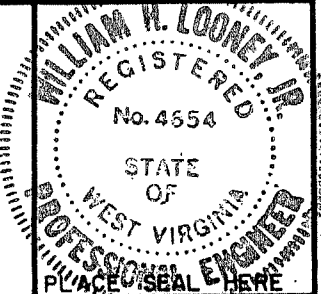


BENCHMARK 1584
 LATITUDE 37°14'13"
 LONGITUDE 81°38'20"

FILE NO. 01137A
 DRAWING NO. 2
 SCALE 1"=600'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 1584

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) William H. Looney Jr.
 R. P. E. 4654 L. L. S. _____



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

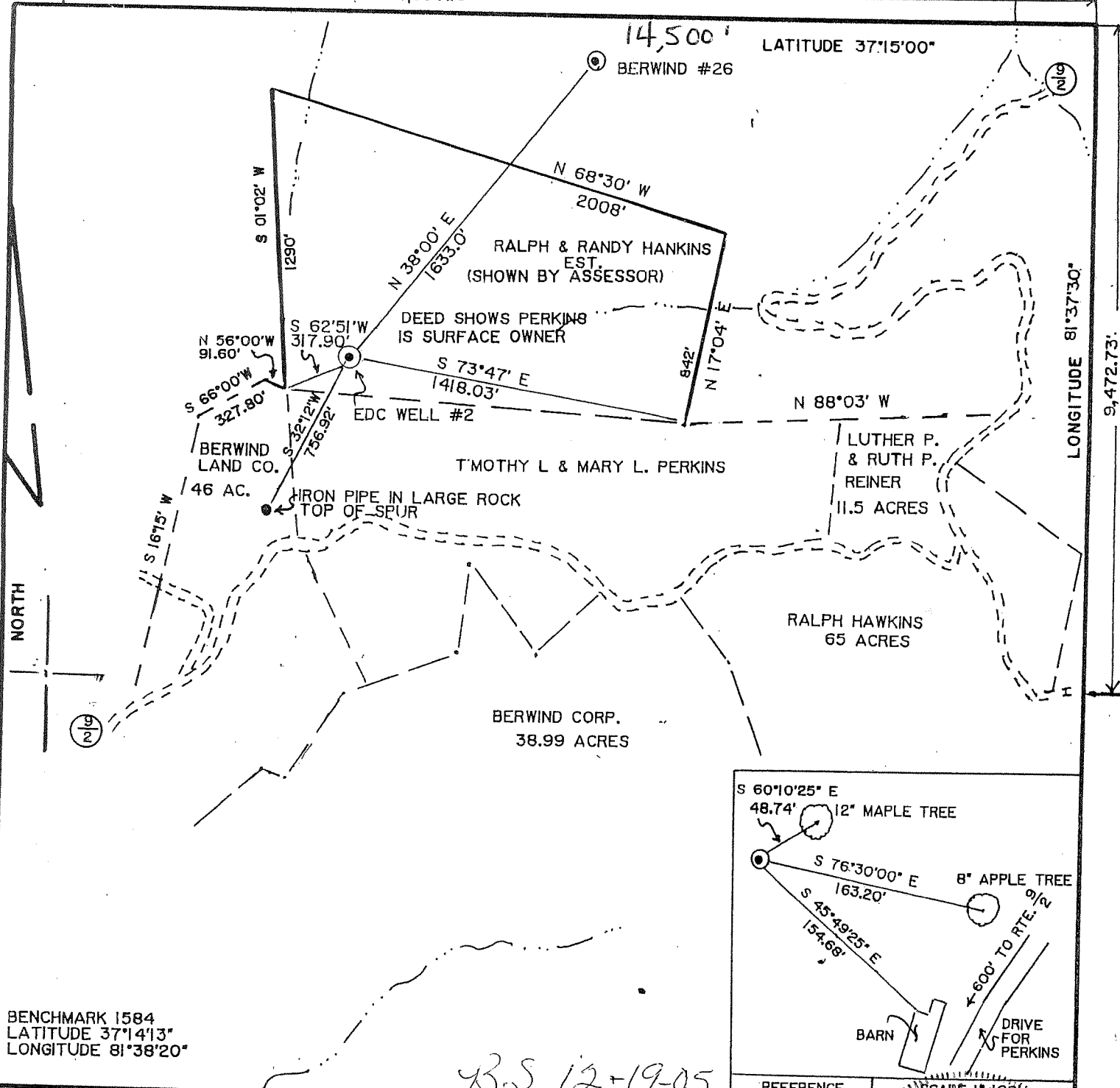


DATE MAY 15, 2006
 OPERATOR'S WELL NO. BANDY NO. 2
 API WELL NO. 47 - 047 - 1569 F
 STATE COUNTY PERMIT

Division of Environmental Protection
 Office of Oil & Gas

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)
 LOCATION: ELEVATION 2475' WATER SHED TRIBUTARY TO DRY FORK
 DISTRICT BIG CREEK COUNTY McDOWELL
 QUADRANGLE AMONATE 7.5
 SURFACE OWNER PERKINS, TIMOTHY AND MARY ACREAGE 50.3
 OIL & GAS ROYALTY OWNER D.E. AND W.D. EVANS LEASE ACREAGE 243±
 LEASE NO. _____
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG _____
 TARGET FC. MATION RAVENCLIFFE ESTIMATED DEPTH 1873'
 WELL OPERATOR ENERGY, DEV. CORP. DESIGNATED AGENT SANDRA K. BELCHER JUN 16 2006
