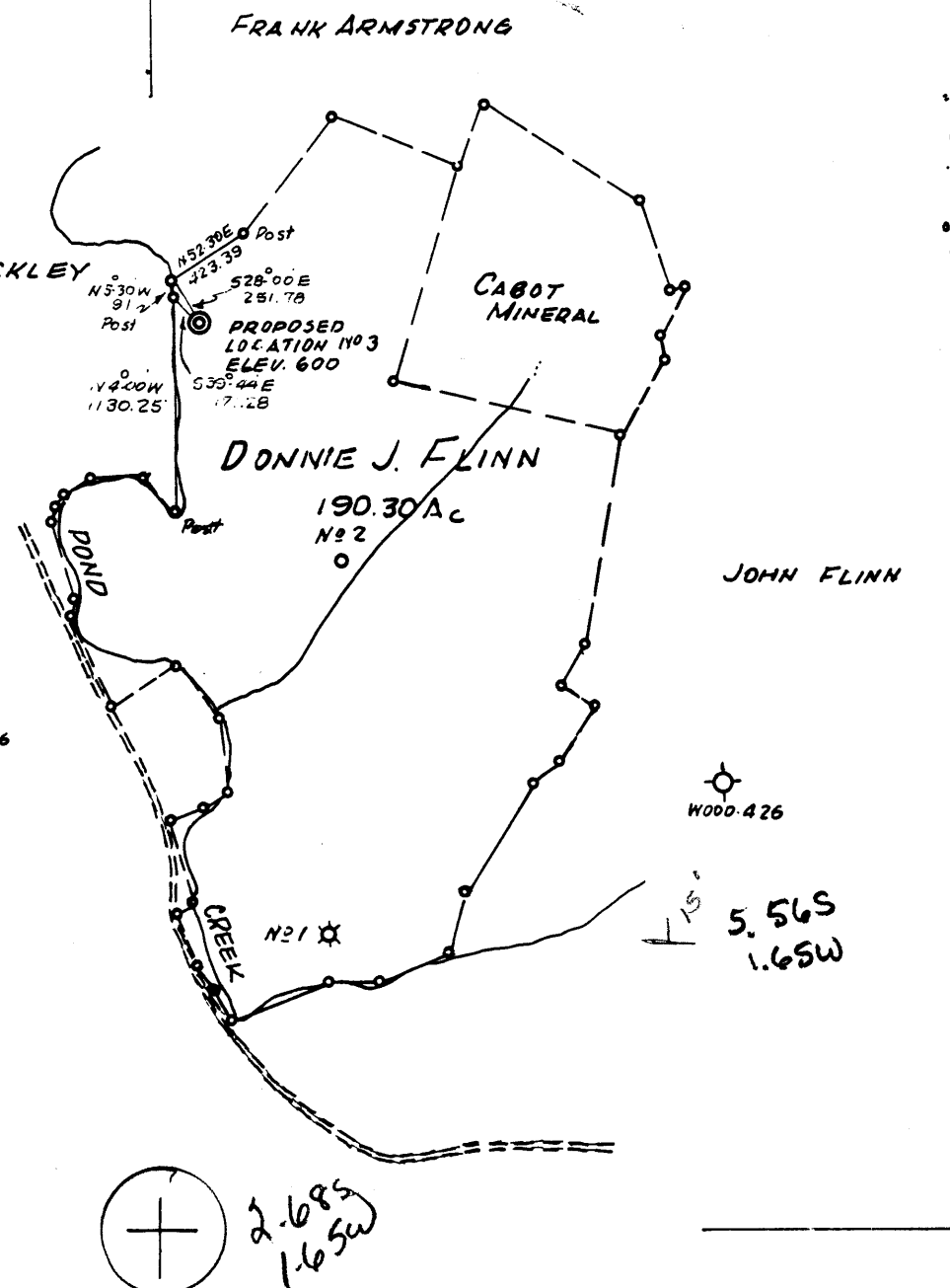


NORTH



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000 FT.  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION Road Intersection at Flinn Elev. 612

