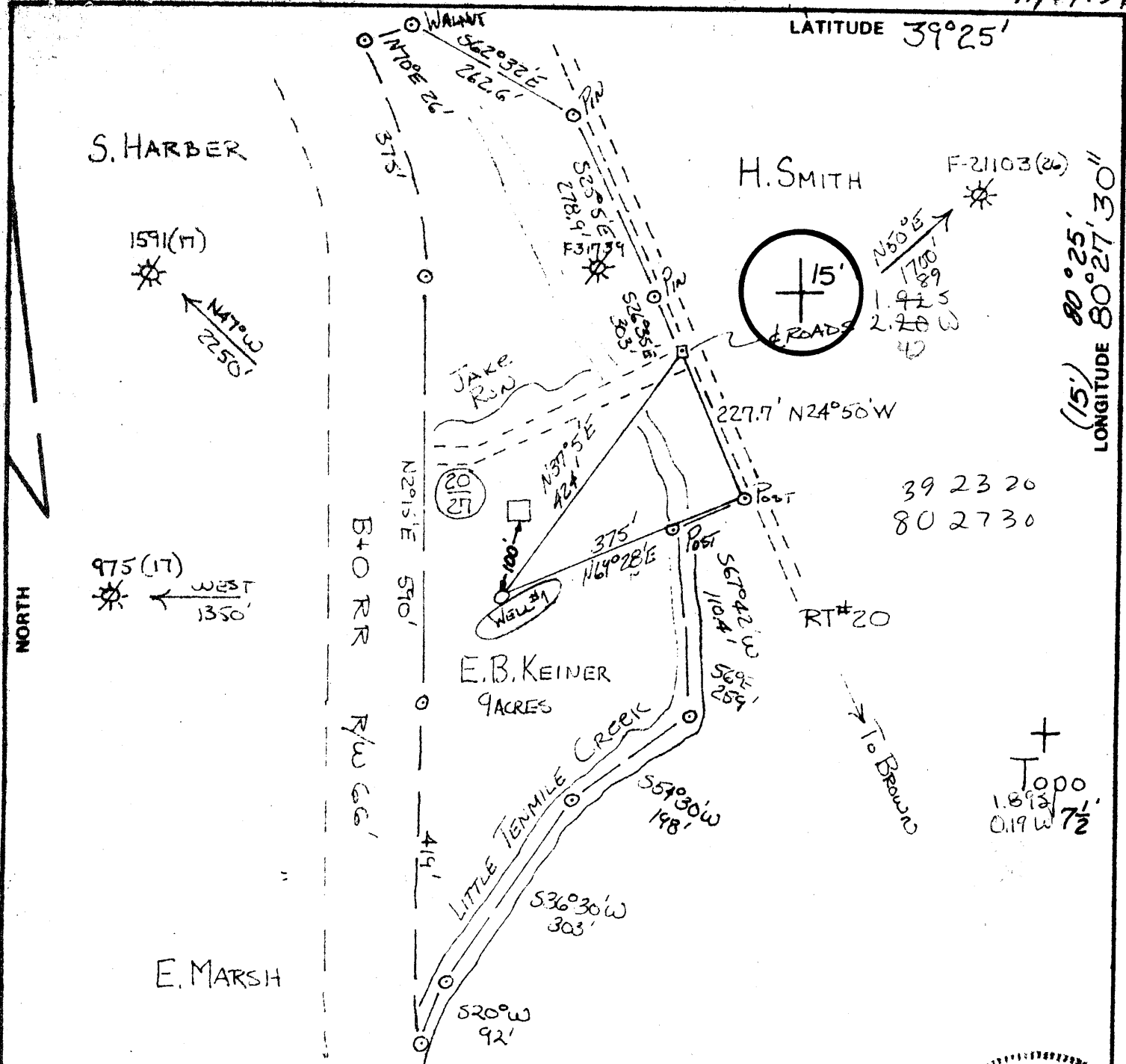
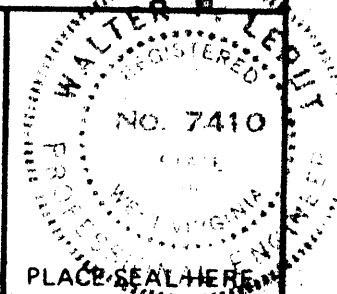


11/2/79



FILE NO. \_\_\_\_\_  
 DRAWING NO. 10-79 E  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION BM ± 200'  
NORTH (1003)

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 MINES.  
 (SIGNED) Walter P. Lepert  
 R.P.E. 7410 L.L.S. \_\_\_\_\_



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE \_\_\_\_\_ 19\_\_\_\_  
 OPERATOR'S WELL NO. (1) 7  
 API WELL NO. \_\_\_\_\_  
47 - 033 - 2224  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1008 WATER SHED LITTLE TEN MILE CREEK  
 DISTRICT SARDIS COUNTY HARRISON  
 QUADRANGLE WALLACE 7 1/2, CLARKSBURG 15'  
 SURFACE OWNER E. B. KEINER ACREAGE 9 WC  
 OIL & GAS ROYALTY OWNER E. B. KEINER LEASE ACREAGE 9  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Benson ESTIMATED DEPTH 4975' DEC 7 1979  
 WELL OPERATOR DORAN + ASSOCIATES, Inc. DESIGNATED AGENT William Sorcan  
 ADDRESS 728 WASHINGTON ROAD ADDRESS RT 4 BOX 444  
Poah, PA. 15228 Buckhannon, W. Va.

