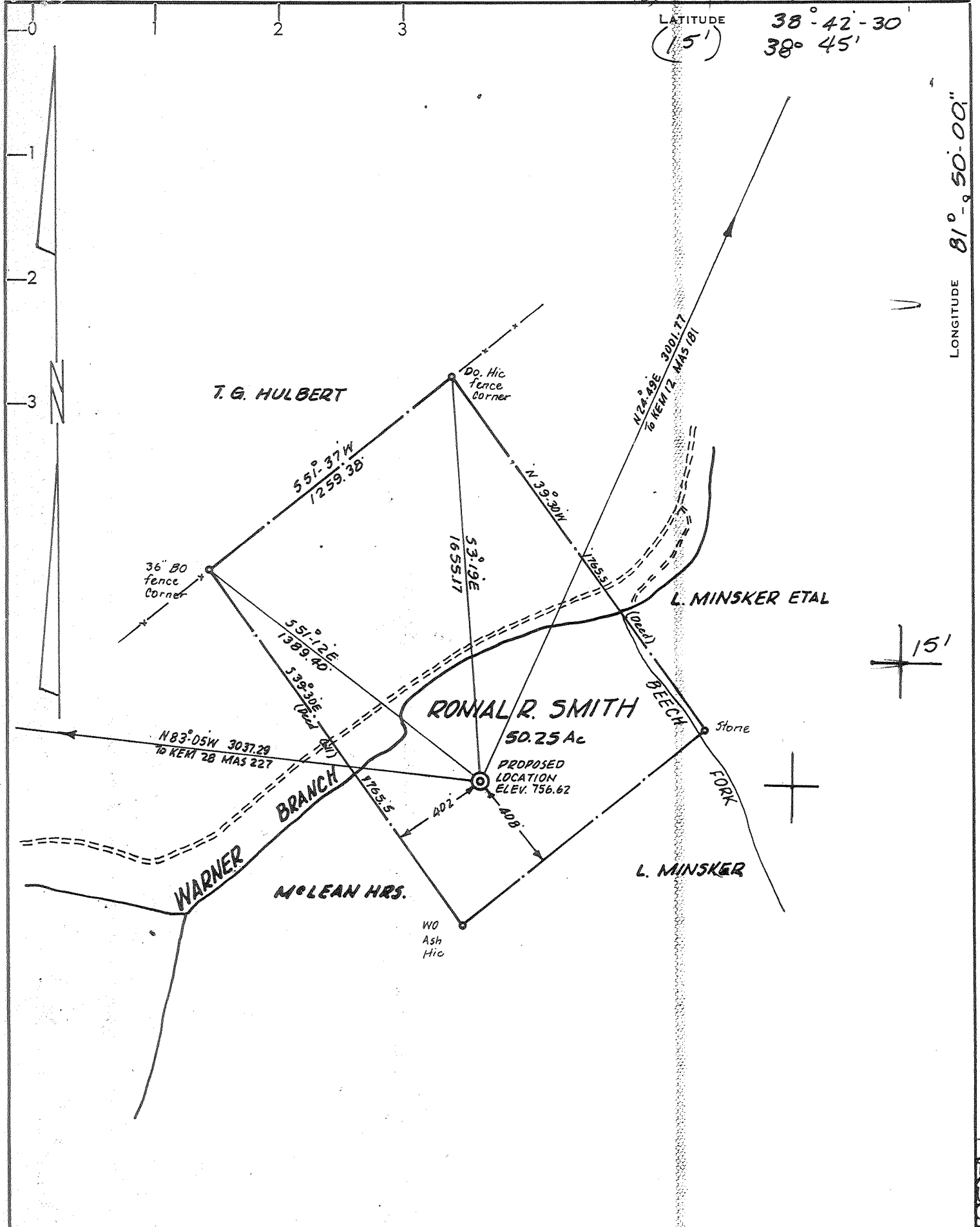


2-55V 2900' 10 10-9-80



009.21  
LONGITUDE 80° 05' 18"

LATITUDE 38° 42' 30" (15') 38° 45'

