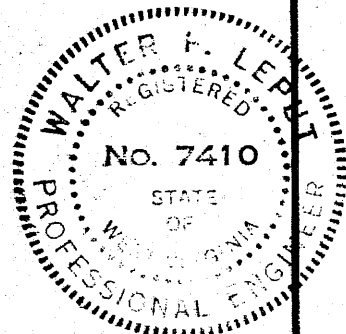
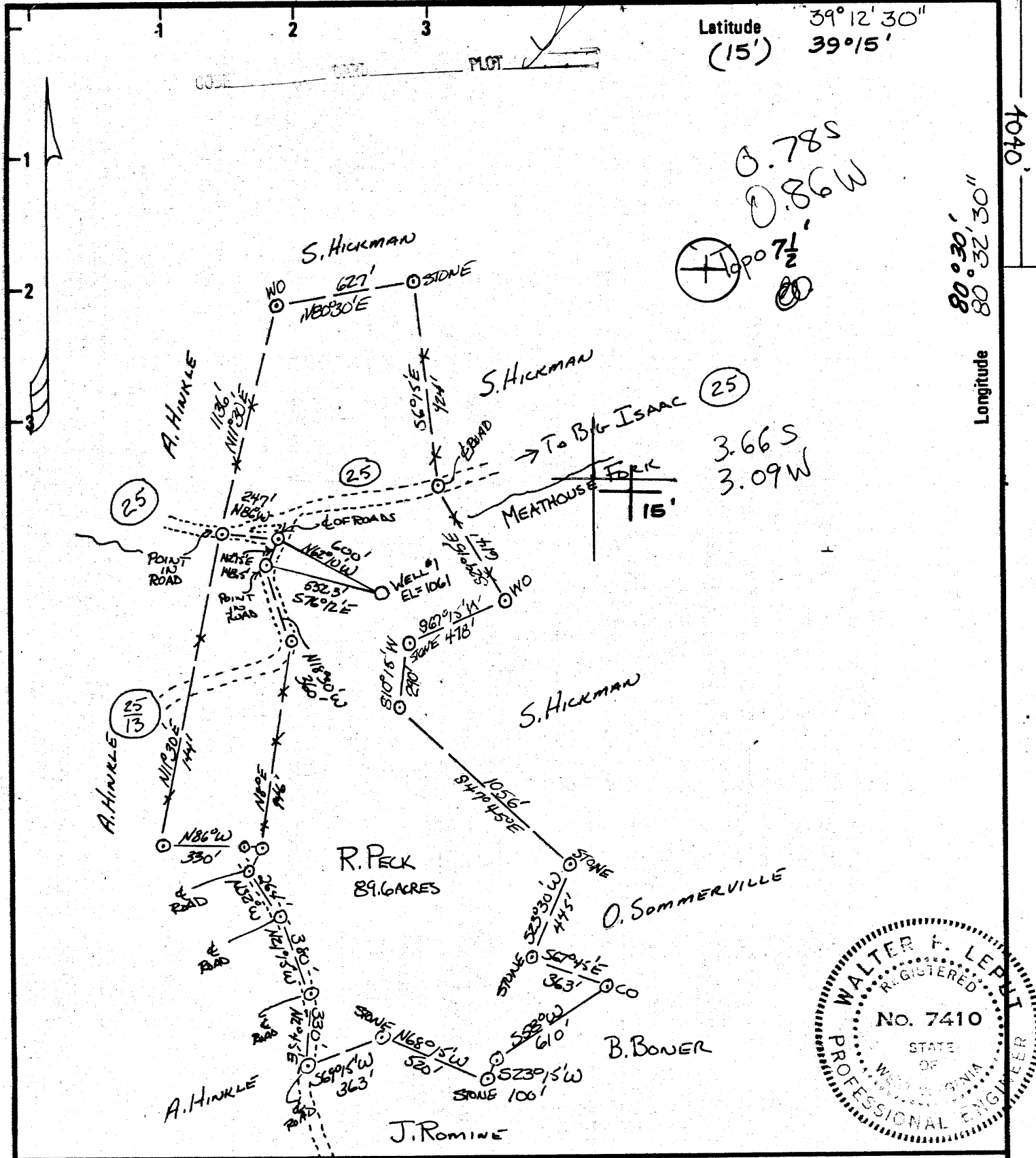