 ADDRESS 534 VIRGINIA AVENUE ADDRESS RTE. 3 BOX 425
BLUEFIELD, VA. 24605 BLUEFIELD, WV 24701

McDow 1569 F

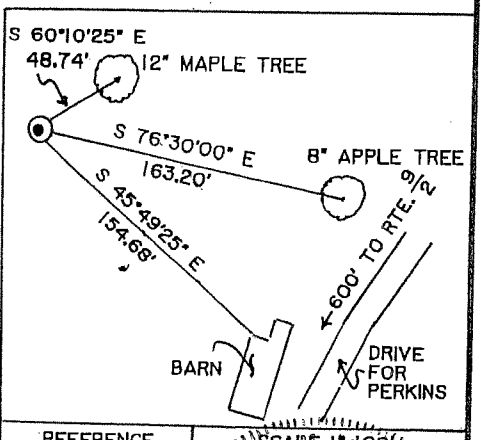


BENCHMARK 1584
 LATITUDE 37°14'13"
 LONGITUDE 81°38'20"

B.S 12-19-05

FILE NO. 01137A
 DRAWING NO. 2
 SCALE 1"=600'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 1584

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) Tom. H. Lowery Jr.
 R. P. E. 4654 L. L. S.



SCALE 1"=100'
 REGISTERED PROFESSIONAL SURVEYOR
 No. 4554
 STATE OF WEST VIRGINIA
 PLACE SEAL HERE

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



DATE DECEMBER 8, 2005
 OPERATOR'S WELL NO. BANDY NO. 2
 API WELL NO. 47
 STATE 047 COUNTY 1569 PERMIT F

Division of Environmental Protection
 Office of Oil & Gas

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2475' WATER SHED TRIBUTARY TO DRY FORK
 DISTRICT BIG CREEK COUNTY McDOWELL

QUADRANGLE AMONATE 7.5
 SURFACE OWNER PERKINS, TIMOTHY AND MARY ACREAGE 50.3
 OIL & GAS ROYALTY OWNER D.E. AND W.D. EVANS LEASE ACREAGE 243±

