

WR-35

12 - Sep - 97
API # 47 - 17 - 04400

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



Well Operator's Report of Well Work

Farm name: RUPPERT, MICHAEL R.

Operator Well No. : H. C. CHAPMAN

LOCATION: Elevation: 920.00

Quadrangle: OXFORD

District: COVE
Latitude: 5800
Longitude: 6530

County: DODDRIDGE
Feet South of 39 Deg. 10 Min. 0 Sec.
Feet West of 80 Deg. 45 Min. 0 Sec.

Company: KEY OIL COMPANY
22 Garton Plaza
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 09/22/97
Well Work Commenced: 11/09/97
Well Work Completed: 11/19/97

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____ 5194'
Total Depth (feet)
Fresh water depths (ft) 50'
Salt water depths (ft) NONE

Is coal being mined in area (Y / N)? N
Coal Depths (ft) : NONE

OPEN FLOW DATA

Warren
Speechley
Balltown
Rileys
Benson
Elk

Producing formation Alexander

Gas: Initial open flow 322 MCF / d

Final open flow 1,571 MCF / d

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

Static rock pressure 1500 psig (surface pressure) after 96

Pay zone depth (ft)
Oil: Initial open flow 0 Bbl / d
Oil: Final open flow show Bbl / d
Hours
Hours

3064' - 3116'
3126' - 3364'
3688' - 4137'
4226' - 4629'
4686' - 4697'
4880' - 4904'
4927' - 5044'

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 _____

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: April 19, 1998

DODD 4400

MAY 14 1998

H. C. Chapman #1 (47-017-04400)
 Five Stage Foam Frac - Halliburton

1 st Stage:	Alexander (10 holes) (4968.75' to 5028') Elk (2 holes) (4896.50' to 4896.75')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 808 bbis foam.
2 nd Stage:	Benson (6 holes) (4690.50' to 4691.75') Third Riley (6 holes) (4603.50' to 4604.75')	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 612 bbis foam.
3 rd Stage:	Second Riley (9 holes) 4470.75' to 4472.75') Riley (3 holes) (4270.25' to 4270.75')	60 Quality Foam. 750gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 742 bbis foam.
4 th Stage:	Balltown (12 holes) (3810.50' to 3860')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 732 bbis foam.
5 th Stage:	Speechley (9 holes) (3142.50' to 3344') Warren (4 holes) (3095.50' to 3101.75')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbis foam.

WELL LOG

Clay	0	5	
Sand & Shale & Red Rock	5	170	
Sand & Shale	170	300	
Sand & Shale & Red Rock	300	323	
Sand & Shale	323	542	
Shale & Red Rock	542	554	
Sand & Shale	554	1390	
Sand	1390	1415	
Sand & Shale	1415	1730	
Little Lime	1730	1737	
Shell	1737	1756	
Big Lime	1756	1814	
Big Injun	1814	1899	
Shale	1899	2016	
Weir	2016	2128	
Sand & Shale	2128	2216	
Berea	2216	2224	
Sand & Shale	2224	2444	
Gordon	2444	2452	
Sand & Shale	2452	3064	
Warren	3064	3116	
Shale	3116	3126	
Speechley	3126	3364	
Shale	3364	3688	
Balltown	3688	4137	
Shale	4137	4226	
Riley	4226	4298	
Sand & Shale	4298	4456	
Second Riley	4456	4511	
Sand & Shale	4511	4592	
Third Riley	4592	4629	
Sand & Shale	4629	4686	
Benson	4686	4697	
Shale	4697	4880	
Elk	4880	4904	
Shale	4904	4927	
Alexander	4927	5044	
Sand & Shale	5044	5194	
T.D.	5194		

Gas Checks

1512' - 10/10^{ths} - 2" w/ H₂O
 2012' - 20/10^{ths} - 2" w/ H₂O
 2505' - 50/10^{ths} - 2" w/ H₂O
 3530' - 50/10^{ths} - 2" w/ H₂O
 4023' - 56/10^{ths} - 2" w/ H₂O
 4516' - 58/10^{ths} - 2" w/ H₂O
 4888' - 58/10^{ths} - 2" w/ H₂O
 5150' - 58/10^{ths} - 2" w/ H₂O
 TD - 58/10^{ths} - 2" w/ H₂O

1/4" H₂O @ 50'

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

- 1) Well Operator: KEY OIL COMPANY - 25055 526
- 2) Operator's Well Number: H. C. CHAPMAN #1 3) Elevation: 920'
Well type: (a) Oil X / or Gas X / Issued 09/22/97
(b) If Gas: Production X / Underground Storage X / Shallow X / Expires 09/22/99
- Proposed Target Formation(s): ALEXANDER 230
- Proposed Total Depth: 5500 feet
- Approximate fresh water strata depths: 75'
- Approximate salt water depths: -0-
- 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 APU/MLL
- 12)

24257

RECEIVED
WV Division of
Environmental Protection
SEP 05 1997
Permitting
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOR DRILLING	LEFT IN WELL	FILL-UP (cu. ft.)
Conductor	11 3/4	ERW	42	42	0	38 CS 18 1/2
Fresh Water	8 5/8	ERW	23	920'	920'	750 SURFACE
Coal						38 CS 18 1/2
Intermediate					5400'	490 SKS
Production	4 1/2	J-55	10.5			38 CS 18 1/2
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)

RECEIVED
WV Division of
Environmental Protection
Permitting
Office of Oil
September 1997

1) Date: 8-26-97
2) Operator's well number #1
H. C. CHAPMAN
3) API Well No: 47 - 017 - 4400
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: 5) (a) Coal Operator:
(a) Name MICHAEL R. RUPPERT Name NONE
Address 122 TIGITSI LANE Address _____
LOU DON, TENNESSEE, 37714
(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

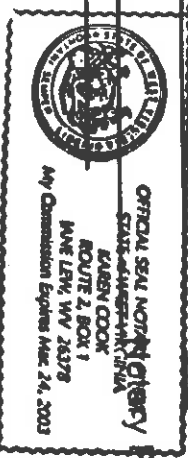
TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 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: _____ PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102
Subscribed and sworn before me this 26TH day of AUGUST 1997

My commission expires MARCH 24, 2003



Public