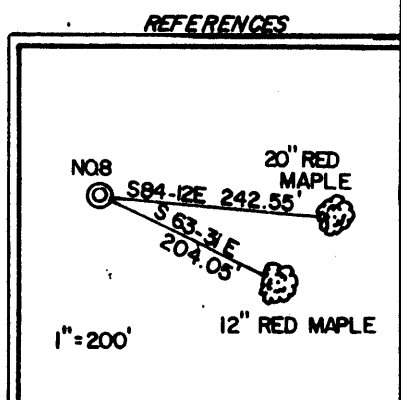
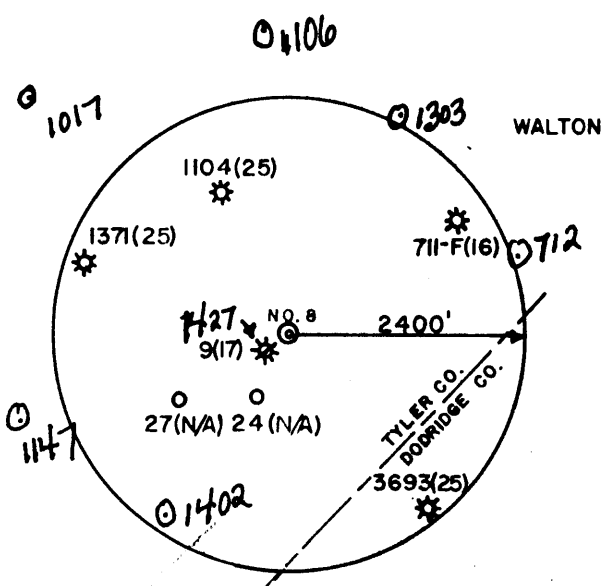
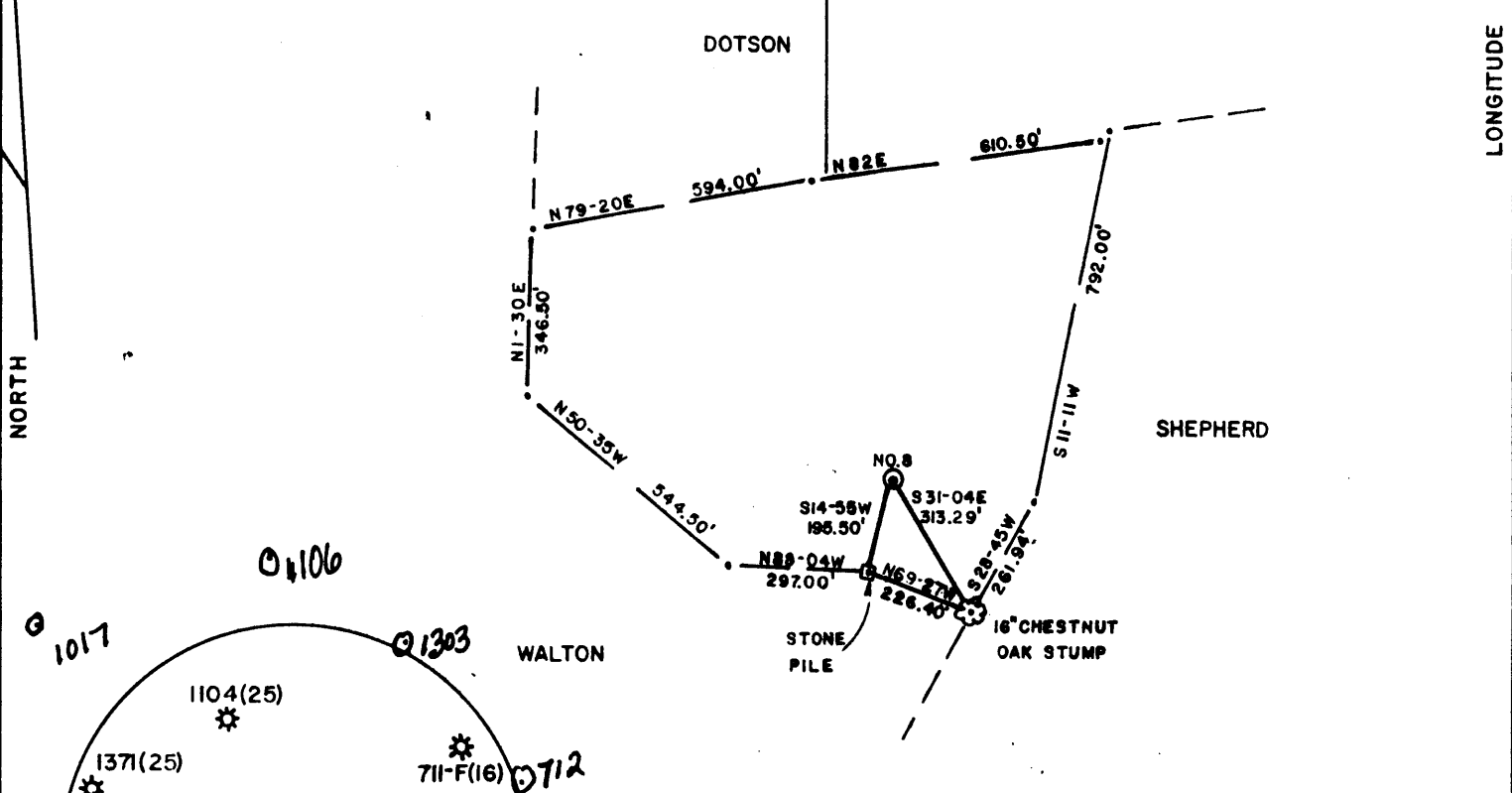


