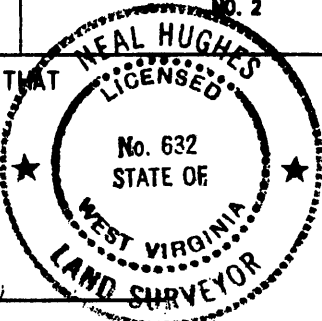


I THE UNDERSIGNED, DO HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.



(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE FEBRUARY 27, 19 96  
 OPERATORS WELL NO. FOLEY 2

L.L.S. Neal Hughes  
 632

API WELL NO. 47 - 017 04272  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 95-118  
 PROVEN SOURCE OF ELEVATION NOB 1145' 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 1175' WATERSHED CLAYLICK RUN  
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION  
 SURFACE OWNER DARRELL MOORE ACREAGE 140  
 ROYALTY OWNER J. D. FOLEY, HEIRS LEASE ACREAGE 140  
 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'

COUNTY NAME PERMIT

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

Permitting  
Office of Oil & Gas  
FEB 10 1997

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

Well Operator's Report of Well Work

Farm name: MOORE, DARRELL

Operator Well No. : FOLEY #2

LOCATION: Elevation: 1,175.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 6050 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 10700 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: 06/25/96  
Well Work Commenced: 08/19/96  
Well Work Completed: 08/29/96  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 5590'  
Fresh water depths ( ft ) 133', 170'  
Salt water depths ( ft ) NONE

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"			
8 5/8"	1165.85'	1165.85'	315 sks.
4 1/2"	5538'	5538'	To surface 370sks.
2 3/8"		5414'	

OPEN FLOW DATA  
Balltown 3960' - 4664'  
Rileys 4693' - 5101'  
Benson 5144' - 5156'  
Producing formation Alexander Pay zone depth ( ft ) 5411' - 5460'  
Gas: Initial open flow 21 MCF / d Oil: Initial open flow 0 Bbl / d  
Final open flow 1,600 MCF / d Oil: Final open flow show Bbl / d  
Time of open flow between initial and final tests N/A Hours  
Static rock pressure 1650 psig ( surface pressure ) after 96 Hours

Second producing formation Comingled 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: 

President

Date: JANUARY 22, 1997

FEB 14 1997

**Foley #2 ( 47-017-04272)  
Four Stage Foam Frac - Halliburton**

1st Stage:	Alexander (11 holes) (5411.25' - 5460.50')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 813 bbls foam.
2nd Stage:	Benson ( 3 holes ) ( 5149.50' - 5150' ) Third Riley (6 holes) (5065.75' - 5093.50' ) Second Riley (2 holes) ( 4987' - 4987.25' )	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 428,000 SCF N2, 520 bbls foam.
3rd Stage:	Riley (10 holes) ( 4635.5' - 4757.25' )	60 Quality Foam. 750 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 554 bbls foam.
4th Stage:	Balltown ( 10 holes ) ( 4121' - 4341.50' )	60 Quality Foam, 1,000 gal 15% HCL. 10,000# 80/100 sand, 40,000# 20/40 sand, 473,000 SCF N2, 695 bbls foam.

**WELL LOG**

Fill	0	8	
Sand & Shale	8	30	
Shale & Red Rock	30	133	
Sand	133	142	
Shale & Red Rock	142	296	
Sand	296	314	
Shale & Red Rock	314	393	
Sand	393	406	
Shale	406	459	
Sand	459	474	
Red Rock	474	498	
Sand	498	510	
Red Rock & Shale	510	730	
Sand & Shale	730	2148	
Little Lime	2148	2161	
Sand & Shale	2161	2182	
Big Lime	2182	2262	
Big Injun	2262	2315	
Shale	2315	2474	
Weir	2474	2597	
Sand & Shale	2597	3536	
Warren	3536	3606	
Shale	3606	3614	
Speechley	3614	3730	
Shale	3730	3960	
Balltown	3960	4664	
Shale & Sand	4664	4693	
Rileys	4693	5101	
Shale	5101	5144	
Benson	5144	5156	
Sand & Shale	5156	5392	
Alexander	5392	5474	
Sand & Shale	5474	5590	
T.D.	5590		

**Gas Checks**

2011'	No show
2228'	No show
2507'	No show
3000'	8/10ths H2O 1"
3711'	8/10ths H2O 1"
4516'	6/10ths H2O 1"
4914'	8/10ths H2O 1"
5316'	12/10ths H2O 1"
5590'	6/10ths H2O 1"
Collars	4/10ths H2O 1"

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

- 1) Well Operator: KEY OIL COMPANY <sup>475</sup> 25655/1/670
- 2) Operator's Well Number: FOLEY #2 3) Elevation: 1175'
- 4) Well type: (a) Oil X / or Gas X / *Issued 06/25/96*  
 (b) If Gas: Production X / Underground Storage    / *Expires 06/25/98*  
 Deep    / Shallow X /
- Proposed Target Formation(s): ALEXANDER <sup>430</sup>
- Proposed Total Depth: 5600 feet
- Approximate fresh water strata depths: 100', 844'
- Approximate salt water depths: -0-
- Approximate coal seam depths: NONE
- 10) Does land contain coal seams tributary to active mine? Yes    / No X /
- 11) Proposed Well Work: DRILL, STIMULATE, PRODUCE *New Well*
- 12)

**RECEIVED**  
 WV Division of  
 Environmental Protection  
 JUN 25 1996  
 Permitting  
 Office of Oil & Gas

22190

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						<i>A.O.K. m.l.w.</i>
Fresh Water	9 5/8	ERW	26	1170	<i>515</i> 1170	388 SKS. TO SURFACE
Coal						<i>380 SK/11.3</i>
Intermediate						<i>380 SK/11.2.2</i>
Production	4 1/2	J-55	10.5		<i>5550</i>	450 SKS.
Tubing	1.5					<i>380 SK/11.1</i>
Liners						

**PACKERS** : Kind                       
 Sizes                       
 Depths set                     

For Office of Oil and Gas Use Only

*col*  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket  Agent  
 (Type)

**RECEIVED**  
WV Division of  
Environmental Protection  
JUN 17 1996

- 1) Date: APRIL 29, 1996
- 2) Operator's well number FOLEY #2
- 3) API Well No: 47 - 017 - 4272  
State County Permit

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 WORK PERMIT**

- 4) Surface Owner(s) to be served:
  - (a) Name DARRELL MOORE  
Address P. O. BOX 74  
SMITHBURG, WV 26436
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name NONE  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration
    - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration
    - Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector MIKE UNDERWOOD  
Address RT. 2 BOX 135  
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]  
 Its: PRESIDENT  
 Address 22 GARTON PLAZA  
WESTON, WV 26452  
 Telephone 304-269-7102

Subscribed and sworn before me this 29TH day of APRIL, 1996

My commission expires MARCH 24, 2003

[Signature] Notary Public  
 OFFICIAL SEAL - NOTARY PUBLIC  
 STATE OF WEST VIRGINIA  
 My Commission Expires Apr. 24, 2002

*Received  
6/17/96*