

NOTES:

All known oil & gas wells within 2,400' of the proposed well location are shown hereon.

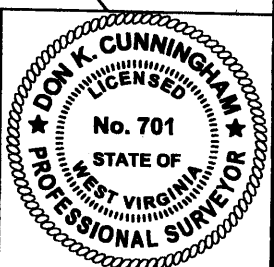
The bearings and distances shown hereon are based on the WV State Plane Coordinate System, NAD 27 South Zone.

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

FILE NO. _____
 DRAWING NO. Caldwell 2 ww6
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 12,729
 PROVEN SOURCE OF ELEVATION Global Positioning System (GPS)

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 THE LAW AND THE REGULATIONS AND ISSUED PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) Don K. Cunningham
 R.P.E. _____ L.L.S. 701



PLACE SEAL HERE

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



DATE May 19 2008
 OPERATOR'S WELL NO. Caldwell #2
 API WELL NO. UIC

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

LOCATION: ELEVATION 979.67' WATER SHED Right Fork of Sycamore Creek
 DISTRICT Pleasant COUNTY Clay
 QUADRANGLE Bentree

SURFACE OWNER Corpus Garcia (Tax Map 21, Parcel 54.2) ACREAGE 26.34
 OIL & GAS ROYALTY OWNER Guy Caldwell LEASE ACREAGE 34.9
 LEASE NO. 47-863

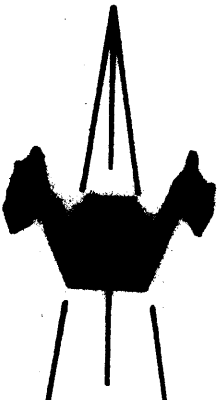
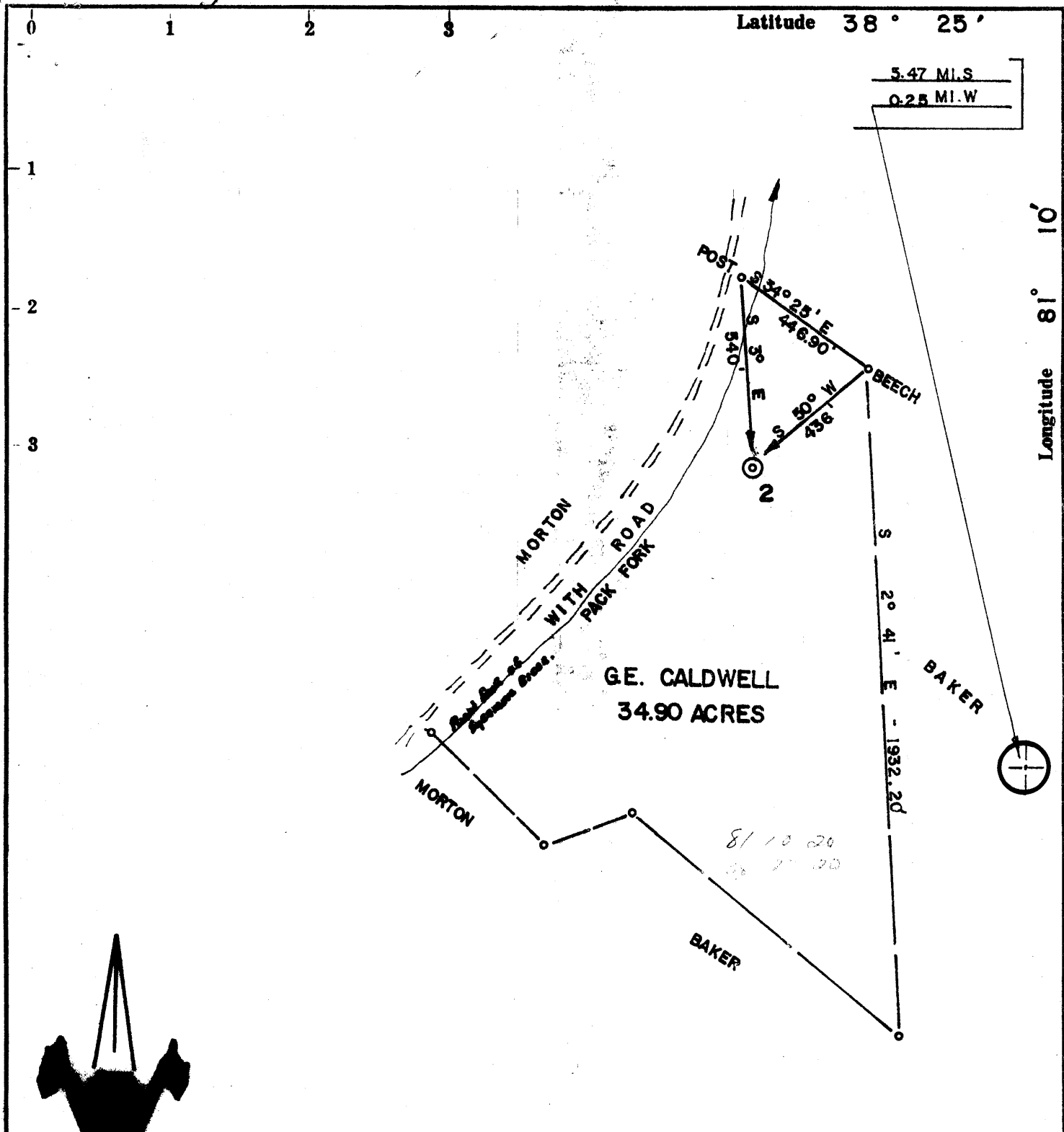
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION _____ ESTIMATED DEPTH _____

