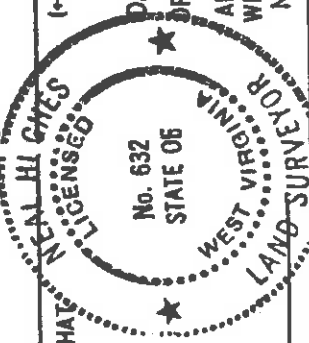


REFERENCE POINTS

I THE UNDERSIGNED, DO 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. *[Signature]*
632



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE NOVEMBER 3 19 96
OPERATORS WELL NO. JML SMITH I

API WELL NO. 47-017-0432
STATE WEST VIRGINIA COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-88 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION
 PROVEN SOURCE OF ELEVATION KNOB 1268' SCALE 1" = 500'

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 'GAS' PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1125' WATERSHED ARNOLDS CREEK
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
 SURFACE OWNER C. BURKE MORRIS + S.A. SMITH HEIRS ACREAGE 102.5
 ROYALTY OWNER C. BURKE MORRIS + S.A. SMITH HEIRS LEASE ACREAGE 103
 PROPOSED WORK:
 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 ALEXANDER
 ESTIMATED DEPTH 5600'

WELL OPERATOR JAN CHAPMAN DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA
WESTON, WV 26452 WESTON, WV 26452

6691

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: SMITH, S.A., ETAL

Operator Well No. : JML SMITH 1

LOCATION: Elevation: 1,125.00

Quadrangle: WEST UNION

District: CENTRAL
Latitude: 10600 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 7300 Feet West of 80 Deg. 47 Min. 30 Sec.

County: DODDRIDGE
Permitting
Office of Oil & Gas

Company: KEY OIL COMPANY
22 Garton Plaza
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 11/22/96
Well Work Commenced: 12/21/96
Well Work Completed: 1/7/97

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5513'
Fresh water depths (ft) NONE
Salt water depths (ft) 270'

Is coal being mined in area (Y / N) ? N
Coal Depths (ft) : None Reported

OPEN FLOW DATA

Balltown
Rileys
Benson

Producing formation Alexander
Gas: Initial open flow 5 MCF / d
Final open flow 1,508 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1650 psig (surface pressure) after 96 Hours

4008' - 4354'
4586' - 4993'
5040' - 5050'
5289' - 5386'

Pay zone depth (ft)
Oil: Initial open flow 0 Bbl / d
Oil: Final open flow show Bbl / d
Hours

Second producing formation Commingled
Gas: Initial open flow _____ MCF / d
Final open flow _____ MCF / d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours

Pay zone depth (ft)
Oil: Initial open flow _____ Bbl / d
Oil: Final open flow _____ Bbl / d
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: KEY OIL COMPANY

By: 
Date: 4-22-97

MAY 28 1997

PRESIDENT

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	1148	1148	300 sks To Surface
4 1/2"	5409	5409	390 sks
2 3/8"		5306	

JML Smith #1 (47-017-04321)
Four Stage Foam Frac - Halliburton

1st Stage: Alexander (10 holes) (5326' - 5358.25') 60 Quality Foam. 500 gal. 15% HCL.
60,000# 20/40 sand, 550,000 SCF N2,
813 bbis foam.

2nd Stage: Benson (2 holes) (5043.75' - 5044') 60 Quality Foam. 750 gal 15% HCL.
Third Riley (8 holes) (4959.5' - 4979.75') 40,000# 20/40 sand, 417,000 SCF N2,
618 bbis foam.

3rd Stage: Riley (10 holes) (4608.25' - 4628.5') 60 Quality Foam. 750 gal 15% HCL.
10,000# 80/100 sand, 35,000# 20/40 sand,
438,000 SCF N2, 648 bbis foam.

4th Stage: Balltown (11 holes) (4011.75' - 4230.25') 60 Quality Foam, 750 gal 15% HCL.
5,000# 80/100 sand, 35,000# 20/40 sand,
390,000 SCF N2, 589 bbis foam.

