

10,275'

LATITUDE 39° 22' 30"

LONGITUDE 80° 50' 00"

NORTH

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. EL. 782'
NORTH EAST OF WELL

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) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE FEBRUARY 7, 1987
 OPERATOR'S WELL NO. HADLEY #1
 API WELL NO. 47-095-0510-DDP
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 994' WATERSHED BIG RUN
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE WEST UNION T.5' +151C

SURFACE OWNER CLARENCE HADLEY ACREAGE 191
 OIL & GAS ROYALTY OWNER CLARENCE HADLEY LEASE ACREAGE 194
 LEASE NO. _____

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

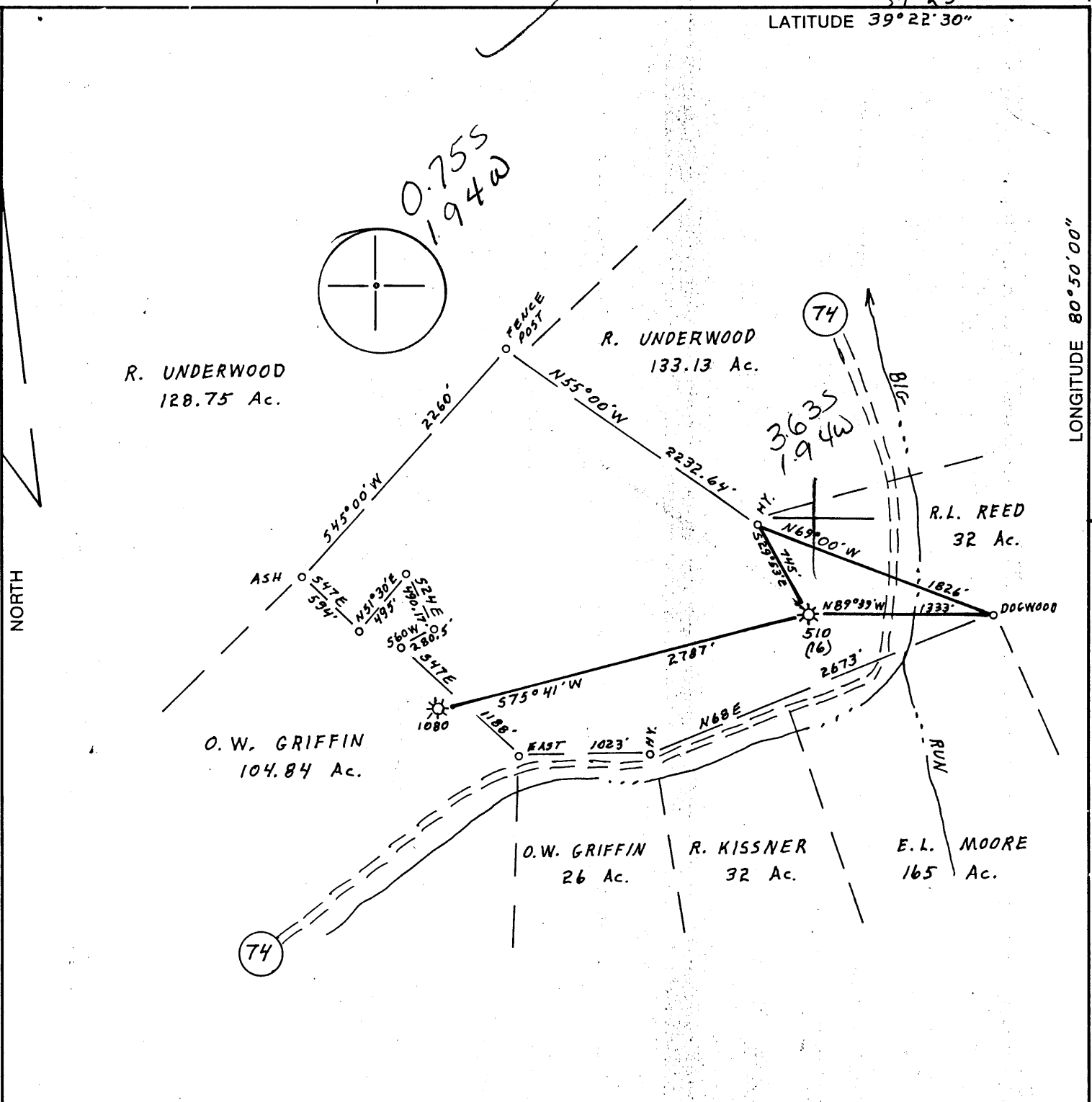
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 5500
 WELL OPERATOR APPALACHIAN ENERGY DEV., INC. DESIGNATED AGENT GEORGE WILLIAMS
 ADDRESS P.O. BOX 902 ADDRESS P.O. BOX 902
BELINGTON, W.Va. 26250 BELINGTON, W.Va. 26250

JUL 20 1987

FORM IV-6 (8-78)
 H.T. HALL

COUNTY NAME
 PERMIT

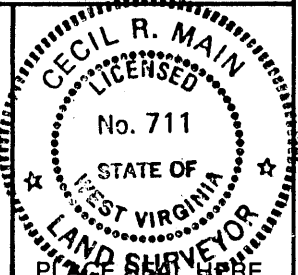
owwo 6-0 wilbur (92)