4455' 6/1/79
 Latitude 39°12'30"
 (15') 39°15'



New Location Drill Deeper Abandonment

Minimum Error of Closure 1 IN 200
 Source of Elevation ☒ OF ROADS ± 1/3 MILE NE (944)

"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 DORAN + ASSOCIATES INC.
 Address PITTSBURGH, PA. 229
 Farm R. PECK (HOWARD & ALICE PEPPER)
 Tract _____ Acres 89.6 Lease No. _____
 Well (Farm) No. 1 Serial No. K-L-166
 Elevation (Spirit Level) 1061
 Quadrangle BIG ISAAC 7 1/2, VARIS 15'
 County DODDRIDGE District GREENBRIER 4
 Engineer Walter P. Leput
 Engineer's Registration No. W.V.A. 7410
 File No. _____ Drawing No. 5-1-79A
 Date 5-1-1979 Scale 1" = 600'

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

WELL LOCATION MAP
 FILE NO. 47-017-2443-Frac

252 123 NE 3

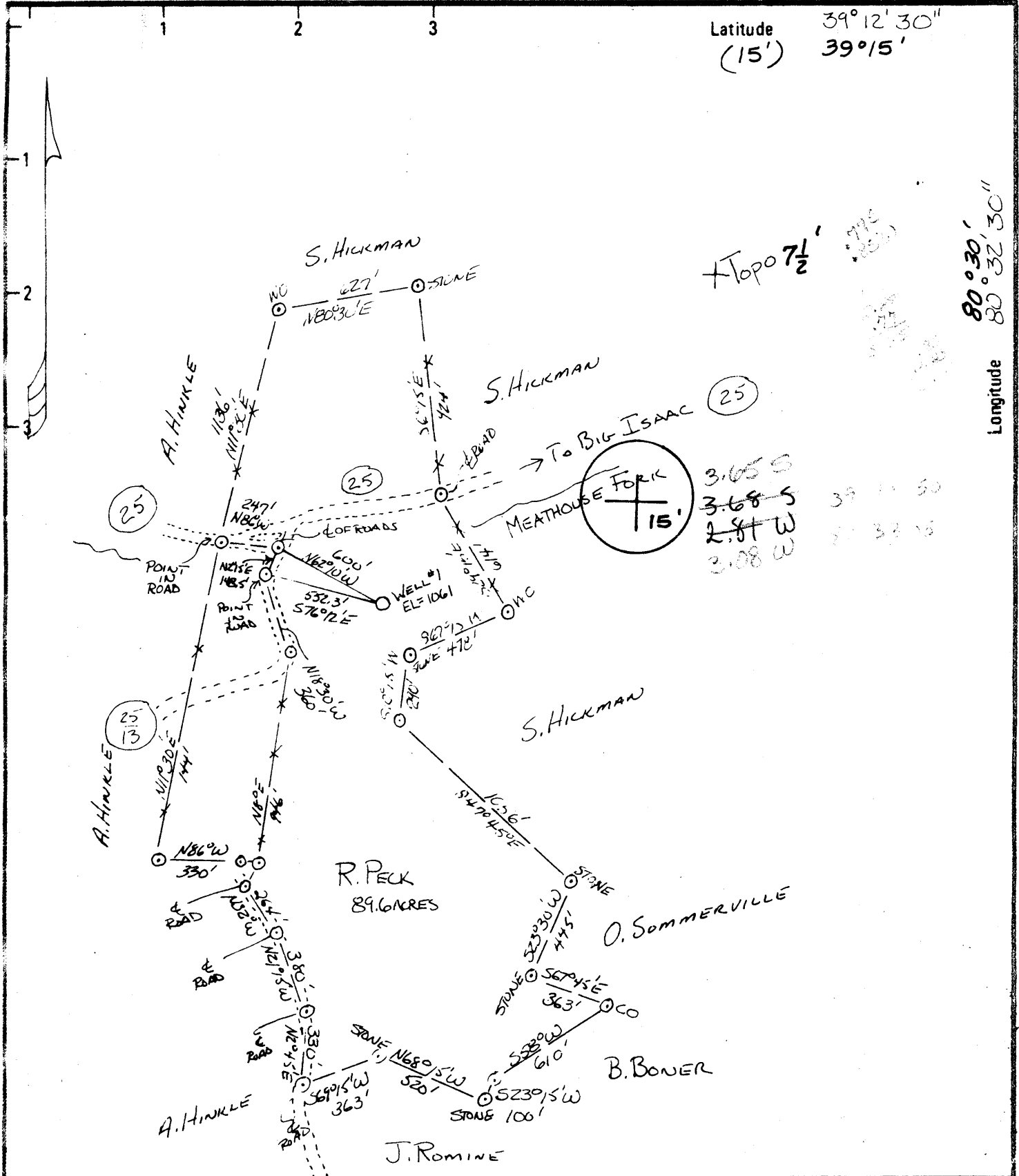
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

