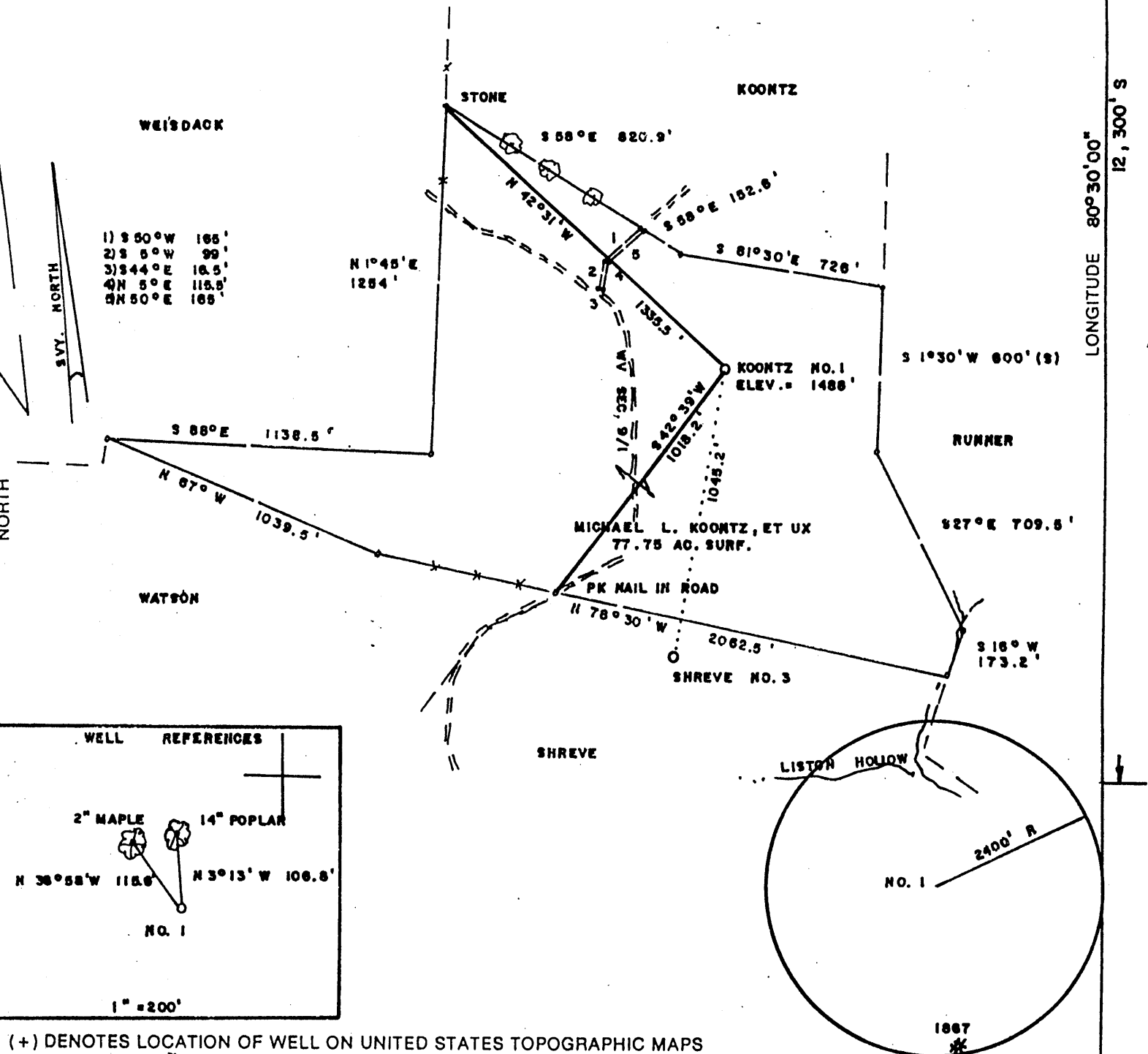


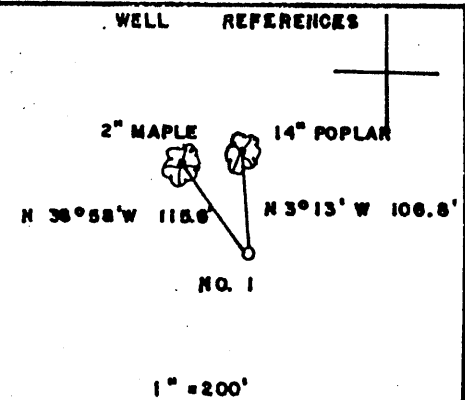
KOONTZ LEASE 77.75 AC.