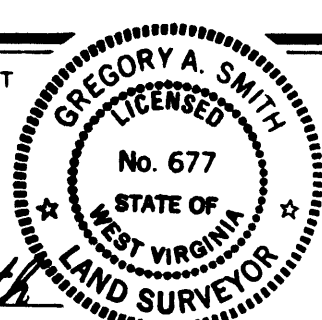
Jamie 11/1/90
CAIN HEIRS LEASE
278 ACRES ±
TOTAL

WELL NO. 8

LONGITUDE 80°05'08"



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE AUGUST 14, 1990
 OPERATORS WELL NO. CAIN HEIRS NO. 8
 API WELL NO. 47 - 095 - 1442
 STATE COUNTY PERMIT

L.L.S. Gregory A. Smith
 677

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2057 (32-39)
 PROVEN SOURCE OF ELEVATION SPOT ELEVATION ON ROAD 807 SCALE 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1070' WATERSHED SHORT RUN
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER DENISE LEA & MARY LOU WALTON ACREAGE 18
 ROYALTY OWNER WILLIAM M. CAIN, et. al. LEASE ACREAGE 18 OF 278
 PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BENSON
 ESTIMATED DEPTH 5300'

WELL OPERATOR QUAKER STATE CORP. DESIGNATED AGENT FRANK ROTUNDA
 ADDRESS 1226 PUTNAM-HOWE DR. BELPRE, OHIO 45714 ADDRESS PO. BOX 823 PARKERSBURG, WV 26102

