

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.

P.S. *Gregory A. Smith*  
677

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3538P1 (52-65)  
PROVEN SOURCE OF ELEVATION SCALE 1" = 500'  
BENCH MARK ELEVATION 849'

WELL TYPE : OIL  GAS  INJECTION  WASTE  DISPOSAL  "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION : ELEVATION 994' IF  
DISTRICT CENTRAL WATERSHED WILHELM RUN  
COUNTY DODDRIDGE

SURFACE OWNER DOLLY & JOSEPH KOZLOWSKI  
ROYALTY OWNER ROBERT K. AND SANDRA K. LEWIS ET AL.

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 5500'

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

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE MARCH 17, 19 97  
OPERATORS WELL NO. LEWIS # 1  
WELL NO. 47 STATE COUNTY PERMIT NO. 017-04361

WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
#10 MCJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506

COUNTY NAME WEST UNION 7.5'  
ACREAGE 30  
LEASE ACREAGE 30  
LEASE NO. *New deal*  
TARGET FORMATION ALEXANDER  
ESTIMATED DEPTH 5500'

PERMIT  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452

16-6 89

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

Oct 11 1997

Permitting  
Section of Oil & Gas  
Well Operator's Report of Well Work

Farm name: KOZLOWSKI, DOLLY & J.

Operator Well No.: LEWIS #1

LOCATION: Elevation: 994.00

Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE  
Latitude: 5690 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude: 3080 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: 04/28/97

Well Work Commenced: 05/04/97

Well Work Completed: 05/16/97

Verbal Plugging

Permission granted on: \_\_\_\_\_ Rig

Rotary X Cable \_\_\_\_\_ 5401

Total Depth (feet) \_\_\_\_\_

Fresh water depths (ft) None

Salt water depths (ft) 75', 580', 1600'

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

Coal Depths (ft): None Reported

OPEN FLOW DATA

Warren  
Balltown  
Rileys  
Benson

3343' - 3412'  
3765' - 4442'  
4490' - 4888'  
4926' - 4941'  
5176' - 5262'

Producing formation Alexander

Gas: Initial open flow 0 MCF / d

Final open flow 1.617 MCF / d

Time of open flow between initial and final tests N/A

Static rock pressure 1750 psig ( surface pressure ) after 96 Hours

Pay zone depth ( ft )

Oil: Initial open flow 0 Bbl / d

Oil: Final open flow show Bbl / d

Hours

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

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

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.

OCT 17 1997

For: KEY OIL COMPANY

By: 

PRESIDENT

Date: OCTOBER 13, 1997

Lewis #1 (47-017-04361)  
Four Stage Foam Frac - Halliburton

1st Stage: Alexander ( 11 holes ) ( 5222' to 5249.5' ) 60 Quality Foam, 500 gal. 15% HCL, 60,000# 20/40 sand, 550,000 SCF N2, 811 bbis foam.

2nd Stage: Benson ( 3 holes ) ( 4937.25' to 4937.75' ) 60 Quality Foam, 750 gal 15% HCL, Third Riley ( 7 holes ) ( 4857.5' to 4877.5' ) 40,000# 20/40 sand, 417,000 SCF N2, Second Riley ( 3 holes ) ( 4781.75' to 4782.25' ) 616 bbis foam.

3rd Stage: Riley ( 8 holes ) ( 4515.5' to 4533.5' ) 60 Quality Foam, 1000 gal 15% HCL, Balltown ( 6 holes ) ( 4309.25' to 4437.75' ) 5,000# 80/100 sand, 35,000# 20/40 sand, 438,000 SCF N2, 647 bbis foam.

4th Stage: Balltown ( 7 holes ) ( 3788.25' to 3946.25' ) 60 Quality Foam, 1,000 gal 15% HCL, Warren ( 5 holes ) ( 3378' to 3393.5' ) 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 638 bbis foam.

