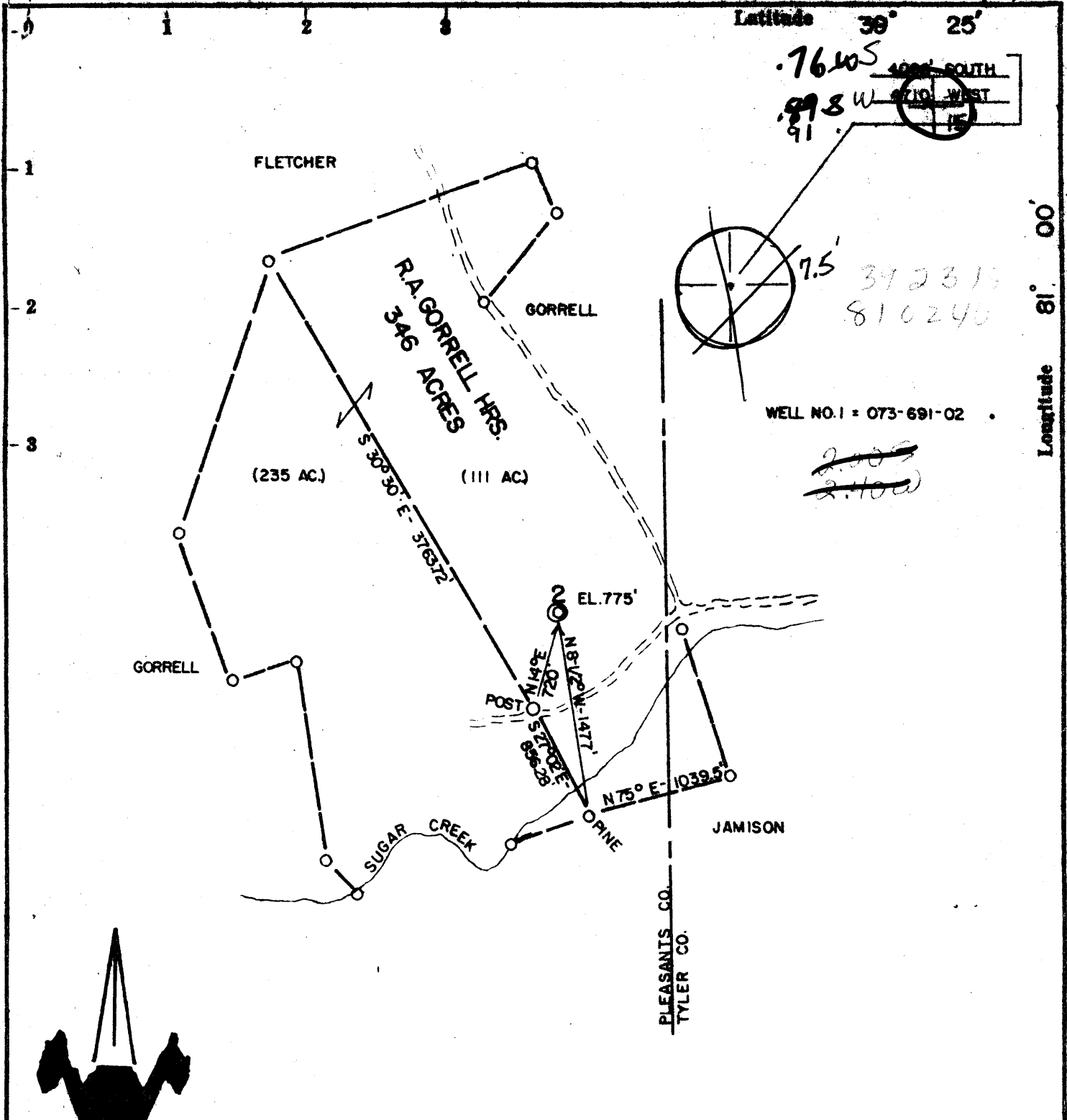


5/1/79 *FW*



Latitude 39° 25'
 .76105
 .898 W
 91
 1000' SOUTH
 15' WEST
 15'

392313
 810246

WELL NO. 1 = 073-691-02

~~2.000~~
~~2.400~~

Longitude 81° 00'



ACCURACY: 1'/200'

Source of Elevation MEADVILLE ROAD 732'

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.

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

SHALE

Chet Waterman

Company CARL E. SMITH, INC.
 Address SANDYVILLE, WV
 Farm R.A. GORRELL HEIRS
 Tract _____ Acres 346 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 775' *EC*
 Quadrangle BENS RUN (7.5'), ST. MARYS
 County PLEASANTS District UNION
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788
 File No. 79-254 Drawing No. _____
 Date 4/20/79 REVISED Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. 47-073-0756

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

6-6 Shiloh-Wick
 MAY 22 1979

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DEVELOPMENT

July 9
Operator's P. A. Carroll
Well No. 2-184

FORM IV-35
(Obverse)

WELL OPERATOR'S REPORT
OF

API Well No. 47 - 073 - 0756
State County Term

[08-78]

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X ___ / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production X ___ / Underground storage ___ / Deep ___ / Shallow X ___)

LOCATION: Elevation: 775 Watershed: Sugar Creek
District: Union County: Pleasants Quadrangle: Bens Run 7.5 min

WELL OPERATOR Carl E. Smith, Inc. DESIGNATED AGENT Carl E. Smith, Inc.
Address P.O. Box 4 Address P.O. Box 4
Sandyville, WV 25275 Sandyville, WV 25275

PERMITTED WORK: Drill X ___ / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate
Plug off old formation ___ / Perforate new formation ___ / JUL 12 1979
Other physical change in well (specify) _____

PERMIT ISSUED ON April 30, 1979

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____, 19 _____)

Name Phillip Lee Tracy
Address P.O. Box 173, Dodd St.
Middlebourn, WV 26149

GEOLOGICAL TARGET FORMATION: Gordon Depth 3000' feet

Depth of completed well, 2814 feet Rotary X ___ / Cable Tools ___

Water strata depth: Fresh, 150 feet; salt, 1860 feet.

