

Well Operator's Report of Well Work

Farm name: BENSON, KERMIT Operator Well No.: W.F. SMITH #8

LOCATION: Elevation: 1022.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE
Latitude: 11170 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10060 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

Agent: FRANK R. ROTUNDA

Inspector: MIKE UNDERWOOD

Permit Issued: 01/18/90

Well work Commenced: 02/26/90

Well work Completed: 03/06/90

Verbal Plugging

Permission granted on: N/A

Rotary X Cable Rig

Total Depth (feet) 5072

Fresh water depths (ft) 185

Salt water depths (ft) 900

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"	397'	397'	C.T.S.
7"	1175'	1175'	C.T.S.
4 1/2"	5052'	5052'	120 sx.

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4948
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 --- Pay zone depth (ft) ---
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 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.

JUN 25 90
Permitting
Oil and Gas Section

For: Frank R. Rotunda
QUAKER STATE CORPORATION

By: Frank Rotunda
Date: May 2, 1990

PERF: 4948' - 4952' with 17 shots
FRAC: 895 bbl. fluid, 475 sx. sand, 153M SCF N2

LOG:	FEET:
surface	0 - 90
shale	90 - 183
sand	183 - 210
silt/shale	210 - 310
sand	310 - 410
shale	410 - 450
sand	450 - 490
shale	490 - 535
sand	535 - 582
shale	582 - 630
sand	630 - 665
shale	665 - 900
sand	900 - 927
shale	927 - 1140
sand	1140 - 1182
shale	1182 - 1436
sand	1436 - 1710
silt/shale	1710 - 1902
lime	1902 - 1996
Big Injun	1996 - 2094
shale	2094 - 2240
Weir	2240 - 2330
silt/shale	2330 - 5072

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Expires 11/18/92

FORM WW-2B

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

- 1) Well Operator: Quaker State Corporation 40400 (S) 670
- 2) Operator's Well Number: W.F. Smith #8 3) Elevation: 1022'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Benson - 25
- 6) Proposed Total Depth: 5056' feet
- 7) Approximate fresh water strata depths: 335'
- 8) Approximate salt water depths: 1134'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and fracture new well.
- 12)

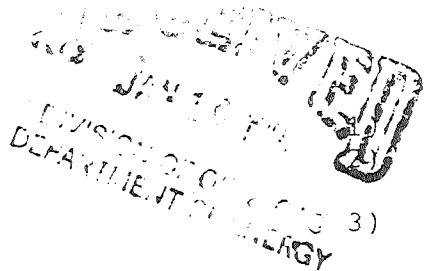
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	11 3/4"	H-40	42#	60'	60'	C.T.S.
Fresh Water	8 5/8"	H-40	23#	1250'	1250'	C.T.S.
Coal						
Intermediate						
Production	4 1/2"	J-55	10.5#	5100	5100	As required by 38CR 18 11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

1966/1
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50 Surety Agent
 (Type)



Date: December 6, 1989
Operator's well number
W.F. Smith #8
API Well No: 47 - 017 - 3783
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>
Address <u>Route 2</u>
<u>West Union, WV 26456</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>N/A</u>
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>N/A</u>
Address _____</p> |
| <p>6) Inspector <u>Harold Mike Underwood</u>
Address <u>Rt. 2 Box 114</u>
<u>Salem, WV 26426</u>
Telephone <u>(304)-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