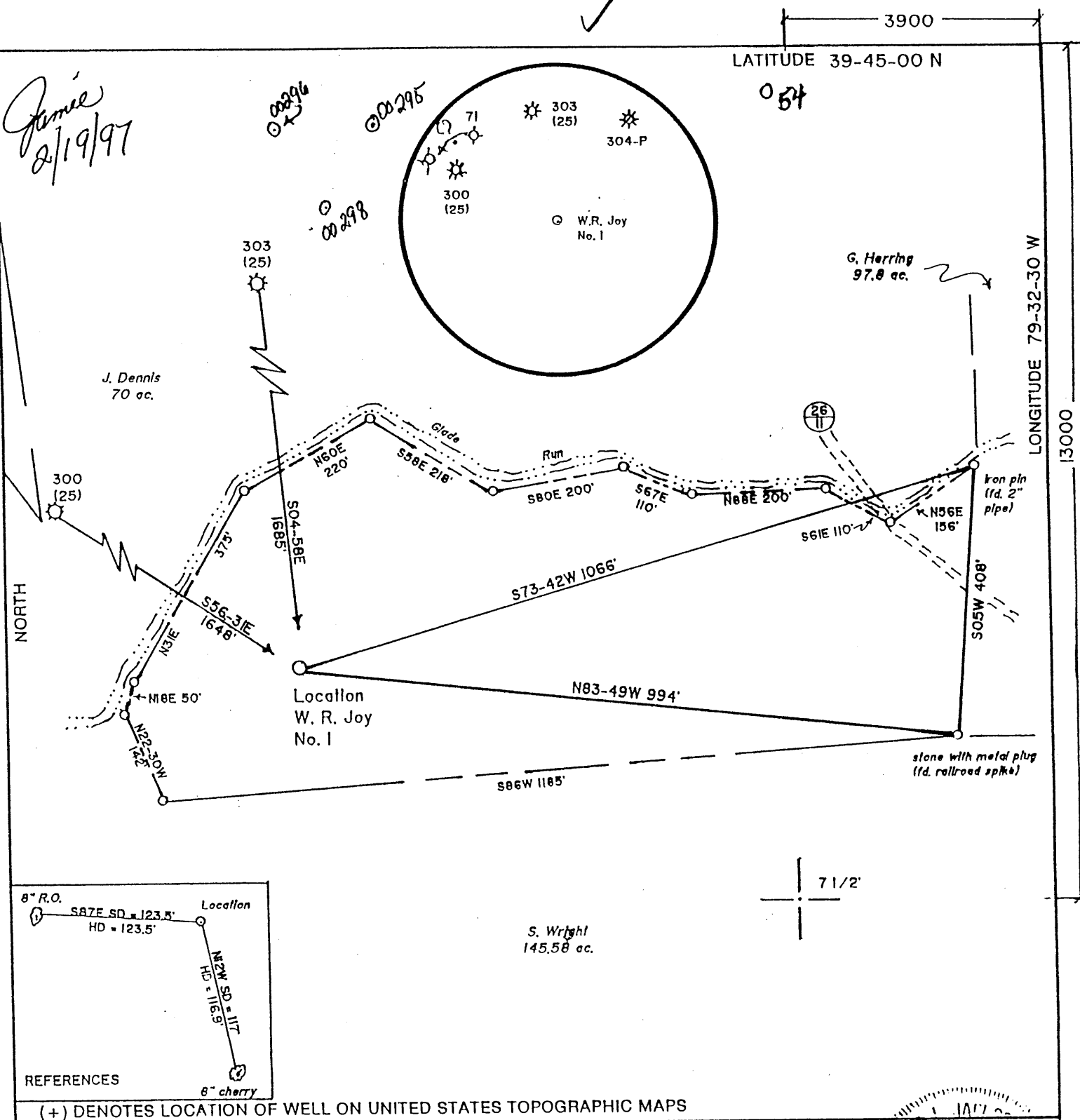


Janice
2/19/97



FILE NO. _____
DRAWING NO. 1
SCALE 1" = 200'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION Road junction 750'
NE of Location; elev. 2149'

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) David L Jackson
R.P.E. _____ L.L.S. 708

PLACE SEAL HERE

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

DATE January 22, 19 97
OPERATOR'S WELL NO. W.R. Joy No. 1
API WELL NO. 47-077-00308

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

LOCATION: ELEVATION 2093 WATERSHED Glade Run
DISTRICT Grant COUNTY Preston
QUADRANGLE Brandonville 7 1/2'

SURFACE OWNER William R. Joy ACREAGE 11.91
OIL & GAS ROYALTY OWNER William R. Joy LEASE ACREAGE 11.91
LEASE NO. 555900

