

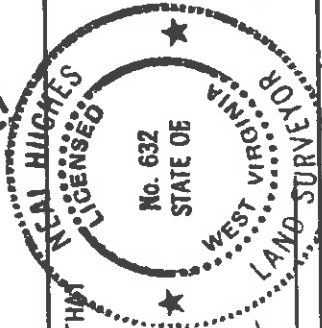
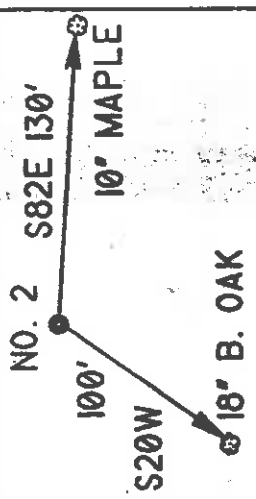
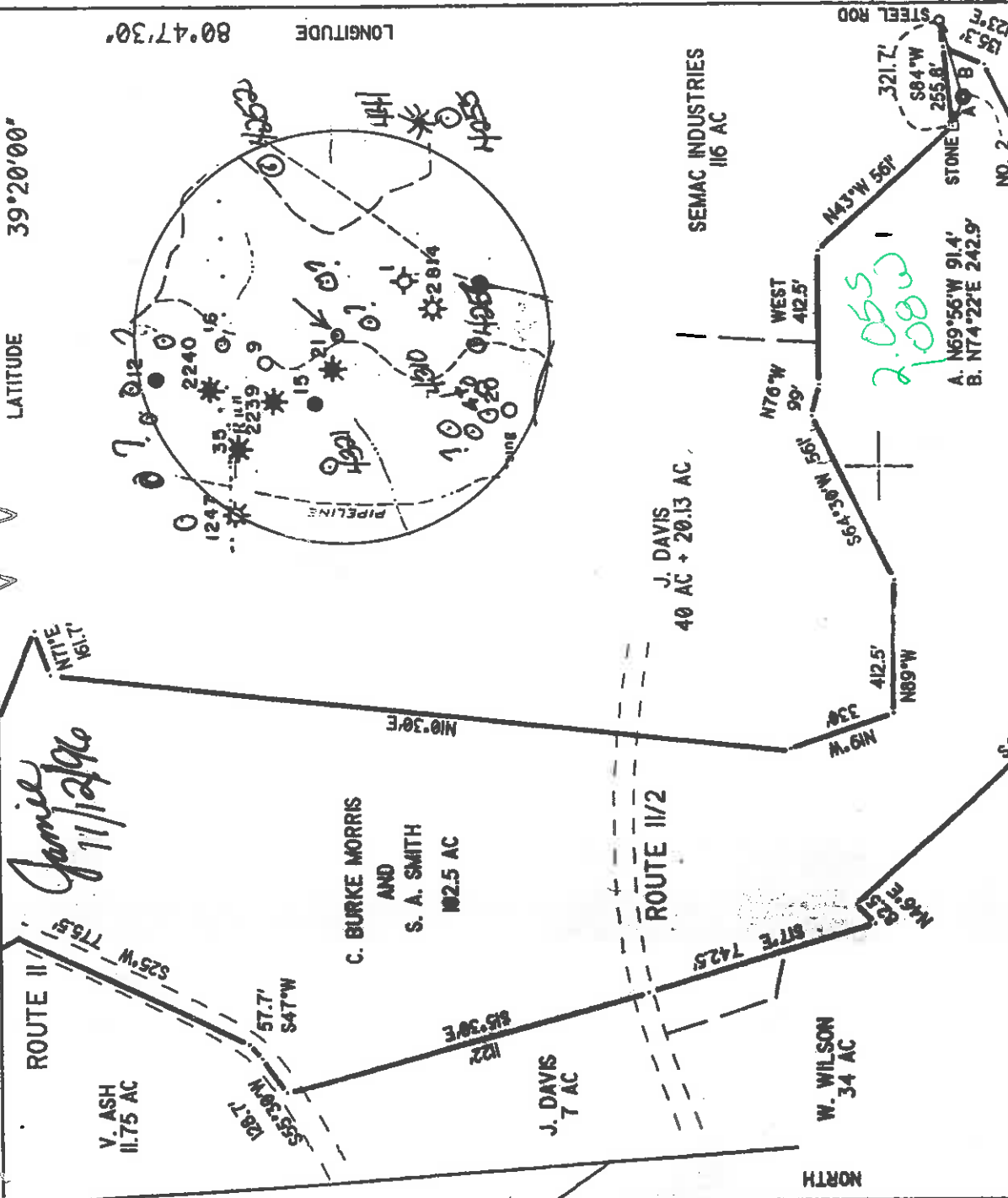
LATITUDE 39°20'00"

5,700'

LONGITUDE 80°47'30"

10,750'

Jamie
11/12/96



I DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE NOVEMBER 3 19 96

OPERATORS WELL NO. JML SMITH 2

API WELL NO. 47 - 017-04322

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION KNOB 1268'

SCALE 1" = 500'

FILE NO. 96-88

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 1265'

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) _____ ESTIMATED DEPTH 5600'

TARGET FORMATION ALEXANDER

WELL OPERATOR ADDRESS 22 GARTON PLAZA WESTON, WV 26452

KEY OIL COMPANY 445

DESIGNATED AGENT JAN CHAPMAN 22 GARTON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT

6-6-89

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

[Signature]
Encl. 1
Location
1997

Well Operator's Report of Well Work

Farm name: SMITH, S.A., ETAL

Operator Well No. : JML SMITH 2

LOCATION: Elevation: 1,265.00

Quadrangle: WEST UNION

Permitting
Office of Oil & Gas

District: CENTRAL
Latitude: 10750 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 5700 Feet West of 80 Deg. 47 Min. 30 Sec.