COUNTY NAME TYLER PERMIT 1442

575

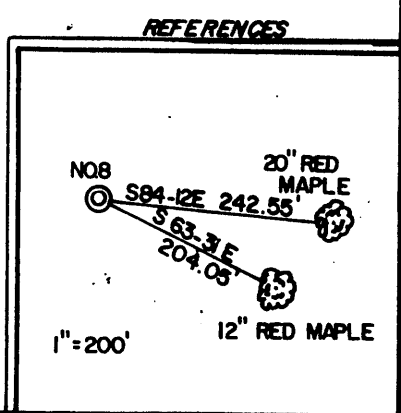
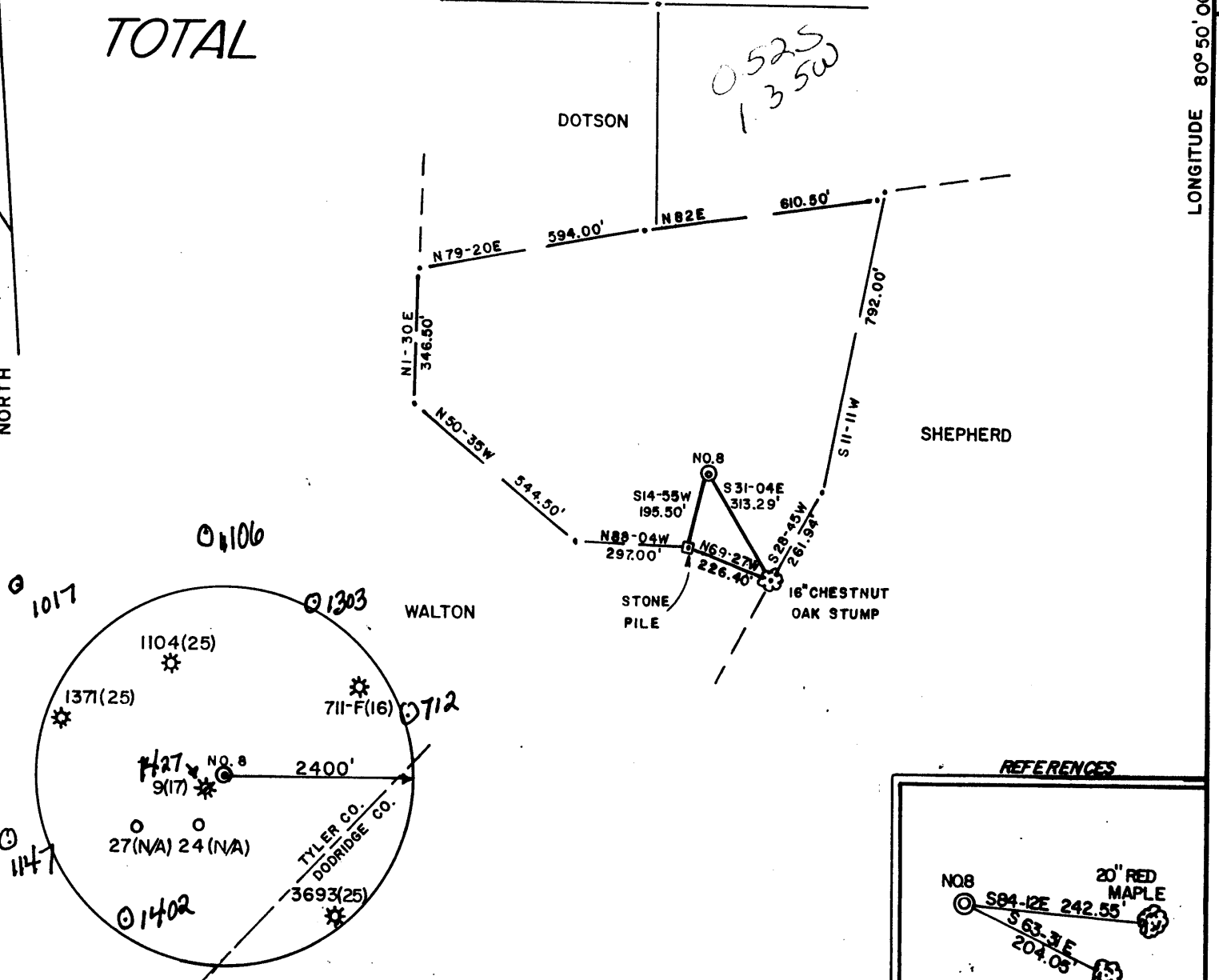
Jamie 11/1/90
CAIN HEIRS LEASE
278 ACRES ±
TOTAL

LATITUDE 39°20'00"

WELL NO. 8

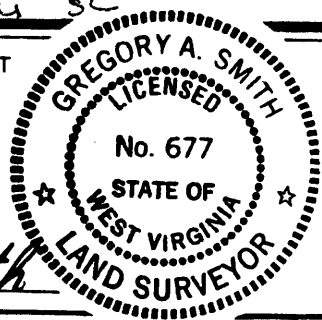
LONGITUDE 80°50'00"

NORTH



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.

