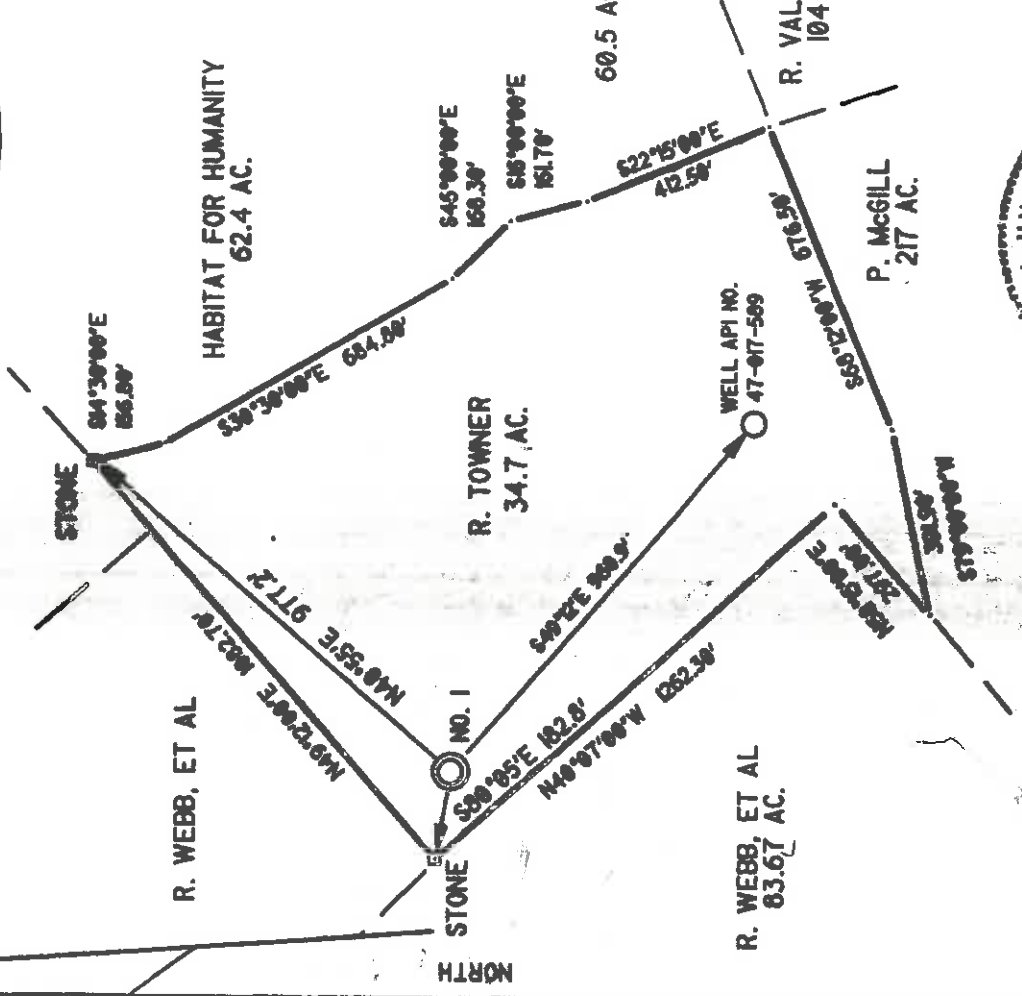
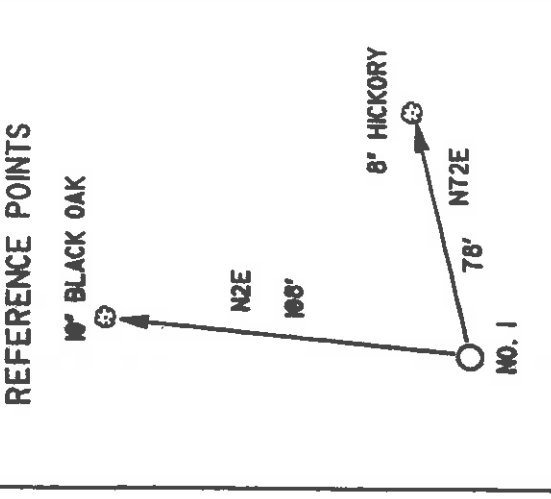
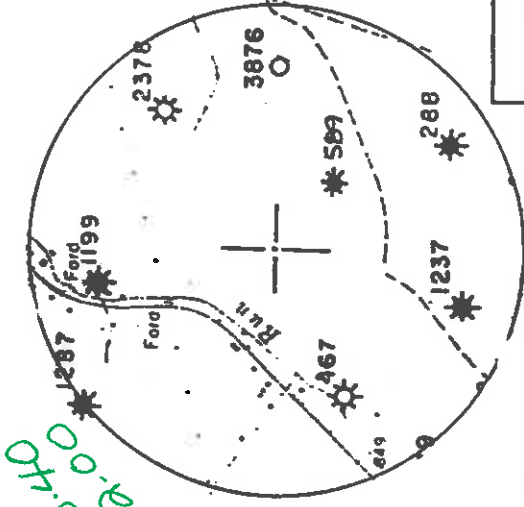


