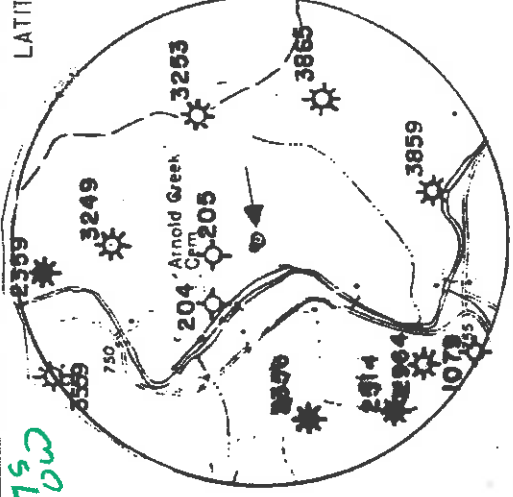


*James Miller*

LATITUDE 39°20'00"

LONGITUDE 80°47'30"



11,100'

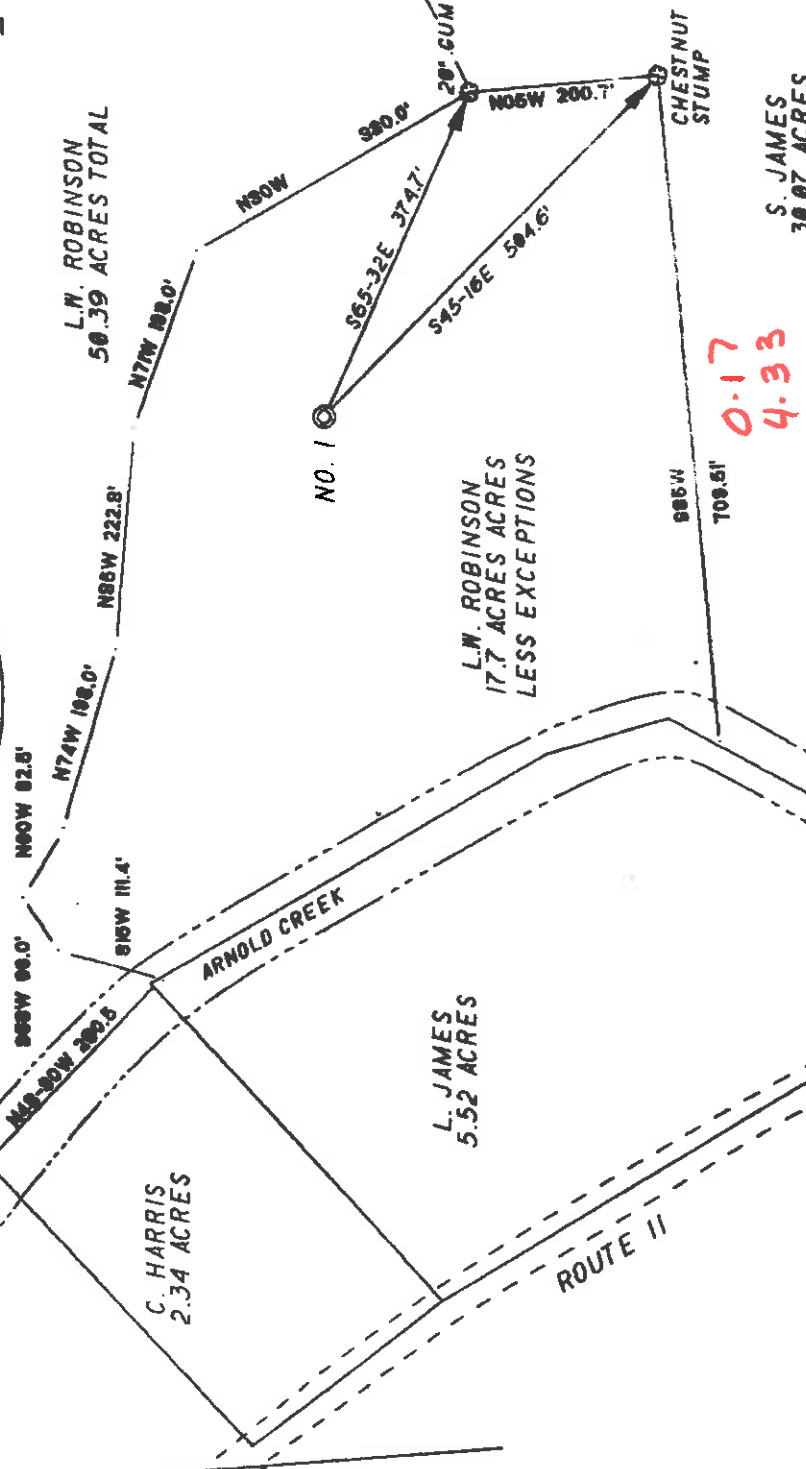
C. HARRIS  
2.34 ACRES

L. JAMES  
5.52 ACRES

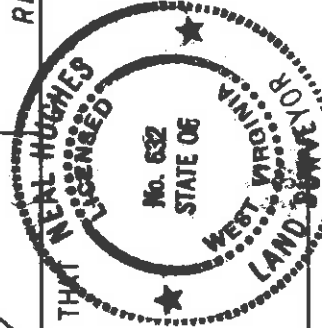
L.M. ROBINSON  
17.7 ACRES  
LESS EXCEPTIONS

L.M. ROBINSON  
50.39 ACRES TOTAL

S. JAMES  
30.07 ACRES



0-17  
4-33



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.