11,600' W
 LATITUDE 39°42'30"



LONGITUDE 80°05'08"

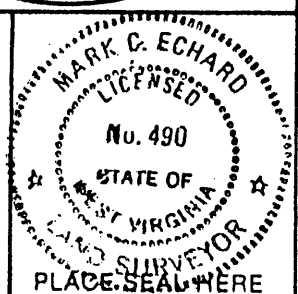
WET
 COUNTY NAME
 PERMIT 2016



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS
 SOUTH OF LEASE ELEV. = 1419'

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 ENERGY.
 (SIGNED) Mark C. Echard
 R.P.E. _____ L.L.S. 490



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE NOVEMBER 6, 2003
 OPERATOR'S WELL NO. KOONTZ NO. 1
 API WELL NO. 47-103-02016
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION STORAGE ___ DEEP ___ SHALLOW

LOCATION: ELEVATION 1488' WATER SHED SUGAR RUN
 DISTRICT CLAY COUNTY WETZEL
 QUADRANGLE LITTLETON 7.5'

SURFACE OWNER MICHAEL L. KOONTZ, ET UX ACREAGE 77.75
 OIL & GAS ROYALTY OWNER MICHAEL L. KOONTZ, ET UX LEASE ACREAGE 77.75
 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 SPEECHLEY ESTIMATED DEPTH 3900'
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ALMA, WV 26320 ADDRESS P.O. BOX 99 ALMA, WV 26320

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

mt

Well Operator's Report of Well Work

Farm name: Koontz

Operator Well No.: Koontz #1

LOCATION: Elevation: 1,488

Quadrangle: Littleton 7.5'

District: Clay

County: Wetzel

Latitude: 12,300 Feet South of

39 Deg. 42 Min. 30 Sec.

Longitude: 11,800 Feet West of

80 Deg. 30 Min. 00 Sec.

Company:

Drilling Appalachian Corporation	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address:				
P.O. Box 99 Alma WV 26320	9 5/8	230	215	85 sks
Agent: Kenneth Mason				
Inspector: Mike Underwood	6 5/8	1795	1775	100 sks
Date Permit Issued: 11/18/2003				
Date Well Work Commenced: 12/03/03	4 1/2	3810	3670	170 sks
Date Well Work Completed: 12/10/03				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Depth (feet): 3810				
Fresh Water Depth (ft.): 1,850'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3334-3582

Gas: Initial open show MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow 120 MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure 275# psig (surface pressure) after 48 Hours

Second producing formation Big Injun Pay zone depth (ft) 2630-2634

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

* = commingled zones

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

Signed: Drilling Appalachian Corporation
By: Kenneth R. Mason

RECEIVED
Office of Oil & Gas
Office of Chief
MAR 26 2004
WV Department of
Environmental Protection

WET 2016

MAY 21 2004

Koontz #1
12-16-03

Stage #1	perfs	sand	avg rate	isip
Gordon 4 th Big Injun	2628-3584 15 holes	285 sks	28 bpm	2381#

Drillers Log

Sh	0	15
Sd/Sh	15	325
RR	325	450
Sd/Sh	450	1025
Sd	1025	1155
Sd/Sh	1155	1525
Sd	1525	1545
Sd/Sh	1545	2030
Sd	2030	2455
Lime	2455	2550
Sd	2550	2750
Sd/Sh	2750	3330
Sd	3330	3370
Sd/Sh	3370	3490
Sd	3490	3505
Sd/Sh	3505	3810
Td	3810	

Electric Log Tops

Big Lime	2458
Berea	2888
Gordon	3372