

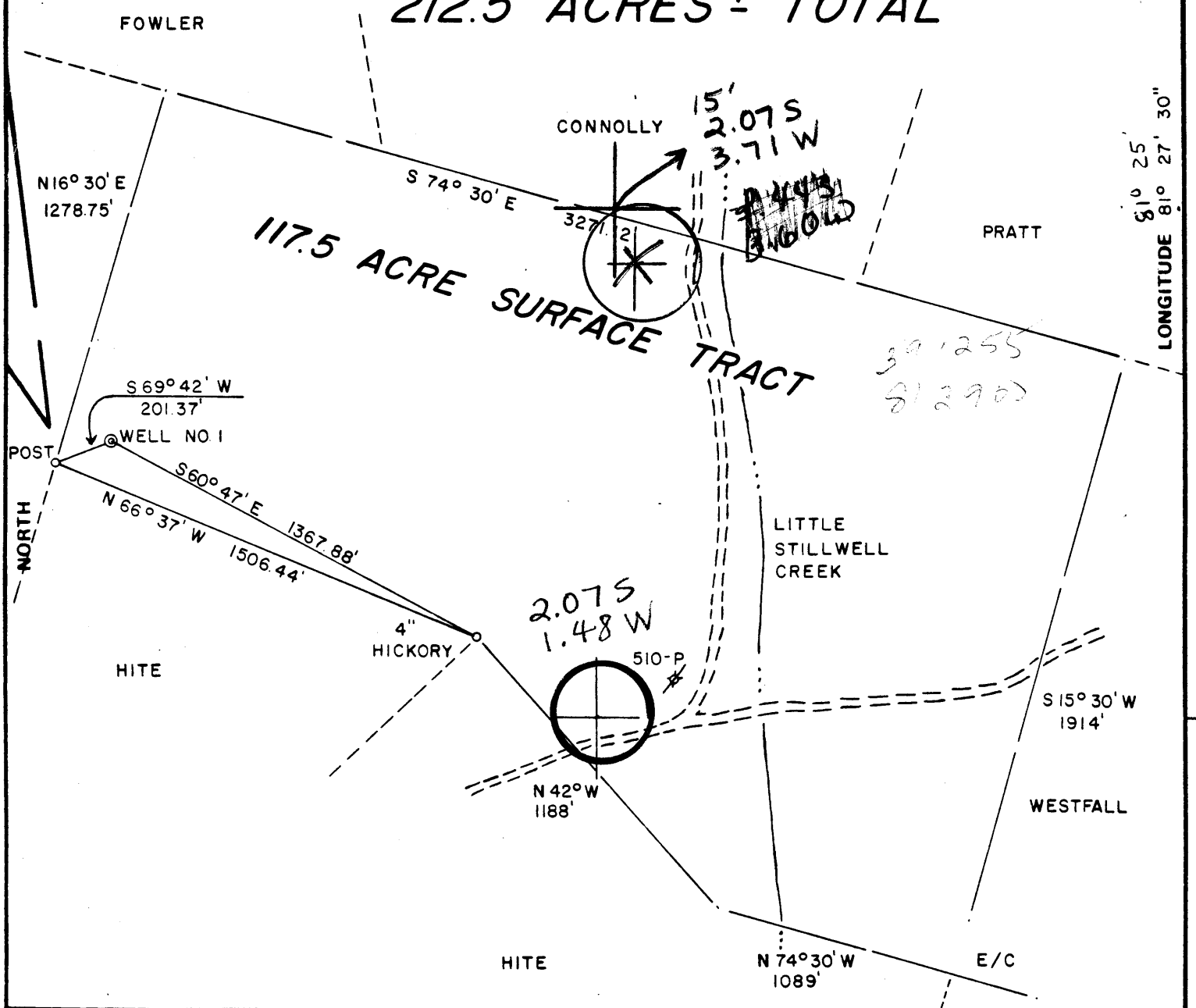
115-12-31-81

7800'

Plot: Card USA

LATITUDE 39° 15' 00"

WESTFALL WELL NO. 1 212.5 ACRES ± TOTAL



FILE NO. 5-45

DRAWING NO. _____

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION TOP OF KNOB NORTH OF LOCATION ELEV. 910'

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) Gregory A. Smith

R.P.E. _____ L.L.S. 677

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE DECEMBER 22, 19 81

OPERATOR'S WELL NO. 1

API WELL NO. 47-107-1196

STATE WEST VIRGINIA COUNTY WOOD PERMIT 1196

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____

(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION N ELEVATION 784' WATER SHED LITTLE STILLWELL CREEK

DISTRICT CLAY COUNTY WOOD

QUADRANGLE KANAWHA 75' Elizabeth 15 NW

SURFACE OWNER W.K. & DORTHA F. WESTFALL ACREAGE 117.5

OIL & GAS ROYALTY OWNER W.K. & DORTHA F. WESTFALL LEASE ACREAGE 212.5

LEASE NO. _____

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION BEREA ESTIMATED DEPTH 2200'

WELL OPERATOR AAPCO OIL & GAS CORP. DESIGNATED AGENT RICHARD H. BRUMBAUGH

ADDRESS P.O. BOX 14348 ADDRESS 212 COURT STREET
ORLANDO, FL 32807 SPENCER, W.V. 25276

RECEIVED



IV-35 (Rev 8-81) AUG 5 1 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines Oil and Gas Division

Date August 20, 1982

Operator's

Well No. 1

Farm W.K. and Dortha Westfall

API No. 47 - 107 - 1191 - 1196

(CORRECTED PERMIT NUMBER)

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas x / Liquid Injection / Waste Disposal / (If "Gas," Production x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 788 KB Watershed Little Stillwell Creek District: Clay County Wood Quadrangle Kenawha 7.5 min.