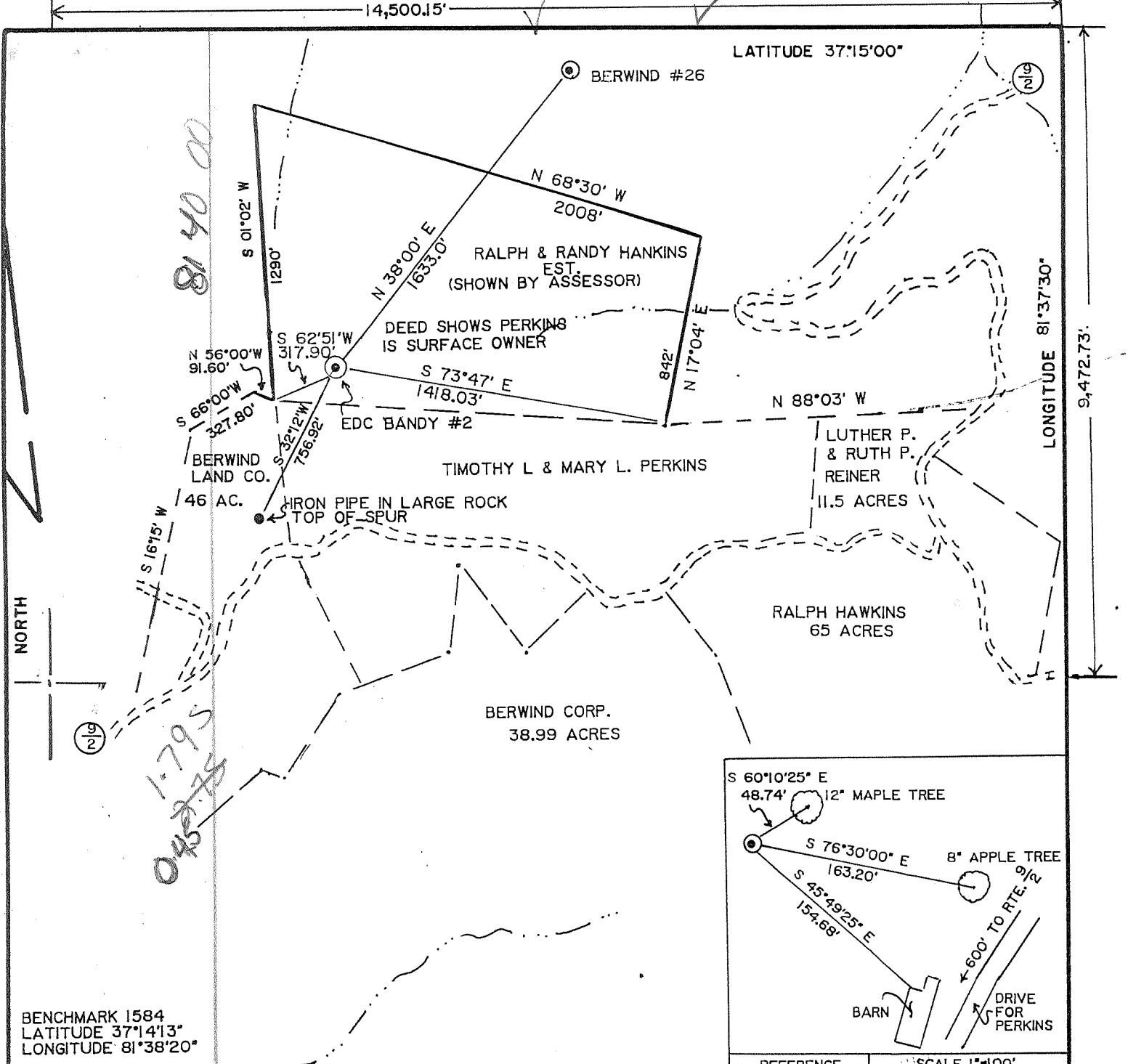
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION BIG LIME ESTIMATED DEPTH 3950'
 WELL OPERATOR ENERGY DEV. CORP. DESIGNATED AGENT SANDRA K. BELCHER DEC 30 2005
 ADDRESS 534 VIRGINIA AVENUE ADDRESS RTE. 3 BOX 425
BLUEFIELD, VA. 24605 BLUEFIELD, VA. 24605

