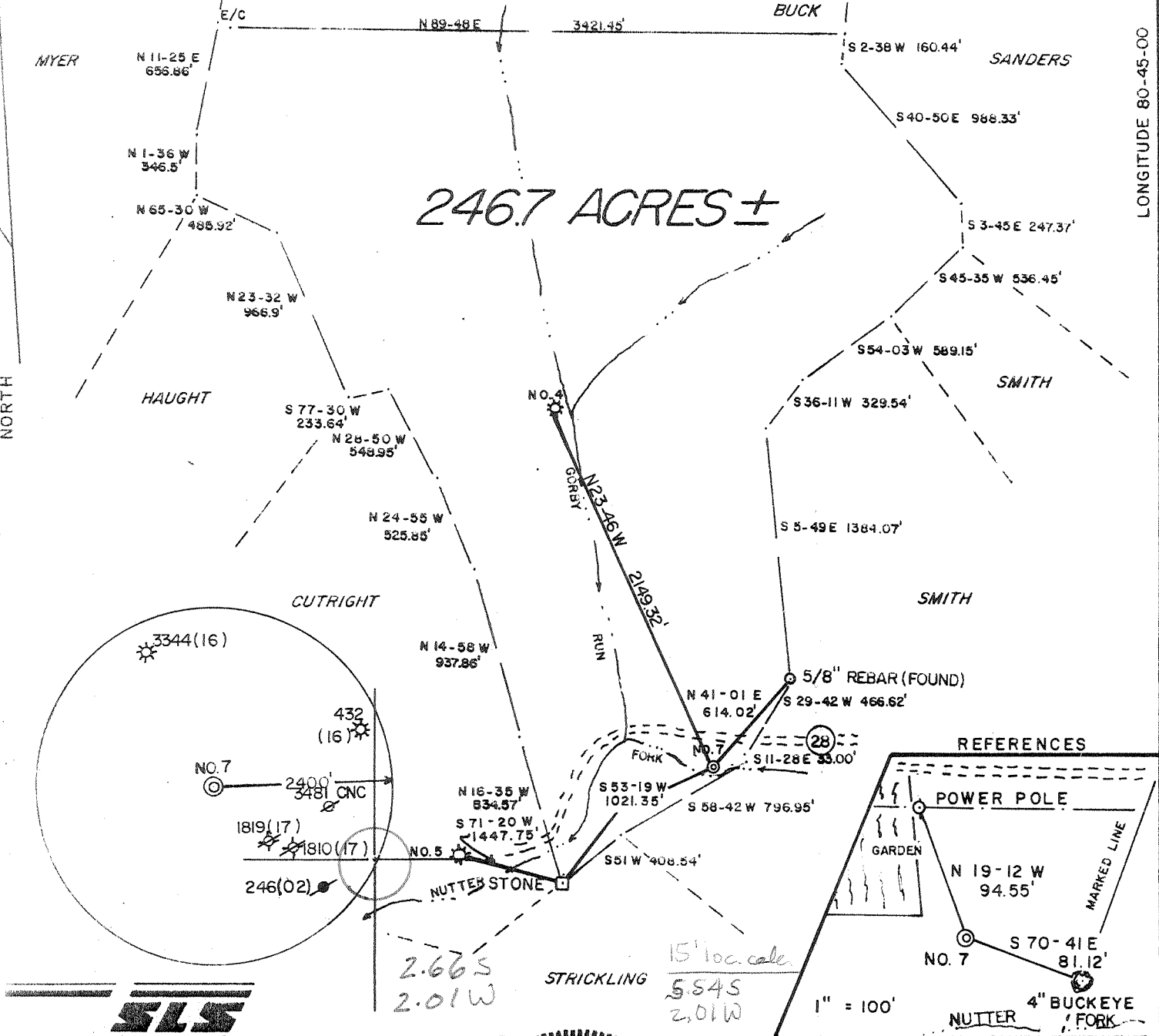


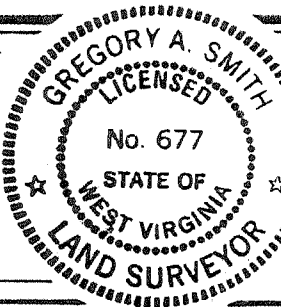
LATITUDE 39-22-30  
3925

# W. F. SMITH LEASE WELL NO. 7 360 ACRES ± TOTAL



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 ENERGY.

L.L.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE NOVEMBER 6, 19 89  
 OPERATORS WELL NO. W.F. SMITH NO. 7  
 API WELL NO. 47 - 017 - 3782  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2065 (28-63)  
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 80' SCALE 1" = 800'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 786' WATERSHED NUTTER FORK ± 15' EC  
 DISTRICT WEST UNION 8 COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'  
 SURFACE OWNER KERMIT BENSON ACREAGE 2467  
 ROYALTY OWNER W.F. SMITH HEIRS LEASE ACREAGE 2467 OF 360  
 PROPOSED WORK: LEASE NO. \_\_\_\_\_  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BENSON  
 ESTIMATED DEPTH 4800'

WELL OPERATOR QUAKER STATE CORP. DESIGNATED AGENT FRANK ROTUNDA  
 ADDRESS 1226 PUTNAM-HOWE DR. BELPRE, OHIO 45714 ADDRESS PO BOX 823 PARKERSBURG, WV. 26102

RECEIVED  
Division of Energy  
JUL 18 90  
Permitting  
Oil and Gas Section

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: BENSON, KERMIT Operator Well No.: W.F. SMITH #7

LOCATION: Elevation: 786.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE  
Latitude: 14040 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 10600 Feet West of 80 Deg. 45 Min. 0 Sec.