**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 Frank H. Butler LL#289

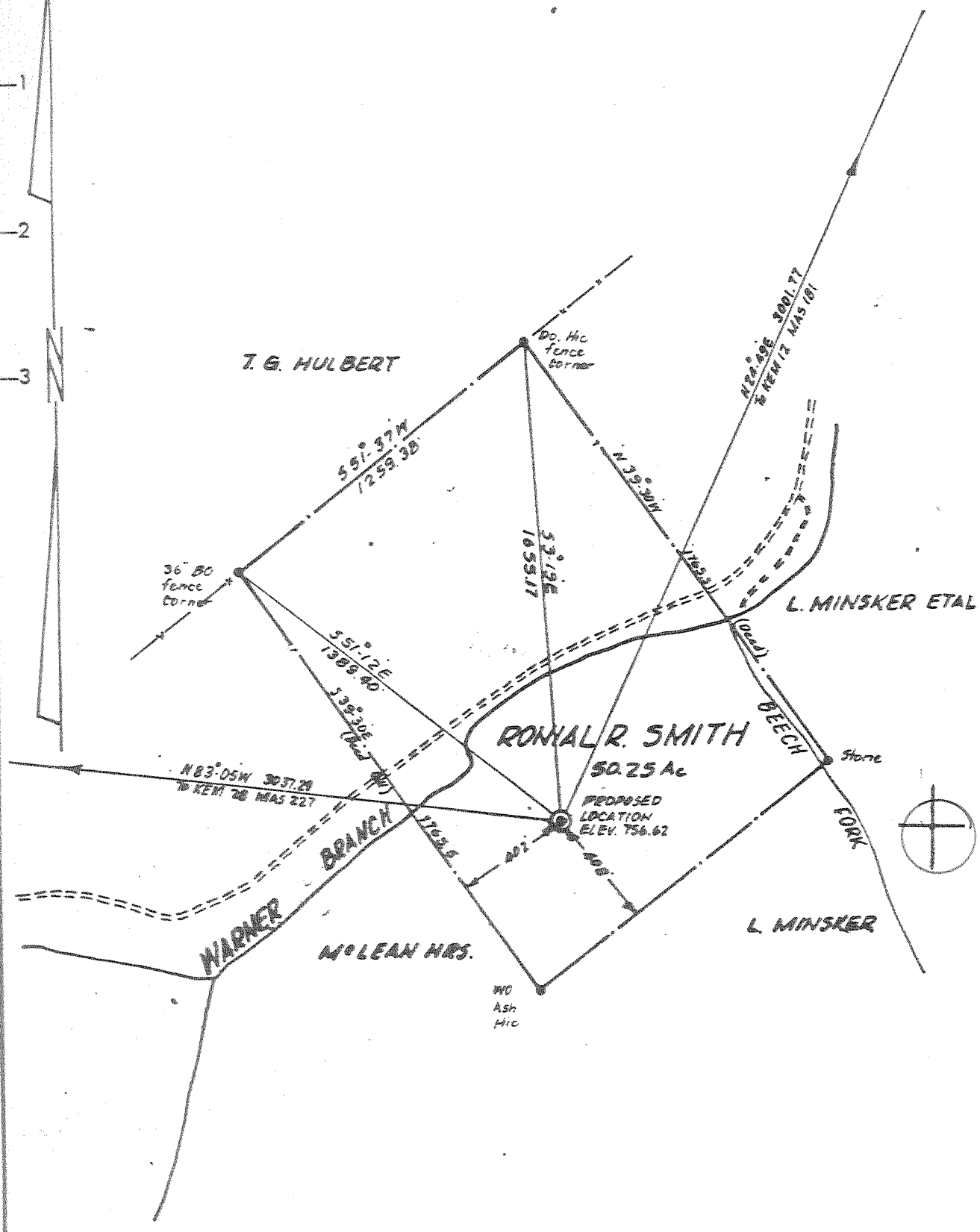
- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMP: Durst Oil & gas Company, Inc.  
 ADDRESS: Rt. 2 - Box 538 - Pt. Pleasant, Wva. 25550  
 FARM: RONAL R. SMITH  
 MAP: \_\_\_\_\_ ACRES: 50.25 LEASE NO: \_\_\_\_\_  
 WELL (FARM) NO: 1 SERIAL NO: KEM 44  
 ELEVATION (SPIRIT LEVEL): 756.62  
 QUADRANGLE: ELMWOOD WINFIELD 15'  
 COUNTY: MASON DISTRICT: UNION  
 POINT OF PROVEN ELEVATION: Road Intersection EL 686  
 FILE NO: \_\_\_\_\_ DRAWING NO: \_\_\_\_\_  
 DATE: SEPT 19, 1980 SCALE: 1" = 500 FT.

