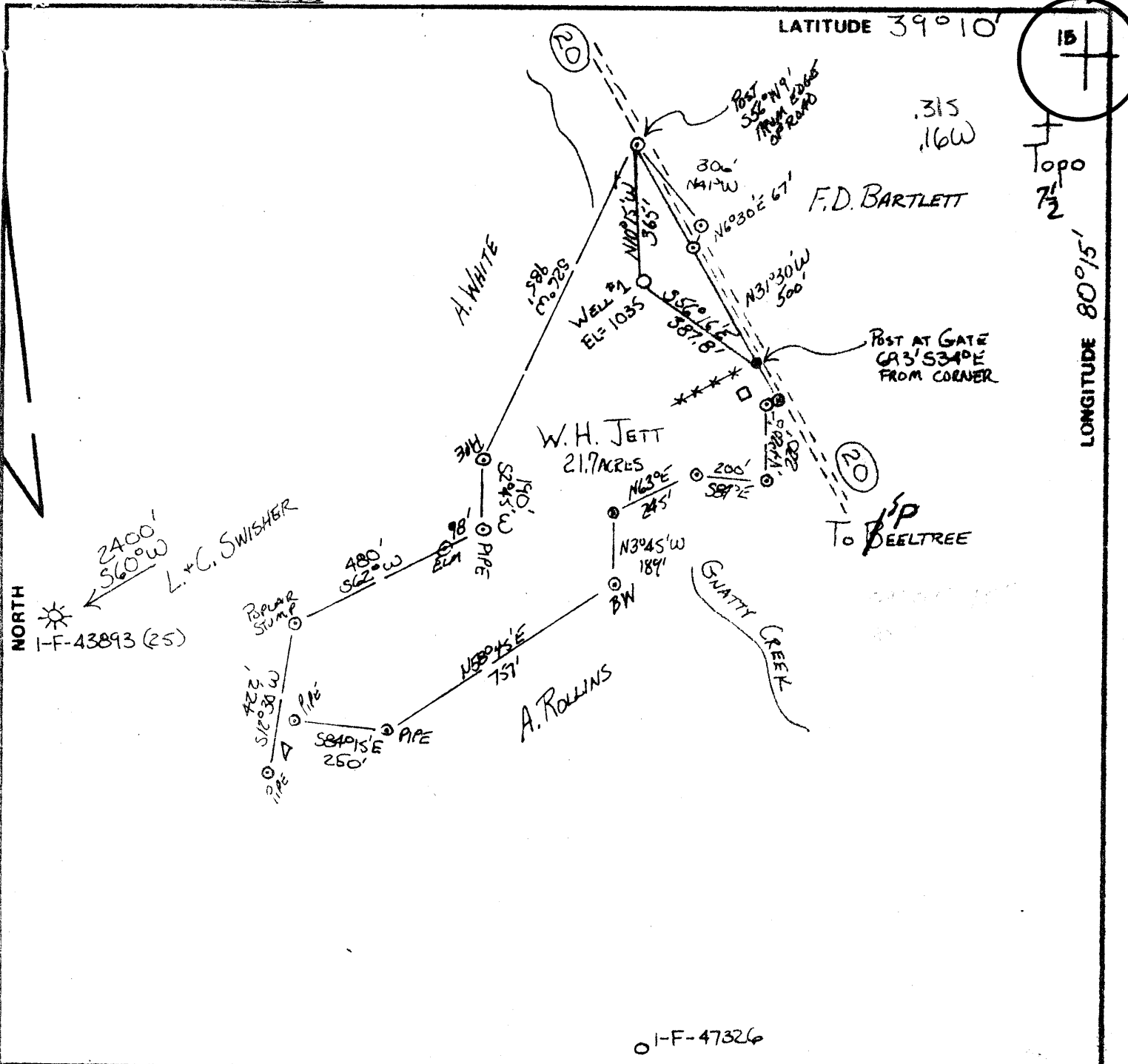


LATITUDE 39° 10'

LONGITUDE 80° 15'



1-F-47326

FILE NO. _____
 DRAWING NO. 11-1979 C
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION \$ OF ROADS
1/8 MILE NORTH (1023)

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

PLACE SEAL HERE

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



DATE _____ 19____
 OPERATOR'S WELL NO. (1)
 API WELL NO. 1-KC-224
47-033-2232
 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 1035 EC WATER SHED GNATTY CREEK
 DISTRICT ELK COUNTY HARRISON
 QUADRANGLE MOUNT CLARE 1/2, WESTON 15' EC
 SURFACE OWNER W. H. JETT ACREAGE 21.7
 OIL & GAS ROYALTY OWNER W. H. JETT LEASE ACREAGE 21.7
 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 Santon ESTIMATED DEPTH 2500
 WELL OPERATOR DORAN ASSOCIATES INC DESIGNATED AGENT Walter P. Reput
 ADDRESS 728 WASHINGTON ROAD ADDRESS 1000 E. Main St. P.O. Box 1000
P.O. Box 1000

6-0 JARVIS... (155)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Mount Clare
Permit No. 47-033-2232

