



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

Well Operator's Report of Well Work

Farm name: LEGGETT, ELWIN E.

Operator Well No.: LEGGETT #3

LOCATION: Elevation: 1,165.00

Quadrangle: OXFORD

District: WEST UNION

County: DODDRIDGE

Latitude: 1400

Feet South of 39 Deg. 15 Min. 00 Sec.

Longitude: 1700

Feet West of 80 Deg. 50 Min. 00 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD

Permit issued: 05/21/96

Well Work Commenced: 06/19/96

Well Work Completed: 07/03/96

Verbal Plugging

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

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 5577'

Fresh water depths (ft) NONE

Salt water depths (ft) None Reported

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"	127.35'	127.35'	90 sks
8 5/8"	2140'	2140'	To surface 635 sks
4 1/2"		5501'	To surface 425 sks
1 1/2"		5344'	

OPEN FLOW DATA

Balltown  
Riley  
Benson

3894' - 4580'  
4654' - 4708'  
5083' - 5093'

Producing formation Alexander

Gas: Initial open flow 23 MCF / d

Final open flow 1,594 MCF / d

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

Static rock pressure 1700 psig ( surface pressure ) after 96 Hours

Pay zone depth (ft) 5332' - 5422

Oil: Initial open flow 0 Bbl / d

Oil: Final open flow show Bbl / d

Hours \_\_\_\_\_

Hours \_\_\_\_\_

Second producing formation Comingled

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 \_\_\_\_\_

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

Leggett #3 (47-017-04262)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (15 holes) (5364.50' - 5416.75')	60 Quality Foam, 500 gal, 15% HCL, 60,000# 20/40 sand, 490,000 SCF N2, 811 bbis foam.
2nd Stage:	Benson (10 holes) (5087' - 5089.25')	75 Quality Foam, 750 gal 15% HCL, 35,000# 20/40 sand, 423,000 SCF N2, 568 bbis foam.
3rd Stage:	Riley (7 holes) (4663.75' - 4696') Balltown (6 holes) (4436' - 4573')	60 Quality Foam, 750 gal 15% HCL, 10,000# 80/100 sand, 40,000# 20/40 sand, 615,000 SCF N2, 753 bbis foam.
4th Stage:	Balltown (13 holes) (3907.75' - 4083.75')	60 Quality Foam, 1,000 gal 15% HCL, 10,000# 80/100 sand, 45,000# 20/40 sand, 593,000 SCF N2, 742 bbis foam.

WELL LOG

FORMATION	Top Feet	Bottom Feet	Remarks
Fill	0	10	
Red Rock	10	15	
Sand	15	22	
Shale & Red Rock	22	50	
Red Rock	50	60	
Sand & Shale & Red Rock	60	550	
Sand	550	560	
Sand & Shale	560	1088	
Red Rock	1088	1119	
Sand & Shale	1119	2085	
Little Lime	2085	2125	
Big Lime	2125	2260	
Big Injun	2260	2288	
Shale	2288	2416	
Weir	2416	2542	
Shale	2542	2613	
Berea	2613	2618	
Shale & Silt	2618	3476	
Warren	3476	3544	
Shale	3544	3555	
Speechley	3555	3671	
Shale	3671	3894	
Balltown	3894	4580	
Shale	4580	4654	
Riley	4654	4708	
Shale	4708	4998	
3rd Riley	4998	5038	
Shale	5038	5083	
Benson	5083	5093	
Shale	5093	5332	
Alexander	5332	5422	
Sand & Shale	5422	5577	
T.D.	5577		

Gas Checks

2117' - No Show  
2521' - No Show  
3020' - No Show  
3829' - No Show  
4330' - No Show  
5013' - 4/10ths 1" H2O  
5231' - 6/10ths 1" H2O

MAY 27 1996  
STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
Permitting  
Office of Oil & Gas

1) Well Operator: KEY OIL COMPANY 25658 (8) 526

2) Operator's Well Number: LEGGETT #3 3) Elevation: 1165'

4) Well type: (a) Oil X / or Gas X / Shaded 05/21/96  
(b) If Gas: Production X / Underground Storage / Shallow X /  
Deep / Expired 05/21/98

Proposed Target Formation(s): ALEXANDER 439

Proposed Total Depth: 5550 feet

Approximate fresh water strata depths: 870'

Approximate salt water depths: 2005'

Approximate coal seam depths: NONE

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

Proposed Well Work: DRILL, STIMULATE, PRODUCE New Well

12)

CASING AND TUBING PROGRAM  
SPECIFICATIONS FOOTAGE INTERVALS  
CEMENT 28CSRB11.3

TYPE	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	11 3/4	ERW	42	132	132	70 SKS. TO SURFACE
Coal						28CSRB11.2
Intermediate	8 5/8	ERW	23	2140	2140	525 SKS. TO SURFACE
Production	4 1/2	J-55	10.5	5480	5480	360 SKS.
Tubing	1.5					28CSRB11.1
Liners						

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

For Office of Oil and Gas Use Only  
Fee(s) paid: Plat WW-9 Bond Reclamation Fund WPCP  
Blanket (Type)

**RECEIVED**  
WV Division of  
Environmental Protection  
MAY 29 1996

1) Date: APRIL 29, 1996  
2) Operator's well number LEGGETT #3  
3) API Well No: 47 - 017 - 4262  
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 ELWIN F. LEGGETT 5) (a) Coal Operator: Name NONE  
 Address RT. 1 BOX 227 Address \_\_\_\_\_  
WEST UNION, WV 26456

(b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration Name \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_

(c) Name \_\_\_\_\_ Name \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration Name \_\_\_\_\_  
 Address RI. 2 BOX 135 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]  
 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]  
 OFFICIAL SEAL NOTARY PUBLIC  
 STATE OF WEST VIRGINIA  
KAREN COOK  
 POST OFFICE BOX 1  
 JANE LEW, WV 26078  
 My Commission Expires Mar. 24, 2003