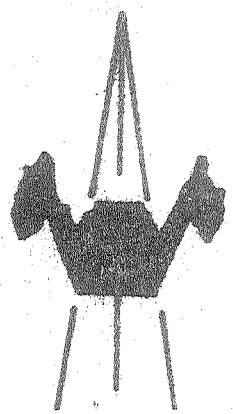


SURFACE 23.75 ACRES
CLEO YEATER

MINERALS ~~23.75~~ ACRES
ROY E. GRIPPIN
THELMA FORD
CLEO YEATER
CLYDE DAVIDSON



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

DEVONIAN SHALE - 5900'

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 regulations of the oil and gas section of the mining laws of West Virginia.

Company CARLE E. SMITH, INC.	
Address SANDYVILLE, WV	
Farm E. DAVIDSON ET AL (AS ABOVE)	
Tract _____	Acres 234 Lease No. _____
Well (Farm) No. 3	Serial No. _____
Elevation (Spirit Level) 1180'	
Quadrangle SMITHBURG (75' SERIES)	
County DODDRIDGE	District WEST UNION
Engineer CHET WATERMAN	
Engineer's Registration No. 3788	
File No. 79-31	Drawing No. _____
Date 1/16/79	Scale 1" = 2000'

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

WELL LOCATION MAP
FILE NO. **47-017-2366**

+ 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.

APR 16 1979

5900' Devonian 33 Smithton Flint. Sedalia (99)

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

Date July 9

Operator's E. Davidson
Well No. #3-182

FORM IV-35
(Obverse)

WELL OPERATOR'S REPORT
OF

API Well No. 47 - 017 - 2366
State County West Virginia

[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: 1191 Watershed: Nutters Fork
District: West Union County: Doddridge Quadrangle: Smithburg 7.5'
Centerpoint 15'

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 ___
Other physical change in well (specify) _____
JUL 13 1979

OIL & GAS DIVISION
DEPT. OF MINES

PERMIT ISSUED ON March 30, 19 79 OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander - Elk Depth 5900' feet
Depth of completed well, 5876 feet Rotary X / Cable Tools ___
Water strata depth: Fresh, 150 feet; salt, 2250 feet.
Coal seam depths: None noted Is coal being mined in the area? No
Work was commenced 4-22, 19 79, and completed 5-3, 19 79

GRADING AND TUBING PROGRAM

GRADING 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			488.42	225 sx	Minds
Fresh water									Sizes
Coal									Depth set
Intermediate	7	K-55	20	X			2275.85	125	
Production									
Tubing	4 1/2	K-55	10.5	X			5846	275	
Liners									Perforations:
									Top Bottom
									4664-5450
									w 34 holes

OPEN FLOW DATA

Producing formation Alexander, Benson, Riley, Bradford Commingled Pay zone depth 4664-5450 feet
Gas: Initial open flow, 30 Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 430 Mcf/d Final open flow, Trace Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1400 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
Time of open flow between initial and final tests, _____ hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

AUG 1 1979

[08-78]

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

Perf: Alexander 5410-5450 w/17; Benson 5114-5124 w/5; Riley 4921-4931 w/5;
Bradford 4664-4674 w/7; 34 holes Total per, Perf. log depths

HOWCO Acidize and Ball-out 5-25-79 w/2000 gal. 15% Reg HCL Acid, 2 gal.
15-N, 1 gal. Cla-Sta-B, 1 gal. HAI-50.

POWCO Frac on 5-29-79 w/1550 bbl, 1000# WG-11, 90 gal. 15-N, 55 gal. EP-23,
48 gal. CBW-3, 600# CW-1, 55 gal. Cla-Sta-B; ATP 3085, ATR 48.2 bpm,
ISICP 1550, 5 min. 1450

WELL LOG

FORMATION	Color	Hard or Soft	% Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale	-	-	0	2084	Miss. Undiff.
Limestone	White	Hard	2084	2114	Big Lime
Sandstone	"	"	2114	2228	Big Injun
Shale	Green	Soft	2228	2240	
Sandstone	White	Soft	2240	2250	Squaw
Shale	Dark	Soft	2250	2400	
Sandy Shale	Dark	Soft	2400	2478	Weir
Shale	Dark	Soft	2478	2600	
Sandy Shale	Dark	Soft	2600	2617	Fourth Sd
Shale	Dark	Soft	2617	2830	
Sandstone	Light	Soft	2830	2854	Gordon Sg est 30M
Shale	Dark	Soft	2854	3470	
Sandy Shale	Dark	Hard	3470	3644	Warren Ssg
Shale	Dark	Soft	3644	4684	
Sandy Shale	Dark	Hard	4684	4708	Bradford Ssg
Shale	Dark	Hard	4708	4942	
Sandy Shale	Dark	Hard	4942	4964	Riley
Shale	Dark	Soft	4964	5134	
Sandy Shale	Dark	Hard	5134	5146	Benson Ssg
Shale	Dark	Soft	5146	5431	
Sandy Shale	Dark	Hard	5431	5474	Alexander Ssg
Shale	Dark	Soft	5474	5766	
Sandy Shale EIK	Dark	Hard	5766	5778	ELK
Shale	Dark	Soft	5778	5876	
TOTAL DEPTH				5876	

5876
5146
730 ft
Exp. Ftg.

(Attach separate sheets to complete as necessary)

Carl E. Smith, Inc.
Well Operator
Thomas P. Sanders
By Thomas P. Sanders
Its Manager - Exploration & Development

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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 3
API Well No. 47 - 017 - 2366
State County Permit

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

LOCATION: Elevation: 1180 Watershed: Nutters Fork
District: West Union County: Doddridge Quadrangle: Smithburg 7.5'
Centerpoint 15'

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

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

OIL & GAS ROYALTY OWNER E. Davidson Est., et al
Address Box 185
West Union, WV 26456
Acreage '234

COAL OPERATOR None
Address

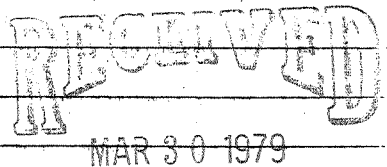
SURFACE OWNER Cleo Yeater
Address 119 Court Str.
West Union, WV 26456
Acreage 23.75

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name E. Davidson Est., etal
Address Box 185
West Union, WV 26456
Name
Address

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Str.
Clarksburg, WV 26301
Tel: (304) 622-3871



OIL & GAS DIVISION
DEPT. 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 X / dated July 22, 1960, to the undersigned well operator from Hope Natural Gas Co.

[If said deed, lease, or other contract has been recorded:]
Recorded on July 26, 1960, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Assignment Book 65 at page 191. 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 GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

CARL E. SMITH, INC.
Well Operator
By Carl Smith
Its 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 4
Sandyville, WV 25275

GEOLOGICAL TARGET FORMATION, Devonian Sands and Shale

Estimated depth of completed well, 5900 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 150 feet; salt, 1800 feet.

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

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		250 490'	250X490'	To Surface 125K	Kinds
Fresh water									
Coal									Sizes
Intermediate	7"	K55	20	X		2200	2200	125	
Production	4 1/2"	K55	10.5	X		5900	5900	250	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 12-2-79.

[Signature]
Deputy Director - Oil & Gas Division

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.

Date: , 19

By

Its