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 WELL LOCATION MAP  
053-0241-Phug.  
 FILE NO: \_\_\_\_\_  
 + 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.

Deep well oriskany 4725'

MASON 0241-ERAC



- NEW LOCATION
- RECONDITION
- 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."

Minimum degree of accuracy is one part in 200

Signed Frank H. Barber 45289

**CERTIFICATE**

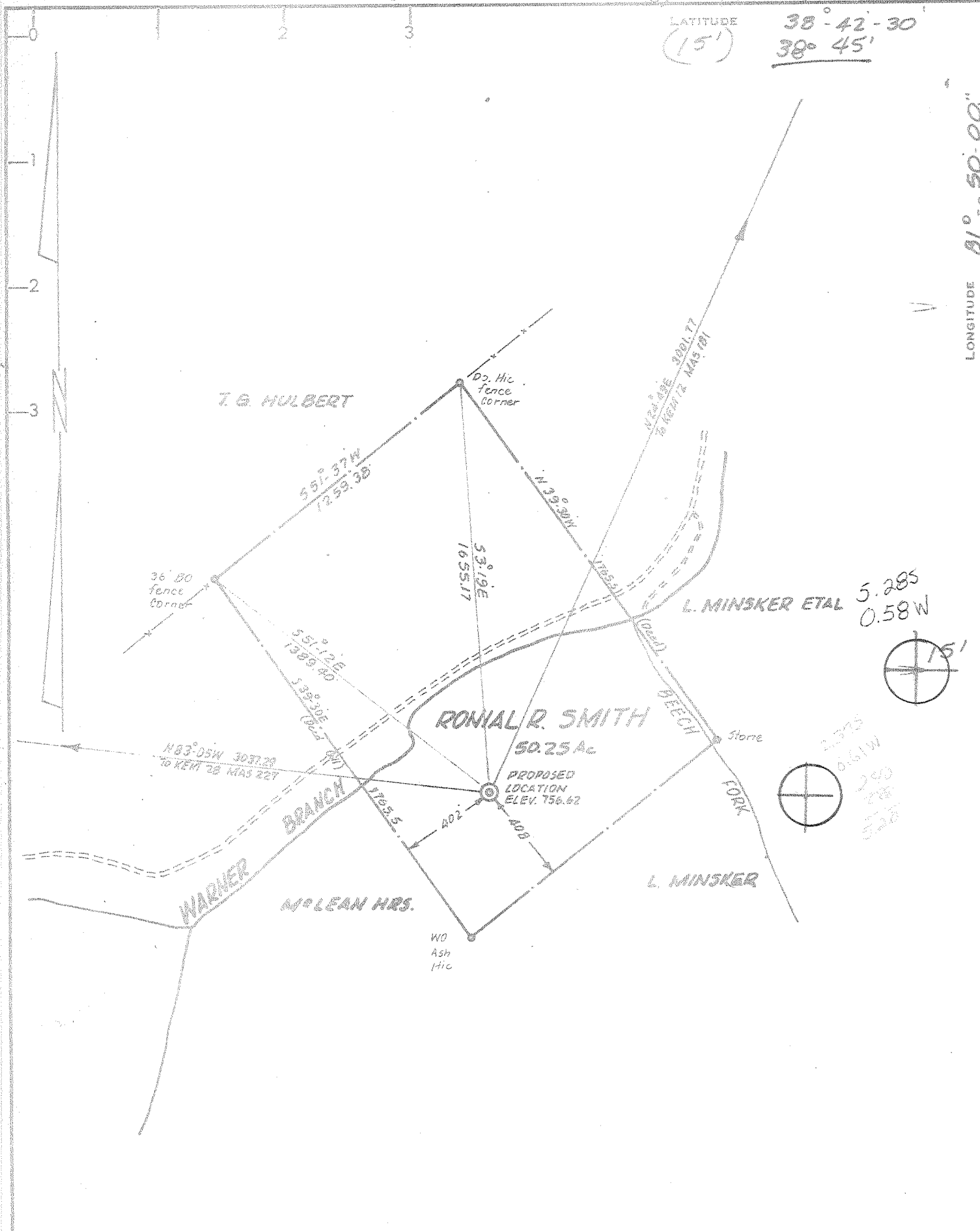
COMPANY KAISER EXPLORATION & MINING COMPANY 465  
 ADDRESS P.O. BOX 8 RAVENSWOOD, WEST VIRGINIA  
 FARM RONIAL R. SMITH  
 MAP \_\_\_\_\_ ACRES 50.25 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 1 SERIAL NO. KEM 44  
 ELEVATION (SPIRIT LEVEL) 756.62  
 QUADRANGLE ELMWOOD 338 139 N 22  
 COUNTY MASON DISTRICT UNION 4  
 POINT OF PROVEN ELEVATION Road Intersection EL 686  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE SEPT. 19, 1980 SCALE 1" = 500 FT.

