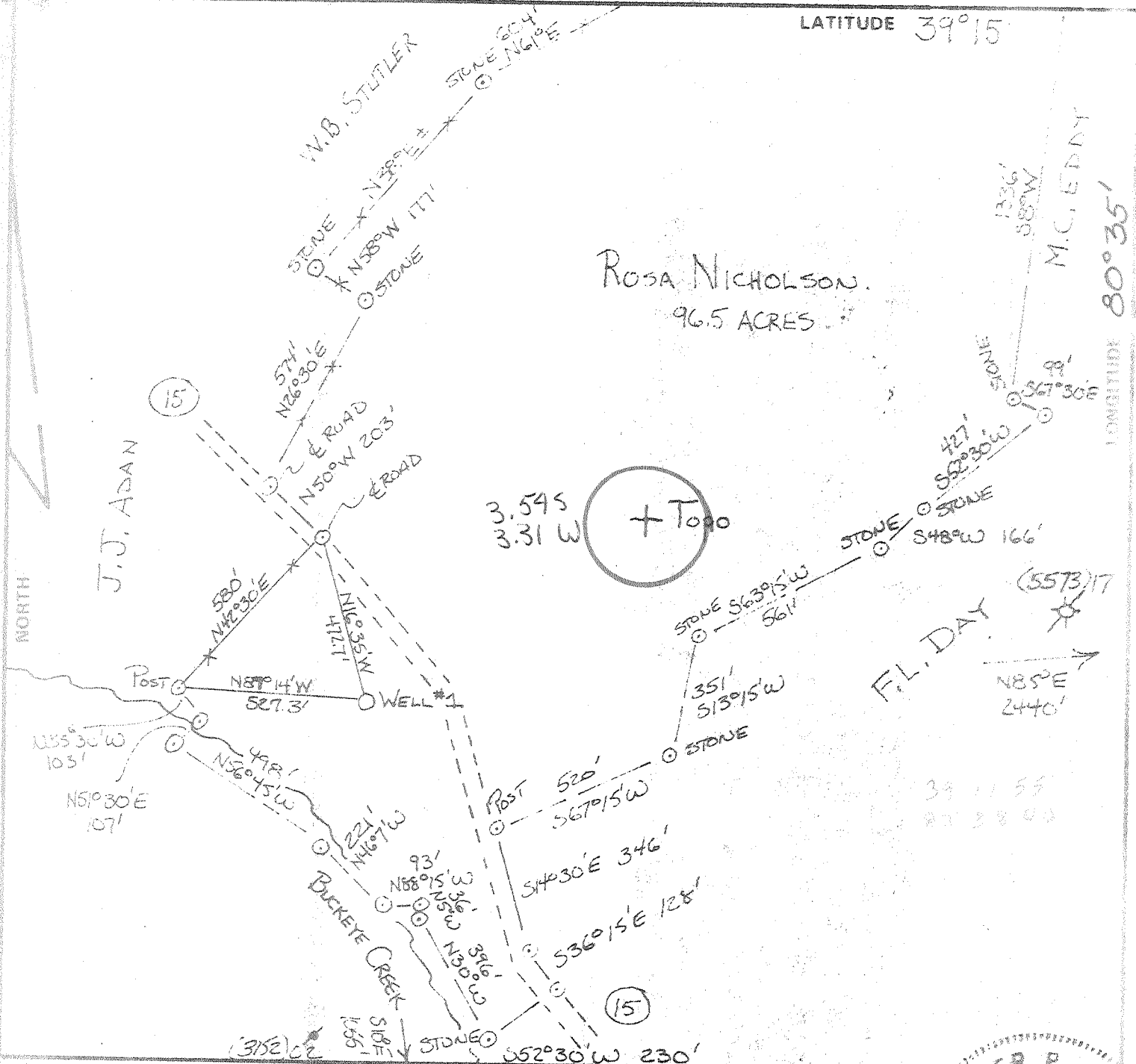


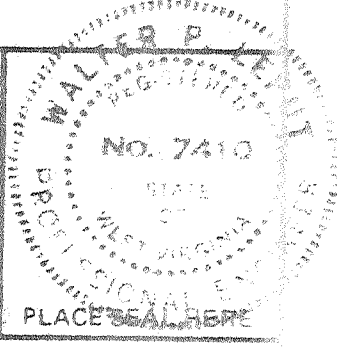
LATITUDE 39° 15'

LONGITUDE 80° 35'



FILE NO. 6-25-79 B
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION ☉ OF ROADS
± 472' NW (904)

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. Lepout
 R.P.E. 7410 L.L.S. _____



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



DATE 7-16-79
 OPERATOR'S WELL NO. _____
 API WELL NO. _____
47 - 017 - 2484
 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 ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 901 WATER SHED BUCKEYE CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7/2 VADIS 15' NC
 SURFACE OWNER J.A. MILLS ACREAGE 96.5
 OIL & GAS ROYALTY OWNER ROSA NICHOLSON LEASE ACREAGE 96.5
 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 Mississippi ESTIMATED DEPTH 3000
 WELL OPERATOR DORAN + ASSOCIATES DESIGNATED AGENT Wm. Sorenson
 ADDRESS 728 WASHINGTON ROAD ADDRESS 157 13th St
Pg-N, PA 15228 157 13th St