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Benson ESTIMATED DEPTH 5000' 5500'

WELL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Eric R. Stearns
ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

MAR 22 1999

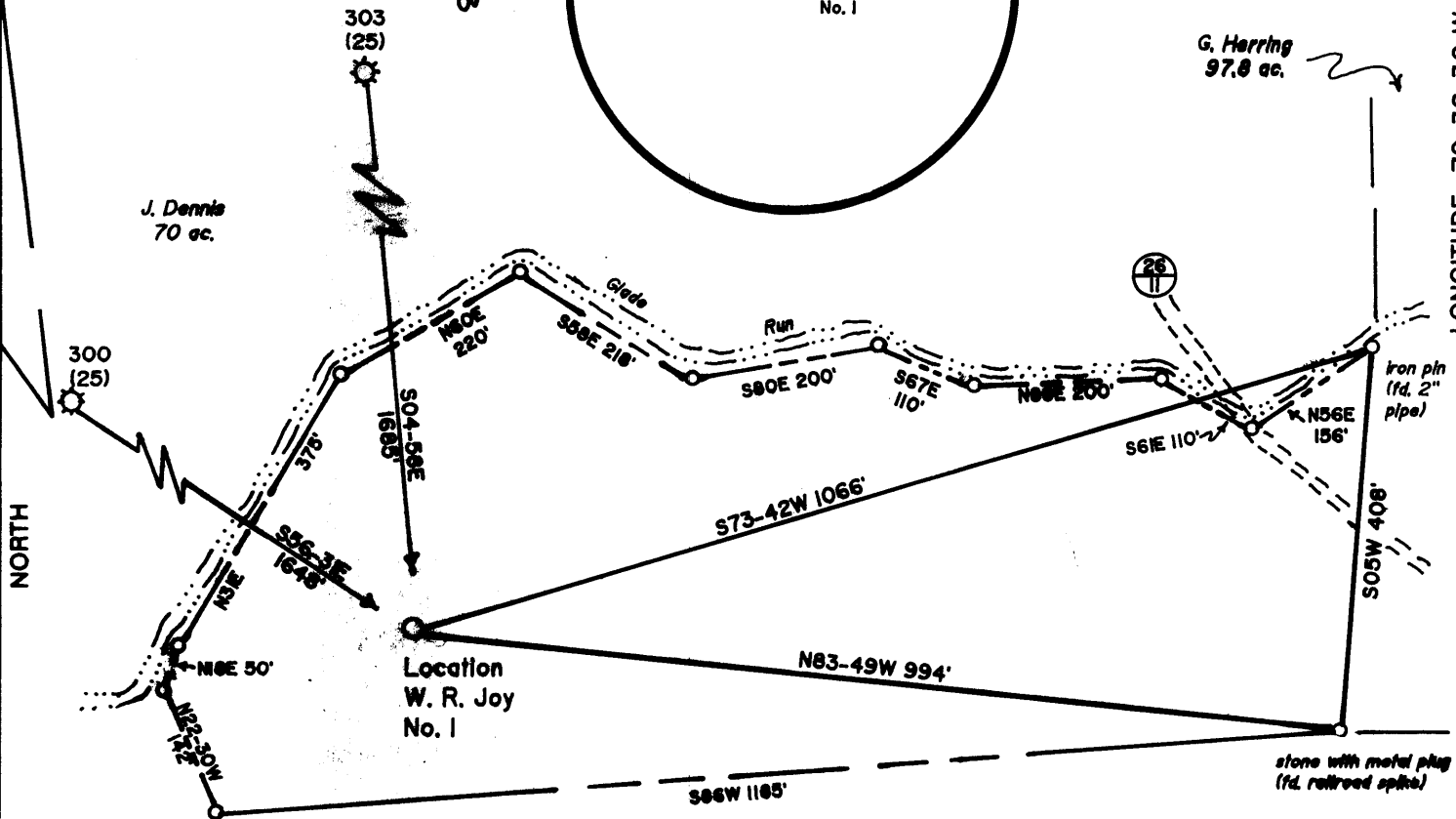
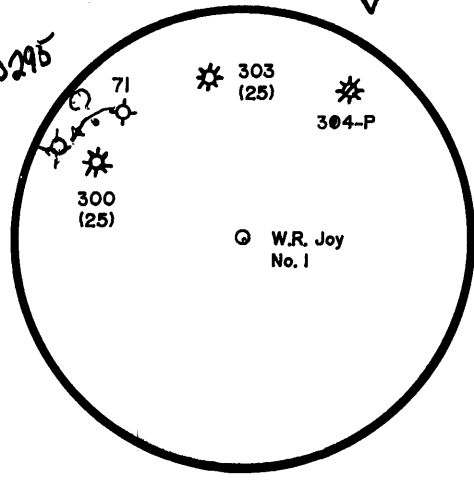
FORM WW-6

COUNTY NAME PRE
PERMIT 0308 CANC.