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 WELL LOCATION MAP

FILE NO. 053-0241-F

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC 24000 MAPS SCALE 1" TO 62500' LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY DOTTED LINES AS SHOWN.  
 - CENTER OF EACH SPACE ON BORDER LINE OF ORIGINAL TRACING

DEEP WELL owwo 6-0 Rock Castle (346)



LATITUDE 38°-42'-30"  
(15')  
38° 45'

LONGITUDE 81°-50'-00"

5.285  
0.58W  
15'  
2375  
0.61W  
240  
288  
328

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

**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 Frank H. Butler US#289

COMPANY KAISER EXPLORATION & MINING COMPANY  
 ADDRESS P.O. Box 8 RAVENSWOOD, WEST VIRGINIA  
 FARM RONIAL R. SMITH  
 MAP \_\_\_\_\_ ACRES 50.25 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 1 SERIAL NO. KEM 44  
 ELEVATION (SPIRIT LEVEL) 756.62  
 QUADRANGLE ELMWOOD WINFIELD 15' NC  
 COUNTY MASON DISTRICT UNION  
 POINT OF PROVEN ELEVATION Road Intersection EL 686  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE SEPT. 19, 1980 SCALE 1" = 500 FT.

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
053-0241  
 FILE NO. \_\_\_\_\_

+ 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

DEEP WELL 6-6 Rock Castle (346) 117a QOV 6 1980

RECEIVED

JUL - 5 1984

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division  
WELL RECORD

OIL & GAS DIVISION  
DEPT. OF MINES

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

Quadrangle Elmwood

Permit No. MAS-241

053-

Company <u>Kaiser Exploration and Mining Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P. O. Box 8, Ravenswood, WV 26164</u>				
Farm <u>Ronial Smith</u> Acres <u>50.25</u>				
Location (waters) <u>Warner Branch</u> <u>756.62</u>				
Well No. <u>KEM #44</u> Elev. <u>664.52</u>	Size			
District <u>Union</u> County <u>Mason</u>	20-16			
The surface of tract is owned in fee by _____	Cond.			
<u>Ronial Smith</u>	13-10" 10 3/4	255' (KB)	255' (KB)	150 sks class
Address <u>Leon, WV 25123</u>	9 5/8			
Mineral rights are owned by <u>Same as above</u>	8 5/8			
Address <u>Same as above</u>	7	2473' (KB)	2473' (KB)	65 sks 50/50
Drilling Commenced <u>10/15/80</u>	5 1/2			100 sks class
Drilling Completed <u>10/22/80</u>	4 1/2	4764' (KB)	4764' (KB)	(1400' fillup)
Initial open flow <u>45 M</u> cu. ft. -- bbls.	3			225 sks 50/50
Final production <u>500 M</u> cu. ft. per day -- bbls.	2		4697' (KB)	(2000' fillup)
Well open <u>10</u> hrs. before test <u>2000# RP.</u>	Liners Used			

Attach copy of cementing record.