WELL OPERATOR Cabot Oil & Gas Corp. DESIGNATED AGENT Thomas Liberatore
 ADDRESS P.O. Box 1473 ADDRESS P.O. Box 1473
Charleston, WV 25325 Charleston, WV 25325

SEP 19 2008

COUNTY NAME CLAY
 PERMIT 1017 F



Source of Elevation LIZEMORES (983')

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

Company APPALACHIAN EXPL. & DEV. INC.

Address CHARLESTON, WV

Farm G.E. CALDWELL

Tract _____ Acres 34.90 Lease No. _____

Well (Farm) No. 2-GAS UNIT Serial No. _____

Elevation (Spirit Level) 985'

Quadrangle CLAY *WC*

County CLAY District PLEASANT

Engineer CHET WATERMAN

Engineer's Registration No. 3788

File No. 74003-448 Drawing No. _____

Date 9/26/74 Scale 1" = 400'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. Cl-1017

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-015

200' 300'
6-6 unnamed 2120000 P-17



RECEIVED

JAN 13 1975

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 2

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Clay

Permit No. ClA-1017

Company Appalachian Exploration & Dev., Inc.
Address P.O. Box 628, Charleston, W. Va.
Farm G.E. Caldwell Gas Unit Acres 34.9
Location (waters) Pack Fork
Well No. 2 Elev. 985'
District Pleasant County Clay
The surface of tract is owned in fee by _____
Guy E. Caldwell
Address Lizemore, W. Va.
Mineral rights are owned by same as above
Address _____
Drilling Commenced 10/31/74
Drilling Completed 11/5/74
Initial open flow _____ cu. ft. _____ bbls.
Final production 231 M cu. ft. per day _____ bbls.
Well open 8 hrs. before test 545# RP.

| Casing and Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.) |
|-------------------|------------------|--------------|-------------------------------|
| Size | | | |
| 20-16 | | | |
| Cond. | | | |
| 13-10" | | | |
| 9 5/8 | | | |
| 8 5/8 | 132' | 132' | |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | 2118' | 2118' | |
| 3 | | | |
| 2 -3/8" | 2034.36' | | |
| Liners Used | | | |

Well treatment details:

Attach copy of cementing record.

Perforated Injun 2040-60, 1 hole/ft. Fraced 2040-60' with 500 gals. MCA, 1000 gals. Methanol, 30,000# 20/40 and 15,000# 10/20 sand in 840 bbls. gelled water. Breakdown pressure 1200# psi. ISIP 1200#.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet Salt Water _____ Feet
Producing Sand Injun Depth 2040-2060

| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|-------------------|-------|--------------|----------|-------------|-------------------|-----------|
| Rotary | | | 0 | 8 | | |
| Clay sand | | | 8 | 90 | | |
| Rock | | | 90 | 139 | | |
| Rock | | | 139 | 247 | | |
| Sand and shale | | | 247 | 647 | | |
| Shale | | | 647 | 860 | | |
| Sandy shale | | | 860 | 1010 | | |
| Salt sand | | | 1010 | 1180 | | |
| Salt sand | | | 1180 | 1300 | | |
| Salt sand | | | 1300 | 1420 | | |
| Shale | | | 1420 | 1545 | | |
| Salt sand | | | 1545 | 1715 | | |
| Shale | | | 1715 | 1875 | | |
| Lime | | | 1875 | 1985 | | |
| Lime | | | 1985 | 2041 | | |
| <u>Injun sand</u> | | | 2041 | 2069 | | |
| | | | | 2130 | T.D. | |

(over)

* Indicates Electric Log tops in the remarks section.

| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|----------------------|-------|--------------------|----------|--------------------|-------------------|-------------------|
| | | | | | | |
| <u>Cement record</u> | | | | | | |
| <u>Casing</u> | | <u>No. of sks.</u> | | <u>Type cement</u> | | |
| 8-5/8" | | 100 | | RFC | | Cement circulated |
| 4-1/2" | | 35 | | Thixotropic | | |

Date January 27, 19 75

APPALACHIAN EXPLORATION & DEVELOPMENT, INC.

APPROVED [Signature] Owner

By District Production Superintendent

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED
OIL & GAS
DEPARTMENT
OCT 4 1974

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE October 3, 1974
Company Appalachian Exploration & Development, INC.
Address Box 628, Charleston, W. Va. 25322
Farm G.E. Caldwell Gas Unit Acres 34.9
Location (waters) Pack Fork
Well No. 2 Elevation 985'
District Pleasant County Clay
Quadrangle Clay

Surface Owner Guy E. Caldwell
Address Lizemore, West Virginia
Mineral Owner Same as above.
Address _____
Coal Owner Same as above
Address _____
Coal Operator None
Address _____

NOTICE: THIS PERMIT IS VOID IF THE WELL IS NOT

provisions being in accordance with Chapter 22 of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 2-7-75

Robert L. [Signature]
Deputy Director - Oil & Gas Division

PERSON TO BE NOTIFIED Martin Nichols
Clendenin PH: 548-6993
W.Va.