AUG 1 1985

51K 5600' 6-6 Big Isaac (147)

Latitude 39°12'30"
(15') 39°15'

Longitude 80°30'30"
80°32'30"



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1/1000
 Source of Elevation $\frac{1}{2}$ OF ROADS \pm 1/3 MILE NE (944)

"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 DORAN + ASSOCIATES INC.
 Address PITTSBURGH, PA.
 Farm R. PECK (HOWARD & ALICE PROPER)
 Tract _____ Acres 89.6 Lease No. _____
 Well (Farm) No. 1 Serial No. K-L-166
 Elevation (Spirit Level) 1061
 Quadrangle BIG ISAAC 1/2, VARIS 15'
 County JODDRIDGE District GREENBRIER
 Engineer Halter P. Reput
 Engineer's Registration No. W.V.A. 7410
 File No. _____ Drawing No. 5-1-79A
 Date 5-1-1979 Scale 1" = 600'

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

WELL LOCATION MAP
 FILE NO. 47-017-2443

+ 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.

JUN 26 1979



IV-35
(Rev 8-81)

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date _____
Operator's _____
Well No. KR-71
Farm R. Peck #1
API No. 47 - 017 - 2443 - F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1061 Watershed Meathouse Fork
District: Greenbrier County Doddridge Quadrangle Big Isaac 7 1/2

COMPANY Doran & Associates, Inc.
ADDRESS 200 Roessler Road, Pgh, PA 15220
DESIGNATED AGENT Charlie Stimeling
ADDRESS P. O. Box 39, Bridgeport, WV 26330
SURFACE OWNER Howard M. & Alice M. Proper
ADDRESS Rt. 3, Salem WV 26426
MINERAL RIGHTS OWNER same as above
ADDRESS same as above
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS (304) 782-1043
PERMIT ISSUED 5-31-79 8/7/85
DRILLING COMMENCED 7-21-79 8/19/85
DRILLING COMPLETED 7-28-79 8/19/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1139'	1139'	210
7			
5 1/2			
4 1/2	4936'	4936'	425
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5573 feet
Depth of completed well 4963 feet Rotary X / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: 90, 200, 350, 550, 943 Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation 5th Pay zone depth 2626 feet
Gas: Initial open flow -- Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow (25) Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 30 # psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