Company:QUAKER STATE CORPORATION

1226 PUTNAM HOWE DR. P O B 189 | Casing | Used in | Left | Cement

BELPRE, OH 45714-0000

& Tubing Size	Drilling	in Well	Fill Up Cu. Ft.
9 5/8"	180'	180'	75 sx.
7"	1021'	1021'	175 sx.
4 1/2"	4800'	4800'	120 sx.

Agent: FRANK R. ROTUNDA

Inspector: MIKE UNDERWOOD  
Permit Issued: 01/18/90  
Well work Commenced: 03/16/90  
Well work Completed: 03/25/90  
Verbal Plugging  
Permission granted on: N/A  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 4840  
Fresh water depths (ft) 60

Salt water depths (ft) 1200

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): N/A

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4702  
Gas: Initial open flow show MCF/d Oil: Initial open flow --- Bbl/d  
Final open flow 80 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

Second producing formation Riley Pay zone depth (ft) 4254  
Gas: Initial open flow show MCF/d Oil: Initial open flow --- Bbl/d  
Final open flow comm 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.

For: Frank R. Rotunda  
QUAKER STATE CORPORATION

By: Frank Rotunda, Designated Agent  
Date: May 1, 1990

JUL 20 1990

PERF: 4702' - 4706' with 17 shots, 4254' - 4296' with 22 shots

FRAC: 896 bbl. fluid, 475 sx. sand, 164M SCF<sup>3</sup>N<sub>2</sub>

192 bbl. fluid, 250 sx. sand, 456M SCF<sup>3</sup>N<sub>2</sub>

LOG:	FEET:
surface	0 - 50
shale	50 - 180
sand	180 - 220
shale	220 - 290
sand	290 - 325
silt/shale	325 - 906
sand	906 - 930
silt/shale	930 - 1200
salt sands	1200 - 1512
shale	1512 - 1667
Big Lime	1667 - 1736
Big Injun	1736 - 1863
shale	1863 - 2007
Weir	2007 - 2103
silt/shale	2103 - 4840

10090

JAN 16 1991

017-3180  
Bond 11/18/90  
Expires 11/18/92

FORM WW-2B DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Quaker State Corporation <sup>781</sup> <sup>1-20 400 (8)</sup> <sup>670</sup>
- 2) Operator's Well Number: W.F. Smith #7 3) Elevation: 786'
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Benson <sup>435</sup>
- 6) Proposed Total Depth: 4800 feet
- 7) Approximate fresh water strata depths: 100'
- 8) Approximate salt water depths: 900'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill & stimulate new well
- 12)

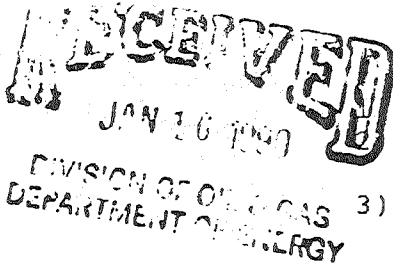
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"	H-40	42#	30'	30'	---
Fresh Water	8 5/8"	H-40	23#	1000'	1000'	C.T.S.
Coal						
Intermediate						
Production	4 1/2"	J-55	10.5#	4800'	4800'	As required by 38CR 18 11.1
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

9660  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Bond  Agent



Date: December 5, 1989  
Operator's well number  
W.F. Smith #7  
API Well No: 47 - 017 - 3782  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- |  |   |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Kermit Benson</u><br/>Address <u>Route 2</u><br/><u>West Union, WV 26456</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u><br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>N/A</u><br/>Address _____</p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u><br/>Address _____</p> |
| <p>6) Inspector <u>Harold Mike Underwood</u><br/>Address <u>Rt. 2 Box 114</u><br/><u>Salem, WV 26426</u><br/>Telephone (304)- <u>782-1043</u></p>  |   |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
XX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties, by:  
\_\_\_ Personal Service (Affidavit attached)  
\_\_\_ Certified Mail (Postmarked postal receipt attached)  
\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Quaker State Corporation  
By: Frank Rotunda *Frank Rotunda*  
Its: Designated Agent  
Address P.O. Box 823  
Parkersburg, WV 26102  
Telephone (614) 423-9543

Subscribed and sworn before me this 15th day of January, 1990

Dolores L. Branch Notary Public  
My commission expires \_\_\_\_\_  
Dolores L. Branch  
Notary Public, State Of Ohio