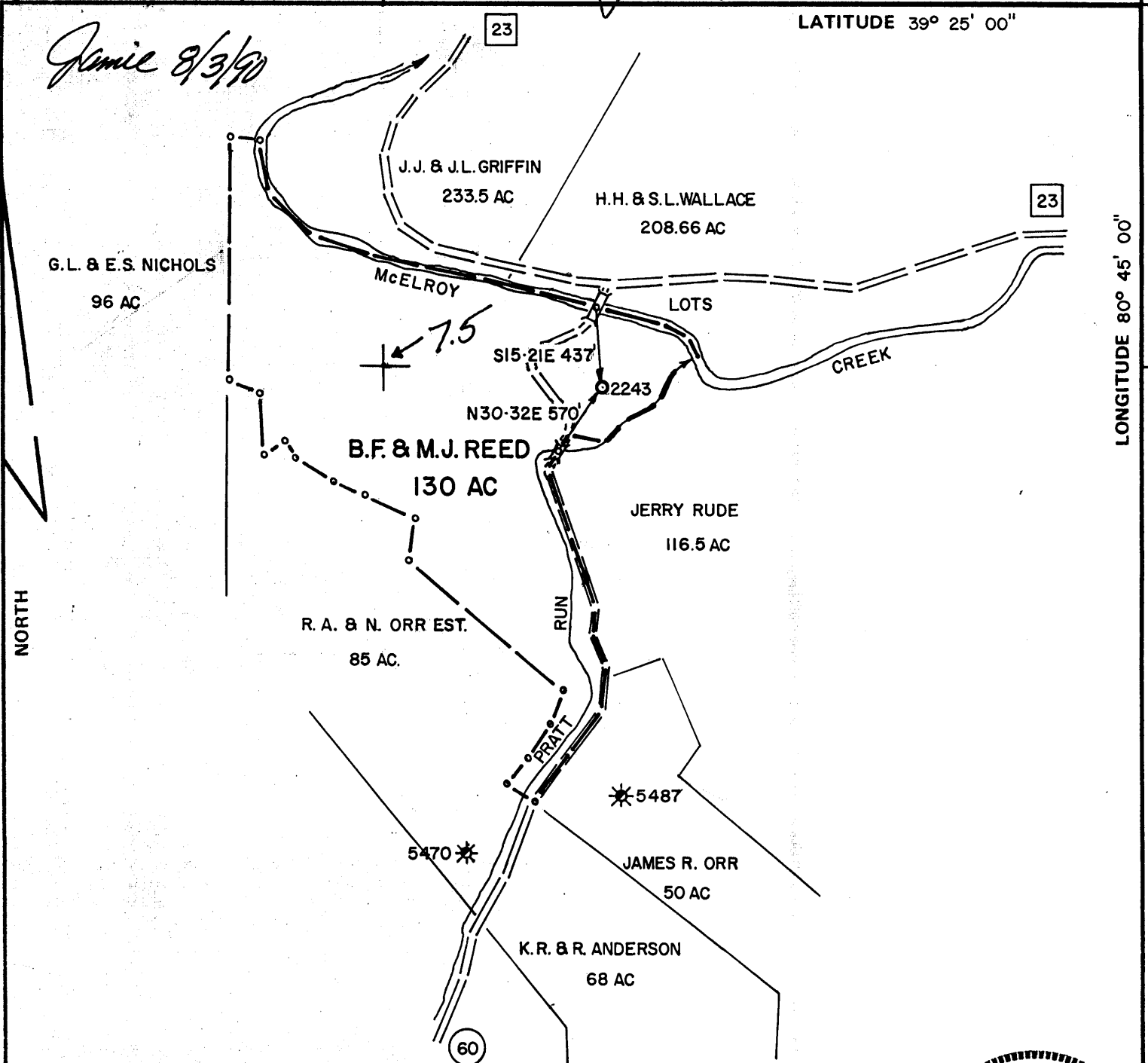


LATITUDE 39° 25' 00"

