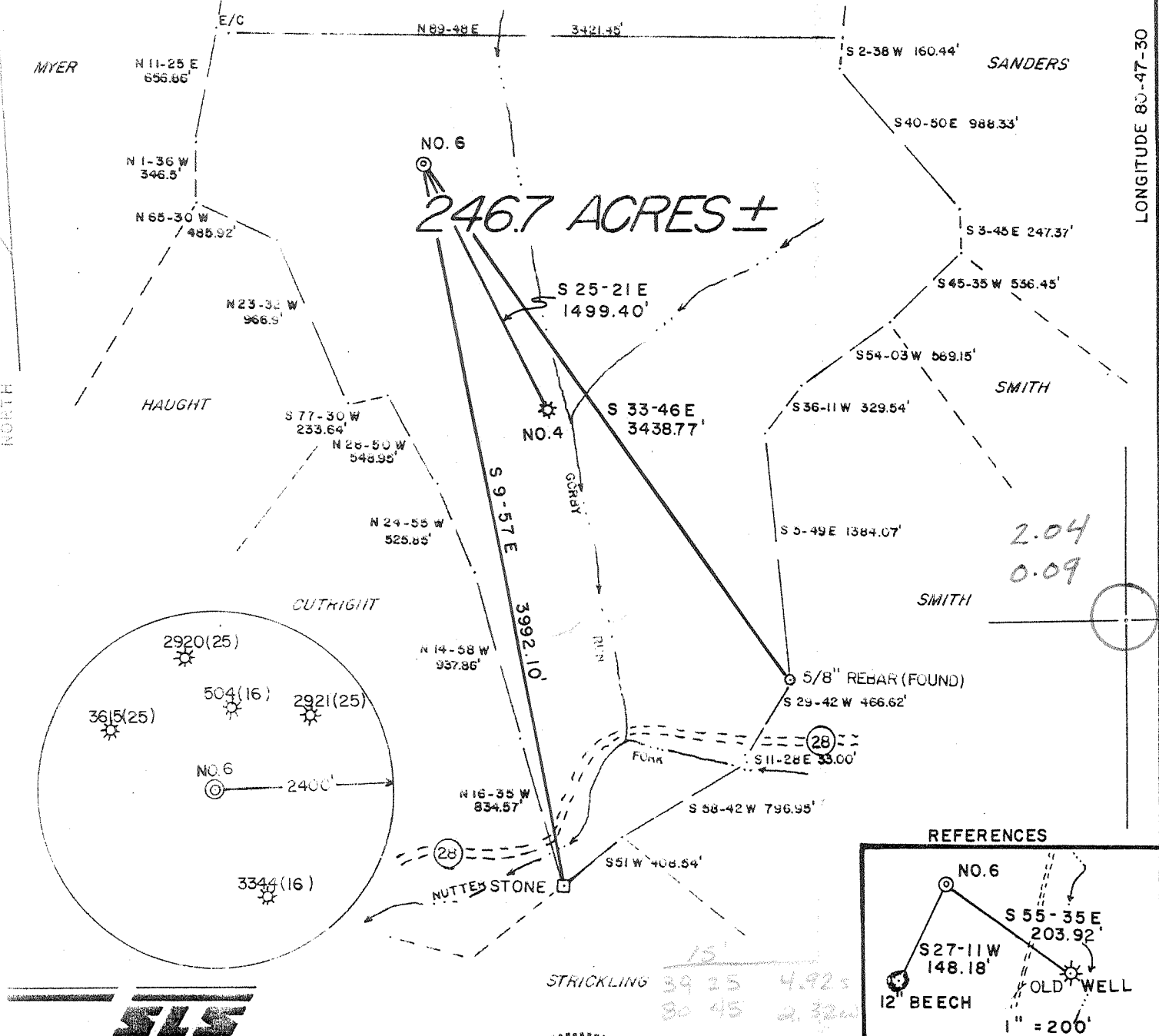


*Jemie 2/1/90*

LATITUDE 39-22-30

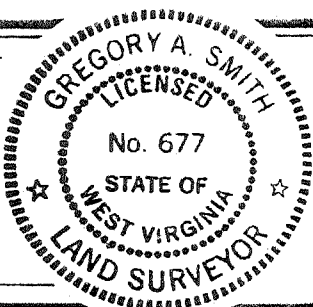
# W. F. SMITH LEASE WELL NO. 6

## 360 ACRES ± TOTAL BUCK



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. *Gregory A. Smith*  
677



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

DATE NOVEMBER 6, 19 89

OPERATORS WELL NO. W.F. SMITH NO. 6

API WELL NO. 47 - 017 - 3790  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2065 (28-63)  
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 801' 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 916' WATERSHED GORBY RUN  
DISTRICT WEST UNION 8 COUNTY DODDRIDGE QUADRANGLE WEST UNION 75'

