

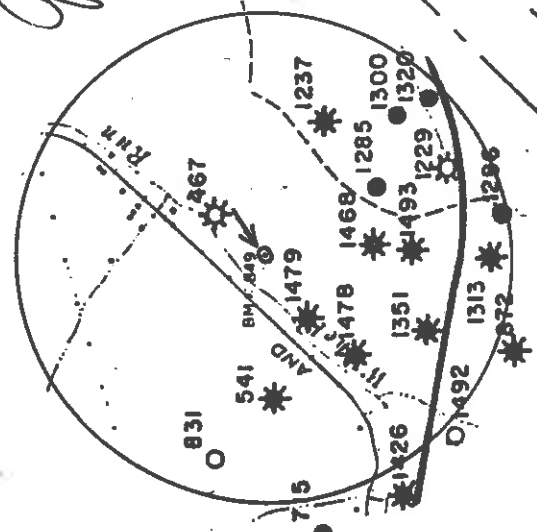
LATITUDE 39°17'30"

LONGITUDE 80°50'00"

600'

3,300'

*James  
9/24/96*



I. WEBB  
9 AC.

R. TOWNER  
35 AC.

I. WEBB  
86.3 AC.

A. BARKER  
105.8 AC.

A. MANCUSO  
217.6 AC.

OLD B. O RAILROAD  
ROUTE 36  
WILHELM RUN

PIPELINE  
HICKORY  
S45°E 1886.8'  
S88°W 528'  
S30°W 536.3'

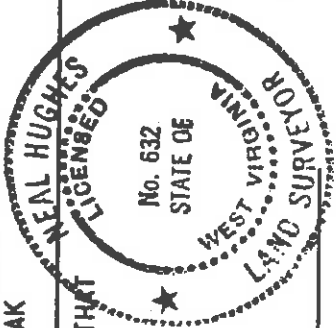
PKY NAIL IN CL  
N69°03'W NO. 2  
1489.9'

N44°W 1546.4'  
S39°29'E N76.5'

10' WHITE  
OAK

28° C. OAK  
N69W 102'  
NO. 2

24' B. OAK  
N32E  
127'



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.

L.L.S. *Neal Hughes*  
632

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE SEPTEMBER 16, 19 96  
OPERATORS WELL NO. STONE 2

API WELL NO. 47 - 017-04307  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY	1/200	FILE NO.	96-75	STATE OF WEST VIRGINIA
PROVEN SOURCE OF ELEVATION	BM 849	SCALE	1" = 500'	DEPARTMENT OF ENERGY
OIL AND GAS DIVISION				

WELL TYPE: OIL <input checked="" type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/>	WASTE DISPOSAL	IF 'GAS' PRODUCTION <input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input type="checkbox"/>
LOCATION: ELEVATION 938'	WATERSHED ARNOLDS CREEK	
DISTRICT CENTRAL	COUNTY DODDRIDGE	QUADRANGLE WEST UNION
SURFACE OWNER INA WEBB + RAYMOND WEBB		ACREAGE 86.32
ROYALTY OWNER VIOLET STONE 1/2		LEASE ACREAGE 87
PROPOSED WORK:		
DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/>	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION <input type="checkbox"/>
PERFORATE NEW FORMATION <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	CLEAN OUT AND REPLUG <input type="checkbox"/>
OTHER PHYSICAL CHANGE IN WELL (SPECIFY)	TARGET FORMATION ALEXANDER	OTHER
	ESTIMATED DEPTH 5600'	

WELL OPERATOR KEY OIL COMPANY	DESIGNATED AGENT JAN CHAPMAN	PERMIT 47-017-04307
ADDRESS 22 GARTON PLAZA	ADDRESS 22 GARTON PLAZA	
WESTON, WV 26452	WESTON, WV 26452	

NORTH

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 #2

LOCATION: Elevation: 938.00      Quadrangle: WEST UNION

District: CENTRAL      County: DODDRIDGE  
Latitude: 3300      Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude: 600      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: 09/24/96  
Well Work Commenced: 10/14/96  
Well Work Completed: 10/22/96

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5391'  
Fresh water depths (ft) 40'. 80'  
Salt water depths (ft) NONE