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated December 20 1971 by Guy Caldwell, et ux made to Appalachian Exploration & Development, Inc. and recorded on the 10th day of January 1972, in Clay County, Book 34 Page 636

NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, [Signature]
APPALACHIAN EXPLORATION & DEVELOPMENT, INC.
(Sign Name) _____
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOLOGICAL LOGS DIRECTLY TO:

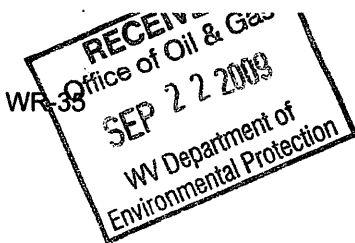
West Virginia Geological and Economic Survey Well Operator
P. O. Box 579
Morgantown, W. Va. 26805
AC 304-296-4461

Address _____
of _____
Street Box 628
City or Town Charleston
State West Virginia 25322

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

Clay-1017 PERMIT NUMBER
47-015



Date September 21, 2009
API # 47- 015 - 01017

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Bob

Farm Name: Guy E. Caldwell Operator Well No.: 2

LOCATION: Elevation: 985' ✓
District: Pleasant Quadrangle: Bentree
Latitude: 13,550 feet South of 81 DEG. 10 MIN. 00 SEC.
Longitude: 1130 feet West of 38 DEG. 22 MIN. 30 SEC.

Company: Cabot Oil & Gas Corporation
900 Lee Street East, Suite 500
Charleston, WV 25301

| Casing & Tubing Size | Used in Drilling | Left In Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 8-5/8" | 140' | 140' ✓ | 161 cu.ft. |
| 4-1/2" | 2118' | 2118' ✓ | 54.3 cu. Ft. |
| 2-3/8" | NA | 2024' | NA |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Agent: Brian D. Hall
Inspector: Terry Urban
Permit Issued: September 17, 2008
Well Work Commenced: November 11, 2008
Well Work Completed: December 23, 2008
Verbal Plugging: _____
Permission granted on: _____
Rotary X Cable _____
Total Depth (feet) 2135'
Fresh Water Depths (ft) None reported ✓
Salt Water Depths (ft) None reported ✓
Is coal being mined in area (Y/N)? (Yes)
Coal Depths (ft) None reported

OPEN FLOW DATA

Producing Formation Injun Pay Zone 2049'-2069'
Depth (ft) _____
Gas: Initial Open Flow NA MCF/d Oil: Initial Open Flow 0 Bbl/d
Final Open Flow 231 MCF/d Final Open Flow 0 Bbl/d
Time of open flow between initial and final tests 1924 Hours
Static rock pressure 545 psig surface pressure after _____ Hours

Second Producing Formation NA Pay Zone NA
Depth (ft) _____
Gas: Initial Open Flow NA MCF/d Oil: Initial Open Flow NA Bbl/d
Final Open Flow NA MCF/d Final Open Flow NA Bbl/d
Time of open flow between initial and final tests NA Hours
Static rock pressure NA psig surface pressure after NA 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 SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

For: **CABOT OIL & GAS CORPORATION**

By: W. Lee Hornsby Drilling Superintendent
Date: 9/21/09

Treated Big Injun 11/21/74 @ 2040'-2060' (1 spf, 20 holes) with 500 gallons MCA, 1000 gallons Methanol, 30,000# 20/40 and 15,000# 10/20 sand in 840 bbls gelled water. BDP = 1200 psi, ISIP = 1200 psi, ATP = 2571 psi at 31.4 bpm.

Pulled tubing and packer and set Retrievable Bridge Plug @ 1870' on 12/10/08. Retrieved RBP on 12/12/08. Ran new tubing @ 2024' with Baker AD-1 Packer @ 2034'-27', and displaced fluid with 30 bbls of Corban 400, Clay Stabizer, & Microbiocide to annulus on 12/12/08. Tested 4"x2" annulus to 1543 psi on 12/15/08.

| FORMATION | TOP | BOTTOM | REMARKS |
|--------------|-------|--------|---------|
| Clay sand | 8' | 90' | |
| Rock | 90' | 139' | |
| Rock | 139' | 247' | |
| Sand & Shale | 247' | 647' | |
| Shale | 647' | 860' | |
| Sandy Shale | 860' | 1010' | |
| Salt Sand | 1010' | 1180' | |
| Salt Sand | 1180' | 1300' | |
| Salt Sand | 1300' | 1420' | |
| Shale | 1420' | 1545' | |
| Salt Sand | 1545' | 1715' | |
| Shale | 1715' | 1875' | |
| Lime | 1875' | 1985' | |
| Lime | 1985' | 2041' | |
| Injun Sand | 2041' | 2069' | |
| TD | 2135' | | |