SURFACE OWNER KERMIT BENSON ACREAGE 246.7  
ROYALTY OWNER W.F. SMITH HEIRS LEASE ACREAGE 246.7 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 4950'

WELL OPERATOR QUAKER STATE CORP. DESIGNATED AGENT FRANK ROTUNDA FEB 09 1990  
ADDRESS 1226 PUTNAM-HOWE DR. BELPRE, OHIO 45714 ADDRESS PO BOX 823 PARKERSBURG, WV. 26102

*6-6 wilbur (092)*

*721*

Well Operator's Report of Well Work

Farm name: BENSON, KERMIT Operator Well No.: W.F. SMITH #6

LOCATION: Elevation: 916.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE  
Latitude: 10770 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude: 470 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: QUAKER STATE CORPORATION

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

BELPRE, OH 45714-0000

Agent: FRANK R. ROTUNDA

Inspector: MIKE UNDERWOOD  
Permit Issued: 02/05/90  
Well work Commenced: 03/07/90  
Well work Completed: 03/15/90  
Verbal Plugging  
Permission granted on: N/A  
Rotary X Cable Rig  
Total Depth (feet) 4950  
Fresh water depths (ft) 85  
Salt water depths (ft) 1320

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

& Tubing Size	Drilling	in Well	Fill Up Cu. Ft.
9 5/8"	222'	222'	C.T.S.
7"	1122'	1122'	C.T.S.
4 1/2"	4919'	4919'	120 sx.

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4839  
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) 4393  
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.

RECEIVED

Division of Energy

JUN 25 90

Permitting  
Oil and Gas Section

For: Frank R. Rotunda  
QUAKER STATE CORPORATION

By: Frank Rotunda  
Date: May 1, 1990

JUN 29 1990

Perf: 4839' - 4844', with 21 shots  
Frac: 900 bbl. fluid, 475 sx. sand, 155M SCF N2

Perf: 4393' - 4434' with 19 shots  
Frac: 200 bbl. fluid, 250 sx. sand, 467 M SCF N2

LOG:	surface	FEET:	0 - 30
	shale		30 - 300
	sand		300 - 380
	shale		380 - 430
	sand		430 - 470
	silt/shale		470 - 1320
	salt sands		1320 - 1604
	shale		1604 - 1678
	silt/shale		1678 - 1774
	Bit Lime		1774 - 1852
	Big Injun		1852 - 1966
	shale		1966 - 2121
	Weir		2121 - 2219
	silt/shale		2219 - 4950

2 2 S  
1966

JAN 30 1990

017 3790  
 Issued 2/05/90  
 Expires 2/05/92  
 Page 5 of 10

FORM WW-2B

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: Quaker State Corporation <sup>771</sup> 40400 (8) 670
- 2) Operator's Well Number: W.F. Smith #6 3) Elevation: 916'
- 4) Well type: (a) Oil   / or Gas XX/  
 (b) If Gas: Production XX/ Underground Storage   /  
 Deep   / Shallow   /
- 5) Proposed Target Formation(s): Benson 235
- 6) Proposed Total Depth: 4950 feet
- 7) Approximate fresh water strata depths: 150
- 8) Approximate salt water depths: 990
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes   / No XX/
- 11) Proposed Well Work: Drill and 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	60	5 Joints	
Fresh Water	8 5/8"	H-40	23	1090	1116-MAX 1090	C.T.S.
Coal					As per M&I Request	
Intermediate						
Production	4 1/2"	J-55	10.5	4950	4950	As required by 38CR 18 11.1
Tubing						
Liners						

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

For Division of Oil and Gas Use Only

19683  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond 50 Surety  Agent  
 (Type)

**RECEIVED**  
JAN 30 1990

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date: December 5, 1989  
Operator's well number  
W.F. Smith #6  
API Well No: 47 - 017 - 3790  
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>Route 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  
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, State Of Ohio  
My commission expires \_\_\_\_\_  
Dolores L. Branch Notary Public  
My Commission Expires March 14, 1990