Coal seam depths: None Noted Is coal being mined in the area? No

Work was commenced May 15, 1979, and completed May 22, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	10 ³ / ₄	H-40	32.75	X			249	125	Kinds
Fresh water									
Coal									Sizes
Intermediate	7"	K-55	20"	X			1864	70	
Production	4 ¹ / ₂	K-55	10.5	X			2809	100	Depth set
Tubing	1 ¹ / ₂	J-55	2.75	X			2641.89		
Liners									Perforations:
									Top Bottom
									2434-2621
									w 32 holes

OPEN FLOW DATA

Producing formation Gordon -Gordon Stray Pay zone depth 2442-2632 feet

Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, 0 Bbl/d

Final open flow, 1350 Mcf/d Final open flow, trace Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1425 psig (surface measurement) after 72 hours shut in

[If applicable due to multiple completion--]

Second producing formation Pay zone depth feet

Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d

Final open flow, Mcf/d Final open flow, Bbl/d

AUG 1 1979

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

Perf: 2609-19 w/2, 2558-2568 w/5, 2514-2524 w/5, 2432-42 w/10.

HOWCO Frac on 6-14-79 w/1250 bbl water, 30 M lb 80/10 Sd, 70 M lb 20/40 Sd, 500 Gal. HCL, 500# WC-12, 15 Gal. FR, 20 Gal. Cla-Sta-B, 20 Gal. Frac Flo, 110 Gal. parasperse; BD 2200#, ATP 2500#, ATR 36.7 bpm, ISICP 1600#, 5 min 1400#, 157,000 SCF Nitrogen.

LOG

FORMATION	Color	Hard or Soft	35 Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale	-	-	0	1606	Miss. Undiff.
Limestone	White	Hard	1606	1654	Big Lime
Shale	Dark	Soft	1654	1658	
Sandstone	Light	Hard	1658	1710	Big Injun
Shale	Dark	Soft	1710	1734	
Sandy Shale	Dark	Hard	1734	1862	Squaw
Shale	Dark	Soft	1862	2094	
Sandy Shale	Dark	Hard	2094	2152	Weir
Shale	Dark	Soft	2152	2200	
Sandstone	Light	Hard	2200	2204	Berea, Hard & Tite
Shale	Dark	Soft	2204	2442	
Sandy Shale	Dark	Hard	2442	2456	Gordon Stray
Shale & Sand	Dark	Soft	2456	2620	
Sandstone	Dark	Hard	2620	2632	Gordon
Shale	Dark	Soft	2632	2814	
TOTAL DEPTH				2814	

(Attach separate sheets to complete as necessary)

Carl E. Smith, Inc.

Well Operator

Thomas P. Sanders
Thomas P. Sanders

By

Its Manager - Exploration & Development

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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. #2

API Well No. 47 - 073 - 0756
State County Permit

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage / Deep / Shallow X /)
LOCATION: Elevation: 725' / 780' Watershed: Sugar Creek
District: Union County: Pleasants Quadrangle: Bens Run 7.5'

WELL OPERATOR CARL E. SMITH, INC. DESIGNATED AGENT CARL E. SMITH, INC.
Address P. O. Box 4 Address P. O. Box 4
Sandyville, WV 25275 Sandyville, WV 25275

OIL & GAS ROYALTY OWNER R. A. Gorrell, Hrs. COAL OPERATOR None
Address c/o Aubra Amos Jeffries Address
3706 Grand Central Ave.
Vienna, WV

ACREAGE 346 COAL OWNER(S) WITH DECLARATION ON RECORD:
Name R. A. Gorrell, Hrs.
Address c/o Aubra Amos Jeffries
3706 Grand Central Ave.
Vienna, WV

Surface Owner Russell A. Gorrell Name
Address Bens Run, WV

ACREAGE 98 Address

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Lee Tracy
Address P. O. Box 173, Dodd St.
Middlebourn, WV 26149
Tel: 758-4573

OIL & GAS DIVISION
DEPT. OF MINES

APR 30 1979

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract X / dated March 21, 1979, to the undersigned well operator from Pennzoil Company

[If said deed, lease, or other contract has been recorded:]
Out being recorded
Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____ county, West Virginia, in _____ Book _____ at page _____. A permit is requested as follows:

PROPOSED WORK: Drill X / 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 the receipt of this Application by the Department.

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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
15 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

CARL E. SMITH, INC.
Well Operator

BLANKET BOND

By Larry D. Smith
Its _____ Vice President

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN)

CARL E. SMITH, INC.

Address

P. O. Box 42100

Sandyville, WV 25275

GEOLOGICAL TARGET FORMATION,

Gordon Sand

Estimated depth of completed well, 3000' feet. Rotary Cable tools

Approximate water strata depths: Fresh, 130 feet; salt, 1684 feet.

Approximate coal seam depths: None expected Is coal being mined in the area? Yes No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	10 3/4"	H40	32.75#	X		250	250	110	Kinds
Fresh water									
Coal									Sizes
Intermediate	7"	K55	20#	X		1850	1850	125	
Production	4 1/2"	K55	10.5#	X		3000	3000	175	Depths set
Tubing									
Liners									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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 1-1-80.

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

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 well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.