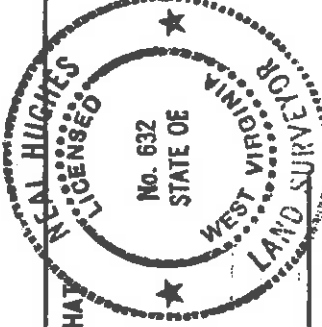
10,525

LATITUDE 39°17'30"

LONGITUDE 80°47'30"



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.



(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE JULY 25, 19 96  
 OPERATORS WELL NO. TOWNER 1  
 API WELL NO. 47-017-017 - 04247 PERMIT

L.L.S. Neal Hughes  
 632

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-58 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION  
 PROVEN SOURCE OF ELEVATION NOB - 1231' SCALE 1" = 400'

WELL TYPE: OIL  GAS  LIQUID WASTE DISPOSAL  'GAS' PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 940' WATERSHED WILHELM RUN  
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION  
 SURFACE OWNER ROBERT TOWNER + RETHA TIRPACK ACREAGE 34.71  
 ROYALTY OWNER ROBERT TOWNER + RETHA TIRPACK LEASE ACREAGE 34.71  
 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 5600'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN COUNTY NAME WESTON PERMIT AUG 23 1996  
 ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA  
WESTON, WV 26452 WESTON, WV 26452

**RECEIVED**  
WV Division of  
Environmental Protection

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

APR 27 1997

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: TOWNER, ROB' T/R. TIRPACK Operator Well No. : TOWNER #1

LOCATION: Elevation: 940.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE  
Latitude: 2050 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude: 10525 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: 08/20/96  
Well Work Commenced: 09/23/96  
Well Work Completed: 10/02/96

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 5479'  
Fresh water depths ( ft ) 110'  
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  
Producing formation Alexander Pay zone depth ( ft ) 5174' - 5261'  
Gas: Initial open flow 15 MCF / d Oil: Initial open flow 0 Bbl / d  
Final open flow 1,632 MCF / d Oil: Final open flow show Bbl / d  
Time of open flow between initial and final tests N/A Hours  
Static rock pressure 1750 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:   
Date: 3-26-97

PRESIDENT

APR 28 1997

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	1006.95	1006.95	285 sks To Surface
4 1/2"	5324	5324	435 sks
2 3/8"		5193	

Tower #1 (47-017-04297)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander ( 14 holes ) ( 5213.75' - 5246.25' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 809 bbls foam.
2nd Stage:	Benson ( 10 holes ) ( 4931' - 4933.25' )	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 394,000 SCF N2, 516 bbls foam.
3rd Stage:	Riley ( 8 holes ) (4505' - 4518.75' ) Balltown ( 3 holes ) (4406.75' - 4407.25' )	60 Quality Foam. 750 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 550 bbls foam.
4th Stage:	Balltown ( 5 holes ) ( 3792' - 3906.25' ) Speechley ( 3 holes ) ( 3502' - 3502.5' ) Warren ( 5 holes ) (3366.75' - 3381.25' )	60 Quality Foam, 1,000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 589 bbls foam.

