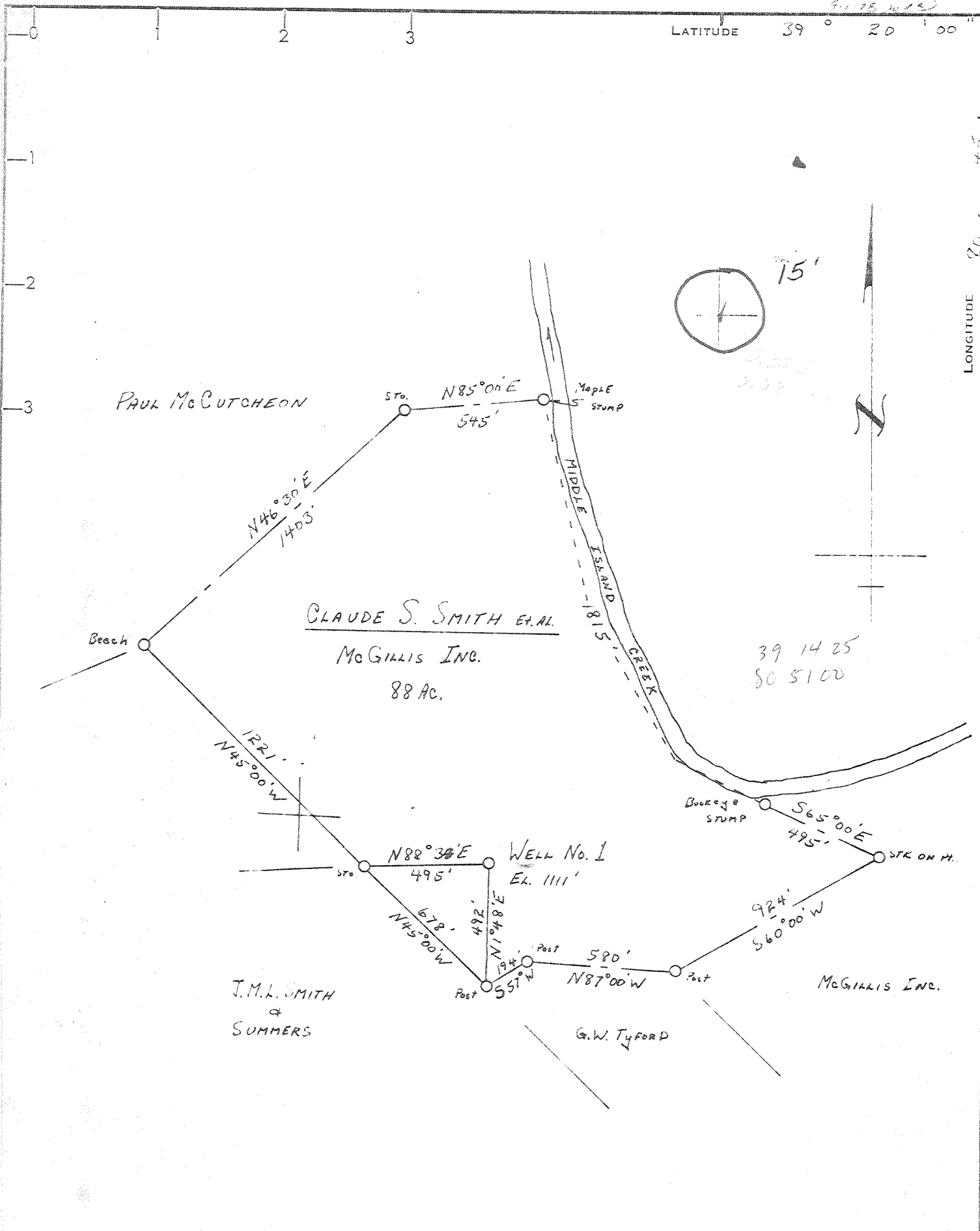


9-1-78 10-1-78



**CERTIFICATE**

"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 degree of accuracy is one part in 200