LATITUDE 39-45-00 N

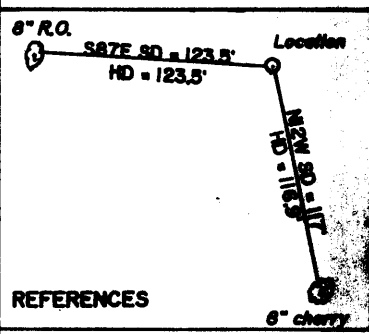
3900

Jamie
2/19/97



NORTH

LONGITUDE 79-32-30 W



REFERENCES

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

FILE NO. _____
DRAWING NO. 1
SCALE 1" = 200'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION Road junction 750'
NE of Location: elev. 2149'

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(SIGNED) David L Jackson
R.P.E. _____ L.L.S. 708

DAVID L JACKSON
LICENSED SURVEYOR
NO. 1111
STATE OF WEST VIRGINIA
PLACE SEAL HERE

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



DATE January 22, 19 97
OPERATOR'S WELL NO. W.R. Joy No. 1
API WELL NO.

47-077-00308
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 2093 WATER SHED Glade Run
DISTRICT Grant COUNTY Preston
QUADRANGLE Brandonville 7 1/2'

SURFACE OWNER William R. Joy ACREAGE 11.91
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PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) elf sands

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Benson ESTIMATED DEPTH 5000' 5500'
WELL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Eric R. Stearns
ADDRESS P.O. Box 26, Bridgeport, WV 26330 ADDRESS P.O. Box 26, Bridgeport, WV 26330

FEB 21 1997

FORM WV-6

COUNTY NAME

PERMIT

07-4230

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: PETROLEUM DEVELOPMENT CORPORATION ⁶⁹⁷ 38200 ① 264
- Operator's Well Number: W. R. Joy #1 3) Elevation: 2093'
- Well type: (a) Oil___/ or GasXX/ *Issued 02/18/97*
 (b) If Gas: ProductionXX/ Underground Storage___/ *Expires 02/18/99*
 Deep___/ ShallowXX/
- Proposed Target Formation(s): Elk Sands 436
- Proposed Total Depth: 5500' feet
- 7) Approximate fresh water strata depths: 35'; 140'; 325'; 370'
- 8) Approximate salt water depths: None Reported
- 9) Approximate coal seam depths: None Reported
- 10) Does land contain coal seams tributary to active mine? Yes___/ NoXX/
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

RECEIVED
Environmental Protection
Office of Oil & Gas
FEB 07 1997
Permitting

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT per ft.	FOOTAGE For drilling	INTERVALS	CEMENT Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"	H-40	42#	30'			
Fresh Water							
Coal							
Intermediate	8 5/8"	H-40	20/23#	575'		575'	38CSR18-11.3 38CSR18-11.2.2
Production	4 1/2"	J-55	10.5#	5500'		5500'	38CSR18-11.1 450 sks
Tubing							
Liners							

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Office of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent
 (Type)

1)
2)
3)
FEB 27 1997
Permitting
Office of Oil & Gas

Date: January 27, 1997
Operator's well number
W. R. Joy #1
API Well No: 47 - 77 - 00308
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS**

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
- (a) Name William R. and Mary Kay Joy Name _____
Address 20 Lexington Ave. Address _____
Uniontown, PA 15401
- (b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name _____
Address _____
- (c) Name _____ Name _____
Address _____ Address _____
- 6) Inspector Phillip Tracy (c) Coal Lessee with Declaration
Address Rt. 2, Box 37-A Name _____
Montrose, WV 26283 Address _____
Telephone (304)- 636-8798

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas **OR**

XX Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

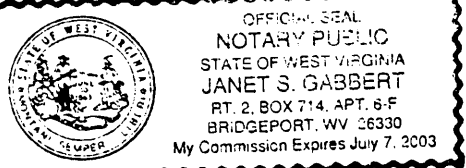
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator PETROLEUM DEVELOPMENT CORPORATION
By: Eric R. Stearns
Its: V. P., Exploration & Development
Address P O Box 26
Bridgeport, WV 26330
Telephone 304-842-6256

Subscribed and sworn before me this 27th day of JANUARY, 1997

Janet S. Gabbert Notary Public
My commission expires July 7, 2003