

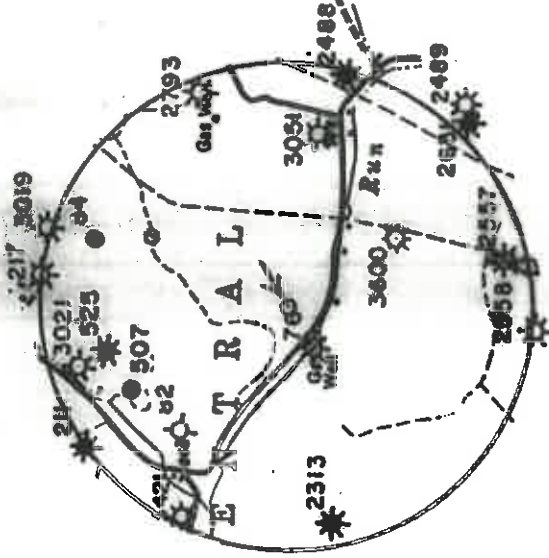
6,200'

LATITUDE 39°15'00"

LONGITUDE 80°50'00"

6,300'

LONGITUDE



C. LLOYD
40.83 AC.

N81°E 1252.3'

5/8" STEEL ROD

STONE

369.86'

N42°30'E 704.3'

R. MILEY
34.62 AC.

S84°E 1095.6'

N13°5'E 1534.2'

N25°20'E 1712.1'

S14°W
2048.6'

C. AXTON
10.12 AC.

ROUTE 21

CABIN

REFERENCE POINTS

14' B. OAKS

N48E
150'

N88E
88'

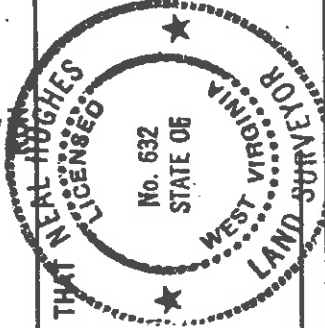
18' ASPEN

NO. 2

NO. 2

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. *Neal Hughes*
632



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

DATE JULY 5 19 96

OPERATORS WELL NO. S. SMITH 2

API WELL NO. 47 - 017 - 04246 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-52
PROVEN SOURCE OF ELEVATION KNOB 1243' SCALE 1" = 500'

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 945' DISTRICT CENTRAL COUNTY DODDRIDGE WATERSHED CABIN RUN

SURFACE OWNER LOREN PRimm QUADRANGLE OXFORD ACREAGE 94.77

ROYALTY OWNER SYLVESTER SMITH HEIRS LEASE ACREAGE 210

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' PERMIT

WELL OPERATOR KEY OIL COMPANY
ADDRESS 22 GARTON PLAZA 413 WESTON, WY 26452

DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA 6-6 133 WESTON, WY 26452

DODDRIDGE

COUNTY NAME

PERMIT

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

FEB 13 1997

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: PRIMM, LOREN

Operator Well No. : Sylvest Smith 2

LOCATION: Elevation: 945

Quadrangle: OXFORD

District: CENTRAL County: DODDRIDGE
Latitude: 6300 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 6200 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: KEY OIL COMPANY
22 GARTON PLAZA
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD

Permit issued: 08/20/96

Well Work Commenced: 09/10/96

Well Work Completed: 09/26/96

Verbal Plugging

Permission granted on: _____ Rig

Rotary X Cable _____ 5330'

Total Depth (feet) _____ 80'

Fresh water depths (ft) _____ 400'

Salt water depths (ft) _____ 1139'

Is coal being mined in area (Y/N)? N

Coal Depths (ft): None Reported

Casing & Tubing Size	Used In Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	125.60'	125.60'	70 sks To surface
8 5/8"	1906.65'	1906.65'	560 sks To surface
4 1/2"	5243'	5243'	380 sks
2 3/8"		5043'	

OPEN FLOW DATA

Speechley
Balltown
Riley
Benson

3450' - 3468'
3684' - 4383'
4426' - 4818'
4864' - 4874'
5105' - 5196'

Producing formation Alexander Pay zone depth (ft) _____
Gas: Initial open flow 30 MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,617 MCF / d Oil: Final open flow show Bbl / d
Time of open flow between initial and final tests N/A Hours
Static rock pressure 1600 psig (surface pressure) after 96 Hours

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 PERFORMED 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