COMPANY Appco Oil & Gas Corporation ADDRESS 100 S. Orange Ave. S.-909 Orl. Fla. DESIGNATED AGENT Richard H. Brumbaugh ADDRESS 212 Court St. Spencer, W. Va. 25276 SURFACE OWNER W. K. and Dortha Westfall ADDRESS Rt. 1 Box 184 Davisville, W. Va. 26142 MINERAL RIGHTS OWNER W. K. and Dortha Westfall ADDRESS Rt. 1 Box 184 Davisville, W. Va. 26142 OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace ADDRESS Rt. 1 Box 65 SandRidge, WV

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cord, 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2-3/8 and Liners used.

PERMIT ISSUED December 9, 1981 DRILLING COMMENCED January 3, 1982 DRILLING COMPLETED January 23, 1982 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Devonian Shale (Huron Member) Depth 4000 feet Depth of completed well 3985 feet Rotary x / Cable Tools Water strata depth: Fresh 95+ feet; Salt N/A feet Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Devonian Shale Pay zone depth 2568-4052 feet * See perf. details Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure psig (surface measurement) after hours shut in (If applicable due to multiple completion--)

Wood 11910

* Reservoirs were not completed independently.

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

Perforations from Perforating Log

2498 - 2510	7	.39 holes)		Gordon
			Stage 3	
2568 - 2990	31	.39 holes)		Devonian Shale
3116 - 3584	40	.39 holes	Stage 2	Devonian Shale
3602 - 4052	40	.39 holes	Stage 1	Devonian Shale

3 stage foam frac with 50 m lbs 20-40 mesh sand, 1 mm scf nitrogen and 200 barrels of fluid per stage.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Berea Sandstone				2175'	Not developed (Absent)
Gordon Stray			2482'	2512'	Trace of oil
Warren			2910'	2934'	Slight show of gas
Speechley			3441'	3551'	
Balltown			3600'	3640'	
<u>Huron Member</u> (Ohio Shale)			3718'	3985'	Show of gas
T.D. (Logger)				3985' 4065'	

(Attach separate sheets as necessary)

Appco Oil & Gas Corporation

Well Operator

By:

Benjamin Smelter

Date:

August 20, 1982

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



Farm WESTFALL
API # 47-107-1196
Date DEC. 23 1981

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /

LOCATION: Elevation: 784' Watershed: LITTLE STILLWELL CREEK
District: CLAY County: WOOD Quadrangle: KANAWHA 7.5'

WELL OPERATOR APPCO OIL & GAS CORP.
Address P.O. BOX 14348
ORLANDO FL. 32807

DESIGNATED AGENT RICHARD H. BRUMBAUGH
Address 212 COURT STREET
SPENCER W.V. 25276

OIL AND GAS
ROYALTY OWNER W.K. & DORTHA WESTFALL
Address RT. 1 BOX 184
DAVISVILLE W.V. 26142
Acreage 212 1/2

COAL OPERATOR NONE
Address _____

SURFACE OWNER W.K. & DORTHA WESTFALL
Address RT. 1 BOX 184
DAVISVILLE W.V. 26142
Acreage 117 1/2

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME _____
Address _____
NAME _____
Address _____

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME DEO MACE
Address RT. 1 BOX 65
SAND RIDGE, W.V.
Telephone 655-8693

RECEIVED

DEC 29 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated Dec. 18, 1981, to the undersigned well operator from W.K. WESTFALL & DORTHA WESTFALL.

(If said deed, lease, or other contract has been recorded:)

Recorded on Dec 22, 1981, in the office of the Clerk of County Commission of WOOD County, West Virginia, in DEED Book at page 765 188. A permit is requested as follows:

PROPOSED WORK: Drill / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify) _____

---planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
513 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

APPCO OIL & GAS CORP.
Well Operator

By: John M. Griffin
Its: Operations Manager

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) GENE STALNAKER INC.

Address P.O. BOX 178

GIENVILLE, W.V. 26351

GEOLOGICAL TARGET FORMATION BERE A

Estimated depth of completed well 2200' feet. Rotary x / Cable tools /

Approximate water strata depths: Fresh, 95' feet; salt, n/a feet.

Approximate coal seam depths: N/A

Is coal being mined in this area: Yes / No x /

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For Drill, Left in Well), CEMENT FILL-UP OR SACKS (Cubic ft.), PACKERS (Kinds, Sizes, Depths set, Perforations: Top Bottom)

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All 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 8-31-82

Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

I, the undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the coal operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____.

By: _____

Its: _____

Handwritten signature