

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

WELL REGISTER ASSIGNMENT

This API Number 47- 17-04074, issued to EQUITRANS, INC. is evidence of permission to operate the well that is referenced at the location described on the attached plat, subject to the provisions of Chapters 22 and 22B of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder. The name and telephone number of the Oil and Gas Inspector for this well is MIKE UNDERWOOD - 304-782-1043.

Spills or emergency discharges must be reported to 1-800-654-3312.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of your permits and in addition may result in civil and/or criminal penalties.

The enclosed WR-35 must be completed by you and returned to this office. In addition annual production reports must be submitted on this well and failure to do so may require you to plug the well.

Theodore M. Streit
Chief

By: 

Title: _____

Operator's Well No: 4137

Farm Name: ROSS, W. V.

API Well Number : 47- 17-04074 N

Date Issued : 12/07/93

LEASE NO. 1137 LESSOR ROSS, W.V. MAP 148 ACRES 114 ELEVATION NE 17 DIST. L DIV.

COUNTY Greenbrier
 DATE 12-10-12
 TO NO. 579 DATE
 CONTRACTOR T. Alexander & Son
 COMMENCED 1-30-13
 COMPLETED 6-5-13
 DATE PURCHASED
 STRIDE SERIAL NO.
 WELD TO
 DATE SOLD
 DATE ABANDONED
 DATE PLUGGED
 ANNUAL ROYALTY \$ 75 DUE 10-5
 WORKMAN'S COMP. NOTICE POSTED
 RILLER'S LOG IN FILE No
189. K. Coal 2.5-3.8
150 to 381

DEPARTMENT OF MINES DATA
 R.L.G. PERMIT NO. DATE
 R.L.G. DPR. PERMIT NO. DATE
 LUGGING PERMIT NO. DATE
 SQUAW
 2ND GAS
 MURKYSVILLE SAND (BEREA)
 TOTAL DEPTH

FREE GAS DATA
 ANNUAL ALLOWANCE Unlimited M.C.F.
 CONSUMER VIRGINIA SLOUT
 ADDRESS MILLERSDALE, VA

FORMATIONS
 WAYNEBURG COAL
 MAPLETON
 PITTSBURGH
 MURPHY SAND
 AMES LIMESTONE
 BAKERSTOWN COAL
 L. DUNKARD SAND
 B. DUNKARD SAND
 UPPER FREEPORT COAL
 L.
 B. KITK.
 M.
 L.
 VAMPORT LIME
 CLARION COAL
 BROOKVILLE COAL
 1ST GAS SAND
 MERCER COAL
 1ST SALT SAND
 2ND
 3RD
 MAXTON
 LITTLE LIME
 PENCIL CAVE
 BIG LIME (KEENER)
 BIG INJUN SAND
 SQUAW
 2ND GAS
 MURKYSVILLE SAND (BEREA)
 TOTAL DEPTH

FORMATIONS
 GANITE
 M' SAND (MINEVAL)
 SUR. STRAY SAND
 GORDON SAND (THIRD)
 4TH
 5TH
 6TH
 BAYARD STRAY SAND
 " " STR. SD.
 ELIZABETH SAND
 1ST WARREN SAND
 2ND
 SPEECH, STRAY SAND
 SPEECHLEY SAND
 TIONA SAND
 1ST BALLTOWN SAND
 2ND
 SHEFFIELD
 1ST BRADFORD " (BENSON)
 2ND
 3RD
 KANE SAND
 ELK SAND
 CRISKANY SAND
 TOTAL DEPTH
 TOTAL DEPTH

FORMATIONS
 SALT
 M' SAND (MINEVAL)
 SUR. STRAY SAND
 GORDON SAND (THIRD)
 4TH
 5TH (MCDONALD)
 6TH
 BAYARD STRAY SAND
 " " STR. SD.
 ELIZABETH SAND
 1ST WARREN SAND
 2ND
 SPEECH, STRAY SAND
 SPEECHLEY SAND
 TIONA SAND
 1ST BALLTOWN SAND
 2ND
 SHEFFIELD
 1ST BRADFORD " (BENSON)
 2ND
 3RD
 KANE SAND
 ELK SAND
 CRISKANY SAND
 TOTAL DEPTH
 TOTAL DEPTH

