

0.055
1.53W

15' loc
0.05
1.53W

FRANK ARMSTRONG

LONGITUDE 81° 40' 00"

NORTH

N. C. BUCKLEY

CABOT MINERAL

DONNIE J. FLINN

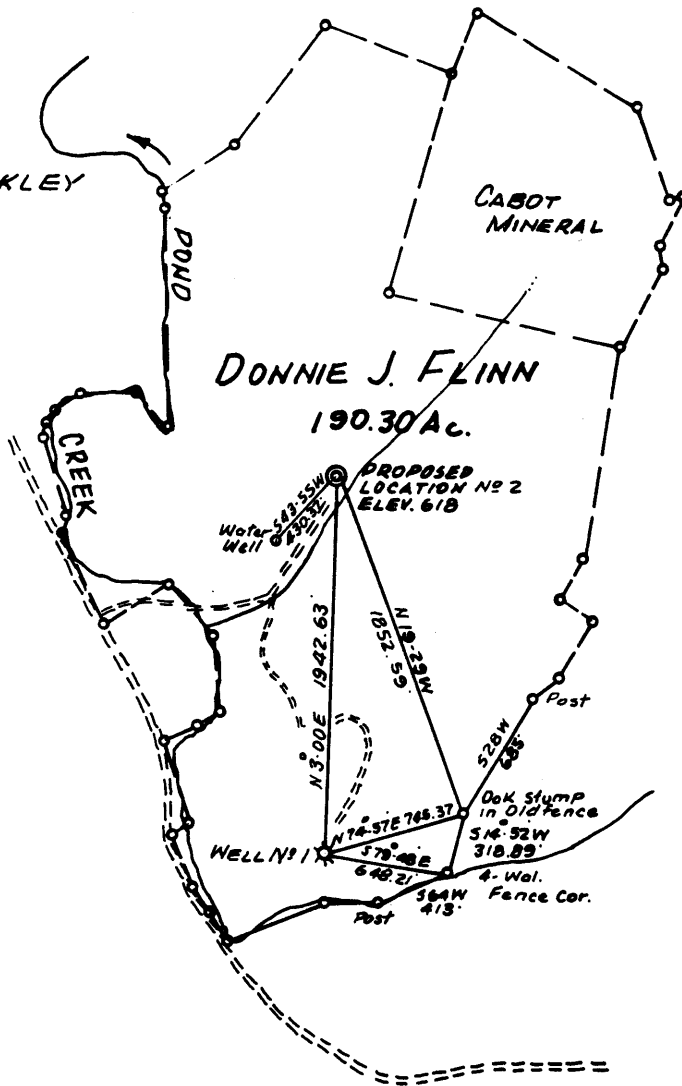
190.30 AC.

JOHN FLINN

H. GALLAND

WOOD 1206

WOOD 426



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. Booker
R.P.E. _____ L.L.S. 289

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE OCT 16, 19 82

OPERATOR'S WELL NO. _____

API WELL NO. _____

47 - 107 - 1287

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 618 WATER SHED POND CREEK
DISTRICT HARRIS COUNTY WOOD
QUADRANGLE POND CREEK Bellville 15' SW
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 H.D. NELLS OIL & GAS EXP. & DEV. INC. DESIGNATED AGENT SAME
ADDRESS P.O. Box 1785 ADDRESS _____
CHARLESTON, W. VA. 25326

OCT 3 1982



IV-35
(Rev 8-81)

Date March 26, 1984
Operator's
Well No. D. J. Flinn #2
Farm Flinn
API No. 47 - 107 - 1287

State of West Virginia
Department of Mines
Oil and Gas Division

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

RECEIVED
APR 13 1984
OIL & GAS DIVISION
DEPT. OF MINES

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

LOCATION: Elevation: 618 Watershed Pond Creek
District: Harris County Wood Quadrangle Pond Creek

COMPANY H. D. Wells Oil & Gas, Inc.
ADDRESS P.O. Box 1785, Charleston, WV 25326
DESIGNATED AGENT same
ADDRESS same
SURFACE OWNER Donald J. Flinn
ADDRESS Rt. 1, Belleville, WV 26133
MINERAL RIGHTS OWNER same
ADDRESS same
OIL AND GAS INSPECTOR FOR THIS WORK Samuel N. Hersman
Box 66 ADDRESS Smithville, WV 26178
PERMIT ISSUED 9/30/83
DRILLING COMMENCED 10/15/83
DRILLING COMPLETED 10/21/83
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		385	Surface
8 5/8			
7		1,881	1,000
5 1/2			
4 1/2		3,713	1,000
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Brown Shale Depth feet
Depth of completed well 3,765 feet Rotary X / Cable Tools
Water strata depth: Fresh 60 feet; Salt 1,100 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Dev. Shale Pay zone depth 3,550 feet
Gas: Initial open flow Shut Mcf/d Oil: Initial open flow None Bbl/d
Final open flow 120,000 Mcf/d Final open flow None Bbl/d
Time of open flow between initial and final tests 8 hours
Static rock pressure 840 psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--)
Second producing formation None 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)

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

Nitrogen Frac 12 Holes 3,550 Feet ? Huron?

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	180	
Shale			180	305	
Sand			305	768	
Shale			768	1,100	
Salt-Sand			1,100	1,225	Salt Water at 1,100 Feet
Red Rock			1,225	1,580	
Sand			1,580	1,784	
Shale			1,784	1,984	
Berea			1,984	1,986	Gas Show
Shale			1,986	<u>3,765</u>	Total Depth Huron

3765
1986
1579

(Attach separate sheets as necessary)

H. D. Wells Oil & Gas, Inc.
Well Operator
By: [Signature]
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 coal, encountered in the drilling of a well."



1) Date: SEP 16, 19 83
 2) Operator's Well No. FLINN #2
 3) API Well No. 47 - 107 - 1287
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas XXX /
 B (If "Gas", Production XXX / Underground storage / Deep / Shallow XXX /)
- 5) LOCATION: Elevation: 618' Watershed: Pond Creek
 District: Harris County: Wood Quadrangle: Pond Creek
- 6) WELL OPERATOR H D Wells Oil & Gas
 Address P O Box 1785
Charleston, WV
- 7) DESIGNATED AGENT H D Wells III
 Address Box 1785
Charleston, WV
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Samuel N. Hersman
 Address Box 66
Smithville, WV 26178
- 9) DRILLING CONTRACTOR:
 Name Clint Hurt & Associates
 Address Elkview, WV
- 10) PROPOSED WELL WORK: Drill XXX / 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 trata depths: Fresh, 60' feet; salt, 1100' feet.
 14) Approximate coal seam depths: n/a Is coal being mined in the area? Yes / No XXX /

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 15.05</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 47-107-1287 Date September 30, 19 83

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>BB</u>	Agent: <u>an</u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u> </u>
<u>2437</u>				

T. H. D.
 Administrator, Office of Oil and Gas