APR 15 1988

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

8/19/85 Set bridge plug at 3430'
Perforated from 2626' - 2640'
Pumped 1000 gal acid

new zone completed

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Substructure			0	20	
Sand			20	90	
Coal			90	93	
Sandy Shale			93	125	
Sand			125	200	
Coal			200	203	
Sandy Shale - Red Rock			203	325	
Sand			325	350	
Coal			350	352	
Sandy Shale			352	550	
Coal			550	557	
Sandy Shale			557	620	
Sand			620	640	
Sandy Shale			640	755	
Sand			755	795	
Sandy Shale			795	943	
Coal			943	945	
Sandy Shale			945	950	
Sand			950	1040	
Sandy Shale			1040	1065	
Sand			1065	1140	
Shale			1140	1420	
Sand			1420	1500	
Sandy Shale			1500	1700	
Shale - Red Rock			1700	1885	
Lime			1885	1900	
Shale			1900	1930	
Big Lime			1930	1990	
Sand			1990	2030	
Sandy Shale			2030	2340	
Sand			2340	2430	
Sandy Shale			2430	3470	
Sand			3470	3535	
Sandy Shale			3535	4810	
Sand			4810	4825	
Sandy Shale			4825	5160	

(Attach separate sheets as necessary)

Donald R. Laughlin
Well Operator

By: Vice President - Operations

Date: April 4, 1988

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 coal, encountered in the drilling of a well."

APR 1988
18 1988

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APR 08 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh & salt water, coal, oil & gas
Sand		5160	5170	
Sandy Shale		5170	5573	
Driller's T.D.			5573	
Speechley		3236	3292	
1st Balltown		3514	3528	
2nd Balltown		3666	3702	
Bradford		4290	4328	
Benson		4826	4840	
Alexander		5164	5192	
Logger's T.D.			5592	

3334



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

APPROVED
JAN 14 1980
OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Big Isaac 7 1/2

Permit No. 47-017-2443

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

Company Doran & Associates, Inc.
Address 728 Washington Road, Pgh., PA 15228
Farm R. Peck Acres 89.6
Location (waters) Meathouse Fork
Well No. 1 K-L-166 Elev. 1061
District Greenbrier County Doddridge
The surface of tract is owned in fee by Howard M. & Alice M. Proper, Rt. 3, Salem, WV
Address 26426
Mineral rights are owned by same as above
Address _____
Drilling Commenced 7-21-79
Drilling Completed 7-28-79
Initial open flow _____ M cu. ft. _____ bbls.
Final production 500 M cu. ft. per day 5 BOPD bbls.
Well open 4 hrs. before test 1000 RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 11 3/4"			
9 5/8			
8 5/8	1139'	1139'	210
7			
5 1/2			
4 1/2	4936'	4936'	425
3			
2			
Liners Used			

Attach copy of cementing record.

Stimulation Record:

Date:	Interval Perforated:	From	To	Amt. Fluid	Amt. Sand
8-31-79		3515	3574	496 BBLS	30,000#
		4830	4838	547 BBLS	35,000#
		5168	5177	599 BBLS	45,000#

Coal was encountered at 90', 200', 350', 550' Feet 943' Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand 1st Balltown, Benson, Alexander Depth 3514, 4826, 5164

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	20		
Sand			20	90		hole damp @ 55'
Coal			90	93		
Sandy Shale			93	125		
Sand			125	200		
Coal			200	203		
Sandy Shale - Red Rock			203	325		
Sand			325	350		
Coal			350	352		
Sandy Shale			352	550		
Coal			550	557		
Sandy Shale			557	620		
Sand			620	640		
Sandy Shale			640	755		
Sand			755	795		
Sandy Shale			795	943		
Coal			943	945		
Sandy Shale			945	950		
Sand			950	1040		
Sandy Shale			1040	1065		
Sand			1065	1140		
Shale			1140	1420		
Sand			1420	1500		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sandy Shale			1500	1700		
Shale - Red Rock			1700	1885		
Lime			-1885	1900		
Shale			1900	1930		
Big Lime			-1930	1990		
Sand			1990	2030		
Sandy Shale			2030	2340		
Sandy			2340	2430		
Sandy Shale			2430	3470		
Sand			3470	3535		
Sandy Shale			3535	4810		
Sand			4810	4825		
Sandy Shale			4825	5160		
Sand		<i>A.L.E.K.</i>	5160	5170		
Sandy Shale			5170	5573		
Drillers' T.D.				5573		
Speechley			3236	3292		
1st Balltown			3514	3528		
2nd Balltown			3666	3702		
Bradford			4290	4328		
Benson			-4826	4840		
Alexander			5164	5192		
Loggers' T.D.				5592		

Date Jan 4 1980

APPROVED Donald R. Laughlin Owner

By Donald R. Laughlin, Manager-Prod., Eng.