10450

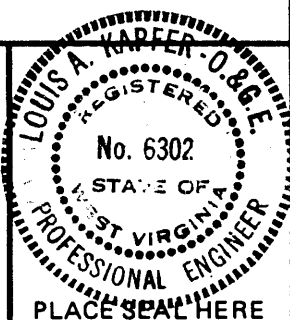
Jemie 8/3/90



LONGITUDE 80° 45' 00"

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ON BR.
731'

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) Louis A. Kaffer
 R.P.E. 6302 L.L.S. _____



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



DATE 7/30/87, 19____
 OPERATOR'S WELL NO. 2243
 API WELL NO. 47 - 095 - 0507-Frac
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Re-work
~~Frac. Permitted~~

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 750' WATER SHED McELROY CREEK
 DISTRICT 75. McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY/WEST UNION NE 30-44

SURFACE OWNER ROBERT A. & NORA ORR EST. ACREAGE 127.86
 OIL & GAS ROYALTY OWNER B.F. & M.J. REED LEASE ACREAGE 130
 LEASE NO. 4807

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

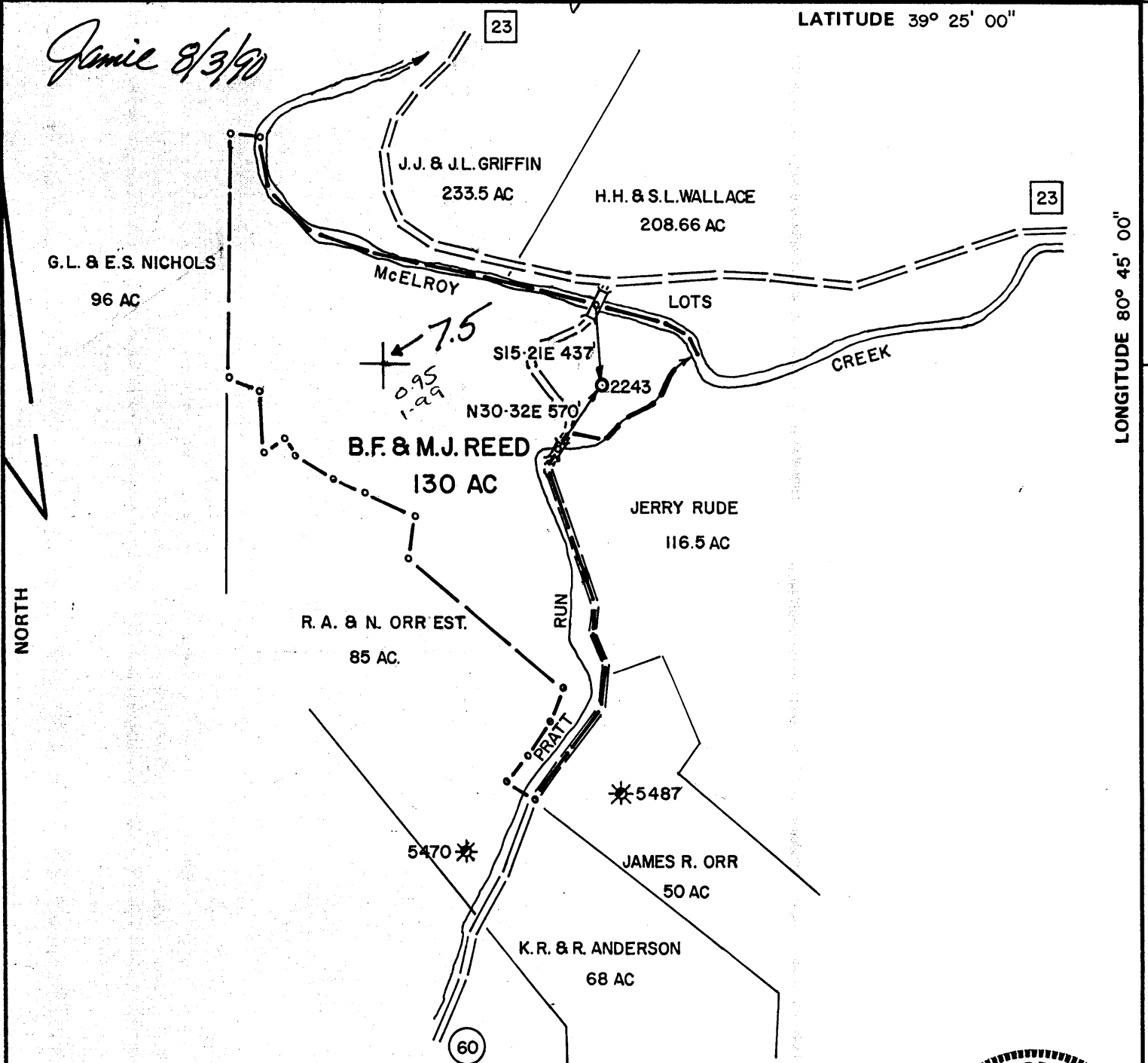
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Big Injun ESTIMATED DEPTH 1906'
 WELL OPERATOR EQUITABLE GAS COMPANY DESIGNATED AGENT GARY HOY
 ADDRESS 420 BLVD OF THE ALLIES ADDRESS BOX 1550
PITTSBURGH, PA. 15219 CLARKSBURG, W.V. 26301