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. EL. 782'
NORTHEAST OF WELL

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) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE FEBRUARY 7, 1987
 OPERATOR'S WELL NO. HADLEY #1
 API WELL NO. 47-095-0510-DD
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 994' WATER SHED BIG RUN
 DISTRICT CENTERVILLE 1 COUNTY TYLER
 QUADRANGLE WEST UNION 7.5' 671 133 CS

SURFACE OWNER CLARENCE HADLEY ACREAGE 191
 OIL & GAS ROYALTY OWNER CLARENCE HADLEY LEASE ACREAGE 194
 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) _____

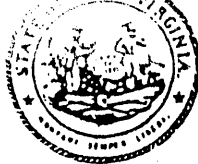
PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION BENSON ESTIMATED DEPTH 5500
 WELL OPERATOR APPALACHIAN ENERGY DEV., INC. DESIGNATED AGENT GEORGE WILLIAMS
 ADDRESS P.O. BOX 902 ADDRESS P.O. BOX 902
BELINGTON, W. Va. 26250 397 BELINGTON, W. Va. 26250

FORM IV-6 (8-78)
 H.T. HALL

COUNTY NAME
 PERMIT

Current



Date Aug 12, 1987
Operator's
Well No. 47-095-0510-1010
Farm Hobby #1
API No. 47-095-0510-1010

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

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

RECEIVED
APR 20 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

Elevation: 994' Watershed Big Run
District: Crestwell County Tyler Quadrangle West Union 7.5

COMPANY Appalachian Energy West, Inc.
ADDRESS PO Box 902 Logan, WV.
EMPLOYED AGENT George Williams
ADDRESS RT 2 Box 499 Srafton, WV.
PROPERTY OWNER Clarence Hobby
ADDRESS 181 Millbourne WV 26149.
LESSOR'S OWNER Clarence Hobby
ADDRESS 181 Millbourne WV 26149
SUPERVISOR FOR THIS WORK Robert
ADDRESS Millbourne, WV.
DATE March 2, 1987
DRILLING COMMENCED 3/3/87
DRILLING COMPLETED 3/3/87

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	290	290	
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	1114	1114	
3			
2	2037	2037	
Liners used			

GEOLOGICAL TARGET FORMATION Bronx Depth 5500 feet
Depth of completed well 2024 feet Rotary / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: 635 ft. Is coal being mined in the area?

WELL FLOW DATA

Producing formation _____ Pay zone depth _____ feet
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 measurement) after _____ 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
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

APR 22 1988

INTERVALS, PERFORATED INTERVALS, FRACURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Drilled to 1810 ft. There was a packer in the hole that we could not get out. Drilled hole in side of casing at that depth. There is a 6x2 in packer in the hole that we could not retrieve.

old casing to 1877'

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Pathburn Coal.			635	636	
Murphy sand.			885	930	
1st gas sand			1200	1245	
1st salt sand			1280	1325	
2nd salt sand			1440	1485	
3rd salt sand			1600	1665	
Big Injun			1915	2020 TD 2024	
<p>We abandoned the hole because of a 6x2 in. packer that we could not retrieve.</p>					

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Appalachian Energy Serv. Co.
Well Operator

By: Murat Reddick

Date: Aug 12, 1987

Notes: 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."

203
2240

APR 22 1988

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FEB 24 1987



1) Date: February 9, 1987
 2) Operator's Hadley # 1
 Well No. _____
 3) API Well No. 47 State 095 County 0510-DD Permit

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

- 4) WELL TYPE: A Oil _____ / Gas XX /
 B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
 5) LOCATION: Elevation: 994' / 347' Watershed: Big Run
 District: Centerville / County: Tyler 095 / Quadrangle: Pennsboro 7.5 538
 6) WELL OPERATOR Appalachian Energy Development, Inc. CODE: 2325 7) DESIGNATED AGENT George R. Williams
 Address Route 2, Box 499 Address Route 2, Box 499
Grafton, WV 26354 Grafton, WV 26354
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther Name _____
 Address General Delivery Address _____
Middlebourne, WV 26149
- 10) PROPOSED WELL WORK: Drill _____ / Drill deeper XXX / Redrill _____ / Stimulate XXX /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
 12) Estimated depth of completed well, 5500' feet
 13) Approximate trata depths: Fresh, NA feet; salt, NA feet.
 14) Approximate coal seam depths: _____ 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	10"					290'	290'	EXISTING	Kinds
Fresh water	8 5/8"					1114'	1114'		Sizes
Coal									Depths set
Intermediate	6 5/8"					1877'	1877'		Perforations:
Production	4 1/2"					5,000 ft.	5000		Top Bottom
Tubing									
Liners									

Well originally drilled c. 1914 - INSPECTOR MUST CHECK EXISTING CASING PRIOR TO COMMENCEMENT OF DRILLING DEEPER. IF SQUEE CEMENTING OR ADDITIONAL CASING IS NEEDED, INSPECTOR WILL REQUIRE & REPORT ACTION TAKEN.

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-0510-DD Date March 2, 1987

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 March 2, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>442</u>	WPCP: <u>MW</u>	S&E: <u>MW</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator

John L. Johnston
 Director, Division of Oil and Gas
By Margaret J. Hassel

9748