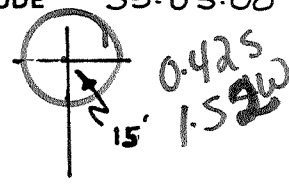


m-1 9/24/82

LATITUDE 39°05'00"



FRANK ARMSTRONG

0.42 S
1.52 W

N.C. BUCKLEY

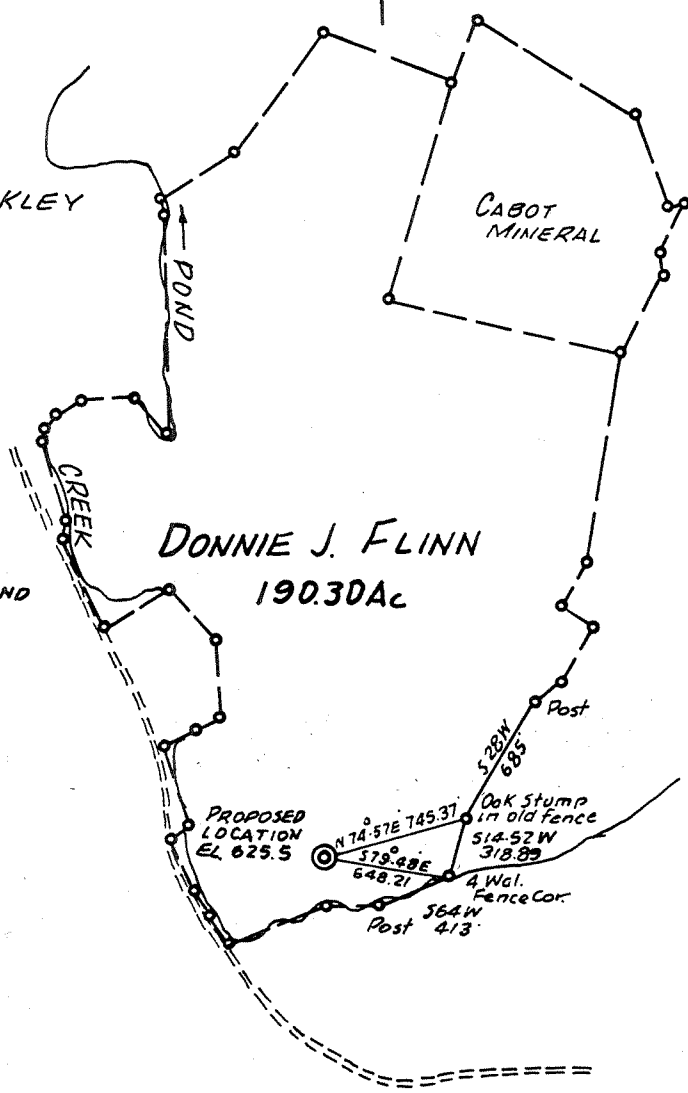
CABOT MINERAL

JOHN FLINN

DONNIE J. FLINN
190.30Ac

HERBERT GALLAND
W00 1206

W00 426



39 04 40
81 41 45

LONGITUDE 81°40'00"

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION Road Intersection 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. Barker
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 _____, 19____
OPERATOR'S WELL NO. one
API WELL NO. _____
47 - 107 - 1225
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 625.5 WATER SHED POND CREEK
DISTRICT HARRIS COUNTY WOOD
QUADRANGLE POND CREEK Bellville 15' SW
SURFACE OWNER DONNIE J. FLINN ACREAGE 190.3
OIL & GAS ROYALTY OWNER DONNE J. FLINN LEASE ACREAGE 190.3
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 DEVONIAN SHALE ESTIMATED DEPTH 4000
WELL OPERATOR H.D. WELLS OIL & GAS EXP. & DEV. INC. DESIGNATED AGENT SAME
ADDRESS P.O. Box 1785 ADDRESS _____
CHARLESTON, W. VA 25326

OCT 14 1982
OCT 14 1982

IV-35
(Rev 8-81)

OCT 29 1982
OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date OCTOBER 25, 1982
Operator's
Well No. D. J. FLINN #1
Farm FLINN
API No. 47-107-1225

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 X / Underground Storage / Deep / Shallow ✓)

LOCATION: Elevation: 625.5' Watershed POND CREEK
District: HARRIS County WOOD Quadrangle POND CREEK