TYLER 0507-F

LATITUDE 39° 25' 00"

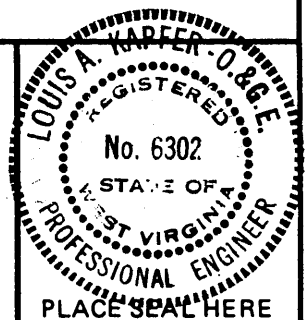
10450

Jamie 8/3/90



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ON BR.
731'

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 (SIGNED) *Louis A. Kaffer*
 R.P.E. 6302 L.L.S. _____



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



DATE 7/30/87, 19____
 OPERATOR'S WELL NO. 2243
 API WELL NO. _____
47 - 095 - 0507-Frac
 STATE COUNTY PERMIT

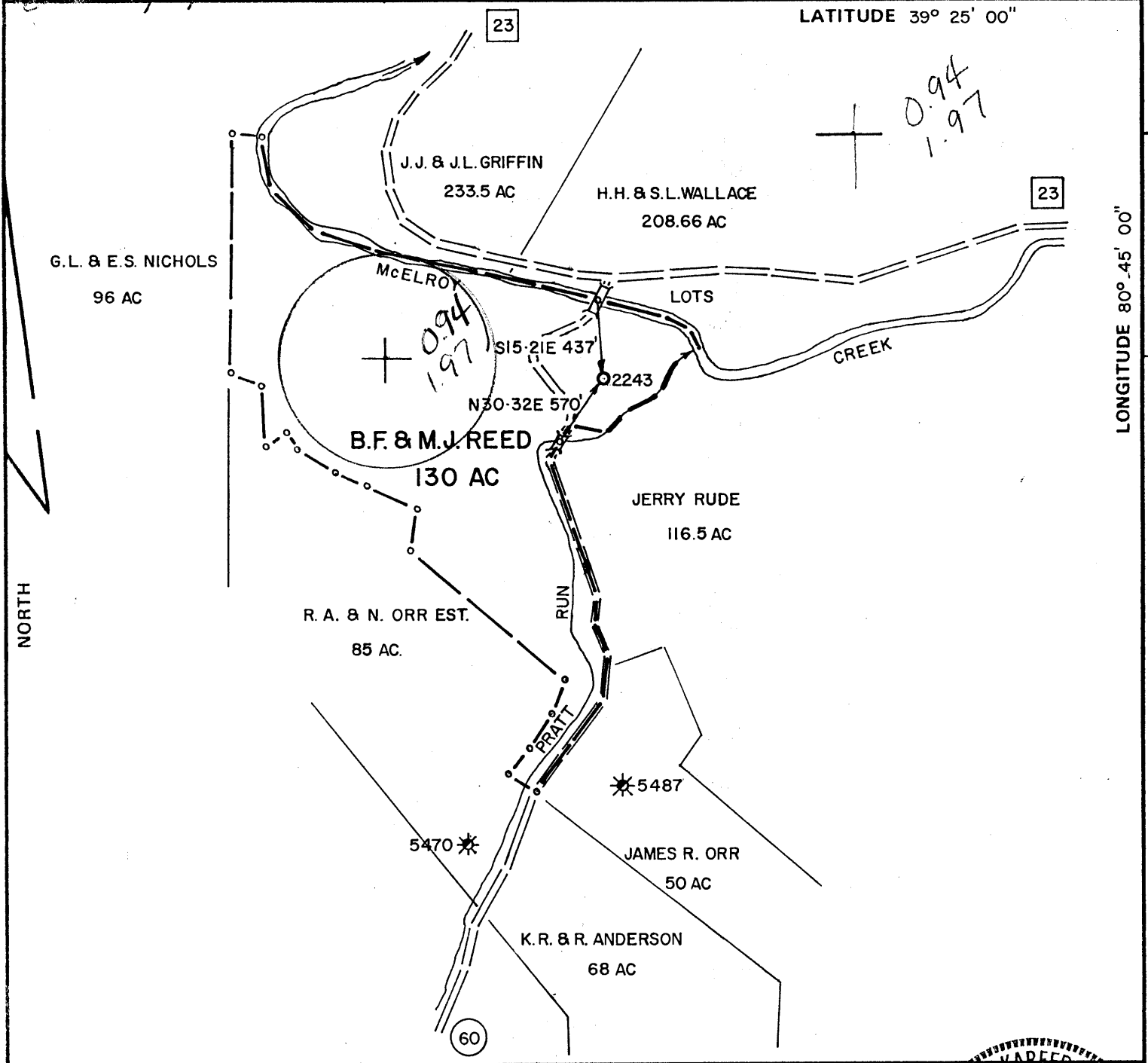
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Res frac permit expired

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 750' WATER SHED McELROY CREEK
 DISTRICT 75. McELROY S COUNTY TYLER
 QUADRANGLE SHIRLEY/WEST UNION NE 30-44
 SURFACE OWNER ROBERT A. & NORA ORR EST. ACREAGE 127.86
 OIL & GAS ROYALTY OWNER B.F. & M.J. REED LEASE ACREAGE 130
 LEASE NO. 4807
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION X PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 AUG 10 1990
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 1906'
 WELL OPERATOR EQUITABLE GAS COMPANY DESIGNATED AGENT GARY HOY