WELL LOG

KB & Clay Shale Red Rock Sand & Shale & Red Rock Sand Sand & Shale Red Rock Sand & Shale Little Lime Sand & Shale Big Lime Big Injun Shale Weir Sand & Shale Berea Sand & Shale Warren Shale Speechley Shale Balltown Shale & Sand Riley Shale 2 <sup>nd</sup> Riley Shale 3 <sup>rd</sup> Riley Sand & Shale Benson Sand & Shale Alexander Sand & Shale T.D.	0 15 19 24 24 701 712 850 930 930 1922 1943 1953 2030 2030 2119 2119 2254 2377 2452 2458 3340 3386 3398 3515 3730 3730 4436 4488 4562 4723 4788 4817 4884 4927 4939 5174 5261 5479	15 19 24 24 701 712 850 930 930 1922 1943 1953 2030 2030 2119 2254 2377 2452 2458 3340 3386 3398 3515 3730 3730 4436 4488 4562 4723 4788 4817 4884 4927 4939 5174 5261 5479	H <sup>2</sup> O @ 110'	<p><u>Gas Checks</u></p> <p>1922' Odor</p> <p>2513' Odor</p> <p>3033' 2/10<sup>ths</sup> 1/4" H<sup>2</sup>O</p> <p>3717' 3/10<sup>ths</sup> 1/4" H<sup>2</sup>O</p> <p>4308' 1/10<sup>ths</sup> 1/4" H<sup>2</sup>O</p> <p>4715' 1/10<sup>ths</sup> 1" H<sup>2</sup>O</p> <p>5118' 1/10<sup>ths</sup> 1" H<sup>2</sup>O</p> <p>TD 2/10<sup>ths</sup> 1" H<sup>2</sup>O</p>
--	--	---	-------------------------	---

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

1) Well Operator's Name: 475 25655 1 671

2) Operator's Well Number: TOWNER #1 3) Elevation: 940'

Well type: (a) Oil X / or Gas X / Issued 08/20/98  
 (b) If Gas: Production X / Underground Storage / Expires 08/20/98  
 Deep 339 / Shallow X /

22417

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5400 feet

Approximate fresh water strata depths: 80, 550

8) Approximate salt water depths: NONE REPORTED ON OFFSET WELLS.

9) Approximate coal seam depths: NONE

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

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	FOOTAGE INTERVALS	CEMENT
Conductor	11 3/4	ERW	42	42	0	
Fresh Water	8 5/8	ERW	23	940	940	255 SKS. TO SURFACE
Coal						
Intermediate						
Production	4 1/2	J-55	10.5	5300	5300	365 SKS.
Tubing	1.5					
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

10/2/26

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  
AUG 19 1996

Permitting  
Office of Oil & Gas

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

1) Date: JULY 29, 1996  
2) Operator's well number TOWNER #1  
3) API Well No: 47 - 017 - A297  
State County Permit

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator: NONE

(a) Name ROBERT TOWNER & RETHA TRIPACK  
Address 5275 TILE PLANT RD., S. E.  
NEW LEXINGTON, OH 43764

(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 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: \_\_\_\_\_  
Its: PRESIDENT  
Address 22 GARTON PLAZA  
WESTON, WV 26452

Telephone 304-269-7102  
Subscribed and sworn before me this 29TH day of JULY, 1996

My commission expires MARCH 24, 2003  
Karen Cook