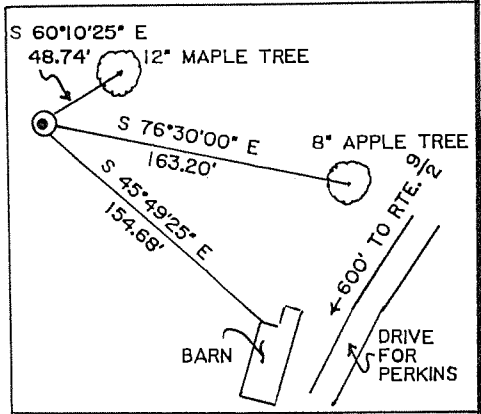
06.13.18 EQUITIGNOT 9,472.73'

M-DOW 1569 F

CHARLESTON BLUEPRINT 092941



BENCHMARK 1584
 LATITUDE 37°14'13"
 LONGITUDE 81°38'20"



REFERENCE SCALE 1"=100'

FILE NO. 01137A
 DRAWING NO. 2
 SCALE 1"=600'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 1584

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) Tom H. Loney Jr.
 R. P. E. 4654 L. L. S. _____

PLACE SEAL HERE

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



DATE _____, 20____
 OPERATOR'S WELL NO. _____
 API WELL NO. _____
47 - 47 - 01569
 STATE COUNTY PERMIT

Division of Environmental Protection
 Office of Oil & Gas

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)
 LOCATION: ELEVATION 2475' WATER SHED TRIBUTARY TO DRY FORK
 DISTRICT BIG CREEK COUNTY McDOWELL
 QUADRANGLE AMONATE 7.5
 SURFACE OWNER PERKINS, TIMOTHY AND MARY ACREAGE 50.3
 OIL & GAS ROYALTY OWNER D.E. AND W.D. EVANS LEASE ACREAGE 243±
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BEREA, GORDON ESTIMATED DEPTH 5040'
 WELL OPERATOR ENERGY. DEV. CORP. DESIGNATED AGENT SANDRA K. BELCHER
 ADDRESS 534 VIRGINIA AVENUE ADDRESS RTE. 3 BOX 425
BLUEFIELD, VA. 24605 BLUEFIELD, WV 24701

McDOW 1569

6-6 267

OCT 5 2001

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Well Operator's Report of Well Work

Revised AB

Farm Name: Perkins, Timothy & Mary
Location: Elevation: 2475'
District: Big Creek
Latitude: 9,473 Feet South of
Longitude: 14,500 Feet West of

Operator Well No. EDC-Bandy #2
Quadrangle: Amonate 7.5'
County: McDowell
37 Degrees 15 Minutes 00 Seconds
81 Degrees 37 Minutes 30 Seconds

Company: Energy Development Corporation
P. O. Box 1049
Bluefield, VA 24605

Agent: Sandra K. Belcher
Inspector: Ofie Helmick
Permit Issued: 10/4/2001
Well work Commenced: 11/27/2001
Well work Completed: 12/4/2001
Verbal Plugging Permission granted on: N/A
Rotary x Cable Tool Rig
Total Depth (feet): LTD-5343' DTD-5300'
Fresh water depths (ft): 435'
Salt water depths (ft): none reported
Is coal being mined in area: Yes
Coal Depths: 207' to 1010', see back for depths

Casing & Tubing Size	Used in Drilling	Left in well	Cement Fill Up Cu. Ft.
12 1/4"	21'		
9 5/8"	n/r		
7"	1461.65'	1461.65'	315
4 1/2"		5315.70'	570

RECEIVED
Office of Oil & Gas
Permitting
MAR 25 2002
WV Department of
Environmental Protection

OPEN FLOW DATA:

Producing formation(s): Berea & Gordon Pay zone depth (ft) See back
Gas: Initial open flow trace MCF/D Oil: Initial open flow Bbl/d
Final open flow 2,750 MCF/D Final open flow Bbl/d
Time of open flow between initial and final tests: 1 Hours
Static rock Pressure 600 psig (surface pressure) after 24 Hours

Second producing formation(s): Pay zone depth (ft) See back
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 WELLBORE.