 ADDRESS 420 BLVD OF THE ALLIES ADDRESS BOX 1550
PITTSBURGH, PA. 15219 269 CLARKSBURG, W.V. 26301

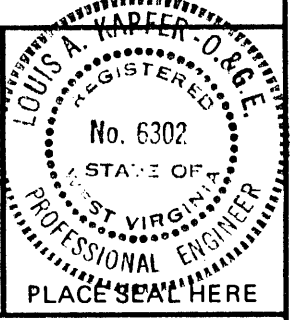
10/16/87

10450



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ON BR.
 731'

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 (SIGNED) *Louis A. Kaffer*
 R.P.E. 6302 L.L.S. _____



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



DATE 7/30/87, 19____
 OPERATOR'S WELL NO. 2243
 API WELL NO. _____
 47 - 095 - 0507-Frc.
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 750' WATER SHED McELROY CREEK
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY/WEST UNION NE 30-44 607 133 EC4
 SURFACE OWNER ROBERT A. & NORA ORR EST. ACREAGE 127.86
 OIL & GAS ROYALTY OWNER B.F. & M.J. REED LEASE ACREAGE 130
 LEASE NO. 4807
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION X PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 1906'
 WELL OPERATOR EQUITABLE GAS COMPANY DESIGNATED AGENT GARY HOY
 ADDRESS 420 BLVD OF THE ALLIES ADDRESS BOX 1550
 PITTSBURGH, PA. 15219 269 CLARKSBURG, W.V. 26301

