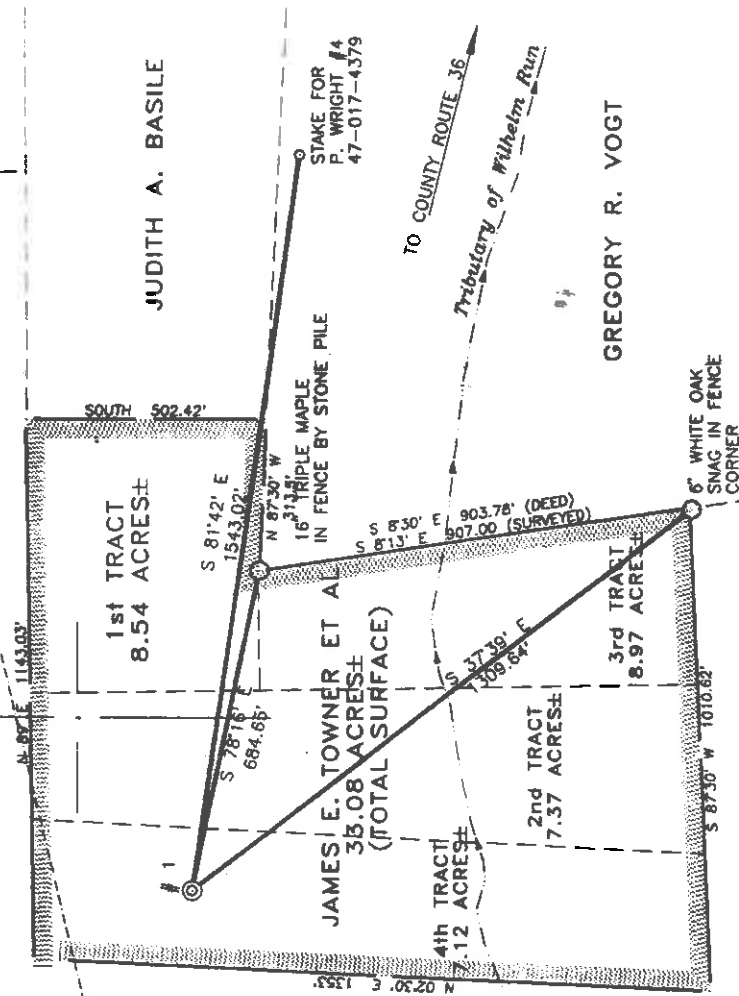
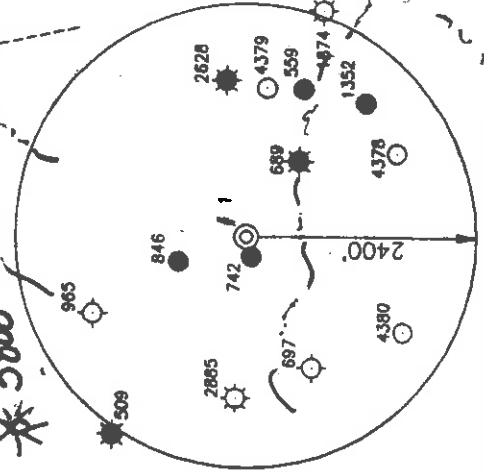
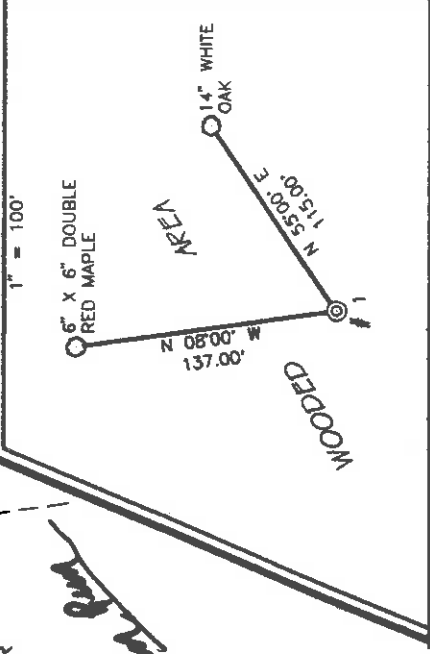