1-1 BROWN - LANSBERRY



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**RECORDED**

FEB - 6 1980

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF M. MINES

WELL RECORD 54

Quadrangle Wallace 7 1/2

Permit No. 47-033-2224

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

Company Doran & Associates, Inc.  
Address 728 Washington Rd., Pgh., PA 15228  
Farm E. Keiner Acres 9  
Location (waters) Little Ten Mile Creek  
Well No. #1 K-L-295 Elev. 1008  
District Sardis County Harrison  
The surface of tract is owned in fee by Emlyn B. Keiner, 1520 N. 14th Street  
Address Clarksburg, W.V. 26301  
Mineral rights are owned by Same as above  
Address \_\_\_\_\_  
Drilling Commenced 12-17-79  
Drilling Completed 12-29-79  
Initial open flow --- cu. ft. --- bbls.  
Final production 805 M cu. ft. per day --- bbls.  
Well open 72 hrs. before test 1300# 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	1090	1090	190 Sks.
7			
5 1/2			
4 1/2	4934	4934	390 Sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Date:	Interval Perforated:	Stimulation Record:			
		From	To	Amt. Fluid	Amt. Sand
1-29-80		4800	4823	572 bbls.	65,000#
"		3684	3702	500 bbls.	40,000#
"		3352	3380	430 bbls.	40,000#

Coal was encountered at 180, 340, 425, 570 Feet \_\_\_\_\_ Inches  
Fresh water 70 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Benson, Balltown, Upper Speechley Depth 4808', 3678', 3330'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	7		
White Sand			7	49		
Slate			49	51		
Shale			51	60		
Sand			60	100		
Sandy Shale			100	125		F.W. @ 70'
Sand			125	160		
Shale & Sand			160	180		
Coal			180	185		
Sand			185	195		
Lime			195	330		
Sandy Shale			330	340		
Coal			340	345		
Sand & Shale			345	425		
Coal			425	430		
Sand			430	440		
Shale			440	471		
Sand & Shale			471	540		
Sand			540	570		
Coal			570	572		
Sand			572	580		
Shale & Red Rock & Sand			580	640		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <sup>34</sup>	Bottom Feet	Oil, Gas or Water	Remarks
Sand			640	665		
Sand & Shale			665	770		
Sand			770	790		
Sand & Shale			790	960		
Sand			960	1005		
Sandy Shale			1005	1025		
Sand			1025	1065		
Sandy & Shale			1065	1140		
Lime & Shale			1140	1155		
Shale			1155	1340		
Sand			1340	1380		
Sand & Shale			1380	1465		S.W. @ 1368'
Sand			1465	1617		
Shale & Red Rock & Sand			1617	1705		
Lime & Sand			1705	1720		
Lime & Sand & Shale			1720	1730		
Lime			1730	1856		
Sand			1856	1860		
Sand & Shale			1860	4840		
Shaley Sand			4840	5029		
Driller's T.D.		<i>CHEMUNG</i>		5029		
Upper Speechley			3330	3354		
Balltown			3678	3734		
Bradford			4206	4238		
Wenson			4808	4832		
Logger's T.D.				4987		

Date Feb. 4 1980

APPROVED Donald P. Langhlin Owner

Vice President - Operations  
(Title)

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. API Well No. 47 - 033 - 2224 State County Permit

WELL TYPE: Oil / Gas X / (If "Gas", Production X / Underground storage / Deep / Shallow /) LOCATION: Elevation: 1008 Watershed: Little Tenmile Creek District: Sardis County: Harrison Quadrangle: Wallace 7 1/2

WELL OPERATOR Doran & Associates, Inc. Address 728 Washington Road Pittsburgh, PA 15228

DESIGNATED AGENT Al Sorcan Address Rt. 4, Box 444 Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Emlyn B. Keiner Address 1520 N 14th Street Clarksburg, WV 26301

COAL OPERATOR Virginia Tetrick Address Union National Center West Clarksburg, WV 26301

SURFACE OWNER Emlyn B. Keiner Address 1520 N. 14th Street Clarksburg, WV 26301 Acreage 9

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Virginia Tetrick Address Union National Center West Clarksburg, WV 26301

FIELD SALE (IF MADE) TO: Name N/A Address

COAL LESSEE WITH DECLARATION ON RECORD: Name N/A Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name Paul Garrett Address 321 Beech Street Clarksburg, WV 26301

RECEIVED NOV - 8 1979

OIL & GAS DIVISION DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated May 30, 1979, to Doran & Associates, Inc. from Emlyn B. Keiner

[If said deed, lease, or other contract has been recorded:] Recorded on July 20, 1979, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Book 1081 at page 235. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1618 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

BLANKET BOND

Doran & Associates, Inc. Well Operator

By Weldon A. Doran Jr.

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) \_\_\_\_\_

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, BENSON

Estimated depth of completed well, 4975' feet Rotary  / Cable tools  /

Approximate water strata depths: Fresh, 3045' feet; salt, \_\_\_\_\_ feet.

Approximate coal seam depths: 70', 195', 445' Is coal being mined in the area? Yes  / No

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		
Conductor	11 3/4'			X			30'	To Surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8			X			1050'	To Surface	
Production	4 1/2			X			4975'	300 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or drilling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is **THIS PERMIT MUST BE POSTED AT THE WELL SITE** as defined in the Form IV-2 filed in connection therewith.

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 7-26-80

*[Signature]*  
Deputy Director - Oil & Gas Division  
The following information completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_