SEP 24 1979

66 NEW MILTON S 307



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD 10

JAN 14 1980

OIL & GAS DIVISION
DEPT. OF MINES
Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Big Isaac
Permit No. 47-017-2484

Company Doran & Associates, Inc.
Address 728 Washington Rd. Pgh., PA 15228
Farm Rosa Nicholson Acres 96.5
Location (waters) Buckeye Creek
Well No. #1 K-L-165 Elev. 1096'
District Greenbrier County Doddridge
The surface of tract is owned in fee by Jeffrey A. & Penelope Mills, Rt. 1, Salem, WV
Address William E. Joyce, 713 Dresden Dr., Newport News, VA
Mineral rights are owned by Rosa Nicholson
Address 114 E. Main St., Salem, WV
Drilling Commenced 9/24/79
Drilling Completed 10/01/79
Initial open flow 73 Mcu. ft. - bbls.
Final production 730 4 cu. ft. per day bbls.
Well open 72 hrs. before test. 1750# RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			230 Sks.
8 5/8	1179'	1179'	
7			
5 1/2			
4 1/2	5275'	5275'	130 Sks.
3			
2			
Liners Used			

Attach copy of cementing record.

Stimulation Record:

Date:	Interval Perforated:	From:	To:	Amt Fluid:	Amt Sand:
10-25-79		5132	5206	570 BBLS	50,000#
		4826	4832	631 BBLS	50,000#
		4706	4713	461 BBLS	39,000#

Coal was encountered at 255', 585' & 900' Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Riley, Benson, Alexander Depth 4718, 4846, 5116

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	10		
Sand			10	85		
Shale - Red Rock			85	95		
Sand			95	145		
Sandy Shale			145	170		
Sand			170	255		
Coal			255	258		
Sand			258	275		
Sandy Shale & Red Rock			275	355		
Sand			355	380		
Sandy Shale & Red Rock			380	585		
Coal			585	590		
Sandy Shale & Red Rock			590	815		
Sand			815	825		
Sandy Shale & Red Rock			825	900		
Coal			900	905		
Sandy Shale			905	1015		
Sand			1015	1065		
Sandy Shale			1065	1115		
Sand			1115	1905		
Little Lime			1905	1915		
Shale			1915	1930		
Big Lime			1930	1985		

(over)

FEB 13 1980

Formation	Color	Hard or Soft	Top Feet ¹⁰	Bottom Feet	Oil Gas or Water	Remarks
Sand			1985	2035		
Sandy Shale			2035	2150		
Sand			2150	2250		
Sandy Shale			2250	3365	Gas @ 2670', 2710'	
Sand			3365	3450		
Sandy Shale			3450	3595		
Sand			3595	3650		
Sandy Shale			3650	4835	Gas @ 4750'	
Sand			4835	4845		
Sandy Shale			4845	5180	Gas @ 5150'	
Sand			5180	5205		
Sandy Shale		ALX.	5205	5339		
Driller's T.D.				5339		
Big Injun			1986	2055		
Neir			2140	2160		
th Sand			2673	2690		
peechley			3266	3308		
peechley Stray			3554	3568		
alltown			3852	3900		
radford			4338	4374		
iley			4718	4740		
enson			4846	4858		
lexander			5116	5220		
ogger's T.D.				5338		

Date Jan 4 1930

APPROVED Donald R. Langille Owner

Vice President - Operations

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 1
API Well No. 47-017-2484
State County Permit

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1096 Watershed: Buckeye Creek
District: Greenbrier County: Doddridge Quadrangle: Big Isaac 7 1/2

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

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

OIL & GAS ROYALTY OWNER Rosa Nicholson
Address 114 E. Main Street
Salem, WV
Acreage 96.5

COAL OPERATOR Virginia A. Tetrick
Address: Union National Center
Clarksburg, WV 26301

SURFACE OWNER Jeffrey A. & Penelope Mills
Address Rt. 1, Salem WV 26426 -- 87 Acres
William E. Joyce
713 Dresden Dr., Newport New, VA 23601
Acreage 3.44 Acres & 1.447 Acres

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

FIELD SALE (IF MADE) TO:
Name Unknown

Address _____

Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A Consolidation Coal Co.

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, WV 26301
304-622-3871

Address _____

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 January 29, 1979, to the undersigned well operator from Rosa Nicholson to Clarence W. Mutschelknaus [if said deed, lease, or other contract has been recorded:]

Recorded on February 9, 1979, in the office of the Clerk of the County Commission of Doddridge county, West Virginia, in _____ Book 107 at page 405. A permit is requested as follows:

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

RECEIVED
SEP - 6 1979

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

OIL & GAS DIVISION
DEPT. OF MINES
The above named coal operator, coal owner(s), and coal lessee are hereby notified that any action 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 PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
15 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND Donald R. Laughlin
Well Operator

By Donald R. Laughlin
Vice President-Operations

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack
Address Buckhannon, W.Va.

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500' feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 30' feet; salt, 725' feet.

Approximate coal seam depths: 200' Is coal being mined in the area? Yes / No X

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'			Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	2416		X		1100'		250 SK	
Production	4 1/2		9.5	X		5500'		300 SK	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 noted as such on the Form IV-2 filed in connection therewith.

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 5-6-80.

Willis G. Tetrick Jr.
Deputy Director - Oil & Gas Division

The preceding order must be 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 X / 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: 5 September, 19 79

By Willis G. Tetrick Jr.
Its Agent