# J. TOWNER LEASE 33 ACRES± WELL #1

*Annabelle J. Harper*  
ANNABELLE J. HARPER  
865  
1.50W

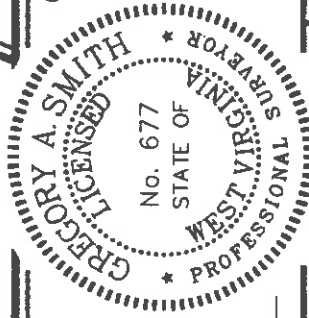


## REFERENCES



I THE UNDERSIGNED, 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.

P.S. *Gregory A. Smith*  
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE AUGUST 27, 19 97  
OPERATORS WELL NO. J. TOWNER # 1  
API WELL NO. 47-017-044024  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3784P1 (65-72)  
PROVEN SOURCE SCALE 1" = 400'  
OF ELEVATION JUNCTION OF ROAD AND RAILROAD ELEVATION 928'

WELL TYPE: OIL  GAS  INJECTION  WASTE DISPOSAL  "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1010' WATERSHED TRIBUTARY TO WILHELM RUN *New drill*  
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'  
SURFACE OWNER JOHN D. & TINA M. TOWNER ET AL ACREAGE 33.08  
ROYALTY OWNER JAMES E. TOWNER ET AL LEASE ACREAGE 33.08  
LEASE NO. \_\_\_\_\_

PROPOSED WORK:  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD  
 FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION ALEXANDER  
 ESTIMATED DEPTH 5609' PERMIT 0-3-1007



STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452  
6-6-89

7,860' LATITUDE 39°17'30"

LONGITUDE 80°50'00"

NORTH

WR-35

30 - Sep - 97  
API # 47 - 17 - 04404

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



Well Operator's Report of Well Work

Farm name: TOWNER, JOHN D. ETAL.

Operator Well No. : J. TOWNER #

LOCATION: Elevation: 1,010

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 3440 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 7860 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: 09/30/97  
Well Work Commenced: 11/05/97  
Well Work Completed: 11/18/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_ Rig  
Rotary X Cable \_\_\_\_\_  
Total Depth ( feet ) 5410'  
Fresh water depths ( ft ) 80', 600'  
Salt water depths ( ft ) 1773'

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

OPEN FLOW DATA

Producing formation Balltown  
Gas: Initial open flow SHOW MCF / d  
Final open flow 1,524 MCF / d  
Time of open flow between initial and final tests N/A  
Static rock pressure 1850 psig ( surface pressure ) after 96 Hours

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 \_\_\_\_\_ 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 4404

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	125.10'	125.10'	70 sks To Surface
8 5/8"	1618.15'	1618.15'	370 sks To Surface
4 1/2"	5301'	5301'	410 sks
2 3/8"		5170'	

J. Towner #1 (47-017-04404)  
 Four Stage Foam Frac - Halliburton

1 <sup>st</sup> Stage:	Alexander ( 12 holes ) ( 5190.25' to 5216.25' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 blis foam.
2 <sup>nd</sup> Stage:	Benson ( 12 holes ) ( 4903.50' to 4906.25' )	60 Quality Foam. 750 gal 15% HCL. 50,000# 20/40 sand, 481,000 SCF N2, 712 blis foam.
3 <sup>rd</sup> Stage:	Riley ( 12 holes ) ( 4502.50' to 4505.50' )	60 Quality Foam. 750gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 742 blis foam.
4 <sup>th</sup> Stage:	Balltown ( 12 holes ) ( 3871.75' to 4288.50' )	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 blis foam.