NOV 2 1987

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

SEP 1 0

Well Operator's Report of Well Work

Farm name: ROBERT ORR ESTATE Operator Well No.: 2243

LOCATION: Elevation: 750' Quadrangle: SHIRLEY

District: McELROY County: TYLER
Latitude: 10,450 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 5,000 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: EQUITRANS, INC.
3500 PARK LANE
PITTSBURGH, PA 15275-0000

Agent: JOHN EMMERLING

Inspector: MIKE UNDERWOOD

Permit Issued:

Well work Commenced: 4/13/92

Well work Completed: 4/29/92

Verbal ~~Approval~~

Permission granted on: 4/08/92

Rotary X Cable Rig

Total Depth (feet) 2013

Fresh water depths (ft) N/A

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N

Coal Depths (ft): 437-440

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill U. Cu. Ft
10		315	NONE
8-5/8		1261	NONE
4-1/2		1930	1930-1350 153 ft ³

OPEN FLOW DATA

Producing formation BIG INJUN Pay zone depth (ft) 1791-1836
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 0 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 24 Hou s
Static rock Pressure 15 psig (surface pressure) after 24 Hou s

Second producing formation _____ Pay zone depth (ft) _____
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 _____ Hou s
Static rock Pressure _____ psig (surface pressure) after _____ Hou s

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 FORMATION, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EQUITRANS, INC.

Reviewed TMG
Recorded _____

By: _____
Date: 8/20/92 SEP 21 1992

BIG INJUN PERFORATION INTERVAL - 1791-1794, 1797-1800, 1828-1836

WORKOVER;

PULLED 1863' OF 7" CASING.

RAN 1930' OF 4-1/2" CASING AND CEMENTED.

<u>GEOLOGIC FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>
MAXTON	1402	1422
LITTLE LIME	1626	1641
PENCIL CAVE	1641	1650
BIG LIME	1650	1714
BIG INJUN	1714	1868

*Perk log type
no. 12 - 1714
Cal same as 437*

06970

if 2243 →
Permit # is
Tyler 307
(assigned
1978 by Dept
Mines) 7

B. F. HEED NO. 2 WELL, (2243 or 2242?) WELL.
Gal. No. 362 (290)

McElroy District, Tyler County, W. Va.
Philadelphia Co.
Elevation, 740'.
Completed in 1909.
Original rock pressure, 712 lbs.
On McElroy Creek.
Shown on 8-D, West Union Quadrangle.

	Top.	Bottom.
Pittsburgh Coal	437	
Gas Sand	1042	- 1098
Salt Sand	1130	- 1210
Salt Sand	1377	- 1402
Big Injun Sand (gas, 1726-9')	1709	- 1860
Gordon Sand (gas, 2442')	2437	- 2452
Total depth		2452

ID: COUNTY: 095 (TYLER) PERMIT: 70527 SFX: W (Worked Over)

REASSIGNED ID #: ()

COMPLETION INFO: ELEVATION: (Ground Lvl) ELEVATION TYPE: G COMP REC FLAG: (from E-LOG) RIG TYPE: (???)

* LOCATION TAX DST: * INFO: 7.5' LATITUDE: DEGREES 00 MINUTES 00.0 MIL 0.0 * LONGITUDE: 00 00.0 * QUADRANGLE: * 15' LATITUDE: 00 00 0.0 * LONGITUDE: 00 00 0.0 * QUADRANGLE: * 5' SECT: * UTM: EASTING: NORTHING: * COORDINATE DIGITIZED (Y/N):

CLASSIFICATION: INITIAL: (unclassified) SPUD: / / WELL TYPE: 0 FINAL: (unclassified) COMP: / /1966 (Unknown) BATCH: / / CHPL METH: () YEAR RPTD: (Never assigned)