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

Company Doran & Associates, Inc.
Address 728 Washington Rd., Pgh., PA 15228
Farm W. H. Jett Acres 21.7
Location (waters) Gnatty Creek
Well No. K-L-224 #1 Elev. 1035
District Elk County Harrison
The surface of tract is owned in fee by William H. & Pauline P. Jett
Address Rt. 2, Lost Creek, WV 26385
Mineral rights are owned by Same as Above
Address _____
Drilling Commenced 2-21-80
Drilling Completed 2-27-80
Initial open flow 103 m. cu. ft. --- bbls.
Final production 1434 m. cu. ft. per day --- bbls.
Well open 4 hrs. before test 1100 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 20-16 11 3/4"	34	34	
9 5/8			
8 5/8	1890	1890	520 Sks.
7			
5 1/2			
4 1/2	4336	4336	560 Sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Stimulation Record:

Date:	Interval Perforated:	From	To	Amt. Fluid	Amt. Sand
3-10-80		4210	4267	510 bbls	55,000#
		3450	3460	505 bbls	45,000#
		2233	2297	542 bbls.	50,000#

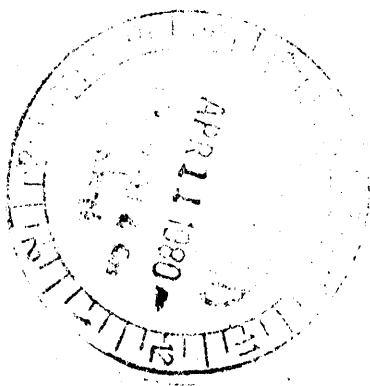
Coal was encountered at 95', 360', 455', 510' Feet 569', 652', 858' Inches
Fresh water 20', 85' Feet _____ Salt Water 1750' Feet _____
Producing Sand Benson, Bradford, Fifth Sand Depth 4208, 3398, 2236 Feet _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	32		F.W. @ 20'
Shale			32	70		
Sand			70	95		
Coal			95	97		F.W. @ 85'
Sand			97	185		
Sandy Shale			185	258		
Sand			258	285		
Sandy Shale			285	315		
Sand			315	360		
Coal			360	362		
Sandy Shale			362	455		
Coal			455	459		
Sandy Shale			459	510		
Coal			510	513		
Sand			513	569		
Coal			569	570		
Sandy Shale			570	615		
Sand			615	652		
Coal			652	655		
Sandy Shale			655	735		
Sand			735	858		
Coal			858	860		
Sandy Shale			860	910		

RECEIVED
APR 18 1980
OIL & GAS DIVISION
DEPT. OF MINES

* Indicates Electric Log core in the _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			910	956		
Sandy Shale			956	1012		
Sand			1012	1035		
Shale - Red Rock			1035	1125		
Sand			1125	1200		
Shale - Red Rock			1200	1275		
Lime			1275	1305		
Shale			1305	1325		
Lime			1325	1410		
Sand			1410	1502		
Sandy Shale			1502	1745		
Sand			1745	1815		S.W. @ 1750'
Sandy Shale			1815	1845		
Sand			1845	1872		
Sandy Shale			1872	1915		
Sand			1915	1925		
Sandy Shale			1925	2280		Gas @ 2240'
Sand			2280	2305		
Sandy Shale			2305	3425		
Sand			3425	3480		Gas @ 3454'
Sandy Shale			3480	4208		
Sand <u>BENSON</u>			4208	4222		Gas @ 4216
Sandy Shale			4222	4375		
Driller's T.D.				4375		
Fifth Sand			2236	2310		
Bradford			3398	3468		
Benson			4208	4218		
Logger's T.D.				4372		



Date April 3 1980
APPROVED Donald R. Laughlin
Donald R. Laughlin
By Vice President Operations
(TML)

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 1-K-L-224

API Well No. 47 - 033 2232 State County Permit

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

LOCATION: Elevation: 1035 Watershed: Gnatty Creek District: Elk County: Harrison Quadrangle: Mount Clare 7 1/2

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

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

OIL & GAS ROYALTY OWNER William H. Jett & Pauline P. Jett Address Rt. 2 Lost Creek, WV 26385

COAL OPERATOR William H. Jett & Pauline P. Jett Address Rt. 2 Lost Creek, WV 26385

Acreage 21.7

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER William H. Jett & Pauline P. Jett Address Rt. 2 Lost Creek, WV 26385

Name William H. Jett & Pauline P. Jett Address Rt. 2 Lost Creek, WV 26385

Acreage 21.7

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

Name Address

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

COAL LESSEE WITH DECLARATION ON RECORD: Name N/A Address DEC 10 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 July 31, 1979, to the undersigned well operator from William H. Jett & Pauline P. Jett

[If said deed, lease, or other contract has been recorded:]

Recorded on August 20, 1979, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Book 1082 at page 387. 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 1625 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

BLANKET BOND

Doran & Assoc., Inc. Well Operator

By Donald P. Laughlin

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-2 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION, Benson

Estimated depth of completed well, 4500 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 2010 feet; salt, 750 feet.

Approximate coal seam depths: 70 **Is coal being mined in the area?** Yes / No

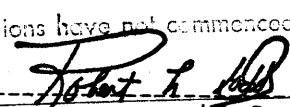
CASING AND TUBING PROGRAM

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'	3		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8		24/lb	X		1050	1050	250	
Production	4450		9.5	X		4450	4450	300	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 dwelling 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 stimulation is a 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 8-10-80.


Deputy Director - Oil & Gas Division

The following waiver 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 / 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 _____