WELL LOG

Fill & clay	0	20	
Sand & Shale	20	82	1" H <sub>2</sub> O @ 75'
Red Rock	82	126	
Red Rock & Sand & Shale	126	586	2" H <sub>2</sub> O @ 580'
Shale & Sand	586	937	1" H <sub>2</sub> O @1600'
Sand & Shale & Red Rock	937	1750	
Sand	1750	1804	
Sand & Shale	1804	1963	
Little Lime	1963	1982	
Shale	1982	1995	
Big Lime	1995	2054	<u>Gas Checks</u>
Big Injun	2054	2126	1923' No Show
Shale	2126	2284	2511' No Show
Weir	2284	2409	3007' No Show
Shale	2409	2480	3615' No Show
Berea	2480	2495	4010' No Show
Sand & Shale	2495	3343	4720' No Show
Warren	3343	3412	5092' No Show
Shale	3412	3765	
Balltown	3765	4442	
Shale & Sand	4442	4490	
Riley	4490	4560	
Shale	4560	4756	
2 <sup>nd</sup> Riley	4756	4797	
Shale	4797	4850	
3 <sup>rd</sup> Riley	4850	4888	
Shale	4888	4926	
Benson	4926	4941	
Sand & Shale	4941	5176	
Alexander	5176	5262	
Sand & Shale	5262	5401	
T.D.	5401		

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

Well Operator: KEY OIL COMPANY  
 Operator's Well Number: LEWIS #1 3) Elevation: 994'

Well type: (a) Oil X / or Gas X / Issued 04/28/97  
 (b) If Gas: Production X / Undergound Storage / Expires 04/28/99  
 Deep / Shallow X /

Proposed Target Formation(s): ALEXANDER  
 Proposed Total Depth: 5500' feet  
 Approximate fresh water strata depths: 114'  
 Approximate salt water depths: -0-  
 Approximate coal seam depths: N/A

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

Proposed Well Work: DRILL, STIMULATE, PRODUCE

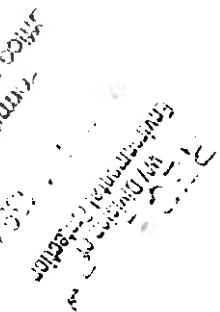
CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	LEFT IN WELL	FILL-UP (cu. ft.)
Conductor	11 3/4	ERW	42	30	0	270 SKS. TO SURFACE
Fresh Water	8 5/8	ERW	23	994'	994'	TO SURFACE
Coal						
Intermediate						
Production	4 1/2	J-55	10.5	5400'	5400'	460 SKS.
Tubing	1.5					
Liners						

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

For Office of Oil and Gas Use Only  
 Fee(s) paid: [Signature] Well Work Permit [Signature] Reclamation Fund [Signature] WPC2  
 Plat [Signature] WW-9 [Signature] Bond [Signature] Agent [Signature]  
 WW-25 (Type)

REC'D  
 WV Division of  
 Environmental Protection  
 APR 11 1997  
 Permitting  
 Office of Oil & Gas



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

**NOTICE AND APPLICATION FOR A WELL**

1) Date: APRIL 9, 1997  
 2) Operator's well number: LEMIS #1  
 3) API Well No: 47 - 017 - 4361  
 State WV County Lincoln Permit         

2 441 531 249

**Receipt for Certified Mail**  
 No Insurance Coverage Provided  
 Do not use for International Mail  
 (See Reverse)

PS Form 3800, March 1993

Sender	MR. & MRS. J. KOZLOWSKI
Street and No.	RT. 1 BOX 31AA
P.O. State and ZIP Code	GREENWOOD, WV 26360
Postage	\$ .78
Certified Fee	1.10
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing Date and Address of Return	
*Total Postage & Fees	\$ 2.98
Postmark or Date	APR 10 1997

WESTON  
USPS

**TO THE PERSON(S) NAMED ABOVE TAKE**

Included is the lease or leases or other continuing contract right to extract oil and gas OR  
X Included is the information required by Chapter 22, Article Virginia (see page 2)  
 I certify that as required under Chapter 22 of the West Virginia Code and application, a location plat, and accompanying maps, this notice and application, by:  
 Personal Service (Affidavit attached)  
X 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]  
 Its PRESIDENT  
 Address 22 GARTON PLAZA  
WESTON, WV 26452  
 Telephone 304-269-7102

Subscribed and sworn, before me this 9TH day of APRIL, 1997  
 My commission expires MARCH 24, 2003

