

37° 22' 30"

REFERENCES N.T.S.

REF. 2 - NAIL IN 10" POPLAR

N 55°02'27" W 146.42

PROPOSED CBM EREC WVC 3691

REF. 1 - NAIL IN 12" BEECH

CLEO KENNEDY

WILLIAM KENNEDY

WILLIAM KENNEDY

O. KENNEDY

JAMES SEXTON

LS #497880 POCAHONTAS LAND CORP. SURF. COAL, OIL & GAS Tr 90

521.50 Ac.

ALPINE DEVELOPMENT B. & D. CHICKAPEN - COAL LESSEE

PROPOSED CBM EREC WVC 3691 47-047-1074 CABOT OIL & GAS

47-047-1057 CABOT OIL & GAS

S 89°28'59" W 1924.95'

20° N 80°48'32" E 539.77'

S 88°44'19" E 1394.09'

S 86°03'12" E 975.50'

SET STONE FND.

SET STONE FND.

POCAHONTAS LAND CO.

VANCE FORK

POCA LAND CORP. COAL, OIL & GAS Tr 91 COAL LESSEE ALPINE DEVELOPMENT CO.

F. ELLER

POCAHONTAS LAND CORP. Tr 90

47-047-1072 CABOT OIL & GAS

P. W. VANCE - SURF. S 73°19'59" W 2232.04'

E. COLLINS - SURF.

R. L. COLLINS - SURF.

7.5" LOC.

1.135 0.77w

LONGITUDE 81° 50' 00"

NORTH

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

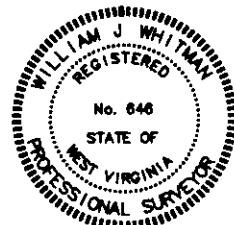
N 131782.6425 E 1753587.4810

FILE No 9614-8 DRAWING No. EREC WVC 3691 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) [Signature] R.P.S.

R.P.E. R.P.S. 646



PLACE SEAL HERE

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



DATE MAY 19 19 97 OPERATOR'S WELL No. WVC 3691 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 1704.06 WATER SHED VANCE FORK OF PANTHER CREEK

DISTRICT SANDY RIVER COUNTY McDOWELL

QUADRANGLE BRADSHAW, W. VA. - VA.

SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE 521.50

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 1065'

JUL 3 1997

WELL OPERATOR EQUITABLE RESOURCES ENERGY CO. DESIGNATED AGENT DAVID DEAN ADDRESS 1989 EAST STONE DR. ADDRESS P.O. DRAWER 40 KINGSFORT, TN 37660 BUCHANNON, WV 26201

FORM IV-6 (8-78)

WR-35

30-Jun-97
API # 47- 47-01308 C

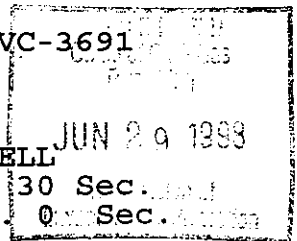
State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP. Operator Well No.: WVC-3691

LOCATION: Elevation: 1,704.06 Quadrangle: BRADSHAW

District: SANDY RIVER County: MCDOWELL
Latitude: 5900 Feet South of 37 Deg. 22Min. 30 Sec.
Longitude 4150 Feet West of 81 Deg. 50 Min. 00 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: 10/15/97
Well work Completed: 10/18/97
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) LTD=1724 DTD=1730
Fresh water depths (ft) 268'

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 79-81, 241-244, 268-272,
296-300, 730-740, 953-956, 1036-1040, 1268-1270,
1316-1319, 1342-1345, 1372-1375, 1405-1408, 1535-1540 [OPEN MINE 96-99]
OPEN FLOW DATA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16	26	26	
11 3/4	140	140	148
8 5/8	320	320	101
4 1/2	1675	1675	470
2 3/8	1618	1618	

Producing formation COAL SEAMS * Pay zone depth (ft) 888.5-1544.5
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 25 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 205 psig (surface pressure) after 48 Hours

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 _____ 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.