L.L.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE AUGUST 14, 1990
 OPERATORS WELL NO. CAIN HEIRS NO. 8
 API WELL NO. 47 - 095 - 1442
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2057. (32-39)
 PROVEN SOURCE OF ELEVATION SPOT ELEVATION ON ROAD 807' SCALE 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1070' WATERSHED SHORT RUN
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER DENISE LEA & MARY LOU WALTON ACREAGE 18
 ROYALTY OWNER WILLIAM M. CAIN, et. al. LEASE ACREAGE 18 OF 278
 PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BENSON
 ESTIMATED DEPTH 5300'

WELL OPERATOR QUAKER STATE CORP. 721 DESIGNATED AGENT FRANK ROTUNDA
 ADDRESS 1226 PUTNAM-HOWE DR. BELPRE, OHIO 45714 ADDRESS PO. BOX 823 PARKERSBURG, WV 26102

095 1442

Issued 11/08/90

Expires 11/08/92

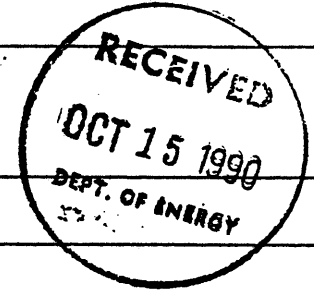
Page 3 of 11

FORM WW-2B

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

721

- 1) Well Operator: Quaker State Corporation 40400 (1) 670
- 2) Operator's Well Number: Cain Heirs #8 3) Elevation: 1070'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Benson / Riley ⁴³⁵
- 6) Proposed Total Depth: 5045' feet
- 7) Approximate fresh water strata depths: 410'
- 8) Approximate salt water depths: 1300'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and stimulate new well
- 12)



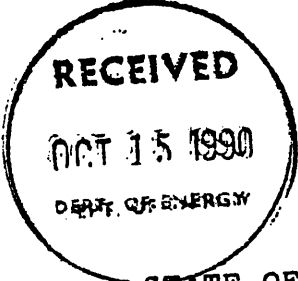
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	9 5/8"	H 40	29#	460'	460'	C.T.S.
Coal						38CSR18 11.3 38CSR18 11.2
Intermediate	7"	H 40	20#	1610'	1610'	C.T.S.
Production	4 1/2"	J 55	10.5#	5045'	5045'	1200' or as required by 38CSR18 11.1
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

20184
31
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
Dist WW-9 WW-2R Bond Agent



1) Date: September 4, 1990
2) Operator's well number Cain Heirs #8
3) API Well No: 47 - 095 - 1442
State - County - Permit

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

4) Surface Owner(s) to be served:
(a) Name Denise Lea Walton & Mary Lou Walton
Address Rt.2, Box 391 Clarksburg, WV 26301
(b) Name Joseph B. & Mary C. Tisinger
Address 6206 Mori Street McLean, VA 22101
(c) Name _____
Address _____

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name N/A
Address _____
Name _____
Address _____

6) Inspector Glen P. Robinson
Address Rt. 1, #6 Mt. Pleasant Estate Mineral Wells, WV 26150
Telephone (304)-489-9162

(c) Coal Lessee with Declaration
Name N/A
Address _____

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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B 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)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B 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 Quaker State Corporation
By: Frank Rotunda
Its: Designated Agent
Address P.O. Box 823 Parkersburg, WV 26102
Telephone (614) 423-9543

Subscribed and sworn before me this 9th day of October, 1990

Tina J. Russell
My commission expires _____

Tina J. Russell
Notary Public, State Of Ohio
My Commission Expires June 23, 1995