

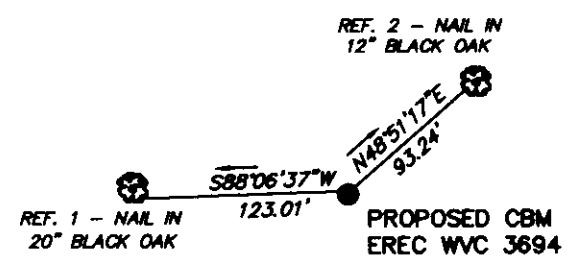
NORTH

James
7/2/97

TAX MAP 304
PAR.

- 11 JOHN J JEWELL
- 12 JOHN J JEWELL
- 13 JOHN J JEWELL
- 14 OAKLEY VANCE
- 15 OAKLEY VANCE
- 17.1 DONALD KENNEDY
- 17.2 LORETTA CHURCH
- 18 ROOSEVELT STACEY
- 21 JOHN A STACEY
- 22 MASE MULLINS
- 24 GLENNA LAXTON

REFERENCES N.T.S.



NOTE: NO POSSIBLE WATER SOURCES LOCATED WITHIN 1000' OF PROPOSED LOCATION.

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

WELL COORDINATES
W. VA. STATE PLANE
N 131621.4727
E 1761354.0623

File No 9614-7
DRAWING No. EREC WVC 3694
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 : 2500
PROVEN SOURCE OF ELEVATION USGS BM 151 RHP, 1959, EL. 2156

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) William J. Whitman R.P.E.
R.P.E. _____ R.P.S. 646



WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
#10 McJUNKIN ROAD



DATE MAY 27 19 97
OPERATOR'S WELL No. WVC 3694
API WELL No. _____

NITRO, WEST VIRGINIA 25143-2506
WELL TYPE: OIL ___ GAS CBM LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1810.40 WATER SHED MEATHOUSE FORK OF PANTHER CREEK
DISTRICT SANDY RIVER COUNTY McDOWELL
QUADRANGLE BRADSHAW, W. VA. - VA.

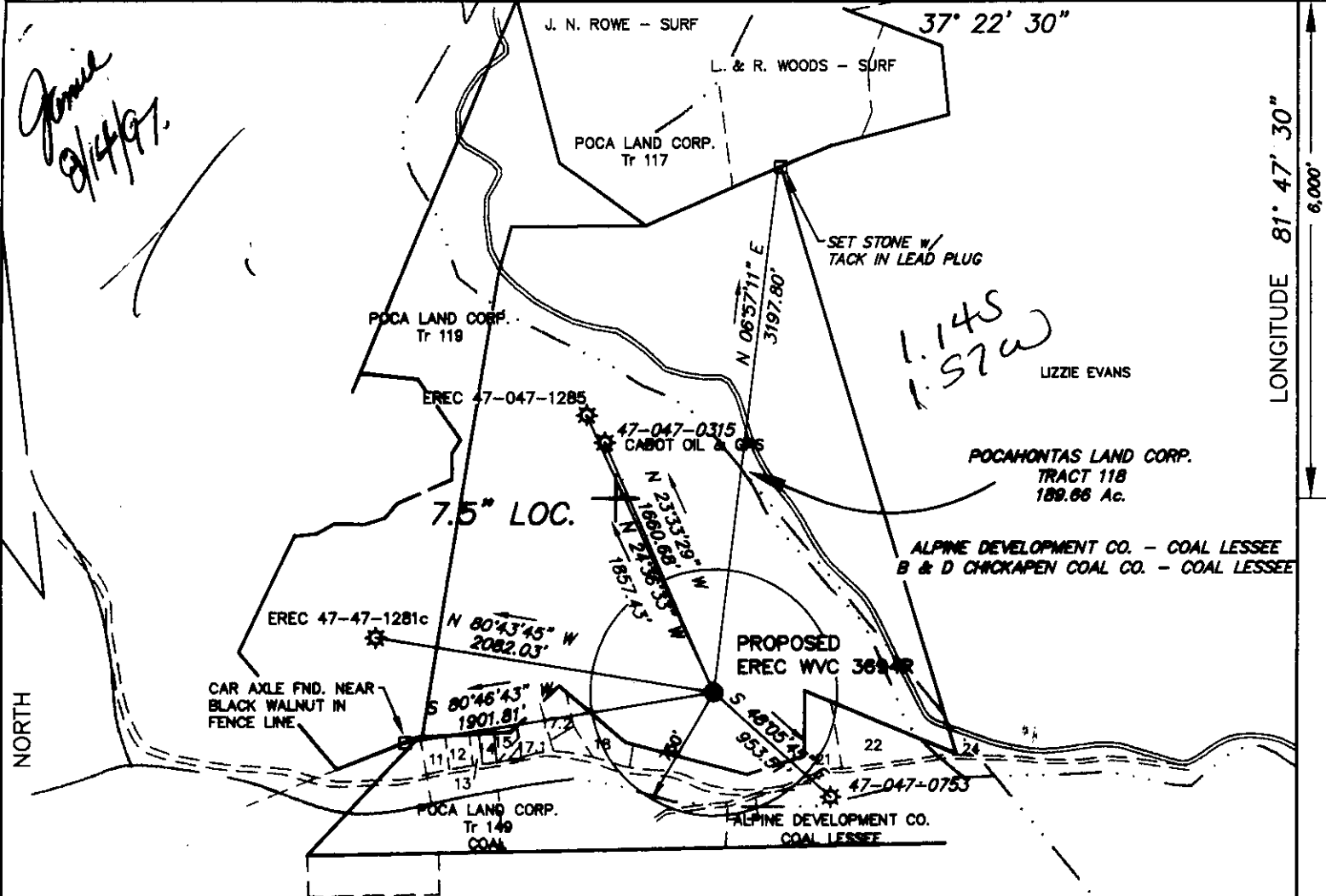
SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE 295.92
OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP. LEASE ACREAGE 15,379.43
LEASE No. 497880L