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: 12/15/96
Well Work Completed: 12/26/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5663'
Fresh water depths (ft) NONE
Salt water depths (ft) 928', 1990'

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

OPEN FLOW DATA

Balltown
Riley
Benson
Producing formation Alexander
Gas: Initial open flow 60 MCF / d Pay zone depth (ft) 3945' - 4490'
Final open flow 1,476 MCF / d Oil: Initial open flow 0 Bbl / d 4732' - 4808'
Time of open flow between initial and final tests N/A Oil: Final open flow show Bbl / d 5186' - 5202'
Static rock pressure 1800 psig (surface pressure) after 96 Hours 5436' - 5526'

Second producing formation Commingled Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF / d Oil: Initial open flow _____ Bbl / d
Final open flow _____ MCF / d Oil: 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: KEY OIL COMPANY

By: *[Signature]*
Date: 4-22-97

PRESIDENT MAY 2 1997

[Signature]

JML Smith # 2 (47-017-04322)
 Three Stage Foam Frac - Halliburton

1st Stage: Alexander (13 holes) (5476.25' - 5514') 60 Quality Foam. 500 gal. 15% HCL.
 60,000# 20/40 sand, 550,000 SCF N2,
 816 bbis foam.

2nd Stage: Benson (10 holes) (5194' - 5196.25') 60 Quality Foam. 750 gal 15% HCL.
 40,000# 20/40 sand, 417,000 SCF N2,
 620 bbis foam.

3rd Stage: Riley (8holes) (4774.25' - 4797.25') 60 Quality Foam. 1000 gal 15% HCL.
 Balltown (3 holes) (4375.5' - 4376') 5,000# 80/100 sand, 35,000# 20/40 sand,
 438,000 SCF N2, 589 bbis foam.

WELL LOG

Clay	0	20	
Red Rock	20	35	
Sand & Shale	35	327	
Red Rock	327	350	
Shale & Red Rock	350	504	
Shale	504	928	
Sand & Shale	928	1032	½ H ² O @ 933'
Shale	1032	1970	
Sand (Maxon)	1970	2004	Damp @ 1990'
Shale	2004	2132	
Red Rock & Shale	2132	2158	
Little Lime	2158	2190	
Shale	2190	2198	
Big Lime	2198	2253	
Big Injun	2253	2302	
Pocorno	2302	2374	
Shale	2374	2499	
Weir	2499	2611	
Shale	2611	2697	
Berea	2697	2708	
Sand & Shale	2708	2904	
Gordon	2904	2948	
Shale	2948	3366	
Warren	3366	3630	
Shale	3630	3644	
Speechley	3644	3756	
Shale	3756	3945	
Balltown	3945	4490	
Shale	4490	4732	
Riley	4732	4808	
Shale	4808	5186	
Benson	5186	5202	
Sand & Shale	5202	5436	
Alexander	5436	5526	
Sand & Shale	5526	5663	
T. D.	5663		

Gas Checks

2549' "Strange Odor"
 3019' 2/10^{ths} 2" w/ H²O
 5130' 2/10^{ths} 2" w/ H²O
 TD 2/10^{ths} 2" w/ H²O

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

Well Operator: KEY OIL COMPANY ⁴⁷⁵ 28655 ① 671
 Operator's Well Number: JML SMITH #2 3) Elevation: 1265'

Well type: (a) Oil X / or Gas X / Oil 117-017-4322

(b) If Gas: Production X / Undergound Storage 1 /
 Deep 1 / Shallow X
 Proposed Target Formation(s): ALEXANDER ⁴³⁴ James 1122196 NOV 06 1996
 Environmental Protection

RECEIVED
 WV Division of
 Environmental Protection

Proposed Total Depth: 5600 feet
 Approximate fresh water strata depths: 110' Permittng
 Approximate salt water depths: -0- Office of Oil & Gas

1) Approximate coal seam depths: N/A
 2) Does land contain coal seams tributary to active mine? Yes 1 / No X /
 1) Proposed Well Work: DRILL. STIMULATE. PRODUCE, Flow Well

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	LEFT IN WELL	FILL-UP (cu. ft.)
Conductor	11 3/4	ERW	42	40	0	3958/11.3
Fresh Water	8 5/8	ERW	23	1265	1265	345 SKS. TO SURFACE
Coal						3958/11.3
Intermediate						
Production	4 1/2	J-55	10.5	5500	5500	450 SKS.
Tubing	1.5					3958/11.3
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

8/23/96
 Fee(s) paid: _____
 Plat: _____
 FOR Office of Oil and Gas Use Only
 Well Work Permit _____ Reclamation Fund _____ WPC2
 Bond _____
 Agent _____ (Type)

RECEIVED
WV Division of
Environmental Protection

NOV 06 1996

Permitting
Office of Oil & Gas

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

1) Date: NOVEMBER 5, 1996
2) Operator's well number JML SMITH #2
3) API Well No: 47 - 017 - 4322
State County Permit

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

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

(a) Name BANK ONE, WV TRUST DEPT. Name
Address TRUSTEE FOR S. A. SMITH/C. BURKE M Address
P.O. BOX 2339
CLARKSBURG, WV 26302

(b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name
Address _____

(c) Name _____ Name
Address _____ Address

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration
Address RT. 2 BOX 135 Name
SALEM, WV 26426 Address
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. 22 GARTON PLAZA
Address WESTON, WV 26452

Telephone 304-269-7102

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

[Signature] Public
My commission expires MARCH 24, 2003



OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
KAREN COOK, Notary
ROUTE 2, BOX 1
BANE LENO, WV 26379
My Commission Expires Mar. 24, 2003