WELL LOG

Fill and Clay	0	13	
Red Rock & Shale & Sand	13	590	¾" Stream H <sub>2</sub> O @ 80'
Sand	590	665	½" Stream H <sub>2</sub> O @ 600'
Sand & Shale	665	809	
Red Rock	809	934	
Sand & Shale	934	1255	
Sand	1255	1272	
Sand & Shale	1272	1480	
Sand	1480	1573	
Sand & Shale	1573	1715	
Sand	1715	1820	
Sand & Shale	1820	1912	
Little Lime	1912	1937	
Shale	1937	1952	
Big Lime	1952	2032	
Big Injun	2032	2088	
Shale	2088	2250	
Weir	2250	2375	
Sand & Shale	2375	2442	
Berea	2442	2447	
Sand & Shale	2447	3347	
Warren	3347	3386	
Shale	3386	3400	
Speechley	3400	3518	
Shale	3518	3750	
Balltown	3750	4440	
Shale	4440	4464	
Riley	4464	4540	
Sand & Shale	4540	4896	
Benson	4896	4910	
Shale	4910	5144	
Alexander	5144	5230	
Sand & Shale	5230	5410	
T.D.	5410		

Damp @ 1773'

Gas Checks

- 1918' - No Show
- 2506' - No Show
- 3004' - No Show
- 3715' - No Show
- 4427' - No Show
- 4923' - Show
- 5109' - Show

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

- 1) Well Operator: KEY OIL COMPANY #755655 (1) 671
  - 2) Operator's Well Number: J. TOWNER #1 3) Elevation: 1010'
  - 4) Well type: (a) Oil  / or Gas   
 (b) If Gas: Production  / Underground Storage   
 Deep  / Shallow  Issued 09/29/97  
 Expires 09/29/99
- Proposed Target Formation(s): ALEXANDER <sup>500</sup> **ED**  
 Environmental Protection  
 SEP 11 1997
- Proposed Total Depth: 5600 feet  
 Office of Oil & Gas Permitting
- Approximate fresh water strata depths: 85'  
 Approximate salt water depths: -0-
- Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes  / No
  - 11) Proposed Well Work: DRILL, STIMULATE, PRODUCE *Spudwell*
  - 12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT per ft.	FOOTAGE	FOOTAGE INTERVALS	CEMENT
Conductor	11 3/4	ERW	42	42		Fill-up (cu. ft.) <i>38CSB/1.3</i>
Fresh Water	8 5/8	ERW	23	1010		275 SKS. TO SURFACE
Coal						<i>38CSB/1.2.2</i>
Intermediate						
Production	4 1/2	J-55	10.5	5450		490 SKS.
Tubing	1.5					<i>38CSB/1.1</i>
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  
SEP 14 1997

Permitting  
Office of Oil & Gas  
**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS**

1) Date: SEPTEMBER 3, 1997  
2) Operator's well number J. TOWNER #1  
3) API Well No: 47-017-4404  
State County Permit

**NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) Surface Owner(s) to be served: 5) (a) Coal Operator:  
(a) Name JOHN D. TOWNER, ETAL Name NONE  
Address RT. 1, BOX 31-A Address \_\_\_\_\_  
GREENWOOD, WV 26415

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

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

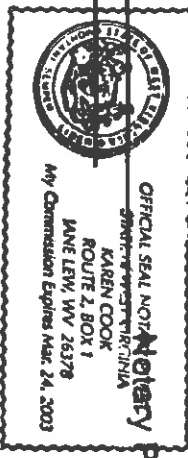
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Walt Operator KEY OIL COMPANY  
By: \_\_\_\_\_  
Its: PRESIDENT  
Address 22 GARTON PLAZA  
WESTON, WV 26452  
Telephone 304-269-7102

Subscribed and sworn before me this 3RD day of SEPTEMBER, 1997

My commission expires MARCH 24, 2003

*Karen Cook*



Notary Public