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION PENNSYLVANIAN COALS ESTIMATED DEPTH 1705' JUL 3 1997
WELL OPERATOR EQUITABLE RESOURCES ENERGY CO. DESIGNATED AGENT DAVID DEAN
ADDRESS 1989 EAST STONE DR. ADDRESS P.O. DRAWER 40
KINGSPORT, TN 37660 BUCHANNON, WV 26201

FORM IV-6 (8-78)

6-6 383



Janice
9/4/97

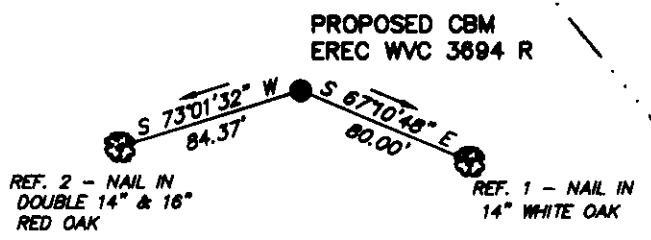
1.145
1.57w

LIZZIE EVANS

TAX MAP 304
PAR.

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REFERENCES N.T.S.



NOTE: NO POSSIBLE WATER SOURCES LOCATED WITHIN 1000' OF PROPOSED LOCATION.

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

WELL COORDINATES
W. VA. STATE PLANE
N 131622.2007
E 1761547.1333

File No 9614-7
DRAWING No. EREC WVC 3694 R
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 : 2500
PROVEN SOURCE OF ELEVATION USGS BM 151 RHP, 1959. EL 2156
WEST VIRGINIA

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) Tim A. Holcomb
R.P.E. _____ R.P.S. 719

PLACE SEAL HERE

DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
#10 McJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506
WELL TYPE: OIL ___ GAS CBM LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1810.4 WATER SHED MEATHOUSE FORK OF PANTHER CREEK
DISTRICT SANDY RIVER COUNTY McDOWELL
QUADRANGLE BRADSHAW, W. VA. - VA.



