



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

Well Operator's Report of Well Work

Farm name: WEBB, INA

Operator Well No. : STONE#1

LOCATION: Elevation: 1,110.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 3225

Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 10950

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: 09/24/96

Well Work Commenced: 10/02/96

Well Work Completed: 10/15/96

Verbal Plugging

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

Rotary X Cable \_\_\_\_\_ 5512'

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

Fresh water depths ( ft ) .80' .111'

Salt water depths ( ft ) .NONE

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

Coal Depths ( ft ): \_\_\_\_\_ None Reported

OPEN FLOW DATA

Warren  
Speechley  
Balltown  
Riley  
Benson

3467' - 3534'  
3544' - 3662'  
3858' - 4494'  
4627' - 5030'  
5072' - 5084'  
5321' - 5408'

Producing formation Alexander Pay zone depth ( ft ) \_\_\_\_\_  
Gas: Initial open flow 0 MCF / d Oil: Initial open flow 0 Bbl / d  
Final open flow 1,426 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 \_\_\_\_\_ Commingled \_\_\_\_\_ 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

Casing & Tubing Size	Used In Drilling	Left in Well	Cement Fill Up Cur. Ft.
11 3/4"			
8 5/8"	1153'	1153'	300 sks To surface
4 1/2"	5480'	5480'	450 sks
2 3/8"		5293'	

Stone #1 (47-017-04306)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (11 holes) (5363' - 5398')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 bbls foam.
2nd Stage:	Benson (5 holes) (5077' - 5078) Third Riley (5 holes) (5020.5' - 5021.5')	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 394,000 SCF N2, 518 bbls foam.
3rd Stage:	Riley (10 holes) (4653' - 4666.5')	60 Quality Foam. 750 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 552 bbls foam.
4th Stage:	Baltown (3 holes) (3982.75' - 3983.25) Speechley (4 holes) (3648.5' - 3649.25) Warren (4 holes) (3513' - 3513.75)	60 Quality Foam, 1000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 589 bbls foam.
<b>WELL LOG</b>		
Clay & Fill	0	
Shale & Red Rock	15	
Sand	35	
Red Rock & Shale	55	
Sand	218	
Red Rock & Shale	361	
Sand	844	
Red Rock & Shale	869	
Sand	1105	
Shale	1243	
Sand & Shale	1706	
Little Lime	2065	
Big Lime	2104	
Big Injun	2176	
Shale	2246	
Weir	2400	
Sand & Shale	2523	
Warren	3467	
Shale	3534	
Speechley	3544	
Shale	3662	
Baltown	3858	
Shale	4494	
Riley	4627	
Shale	4708	
3rd Riley	4962	
Shale	5030	
Benson	5072	
Sand & Shale	5084	
Alexander	5321	
Silt & Shale	5408	
T.D.	5512	
	15	
	35	
	55	
	218	
	361	
	844	
	869	
	1105	
	1243	
	1706	
	2065	
	2104	
	2176	
	2246	
	2400	
	2523	
	3467	
	3534	
	3544	
	3662	
	3858	
	4494	
	4627	
	4708	
	4962	
	5030	
	5072	
	5084	
	5321	
	5408	
	5512	
	<u>Gas Checks</u>	
	1924	NO SHOW
	2515	NO SHOW
	3014	NO SHOW
	3420	NO SHOW
	3916	NO SHOW
	4479	NO SHOW
	4790	NO SHOW
	5227	NO SHOW
	5509	NO SHOW

Damp @ 80'

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

017 4306

475 28655 0 671

- 1) Well Operator: KEY OIL COMPANY
- 2) Operator's Well Number: STONE #1 3) Elevation: 1110'
- Well type: (a) Oil  / or Gas  Inused 09/24/96  
 (b) If Gas: Production  / Underground Storage Exposed 09/24/98  
 Deep  / Shallow
- Proposed Target Formation(s): ALEXANDER<sup>439</sup>
- Proposed Total Depth: 5600' feet
- Approximate fresh water strata depths: 100'
- 8) Approximate salt water depths: -0-
- 9) Approximate coal seam depths: N/A Permitting Office of Oil & Gas
- 10) Does land contain coal seams tributary to active mine? Yes  / No
- 11) Proposed Well Work: DRILL, STIMULATE, PRODUCE
- 12)

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per ft. drilling	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42			300 SKS. TO SURFACE
Fresh Water	8 5/8	ERW	23		1110'	
Coal						
Intermediate						
Production	4 1/2	J-55	10.5		5450	450 SKS.
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 Agent

Plat  WW-9  WW-2B  Bond \_\_\_\_\_ (Type)

1) Date: SEPTEMBER 17, 1996  
2) Operator's well number STONE #1  
3) API Well No: 47 - 017 - 4306  
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 INA WEFB  
Address RT. 1 BOX 291  
WEST UNION, WV 26456

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

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

6) Inspector MIKE UNDERWOOD  
Address RT. 2 BOX 135  
SALEM, WV 25426  
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 X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

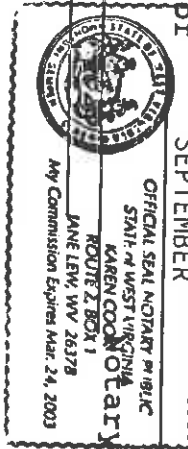
I certify that as required under chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by: X Personal Service (Affidavit attached)  
\_\_\_\_\_ Certified Mail (Postmarked 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  
Its: President  
Address 22 GARTON PLAZA  
WESTON, WV 26452  
Telephone 304-269-7102

Subscribed and sworn before me this 17TH day of SEPTEMBER, 1996  
My commission expires MARCH 24, 2003



Public