Signed *L. B. Shuck, P.E. 1596*

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY KEY OIL COMPANY  
 ADDRESS PO Box 239 GREENVILLE, W.VA. 26351  
 FARM CLAUDE S. SMITH  
 MAP ACRES 88 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. ONE SERIAL NO. \_\_\_\_\_  
 ELEVATION (SPIRIT LEVEL) 1111'  
 QUADRANGLE WEST UNION 1.5 SE  
 COUNTY DODDRIDGE DISTRICT WEST UNION  
 POINT OF PROVEN ELEVATION B.M. ON TRAIN TRESSER EL: 866'  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE 8-30-78 SCALE 1"=500'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. **DODD -2289**  
 † 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. **47-017**  
 † DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle \_\_\_\_\_

Permit No. DODD-2289

47-017

Company Key Oil Company  
Address West Union, WV  
Farm Claude F. Smith Acres 108  
Location (waters) Middle Island Creek  
Well No. 1 Elev. 1111  
District West Union County Doddridge  
The surface of tract is owned in fee by \_\_\_\_\_  
McGill's, Inc.  
Address West Union, WV  
Mineral rights are owned by Claude F. Smith, et al  
Address Phillipi, WV  
Drilling Commenced 9-6-78  
Drilling Completed 9-12-78  
Initial open flow NA cu. ft. \_\_\_\_\_ bbls.  
Final production 3,100/cu. ft. per day \_\_\_\_\_ bbls.  
Well open 3 hrs. before test 1790 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	700		
7			
5 1/2			
4 1/2	5486		
3			
2 1/2	4336		
Liners Used			

Well treatment details:

Attach copy of cementing record.

840 bbl	240 sks 80/100	560 sks 20/40	1st stage	5352-5374
750 bbl	200 sks 80/100	420 sks 20/40	2nd stage	4526-4536 4646-4649
565 bbl	100 sks 80/100	340 sks 20/40	3rd stage	3467-3603

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ 640 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Alexander, Riley & Warren Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay, Sand, Shale, Red Rock			0	2065		
Big Lime			2065	2137		
Big Injun			2137	2230		
Sand & Shale			2230	3466		
Warren			3466	3610		
Sand, Shale			3610	4510		
Riley			4510	4650		
Sand, Shale			4650	5320		
<u>Alexander</u>			5320	5404		
Shale			5404	5995		

(over)

\* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED  
SEP - 1 1978  
OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

Surface Owner McGill's Inc.  
Address West Union, WV  
Mineral Owner Claude F. Smith, et al  
Address Phillipi, WV  
Coal Owner \_\_\_\_\_  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

DATE September 1, 1978  
Company Key Oil Company  
Address Glenville, WV  
Farm ~~N. B. Kinney~~ Claude F. Smith Acres 108  
Location (waters) Middle Island Creek  
Well No. 1 Elevation 1111  
District West Union County Doddridge  
Quadrangle West Union SE

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-1-79.

INSPECTOR  
TO BE NOTIFIED Paul Garrett  
ADDRESS Clarksburg, WV  
PHONE 622-3871

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated August 28, 19 78 by Claude F. Smith, et al made to Key Oil Company and recorded on the 29 day of August 19 78 in Doddridge County, Book 104 Page 449

NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

Very truly yours  
(Sign Name) Joe McLaughlin  
Well Operator  
P. O. Box 239  
Street  
Glenville, WV  
City or Town  
West Virginia 26351  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

CASH DEPOSIT  
HELD BY TREASURER

DODD-2289 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

47-017

Signed by \_\_\_\_\_

**THIS IS AN ESTIMATE ONLY**  
**ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO   X   DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME   Fox Drilling Company   NAME   Joe McLaughlin    
 ADDRESS   Glenville, WV   ADDRESS   Glenville, WV    
 TELEPHONE   462-7353   TELEPHONE   462-5587    
 ESTIMATED DEPTH OF COMPLETED WELL:   5995'   ROTARY   X   CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION:   Devonian Shale    
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB.   X   STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	<b>670'</b>		<b>cement to surface</b>
7			
5 1/2			
4 1/2	<b>5995'</b>		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS   420   FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS   none   \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA?   no   BY WHOM? \_\_\_\_\_

**TO DRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

**TO DRILL DEEPER OR REDRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

**TO FRACTURE - STIMULATE:**

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
 For Coal Company

\_\_\_\_\_  
 Official Title