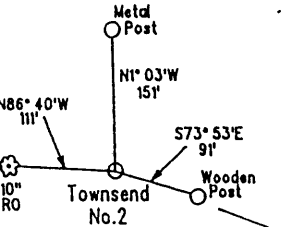


7,900'
 LATITUDE 39° 07' 30"
 LONGITUDE 81° 40' 00"
 12,250'

Location References



Property Line Calls

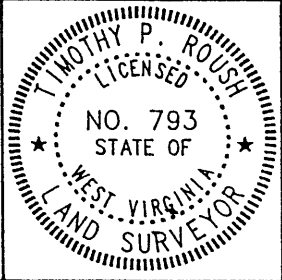
A	S76° 30' W	540'
B	S47° 30' W	13.5 P.
C	S45° 00' W	19 P.
D	S51° 00' W	29 P.
E	S51° 30' W	28.5 P.
F	S22° 30' W	37 P.

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

FILE NO. 105-04
 MAP NO. 2W N S23E W60
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Flinn No. 3
 (47-107-1288) = 600'

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) *Timothy P. Roush*
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA
 DIVISION OF ENERGY
 OIL AND GAS SECTION



DATE January 10, 19 97
 FARM I.L. Townsend NO. 2
 API WELL NO. 47-107-01628

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 648' WATERSHED Pond Creek
 DISTRICT Harris COUNTY Wood
 QUADRANGLE Pond Creek 7.5'
 SURFACE OWNER I.L. Townsend ACREAGE 212.20 Ac.
 OIL & GAS ROYALTY OWNER I.L. Townsend LEASE ACREAGE 212.20 Ac.
 LEASE NO. _____
 PROPOSED WORK: DRILL 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 3,650'
 WELL OPERATOR H.D. Wells DESIGNATED AGENT H.D. Wells
 ADDRESS Oil & Gas Exploration ADDRESS P.O. Box 1785
 P.O. Box 1785, Chas. WVa. Charleston, WVa.

6-6 255
 MAR 01 2000

WOOD 1628

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Reviewed _____

Well Operator's Report of Well Work

Farm name: TOWNSEND Operator Well No.: 2

LOCATION: Elevation: 648 Quadrangle: POND CREEK 7.5'

District: HARRIS County: WOOD
Latitude: 7900 Feet South of 39 Deg. 07 Min. 30 Sec.
Longitude 12250 Feet West of 81 Deg. 40 Min. 00 Sec.

Company: H D WELLS OIL & GAS EXP & DEV INC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P.O. BOX 1785</u> <u>CHARLESTON, WV 25326</u>	<u>9 5/8</u>	<u>308</u>	<u>308</u>	<u>110 SKS. CIRC TO SURFACE</u>
Agent: <u>H. D. WELLS, III</u>	<u>7</u>	<u>1909</u>	<u>1909</u>	<u>175 SKS. CIRC TO SURFACE</u>
Inspector: <u>LARRY PARISH</u>				
Date Permit Issued: <u>03/28/00</u>	<u>4 1/2</u>	<u>3739</u>	<u>3739</u>	<u>125 SKS. 1000' FILL UP</u>
Date Well Work Commenced: <u>04/14/00</u>				
Date Well Work Completed: <u>05/15/00</u>	<u>2 3/8</u>	<u>3607</u>	<u>3607</u>	
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Depth (feet): <u>3739</u>				
Fresh Water Depth (ft.): <u>111</u>				
Salt Water Depth (ft.): <u>812</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): _____				

RECEIVED
Office of Oil & Gas
Permitting
AUG 30 2000
WV Division of
Environmental Protection

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth (ft) 3255-3656
Gas: Initial open flow 30 MCF/d Oil: Initial open flow -- Bbl/d
Final open flow 175 MCF/d Final open flow -- Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 465 psig (surface pressure) after 72 Hours

Second producing formation ----- Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELL BORE.

Signed: _____
By: H. D. WELLS, III
Date: 08/28/00

SEP 01 2000

WOOD 1628

FRAC JOB: 2,326,000 SCF N²
1000 GAL. HCL - 15%

3255-3264	5 HOLES
3289-2763	21 HOLES
3630-3636	6 HOLES
3656-3474	12 HOLES

SAND	0	114	FRESH WATER @ 111'
SHALE	114	131	
SAND	131	212	
SHALE	212	887	SALT WATER @ 812'
SAND & SHALE	887	949	
SHALE	949	1352	
SAND	1352	1489	
LIME	1489	1534	
SAND (INJUN)	1534	1996	
SHALE	1996	2000	
SAND (BEREA)	2000	2003	
SHALE	2003	3739	TOTAL DEPTH