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

OPEN FLOW DATA

Warren 3286' - 3356'  
Speechley 3366' - 3542'  
Balltown 3688' - 4413'  
Riley 4446' - 4846'  
Benson 4886' - 4900'  
Alexander 5134' - 5221'  
Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow 14 MCF / d Oil: Initial open flow 0 Bbl / d  
Final open flow 1,459 MCF / d Oil: Final open flow show Bbl / d  
Time of open flow between initial and final tests N/A Hours  
Static rock pressure 1700 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 Cu. Ft.
11 3/4"	32.5'		
8 5/8"	947.7	947.7'	255 sks To surface
4 1/2"	5311'	5311"	445 sks
2 3/8"		5157'	

Stone #2 (47-017-04307)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (11 holes) (5177' - 5215.5')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 809 bbis foam.
2nd Stage:	Benson (5 holes) (4891.50' - 4892.5') Third Riley (5 holes) (4819.75' - 4837.5')	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 394,000 SCF N2, 516 bbis foam.
3rd Stage:	Riley (7 holes) (4485.5' - 4493.75') Balltown (6 holes) (4378.25' - 4389.75')	60 Quality Foam. 750 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 549 bbis foam.
4th Stage:	Balltown (3 holes) (3924.75' - 3925.25') Speechley (2 holes) (3473.75' - 3474') Warren (6 holes) (3336' - 3350')	60 Quality Foam, 1000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 589 bbis foam.

WELL LOG

Fill	0	17	
Shale	17	25	
Sand	25	30	
Sand & Shale	30	105	
Red Rock & Shale	105	116	Damp @ 40', 80'
Sand	116	160	
Sand & Shale & Red Rock	160	660	
Sand	660	675	
Sand & Shale	675	720	
Shale & Red Rock	720	915	
Sand & Shale	915	1055	
Shale	1055	1646	
Sand & Shale	1646	1889	
Little Lime	1889	1909	
Shale	1909	1923	
Big Lime	1923	1987	
Big Injun	1987	2070	
Shale	2070	2222	
Weir	2222	2346	
Sand & Shale	2346	3286	
Warren	3286	3356	
Shale	3356	3366	
Speechley	3366	3542	
Shale	3542	3688	
Balltown	3688	4413	
Shale	4413	4446	
Riley	4446	4516	
Shale	4516	4778	
3rd Riley	4778	4846	
Shale	4846	4886	
Benson	4886	4900	
Sand & Shale	4900	5134	
Alexander	5134	5221	
Silt & Shale	5221	5391	
T.D.	5391		

<u>Gas Checks</u>	
2020	SHOW OIL
2515	ODOR
3014	ODOR
3607	NO SHOW
4011	NO SHOW
4604	2/10 1/4" H <sup>2</sup> O
5007	2/10 1/4" H <sup>2</sup> O
TD	2/10 1" H <sup>2</sup> O

- 1) Well Operator: KEY OIL COMPANY 475 25653
- 2) Operator's Well Number: STONE #2 3) Elevation: 938'
- 4) Well type: (a) Oil X / or Gas X /  
 (b) If Gas: Production X / Underground Storage Shallow X /  
 Deep    /

22609

Proposed Target Formation(s): ALEXANDER 439

Proposed Total Depth: 5500 feet

Approximate fresh water strata depths: 80'

Approximate salt water depths: -0-

Approximate coal seam depths: N/A

9) Does land contain coal seams tributary to active mine? Yes    / No X /

11) Proposed Well Work: DRILL. STIMULATE. PRODUCE

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT		
	Size	Grade	Weight per ft. drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42	40	3858/9/13
Fresh Water	8 5/8	ERW	23	938	255 SKS. TO SURFACE
Coal					3858/9/13
Intermediate					
Production	4 1/2	J-55	10.5	5350	450 SKS.
Tubing	1.5				3858/9/13
Liners					

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths sec \_\_\_\_\_

For Office of Oil and Gas Use Only

Fee(s) paid:    Well Work Permit    Reclamation Fund    WPC2  
 Plat    WW-9    WW-29    Bond    (Type)    Agent

1) Date: SEPTEMBER 17, 1996  
2) Operator's well number STONE #2  
3) API Well No: 47 - 017 - 4307  
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 INA WEBB Name             
Address RT. 1 BOX 291 Address             
WEST UNION, WV 26456

(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 *Karen Cook*  
Its PRESIDENT

Address 22 GARTON PLAZA

WESTON, WV 26452

Telephone 304-269-7102

Subscribed and sworn before me this 17TH day of SEPTEMBER, 19 96

My commission expires MARCH 24, 2003