President FEB 14 1997

Date: JANUARY 22, 1997

Sylvester Smith #2 (47-017-04296)
 Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (10 holes) (5135.75' - 5182.25') Elk (2 holes) (5063.25' - 5063.5')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 808 bbis foam.	
2nd Stage:	Benson (5 holes) (4866.5' - 4867.5') Third Riley (2 holes) (4803' - 4803.25') Second Riley (5 holes) (4696' - 4715.75')	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 428,000 SCF N2, 565 bbis foam.	
3rd Stage:	Riley (7 holes) (4453.50' - 4484.25') Balltown (5 holes) (4069.5' - 4242.75')	60 Quality Foam. 1000 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 545 bbis foam.	
4th Stage:	Balltown (9 holes) (3718.50' - 3867.5') Speechley (2 holes) (3454.75' - 3455')	60 Quality Foam, 1,000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 589 bbis foam.	
WELL LOG			
Fill	0	5	
Sand & Shale	5	193	H2O @ 80'
Lime	193	196	
Sand & Lime	196	208	
Red Rock	208	220	
Red Rock & Sand & Shale	220	335	
Lime	335	410	Damp @ 400'
Sand & Shale & Red Rock	410	1303	Damp @ 1139'
Sand	1303	1366	
Sand & Shale	1366	1452	
White Sand	1452	1487	
Sand & Shale	1487	1784	
Maxon	1784	1820	
Sand & Shale	1820	1885	
Little Lime	1885	1906	
Shell	1906	1910	
Big Lime	1910	1976	
Big Injun	1976	2046	
Shale	2046	2212	
Weir	2212	2340	
Shale	2340	2403	
Berea	2403	2408	
Sand & Shale	2408	3265	
Warren	3265	3338	
Shale	3338	3348	
Speechley	3348	3468	
Shale	3468	3684	
Balltown	3684	4383	
Shale	4383	4426	
Riley	4426	4498	
Shale	4498	4692	
2nd Riley	4692	4720	
Shale	4720	4784	
3rd Riley	4784	4818	
Shale	4818	4864	
Benson	4864	4874	
Sand & Shale	4874	5056	
Elk	5056	5068	
Shale	5068	5105	
Alexander	5105	5196	
Sand & Shale	5196	5330	
T.D.	5330		

Gas Checks
 2501 10/10 - 1/2" w/ H2O
 3027 8/10 - 1" w/ H2O
 3525 4/10 - 1" w/ H2O
 4077 12/10 - 1" w/ H2O
 4606 12/10 - 1" w/ H2O
 5008 2/10 - 1" w/ H2O
 TD. 20/10 - 1" w/ H2O
 Collars- 8/10 - 1" w/ H2O

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

1) Well Operator: KEY OIL COMPANY ⁴⁷⁵ 25655 ① 526

2) Operator's Well Number: SYLVESTER SMITH #2 3) Elevation: 945'

4) Well type: (a) Oil X / or Gas X /
 (b) If Gas: Production X / Underground Storage /
 Deep / / Shallow RECEIVED

Proposed Target Formation(s): ALEXANDER
 Proposed Total Depth: 5400 feet
 Issued 08/20/96
 Expires 08/20/98

RECEIVED
 WV Division of
 Environmental Protection
 AUG 19 1996

Approximate fresh water strata depths: 65
 Approximate salt water depths: 1277, 1834
 Permitting
 Office of Oil & Gas

9) Approximate coal seam depths: N/A

10) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: DRILL, STIMULATE, PRODUCE

12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	INTERVALS	CEMENT
Conductor	11 3/4	ERW	42	42	0	
Fresh Water	8 5/8	ERW	23	945	945	255 SKS. TO SURFACE
Coal						
Intermediate						
Production	4 1/2	J-55	10.5	5300	5300	450 SKS.
Tubing	1.5					
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Office of Oil and Gas Use Only
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond _____ (Type)

22419

1) Date: AUGUST 6, 1996
2) Operator's well number SYLVESTER SMITH #2
3) API Well No: 47 - 017 - 4296
State _____ County _____ Permit _____

**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:

(a) Name LOREN PRIMM 5) (a) Coal Operator:
Address HC 67, BOX 42 Name NONE
HUNDRED, WV 26575 Address _____

(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
X 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:
X 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]
It is: PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102

Subscribed and sworn before me this 6TH day of AUGUST, 19 96

My commission expires MARCH 24, 2003

[Signature]
Karen Cook