Perforated Oriskany Sandstone from 4694'-4701' (K.B.), 4 holes/ft, 28 holes, .50" diameter (Basin Surveys) Halliburton and B.J. Hughes hydrofractured zone on 10/23/80; used 30,000# 80/100 sand, 30,000# 20/40 sand, 5000 gal, 28% HCl acid, 200,000 SCF of nitrogen, 973 bbl water, 2308 hydraulic horsepower; treated at 22.5 BPM at 4200 psig; instantaneous shut in pressure was 3700 psig; 15 minute shut in pressure was 3300 psig.

Coal was encountered at -- Feet -- Inches  
Fresh water -- Feet -- Salt Water -- Feet --  
Producing Sand Oriskany Sandstone Depth 4694'-4701' (K.B.)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil & Shale			0	33		
Siltstone			33	90		
Sand			90	246		
Shale			246	256		
Sand			256	272		
Shale			272	286		
Sand			286	305		
Shale			305	448		
Sand			448	460		
Shale			460	513		
Sand			513	536		
Siltstone			536	822		
Sand			822	846		
Shale			846	907		
Sand			907	953		
Shale			953	980		
Sand			980	988		
Shale			988	1116		
Salt Sand			1116	1258		
Shale			1258	1305		
Siltstone			1305	1352		
Shale			1352	1493		
Siltstone			1493	1597		
Sand			1597	1622		

Tops from KB-767'

(over)

JUL 30 1984

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
		KB = Datum = 757	1622	1713		
Shale			1713	1881		
Big Lime			1881	1931		
Shale			1931	2066		
Big Injun			2066	2380		
Shale			2380	2403		
Coffee Shale			2403	2418		
Berea Sand			2418	3600		
Shale			3600	4044		
Brown Shale			4044	4382		
Shale			4382	4604	Show/Gas	4436', 4570'
Marcellus			4604	4676		
Onondaga Lime			4676	4714	Show/Gas	4687'
Oriskany Sand			4714	4811		
Helderberg Lime						
Total Depth			4811			

GR log - 760' to 4811'

3 4044

A 4178

2h 4382

On 4604

Date November 12 1980

*Keith A. P.*

Operation Manager



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
OCT - 6 1980

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE September 25, 1980

Surface Owner Ronial Smith  
Address Leon, WV 25123  
Mineral Owner Ronial Smith  
Address Leon, WV 25123  
Coal Owner Union Carbide Coal Mines  
Address 32 Sanderson Road, Clendenin, WV  
Coal Operator Same as above  
Address Same as above

Company Kaiser Exploration and Mining Company  
Address P. O. Box 8, Ravenswood, WV 26164  
Farm Ronial Smith Acres 50.25  
Location (waters) Warner Branch  
Well No. KEM #44 Elevation 664.52  
District Union County Mason  
Quadrangle Elmwood

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 6-15-81.

INSPECTOR  
TO BE NOTIFIED Kenneth Butcher

ADDRESS RFD #1, Barboursville, WV 25504

PHONE 736-4885

John B. Butcher  
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  
therein, (or as the case may be) under grant or lease dated April 26 1979 by Ronial Ray  
& Linda Lou Smith made to Kaiser Exploration and Mining Co. and recorded on the 9th day of November  
79 in Mason County, Book 46 Page 693

NEW WELL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1959.

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  
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  
coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the  
\_\_\_\_\_ day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

(Sign Name) R. A. Pryce

R. A. Pryce  
Well Operator

Kaiser Exploration and Mining Company

Street:

P. O. Box 8, Ravenswood

City or Town

West Virginia 26164

State

PLEASE SUBMIT COPIES OF ALL  
PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
736-304 - 292-6331

Address  
of  
Well Operator

BLANKET BOND

47-053-0241

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 Not known at this time. NAME Robert A. Pryce  
 ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 8, Ravenswood, WV 26164  
 TELEPHONE \_\_\_\_\_ TELEPHONE 273-5371  
 ESTIMATED DEPTH OF COMPLETED WELL: 4725' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ 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     10 3/4	250'	250'	Cement back to surface
8 - 5/8			
7	2360'	2360'	125 sks = 570'
5 1/2			
4 1/2	4725'	4725'	125 sks = 1500'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET     SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? Not at the present 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





DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

See Previous IV-35

- 6/04/86 Young's Wireline set perm plug at 4146'. Plug and abandon Oriskany. Perf. Devonian Brown Shale from 3856' to 4031' with 18 holes.
- 6/06/86 Dowell Schulmberger foam frac Shale. Used 34,000# 20/40 sand; total N<sub>2</sub>: 700 MSCF; total fluid: 320 bbl; ISIP: 1100 psig; 5 MIN SIP: 950 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and gas
SEE PREVIOUS IV-35					

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY  
Well Operator

By:     K. A. P.    