- * BECKLEY POCO #5
- FIRECREEK POCO #5 LEADER
- L FIRECREEK POCO #4
- POCO #9 POCO #3
- POCO #7 POCO #2
- POCO #1 POCO #1

JOSEPH A AWNY
For: EQUITABLE RESOURCES EXP. INC.

By: Joseph A. Awny
Date: 6/23/98

JUN 20 1998

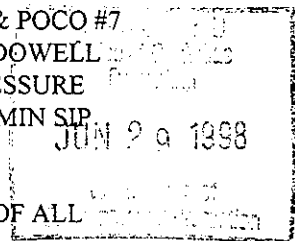
MCDOWELL 1308 C

API #: 47-047-01308 C
 OPERATOR WELL #: WVC3691
 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, 5, 5 LEADER & 6 FROM 1268.5 - 1544.5 WITH 19 PERFORATIONS. FRACTURED ON 12/1/97 BY DOWELL WITH 70Q LE FOAM; 37000# 12/20 SAND, 512,000 SCF N₂, 428 TOTAL BBLs FLUID. BREAKDOWN PRESSURE 3708 PSI, MAX PRESSURE 4166 PSI, AVERAGE PRESSURE 3590 PSI, ISIP 2030 PSI, 1 MIN SIP 2037 PSI, 5 MIN SIP 1927 PSI. AVERAGE INJECTION RATE 34 BPM.. F.G. = 1.65.

2ND STAGE - PERFORATED BECKLEY, FIRECREEK, L FIRECREEK, POCO #9 & POCO #7 FROM 888.5 - 1076 WITH 15 PERFORATIONS. FRACTURED ON 12/15/97 BY DOWELL WITH 70Q LE FOAM; 43640# 12/20 SAND, 592,700 SCF N₂. BREAKDOWN PRESSURE 2279, MAX PRESSURE 3492 PSI, AVERAGE PRESSURE 2964 PSI, ISIP 1310, 1-MIN SIP 1263, 1-MIN SIP 1263. F.G. = 1.90.



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

SAND, SHALE & THIN COALS WELCH	0	694	694
SAND, SHALE & THIN COALS BECKLEY	694	696	2
SAND, SHALE & THIN COALS FIRE CREEK	696	888	192
SAND, SHALE & THIN COALS L FIRECREEK	888	891	3
SAND, SHALE & THIN COALS POCO #9	891	1012	121
SAND, SHALE & THIN COALS POCO #7	1012	1015	3
SAND, SHALE & THIN COALS POCO #5	1015	1027	12
SAND, SHALE & THIN COALS POCO #5 L	1027	1028	1
SAND, SHALE & THIN COALS POCO #4	1028	1075	47
SAND, SHALE & THIN COALS POCO #3	1075	1077	2
SAND, SHALE & THIN COALS POCO #2	1077	1268	191
SAND, SHALE & THIN COALS POCO #1	1268	1270	2
SAND, SHALE & THIN COALS	1270	1343	73
SAND, SHALE & THIN COALS	1343	1345	2
SAND, SHALE & THIN COALS	1345	1373	28
SAND, SHALE & THIN COALS	1373	1374	1
SAND, SHALE & THIN COALS	1374	1405	29
SAND, SHALE & THIN COALS	1405	1406	1
SAND, SHALE & THIN COALS	1406	1452	46
SAND, SHALE & THIN COALS	1452	1455	3
SAND, SHALE & THIN COALS	1455	1483	28
SAND, SHALE & THIN COALS	1483	1485	2
SAND, SHALE & THIN COALS	1485	1543	58
SAND, SHALE & THIN COALS	1543	1545	2
SAND, SHALE & THIN COALS	1545	1724	179
LOGGER'S TOTAL DEPTH		1724	
DRILLER'S TOTAL DEPTH		1730	