FOR: Energy Development Corp

BY: [Signature]
DATE: 3/22/02

MAR 29 2002

M - Don 10 21

1-10-2002

Run Gamma Ray/CCL, Cement Bond log, cement top inside 7" at 1495'

1-10-2002

Swab well dry to TD inside 4 1/2" casing at 5315'

2-1-2002

1st Stage: Gordon (5084-5097') 14 holes

75 Quality Foam frac

45,290 lbs. 20/40 sand, 500 gal. 15% HCl, 172 Bbl. TWTR, 712.1 Mscf N₂

BKDN 2170 psi, ATP 2275 psi, AIR 20 BPM, ISIP 2367 psi, 3 min SI 2280 psi

Set Large Mouth Frac Plug at 5009'

2nd Stage: Berea (4998-5005') 15 holes

75 Quality Foam frac

44,776 lbs. 20/40 sand, 500 gal. 15% HCl, 275 Bbl. TWTR, 645.5 Mscf N₂

BKDN 3102 psi, ATP 2992 psi, AIR 20 BPM, ISIP 2280 psi, 3 min SI 2101 psi

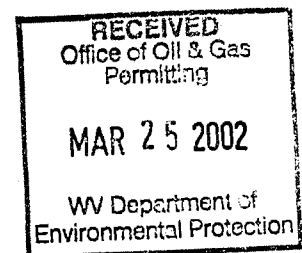
Formation Depths taken from Driller's Log Book

Subbase	0-5'
Overburden	5-10'
Sandstone	10'-

Formation Depths taken from Gamma Ray Log

Sandstone	-187'
Shale	187-207'
Coal	207-209'
Sand & Shale	209-223'
Coal	223-224'
Sand & Shale	224-251'
Coal	251-252'
Shale	252-255'
Coal	255-256'
Sand & Shale	256-271'
Coal	271-272'
Sand & Shale	272-295'
Coal	295-296'
Sand & Shale	296-316'
Sand	316-365'
Shale	365-394'
Sand	394-457'
Shale	457-507'
Coal	507-508'
Sand & Shale	508-534'
Coal	534-536'
Sand & Shale	536-567'

Wet at 435', 1 1/2" stream



Coal	567-568'
Sand & Shale	568-587'
Coal	587-588'
Sand & Shale	588-655'
Coal	655-656'
Sand & Shale	656-675'
Sand	675-782'
Coal	782-785'
Sand	785-844'
Shale	844-914'
Coal	914-916'
Sand & Shale	916-1007'
Coal	1007-1010'
Sand & Shale	1010-1036'
Sand	1036-1093'
Shale	1093-1116'
Sand	1116-1211'
Sand & Shale	1211-1507'
Shale	1507-1790'
Ravencliff	1790-1922'
Shale	1922-2039'
Avis Lime	2039-2089'
Sand & Shale	2089-2561'
Upper Maxton	2561-2584'
Sand & Shale	2584-2812'
Middle Maxton	2812-2840'
Sand & Shale	2840-3213'
Shale	3213-3339'
Little Lime	3339-3436'
Shale	3436-3522'
Stray Lime	3522-3559'
Shale	3559-3644'
Big Lime	3644-4364'
Shale	4364-4420'
Weir Interval	4420-4632'
Shale	4632-4952'
Sunbury	4952-4971'
Berea	4971-5017'
Shale	5017-5060'
Gordon	5060-5113'
Shale	5113'-
Total Depth, (LTD)	5343'

Gas check at 2146' "no show"

Gas check at 3010' "trace"

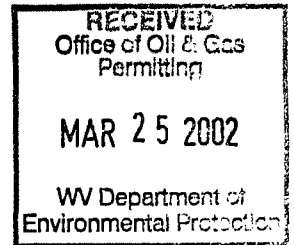
Gas check at 3415' "trace"

Gas check at 3940' "trace"

Gas check at 4504' "trace"

Gas check at 5222' "trace"

Gas check at TD - "trace"



Well logged by Allegheny Wireline Services
(incl'd Hi-Res Coal log 1050' to surface thru 7" csg.)

MAR 29 2002

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