OPEN GAS-BEFORE TREATMENT: (MCFPD) OIL-BEFORE TREATMENT: (BOPD) FLOW: GAS-AFTER TREATMENT: (MCFPD) OIL-AFTER TREATMENT: (BOPD)

ROCK NATURAL (PSI): 0 TIME (NATURAL, IN HOURS): 0 PRESSURE: TREATED (PSI): 0 TIME (TREATED, IN HOURS): 0

DEPTHS: TOTAL FTG: 1950 NEW FTG: 0 EXPL FTG: 0

DEEPEST FM: AT TOTAL DEPTH: 999 TESTED: 999 (undetermined unit) (undetermined unit)

* OWNER STATUS: C (Cmplt) DATE: / /1966 * INFO: SURFACE OWNER: Reed * OIL&GAS OWNER: * COMPANY NUMBER: (2243) * OPERATOR: 0269 (Equitable Gas) *

MECHANICAL LOG INFO:

STATUS: RANGE OF INTERVALS: 0- 943 DEEPEST FM LOGGED: LOGS AVAILABLE: GR,T MICROFILM ROLL NUMBER(S): 158 COMMENT: on roll #158 as Reed (2243)

LOG TYPES: GR-gamma ray; D-density; T-temperature; I-induction; N-neutron; S-sonic; *Other types not noted

RECEIVED

JUL 13 1990

DEPT. OF ENERGY

FORM WW-2B

095-0507-Row.
Issued 8/6/90
Expires 8/6/92
Page ___ of ___

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

- 1) Well Operator: Equitrans, Inc. 16160 (5)
- 2) Operator's Well Number: 2243 3) Elevation: 750
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): Big Injun
- 6) Proposed Total Depth: 1775' feet
- 7) Approximate fresh water strata depths: _____
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: 437' - 440'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: 1. Remove 1864' of 7" well casing.
2. Squeeze cement 1261' of 8-5/8" casing with 200 cu.ft.
3. Install 1775' of 4-1/2" casing.
- 12)

CASING AND TUBING PROGRAM

Install new casing in existing well

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	10"	Currently in well.			315'	
Coal						
Intermediate	8-5/8"	Currently in well.			1261'	200
Production	4-1/2"	J-55	11.6#		1775'	160
Tubing						
Liners						

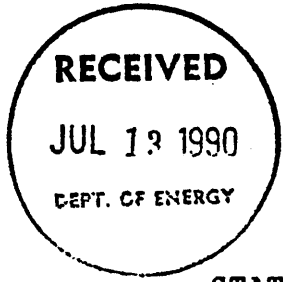
PACKERS : Kind N/A
Sizes N/A
Depths set N/A

For Division of Oil and Gas Use Only

18794
19

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

22621



- 1) Date: _____
- 2) Operator's well number
2243
- 3) API Well No: 47 - 095 - 0507 - ~~Rework~~
State - County - Permit

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

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Robert Orr Estate</u>
Address <u>351 Leggett Ave.</u>
<u>Barnesville, OH 43713</u></p> <p>(b) Name <u>Jim Orr</u>
Address <u>105-46 E. Center</u>
<u>Windham, OH 44288</u></p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>Robert Orr Estate</u>
Address <u>351 Leggett Ave.</u>
<u>Barnesville, OH 43713</u></p> <p>(b) Coal Owner(s) with Declaration
Name <u>Jim Orr</u>
Address <u>3105-46 E. Center</u>
<u>Windham, OH 44288</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector _____
Address _____
Telephone (304)- _____</p> | |

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
 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)
 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.

NOTARIAL SEAL
 EDWARD J. KIMS, JR., Notary Public
 Pittsburgh Allegheny County, PA
 My Commission Expires May 20, 1994

Well Operator Edutrans, Inc.
 By: _____
 Its: _____ President
 Address 3500 Park Lane
Pittsburgh, PA 15275
 Telephone (412) 788-6066

Subscribed and sworn before me this 25th day of June, 1990

Edward J. Kims, Jr. Notary Public
 My commission expires May 20, 1994