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

MAY 31 1979
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE May 10, 1979

Surface Owner Howard M. & Alice M. Proper

Company Doran & Associates, Inc.

Address Rt. 3, Salem, WV 26426

Address 728 Washington Road, Pgh, PA 15228

Mineral Owner same as above

Farm R. Peck Acres 89.6

Address _____

Location (waters) Meathouse Fork

Coal Owner Eastern Associated Coal Company

Well No. 1 K-L-166 Elevation 1061

Address Koppers Building, Pittsburgh, PA 15219

District Greenbrier County Doddridge

Coal Operator _____

Quadrangle Big Isaac 7 1/2

Address _____

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,
the W. Va. Code, the location is hereby approved
drilling. This permit shall expire if
operations have not commenced by 2-15-80

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS Clarksburg, WV

PHONE (304) 622-3871

[Signature]
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 May 17, 1978 by Rebekah Peck made to Clarence W. Mutschelknaus and recorded on the 13th day of October 1978 in Doddridge County, Book 104 Page 842

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 this 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

Very truly yours,
[Signature]
(Sign Name) Donald R. Langfili
Well Operator

Address 728 Washington Road
Street
of Pittsburgh
Well Operator City or Town
Pennsylvania 15228
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.

BLANKET BOND

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____

DRILLING CONTRACTOR: (If Known)

RESPONSIBLE AGENT:

NAME S. W. Jack

NAME Alvin Sorcan

ADDRESS Buckhannon, W. Va. 26201

ADDRESS Rt. 4 Box 444 Buckhannon

TELEPHONE 472-9403

TELEPHONE 472-0007

ESTIMATED DEPTH OF COMPLETED WELL: 5600'

ROTARY CABLE TOOLS _____

PROPOSED GEOLOGICAL FORMATION: Elk

TYPE OF WELL: OIL _____ GAS 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 11 3/4	30'		
8 - 5/8	1075'	1075'	250 sk
7			
5 1/2			
4 1/2	5600'	5600'	325 sk
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET _____ SALT WATER 875 FEET _____

APPROXIMATE COAL DEPTHS 520'

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

RECEIVED
JUL 29 1985



1) Date: July 8, 1985, 19
 2) Operator K-R-71 (K-L-166) R. Peck #1
 Well No. _____
 3) API Well No. 47 - 017-2443 Frac
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1061 Watershed: Meathouse Fork
 District: Greenbrier County: Doddridge Quadrangle: _____
- 6) WELL OPERATOR Doran & Associates, Inc. (229) 7) DESIGNATED AGENT Charlie Stimeling
 Address 200 Roessler Road Address P.O. Box 39
Pittsburgh, PA 15220 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Paul Garrett Name _____
 Address Clarksburg, WV 26301 Address _____
304-622-3871
- 10) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation X / Perforate new formation X /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Gordon 419
- 12) Estimated depth of completed well, 3450 (plug back) feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ 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		
Conductor									Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8					1139'	1139'	210 sks	
Production	4 1/2					4936'	4936'	425 sks	Depths set
Tubing									
Liners									Perforations:
									Top 2626 Bottom 2640
									3515 4830
									5156 5165

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-2443 Date August 7 19 85

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 August 7, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>✓</u>	Agent: <u>A-D</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>24381</u> <u>24486</u>
----------------	-------------------	-----------------	-------------------	-----------------------------------

[Signature]
 Administrator, Office of Oil and Gas
 DIRECTOR, DIVISION

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

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

File