DATE AUGUST 6 19 97
OPERATOR'S WELL No. WVC 3694 R
API WELL No. 47 047-01309C

SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE 295.92
OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP. LEASE ACREAGE 15,379.43
LEASE No. 497880L
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG _____
TARGET FORMATION PENNSYLVANIAN COALS ESTIMATED DEPTH 1705'
WELL OPERATOR EQUITABLE RESOURCES ENERGY CO. DESIGNATED AGENT DAVID DEAN 15 1997
ADDRESS 1989 EAST STONE DR. ADDRESS P.O. DRAWER 40
KINGSPORT, TN 37660 BUCHANNON, WV 26201

FORM IV-6 (8-78)

WR-35

30-Jun-97
API # 47- 47-01309 C

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP. Operator Well No.: WV-3694

LOCATION: Elevation: 1,810.40 Quadrangle: BRADSHAW

District: SANDY RIVER County: MCDOWELL
Latitude: 5900 Feet South of 37 Deg. 22Min. 30 Sec.
Longitude 8500 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: EQUITABLE RESOURCES EXP.
1989 E. STONE DR., P.O. BOX 1983
KINGSPORT, TN 37662-1983

Agent: DAVID A. DEAN

Inspector: OFIE HELMICK
Permit Issued: 07/02/97
Well work Commenced: 9/13/97
Well work Completed: 10/6/97
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) LTD=1696 DTD=1711
Fresh water depths (ft) 360
683
Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): SEE ATTACHED

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	30	30	
8 5/8	364	364	106
4 1/2	1666	1666	467
2 3/8	1496.23	1496.23	

OPEN FLOW DATA

Producing formation COAL SEAMS * Pay zone depth (ft) 1271.5-1518.5
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 68 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation COAL SEAMS ** Pay zone depth (ft) 830.5-979.5
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow (COMMINGLED) MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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 FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

- * POCO #1
- * POCO #2
- * POCO #3
- * POCO #4
- * POCO #6
- ** FIRE CREEK
- ** BECKLEY

For: MICHAEL P JASKOSKI
EQUITABLE RESOURCES EXP. INC.

By: Michael Jaskoski
Date: 4-28-98

Mc Dow 1309 C

JUN 29 1998

API #: 47-047-01309 C
 OPERATOR WELL #: WVC3694
 FARM NAME: POCAHONTAS LAND CORP.

1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1ST STAGE - PERFORATED POCO SEAMS #1,2,3,4,6 FROM 1271.5 - 1518.5 WITH 15 PERFORATION.. FRACTURED ON 10/6/97 BY DOWELL WITH 70Q LE FOAM; 58500# 12/20 SAND, 394300 SCF N2, 418 TOTAL BBLs FLUID. BREAKDOWN PRESSURE 2408 PSI, MAX PRESSURE 3827 PSI, AVERAGE PRESSURE 3410 PSI, ISIP 1265 PSI, 1 MIN SIP 1263 PSI, 5 MIN SIP 1172 PSI. N2 INJECTION RATE 12700 SCFM, AVERAGE INJECTION RATE 30 BPM (DH). F.G. = (POCO #1 1.05) ALL SEAMS 1.29.

2ND STAGE - PERFORATED FIRE CREEK & BECKLEY FROM 830.5 - 979.5 WITH 12 PERFORATIONS. SET FRAC PLUG @ 1000'. FRACTURED ON 10/6/97 BY DOWELL WITH 70Q LE FOAM; 43100# 12/20 SAND, 240000 SCF N2, 308 TOTAL BBLs FLUID. BREAKDOWN PRESSURE N/A, MAX PRESSURE 3071 PSI, AVERAGE PRESSURE 2640 PSI, ISIP 1050 PSI, 1 MIN SIP 975 PSI, 5 MIN SIP 943 PSI. N2 INJECTION RATE 1500 SCFM, AVERAGE INJECTION RATE 17 BPM. F.G. = 1.58. BALLOUT W/ 500 GAL ACID.

2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

SAND, SHALE & THIN COALS	0	830	830
BECKLEY	830	834	4
SAND, SHALE & THIN COALS	834	976	142
FIRE CREEK	976	980	4
SAND, SHALE & THIN COALS	980	1271	291
POCO #6	1271	1273	2
SAND, SHALE & THIN COALS	1273	1372	99
POCO #4	1372	1373	1
SAND, SHALE & THIN COALS	1373	1424	51
POCO #3	1424	1426	2
SAND, SHALE & THIN COALS	1426	1457	31
POCO #2	1457	1458	1
SAND, SHALE & THIN COALS	1458	1517	59
POCO #1	1517	1519	2
SAND, SHALE & THIN COALS	1519	1696	177
LOGGER'S TOTAL DEPTH		1969	
DRILLER'S TOTAL DEPTH		1711	