



FEB 10 1997

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: DOTSON, PAUL

Operator Well No.: THOMAS #1

LOCATION: Elevation: 1,095.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 12300 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 6180 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: 04/24/96
Well Work Commenced: 05/30/96
Well Work Completed: 06/12/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5496'
Fresh water depths (ft) NONE

Salt water depths (ft) 796'

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"	43.30'	0	
8 5/8"	1096.7	1096.7'	295 sks To surface
4 1/2"		5453.9	355 sks
1.5"		5340'	

OPEN FLOW DATA

Balltown
Riley
Benson

Producing formation Alexander
Gas: Initial open flow 21 MCF / d
Final open flow 1,540 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1680 psig (surface pressure) after 96 Hours

3900' - 4594'
4634' - 4698'
5066' - 5076'
5312' - 5396'

Pay zone depth (ft) _____
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 _____
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

Thomas #1 (47-017-04257)
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (11 holes) (5359.75' - 5386')	60 Quality Foam, 500 gal, 15% HCL, 60,000# 20/40 sand, 490,000 SCF N2, 811 blis foam.
2nd Stage:	Benson (10 holes) (5070' - 5072.25')	60 Quality Foam, 750 gal 15% HCL, 35,000# 20/40 sand, 423,000 SCF N2, 568 blis foam.
3rd Stage:	Riley (10 holes) (4684.75' - 4659.5') Baltown (2 holes) (4579'-4579.25')	60 Quality Foam, 750 gal 15% HCL, 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 611 blis foam.
4th Stage:	Baltown (10 holes) (399.75' - 4085.75')	60 Quality Foam, 1,000 gal 15% HCL, 10,000# 80/100 sand, 45,000# 20/40 sand, 593,000 SCF N2, 793 blis foam.

WELL LOG

FORMATION	Top Feet	Bottom Feet	Remarks
Fill	0	10	
Red Rock	10	15	
Sand & Shale	15	21	
Red Rock	21	25	
Sand & Shale	25	40	
Red Rock	40	43	
Sand & Shale	43	730	
Sand	730	795	
Sand & Shale	795	1465	Damp @ 796'
Sand	1465	1480	
Sand & Shale	1480	1655	
Sand	1655	1690	
Sand & Shale	1690	1950	
Maxon	1950	2043	
Sand & Shale	2043	2087	
Little Lime	2087	2106	
Pencil Cave	2106	2129	
Big Lime	2129	2189	
Big Injun	2189	2258	Gas Checks
Shale	2258	2423	2008' No Show
Weir	2423	2548	2162' No Show
Shale	2548	2617	2503' No Show
Berea	2617	2620	3031' No Show
Sand & Shale	2620	3482	3624' Odor
Warren	3482	3552	4123' Odor
Shale	3552	3563	4810' 4/10 H2O 1"
Speechley	3563	3858	5215' 4/10 H2O 1"
Shale	3858	3878	
Baltown	3878	4594	
Shale & Sand	4594	4634	
Riley	4634	4698	
Shale	4698	4940	
3rd Riley	4940	5012	
Shale	5012	5066	
Benson	5066	5076	
Sand & Shale	5076	5312	
Alexander	5312	5396	
Sand & Shale	5396	5496	
T D	5496		

APR 22 1996 STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 Permitting
 WELL WORK PERMIT APPLICATION

Office of Oil & Gas KEY OIL COMPANY 25655 ① 671

Operator's Well Number: THOMAS #1 3) Elevation: 1095'

Well type: (a) Oil X / or Gas X /
 (b) If Gas: Production X / Undergound Storage /
 Deep / / Shallow X /
 Issued 04/24/96
 Expires 04/24/98

Proposed Target Formation(s): ALEXANDER 435

Proposed Total Depth: 5500 feet

7) Approximate fresh water strata depths: 90, 680

8) Approximate salt water depths: 1700

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

Newbold

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

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	3858/11.3 70 SKS. TO SURFACE
Coal						
Intermediate	8 5/8	ERW	23	1804	1804	3858/11.22 475 SKS. TO SURFACE
Production	4 1/2	J-55	10.5	5400	5400	350 SKS.
Tubing	1.5					3038/11.1
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

10/2/96 For Office of Oil and Gas Use Only
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond (Type) Agent

RECEIVED
WV Division of
Environmental Protection

Page 1 of _____
Form WW2-A
(09/87)
11e Copy

APR 22 1996

Permitting
Office of Oil & Gas

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

1) Date: APRIL 17, 1996
2) Operator's well number
THOMAS #1
3) API Well No: 47 - 017 - 4257
State - County - Permit

4) Surface Owner(s) to be served:

(a) Name PAUL DOTSON
Address RT. 1 BOX 232
WEST UNION, WV 26456

5) (a) Coal Operator:
Name NONE
Address _____

(b) Name _____
Address _____

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

(c) Name _____
Address _____

Name _____
Address _____

6) Inspector MIKE UNDERWOOD

Address RT. 2 BOX 135
SALEM, WV 26426

Telephone (304) - 782-1043

(c) Coal Lessee with Declaration
Name _____
Address _____

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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B 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 22B 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]
I S: PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452

Telephone 304-269-7102

Subscribed and sworn before me this 17TH day of APRIL, 1996

My commission expires MARCH 24, 2003



OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
KAREN COOK
ROUTE 2, BOX 1
JANE LSW, WV 25378
Notary Public