WELL LOG

Clay	0	14	
Shale & Red Rock	14	80	
Sand & Shale	80	373	1" H ₂ O @ 270'
Red Rock	373	470	
Sand & Shale & Red Rock	470	785	
Sand & Shale	785	1075	
Red Rock	1075	1172	
Shale	1172	1235	
Sand & Shale	1235	2025	
Little Lime	2025	2070	
Big Lime	2070	2115	
Big Injun	2115	2198	
Poccono	2198	2234	
Shale	2234	2356	
Weir	2356	2469	
Shale	2469	2554	
Berea	2554	2562	
Sand & Shale	2562	2760	
Gordon	2760	2802	
Shale	2802	3438	
Warren	3438	3490	
Shale	3490	3498	
Speechley	3498	3616	
Shale	3616	4008	
Balltown	4008	4354	
Shale	4354	4586	
Riley	4586	4660	
Shale	4660	4952	
3 rd Riley	4952	4993	
Shale	4993	5040	
Benson	5040	5050	
Sand & Shale	5050	5289	
Alexander	5289	5386	
Sand & Shale	5386	5513	
T.D.	5513		

Gas Checks

1958' No Show
2519' No Show
3019' No Show
3707' No Show
4018' No Show
4829' 2/10^{ths} 1/2" w/ H₂O
5000' 2/10^{ths} 1/2" w/ H₂O
TD 2/10^{ths} 1/2" w/ H₂O

Well Operator: KEY OIL COMPANY 475 25655 0 671
 Operator's Well Number: JML SMITH #1 3) Elevation: 1125'
 Well type: (a) Oil X / or Gas X / API 47-017-4321

(b) If Gas: Production X / Underground Storage 1 /
 Deep 1 / Shallow X /
 439

Proposed Target Formation(s): ALEXANDER
 Proposed Total Depth: 5600 feet
 Approximate fresh water strata depths: 100'
 Approximate salt water depths: -0-
 Approximate coal seam depths: N/A

8) Does land contain coal seams tributary to active mine? Yes 1 / No X /
 9) Proposed Well Work: DRILL. STIMULATE. PRODUCE New Well

RECEIVED
 Environmental Protection
 NOV 06 1996
 Office of Oil & Gas Permitting

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	ERW	42	40	0	386818-11.3
Fresh Water	8 5/8	ERW	23	1125	1125	305 SKS. TO SURFACE
Coal						386818-11.2.2
Intermediate						
Production	4 1/2	J-55	10.5		5500	450 SKS.
Tubing	1.5					386818-11.1
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths sec _____

For Office of Oil and Gas Use Only
 Fee(s) paid: 1 Well Work Permit 1 Reclamation Fund 1 WPC2
1 Bond 1 Blanket Agent
 -Plac 1 WW-3 1 WW-25 1 Bond 1 (Type) 1

RECEIVED
WV Division of
Environmental Protection
NOV 06 1996

1) Date: NOVEMBER 5, 1996
2) Operator's well number JML SMITH #1
3) API Well No: 47 - 017 - A321
State County Permit

Permitting
STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator: Name NONE

(a) Name BANK ONE WV TRUST DEPT. Address TRUSTEE FOR S. A. SMITH/C, BURKE
P.O. BOX 2330
CLARKSBURG, WV 26302

(b) Name _____ Address _____

(c) Name _____ Address _____

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration Name _____ Address _____
Address RI 2 BOX 135 Name _____ Address _____
SALEM, WV 26426 Telephone (304) - 782-1043

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

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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 22-6 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 KEY OIL COMPANY

By: [Signature] PRESIDENT

Its: _____ Address 22 GARTON PLAZA
WESTON, WV 26452

Telephone 304-269-7102

Subscribed and sworn before me this 5TH day of NOVEMBER, 1996

My commission expires MARCH 24, 2003

OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
KAREN COOK Notary Public
ROUTE 2, BOX 1
LANE LEW, WV 26378
My Commission Expires Mar. 24, 2003