COMPANY H. D. WELLS OIL + GAS EXPLOR + DEV. INC.
ADDRESS P.O. BOX 1785, CHARLESTON
DESIGNATED AGENT H. D. WELLS III
ADDRESS P.O. BOX 1785, CHARLESTON, WV
SURFACE OWNER DONALD J. FLINN
ADDRESS MURRAYSVILLE, WV
MINERAL RIGHTS OWNER SAME
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK SAMUEL HERSMAN ADDRESS SMITHVILLE, WV
PERMIT ISSUED 9-22-82
DRILLING COMMENCED 10-12-82
DRILLING COMPLETED 10-18-82
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	280'	280'	TO SURFACE
8 5/8			
7	2024'	2024'	1000' FILL UP
5 1/2			
4 1/2	4183'	4183'	2000' FILL UP
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION DEVONIAN SHALE Depth feet
Depth of completed well 4237' feet Rotary X / Cable Tools
Water strata depth: Fresh 60' feet; Salt 1000' feet
Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Huron DEVONIAN SHALE Pay zone depth 4237' feet
Gas: Initial open flow 94 Mcf/d Oil: Initial open flow -0- Bbl/d
Final open flow 100 Mcf/d Final open flow -0- Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 750 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 NOV 8 19
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

IV-35
(Rev 8-81)

OCT 29 1982
OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date OCTOBER 25, 1982
Operator's
Well No. D. J. FLINN #1
Farm FLINN
API No. 47-107-1225

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 X / Underground Storage ___ / Deep ___ / Shallow ✓)

LOCATION: Elevation: 625.5' Watershed POND CREEK
District: HARRIS County WOOD Quadrangle POND CREEK

COMPANY H. D. WELLS OIL + GAS EXPLOR + DEV. INC.
ADDRESS P.O. BOX 1785, CHARLESTON
DESIGNATED AGENT H. D. WELLS III
ADDRESS P.O. BOX 1785, CHARLESTON, WV
SURFACE OWNER DONALD J. FLINN
ADDRESS MURRAYSVILLE, WV
MINERAL RIGHTS OWNER SAME
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK SAMUEL HERSMAN ADDRESS SMITHVILLE, WV
PERMIT ISSUED 9-22-82
DRILLING COMMENCED 10-12-82
DRILLING COMPLETED 10-18-82
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	280'	280'	TO SURFACE
8 5/8			
7	2024'	2024'	1000' FILL UP
5 1/2			
4 1/2	4183'	4183'	2000' FILL UP
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION DEVONIAN SHALE Depth _____ feet
Depth of completed well 4237' feet Rotary X / Cable Tools _____
Water strata depth: Fresh 60' feet; Salt 1000' feet
Coal seam depths: NONE Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Huron DEVONIAN SHALE Pay zone depth 4237' feet
Gas: Initial open flow 94 Mcf/d Oil: Initial open flow -0- Bbl/d
Final open flow 100 Mcf/d Final open flow -0- Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 750 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 NOV 8 19
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

FORM IV-35
(REVERSE)

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

21 HOLES PERFORATED
2,000,000 STD FT OF NITROGEN
1,000 GALLONS OF ACID

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	75	
RED ROCK			75	175	
SHALE			175	294	
SAND			294	774	
SHALE			774	1036	
RED ROCK			1036	1065	
SHALE			1065	1146	
SAND			1146	1500	
SHALE			1500	1800	
SAND			1800	1957	
BEREA			1957	1963	
SHALE Huron			1963	4237' T.D.	
		(Angled?)			

4237
1963
2274

est. tops
UD - 1963
LH 3104
J 3625
a 3763
Rh 3977
Soyuz. 4152
MARC 4182
Onon. 4192

(Attach separate sheets as necessary)

H. S. WELLS OIL + GAS EXPLOR + DEV.
Well Operator

By: [Signature]
Date: OCT. 25, 1982

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."

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Clint Hurt & Associates, Inc.
Address Elkview, WV

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 4250' feet Rotary xxx / Cable tools _____ /
Approximate water strata depths: Fresh, 60- feet; salt, 1000' feet.
Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No xx /

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		Kinds	Sizes
Conductor	9-5/8			X		280'	280'	To surface		
Fresh Water										
Coal										
Intermediate	7"			X		1950'	1950'	1000' fill up		
Production	4-1/2"			X		4250'	4250'	125 sacks RFC		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 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,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 5-27-83

BY [Signature]

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.

WAIVER

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 _____