Date:     October 6, 1986    

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ... encountered in the drilling of a well."

**RECEIVED**  
Division of Energy

MAY 13 91

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
DIVISION OF OIL AND GAS

Permitting  
AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: SMITH, RONIAL Operator Well No.: 1 KEM-44

LOCATION: Elevation: 756.62 Quadrangle: ELMWOOD  
District: UNION County: MASON  
Latitude: 12600 Feet South of 38 Deg. 42 Min. 30 Sec.  
Longitude 2900 Feet West of 81 Deg. 50 Min. 0 Sec.

Well Type: OIL \_\_\_\_\_ GAS X

Company: Durst Oil and Gas, Inc  
Rt 2 Box 538  
Pt. Pl. WV 25550

Coal Operator \_\_\_\_\_  
or Owner \_\_\_\_\_

Agent: Ronald W. Durst Jr  
Inspector: Jerry Tephack  
Permit Issued: 08/14/90

Coal Operator \_\_\_\_\_  
or Owner \_\_\_\_\_

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Mason ss:

Ronald W. Durst Jr and Daryl L. Perkins being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Durst Oil and Gas, Inc, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 19th day of June, 1990, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Class A Cmt	4030	3790		
Class A Cmt	1900	1800	1900' 4 1/2"	2964'
Class A Cmt	1200	1100	1200' 7"	1273'
Class A Cmt	800	700		
Class A Cmt	250	150	0 10 3/4	255
Class A Cmt	50	0		

Description of monument: 7" CSG w/API #

and that the work of plugging and filling said well was completed on the 27th day of June, 1990.

And further deponents saith not.

Sworn and subscribe before me this 7th day of \_\_\_\_\_, 1991  
My commission expires: 10-23-95

Ronald W. Durst Jr  
Daryl L. Perkins  
MAY 17 1991

OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
REBECCCK BENSON  
413-5th Street, New Haven, WV 25265  
My Commission Expires Oct. 23, 1995.

RECEIVED  
FEB 27 1986



1) Date: February 11, 1986  
 2) Operator's Well No. KEM #44-R Smith  
 3) API Well No. 47 053 241 -F  
 State County Permit

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  /)
- 5) LOCATION: Elevation: 664.52 Watershed: Warner Branch  
 District: Union County: Mason Quadrangle: Elmwood
- 6) WELL OPERATOR Kaiser Exploration and Mining Company CODE: 25-530 7) DESIGNATED AGENT R. A. Pryce  
 Address P. O. Box 8 Address Same  
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephabock  
 Address Rt. 1, Box 101A  
Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name Kaiser Company Tools  
 Address Same
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) Plug back to Brown Shale SET PERMANENT BRIDGE PLUG
- 11) GEOLOGICAL TARGET FORMATION, Brown Shale 401
- 12) Estimated depth of completed well, 4100 (PBD) feet  
 13) Approximate trata depths: Fresh, N/A feet; salt, N/A feet.  
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes  / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										None
Fresh water	10 3/4	H-40	32.75	X		255' (KB)	255' (KB)	150 sk		
Coal										
Intermediate	7	K-55	20	X		2473' (KB)	2473' (KB)	165 sk		
Production	4 1/2	N-80	11.6	X			4697' (KB)	225 sk		
Tubing										
Lin...										
									Top	Bottom
									4694'	4701' (KB)

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-053-0241-Frac

March 11 1986  
Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 11, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>AS</u>	<u>AS</u>	<u>AS</u>	<u>969363</u>	<u>FEAC TANK</u>	<u>AS</u>	

NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]  
Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.