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) Frank J. Barber  
 R.P.E. \_\_\_\_\_ L.L.S. 289

PLACE SEAL HERE

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



DATE SEPT. 6, 19 83  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 600 WATER SHED POND CREEK  
 DISTRICT HARRIS COUNTY WOOD  
 QUADRANGLE POND CREEK Bellville 15' WC  
 SURFACE OWNER DONNIE J. FLINN ACREAGE 190.30  
 OIL & GAS ROYALTY OWNER DONNIE J. FLINN LEASE ACREAGE 190.30

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 DEVONIAN SHALE ESTIMATED DEPTH 4500  
 WELL OPERATOR HO WELLS OIL & GAS EXP & DEV. INC. DESIGNATED AGENT SAME  
 ADDRESS P.O. Box 1785 ADDRESS \_\_\_\_\_  
CHARLESTON, W. VA. 25326

OCT 3 1983

FORM IV-6 (8-78) H.T. HALL

COUNTY NAME PERMIT

Handwritten note: 6-6 Neptune (255)



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

Perf: 9 Holes Shale ~~3,560 Feet~~ Huron

Frac: N<sup>2</sup> 1,000,000 cubic feet

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand			0	100	Fresh Water At 60 Feet
Red Rock			100	200	
Shale			200	365	
Sand			365	802	
Shale			802	1,100	
Salt-Sand			1,100	1,225	Salt Water At 1,100 Feet
Red Rock			1,225	1,605	
Sand			1,605	1,795	
Shale			1,795	1,960	
Berea			1,960	1,962	Gas Show
Shale			1,962	<u>3,800</u>	Total Depth Huron

3800  
1962  
1838

(Attach separate sheets as necessary)

H. D. Wells Oil & Gas Exploration & Development, Inc.  
Well Operator

By: H. D. Wells  
Date: 4/5/84

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..."



1) Date: SEPT. 16, 19 83  
 2) Operator's FLINN #3  
 Well No. \_\_\_\_\_  
 3) API Well No. 47-107-1288  
 State West Virginia County Putnam Permit

**RECEIVED**  
 SEP 26 1983

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

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas XX /  
 B (If "Gas", Production XX / Underground storage \_\_\_\_\_ / Shallow XXX)  
 5) LOCATION: Elevation: 600' Watershed: Pond Creek  
 District: Harris County: Wood Quadrangle: Pond Creek  
 6) WELL OPERATOR H D Wells Oil & Gas 7) DESIGNATED AGENT H D Wells III  
 Address P O Box 1785 Address P O Box 1785  
Charleston, WV Charleston, WV  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Samuel N. Hersman Name Clint Hurt & Associates  
 Address Box 66 Address \_\_\_\_\_  
Smithville, WV Elkview, WV  
 10) PROPOSED WELL WORK: Drill XXXX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, Brown Shale  
 12) Estimated depth of completed well, 3800' feet  
 13) Approximate strata depths: Fresh, 60 feet; salt, 1100' feet.  
 14) Approximate coal seam depths: n/a Is coal being mined in the area? Yes \_\_\_\_\_ / No XXXXXX /

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	<u>9 5/8</u>	<u>J55</u>	<u>26</u>	<u>X</u>		<u>300'</u>	<u>300'</u>	<u>Circ. to surface</u>	<u>By Rule 45-05</u>
Coal									Sizes
Intermediate	<u>7</u>			<u>X</u>		<u>2500'</u>	<u>2500'</u>	<u>1000' fill up</u>	
Production	<u>4-1/2</u>			<u>X</u>		<u>3800'</u>	<u>3800'</u>	<u>1000' fill up</u>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
**DRILLING PERMIT**

Permit number 47-107-1288 Date September 30, 1983

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 September 30, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>[Signature]</u>	Agent: <u>OK</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>2438</u>
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[Signature]  
 Administrator, Office of Oil and Gas

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