WATER AT TOP 2616
 WATER AT BOTTOM 2860
 OIL AT TOP 2912
 OIL AT BOTTOM 2952
 GAS AT TOP 853
 GAS AT BOTTOM
 WATER AT TOP
 WATER AT BOTTOM
 OIL AT TOP
 OIL AT BOTTOM
 GAS AT TOP
 GAS AT BOTTOM
 WATER AT TOP
 WATER AT BOTTOM
 OIL AT TOP
 OIL AT BOTTOM
 GAS AT TOP
 GAS AT BOTTOM

CLASSIFICATION
 CASING AND TUBING DATA
 SIZE PUT IN DATE PULLED DATE
 13" 22 6-73
 10" 300 6-73
 8 3/4" 1658
 8 3/4" 2211
 5 1/2" 2835 1/1914
 4"
 3"
 2"
 2 1/2" 2960 1-2-14 2960 6-63
 2 1/4" 2900 6-63
 2 1/8" 2860 6-63
 2835
 PACKER DATA
 DATE SET KIND SIZE SET AT DATE PULLED
 1-14 2X5 3/4 2835 6-63
 6-13 8X 8X 15 2811
 6-13 4 1/2 6 3/4 X 5 1/2 2835
 CASING CEMENTED
 FROM TO
 OIL DATA
 I.D.P. 42.45 Bbls.
 Gordon Sand - 9966

PIPE LINE DATA
 C/O NO. DATE LAID DATE RCL'D SIZE DATE RCL'D FEET LAID FEET RCL'D REMARKS
 Installed Clearing Jack 6-24-62
 DATE TURNED IN LINE DATE DISCONNECTED
 VOLUME FACTOR DATA
 PREVIOUS
 PRESENT 2835 x (2 x 5 3/4) 990 = 28067 (Gas)

SHOOTING RECORD
 DATE AMT. DEPTH VOLUME
 10-34 253 2961 100%
 10-34 50 15 39"
 10-35 75 10 140%
 12-35 100 25 30"
 10-39 570 10 100%
 10-34 800 2961 100%
 5-14-48 100 2961 100%
 10-35 50 2960
 10-35 2960
 10-35 2960

REPAIR AND DRILLING DEEPER
 DATE REASON COMMENCED COMPLETED
 8-8-14 D/D 8-8-14
 12-18-12 J.T. 12-18-12
 12-19-12 J.T. 12-19-12
 12-19-12 J.T. 12-19-12

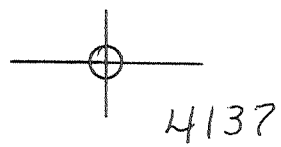
OPEN FLOW VOLUME & PRESSURE DATA
 24 HR. 10 DAY R. P. R. P. VOLUME
 1 2 3 4 5 15 30 60
 MINUTES BEFORE AFTER BEFORE AFTER BEFORE AFTER
 2204 2269
 2269 2345
 2410 2494

4208
 DAILY VOLUME FACTOR 28067
 DATE 28067

017-4074-7

6950'
LATITUDE 39°15'00"

00 56.08
LONGITUDE 80°35'00"
0950'



1.885 = 7.5'
1.32W
1.885
1.32W = 15'

16941

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

FILE NO. _____
DRAWING NO. _____
SCALE _____
MINIMUM DEGREE OF ACCURACY _____
PROVEN SOURCE OF ELEVATION _____

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) _____
R.P.E. _____ I.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE _____, 19____
OPERATOR'S WELL NO. 4137
API WELL NO. 47-017-4074-N
STATE COUNTY PERMIT

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

LOCATION: ELEVATION _____ WATER SHED INDIAN Fork
DISTRICT GREENBRIER COUNTY Doddridge
QUADRANGLE BIG TESSAR 25 1/2 Vads (NC) 15'

SURFACE OWNER W. V. ROSS ACREAGE 132
OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE _____

LEASE NO. 8884

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

FEB 6 1984

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION GORDON ESTIMATED DEPTH 2968'
WELL OPERATOR EQUITRANS INC. DESIGNATED AGENT JOHN G. KALAFAT
ADDRESS 3500 PARK LANE ADDRESS _____
PITTSBURGH PA 15275

COUNTY NAME
PERMIT

11.160

SHERWOOD (U.S. BOI 5 MI.)
810 000 FEET (SOUTH)
12' 30"
AVON 1.7 MI.
4862 II NW (NEW MILTON)



Big Isaac 7.5
Well # 4137
EQUITRANS INC.
017-4074-N