DATE SEPT. 16, 19 94  
 OPERATORS WELL NO. MILLER 1  
 API WELL NO. 47 - 017 - 4160  
 COUNTY \_\_\_\_\_ PERMIT \_\_\_\_\_

L.L.S. *Neal Hughes*  
 632

MINIMUM DEGREE OF ACCURACY 11200 FILE NO. 94-65  
 PROVEN SOURCE OF ELEVATION RD. INTER. 755' SCALE 1"=200'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID WASTE DISPOSAL  'GAS' PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 965' WATERSHED ARNOLD CREEK  
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION SE  
 SURFACE OWNER L. WM. ROBINSON ACREAGE 50.39  
 ROYALTY OWNER MARGARET MILLER LEASE ACREAGE 17.67  
 PROPOSED WORK:  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG 1994 OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) 6-6-91 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'

COUNTY NAME PERMIT

WELL OPERATOR KEY OIL CO. 475 DESIGNATED AGENT JAN CHAPMAN  
 ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA

SECTION \_\_\_\_\_ TOWNSHIP \_\_\_\_\_ RANGE \_\_\_\_\_

WR RECEIVED  
WV Division of  
Environmental Protection

NOV 14 1994

Permitting  
Office of Oil & Gas

29-Sep-94  
API # 47- 17-04160

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

Well Operator's Report of Well Work

Farm name: ROBINSON, L.W.

Operator Well No.: MILLER #1

LOCATION: Elevation: 965.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 900

Feet South of 39 Deg. 20Min. 0 Sec.

Longitude 11100

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: 09/29/94

Well work Commenced: 10-11-94

Well work Completed: 10-17-94

Verbal Plugging

Permission granted on:

Rotary X Cable Rig

Total Depth (feet) 5320

Fresh water depths (ft) 20', 350'

Salt water depths (ft) -0-

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

Coal Depths (ft): NONE

OPEN FLOW DATA

RILEY  
BENSON

Producing formation ALEXANDER

Gas: Initial open flow 1352 MCF/d

Final open flow 919 MCF/d

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

Static rock Pressure 1200 psig (surface pressure) after 96 Hours

Second producing formation

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

4432-4464  
4848-4856

Pay zone depth (ft) 5116-5172

Initial open flow 0 Bbl/d

Final open flow 0 Bbl/d

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

Hours

Pay zone depth (ft)

Initial open flow Bbl/d

Final open flow Bbl/d

Time of open flow between initial and final tests

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: *Jan Chapman*

PRESIDENT

Date: NOVEMBER 30, 1994

47-017-4160 MILLER #1  
3 STAGE FOAM FRAC (HALLIBURTON)

1ST STAGE: ALEXANDER (5120.75'-5258.25') (11 HOLES) 60 QUALITY FOAM, 750 GAL, 15% HCl, 40,000 LBS. 20-40 SAND, 407,000 SCF N<sub>2</sub>, 619 BBLs. FOAM.

2ND STAGE: BENSON (4849.75'-4852') (10 HOLES) 75 QUALITY FOAM, 750 GAL, 15% HCl, 30,000 LBS. 20-40 SAND, 413,000 SCF N<sub>2</sub>, 519 BBLs. FOAM.

3RD STAGE: RILEY (4435.50'-4461.5) (11 HOLES) 60 QUALITY FOAM, 750 GAL, 15% HCl, 10,000 LBS. 80-100 SAND, 40,000 LBS. 20-40 SAND, 525,000 SCF N<sub>2</sub>, 700 BBLs. FOAM.

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
FILL	0	5	HOLE DAMP @ 20'
RED ROCK	5	15	
SAND AND SHALE	15	96	
RED ROCK AND SHALE	96	118	1/4" STREAM H <sub>2</sub> O @ 350'
SAND	118	151	
SHALE AND RED ROCK	151	320	
SAND	320	365	
SAND AND SHALE	365	595	
SAND	595	615	
SAND AND SHALE	615	700	
RED ROCK AND SHALE	700	794	
SAND AND SHALE	794	834	
SAND	834	842	
SAND AND SHALE	842	1197	
SAND	1197	1460	
SAND AND SHALE	1460	1634	
SAND AND SHALE	1634	1796	
LITTLE LIME	1796	1840	
BIG LIME	1840	1898	
KEENER	1898	1920	
BIG INJUN	1920	2020	
SAND AND SHALE	2020	4432	
RILEY	4432	4464	
SAND AND SHALE	4464	4848	
BENSON	4848	4856	
SAND AND SHALE	4856	5116	
ALEXANDER	5116	5172	
SHALE	5172	5320	T.D.

GAS CHECKS:

2500' 9/10 THRU 7" W/WATER  
 3009' 9/10 THRU 7" W/WATER  
 3507' 8/10 THRU 7" W/WATER  
 4009' 7/10 THRU 7" W/WATER  
 4756' 8/10 THRU 7" W/WATER  
 4912' 7/10 THRU 7" W/WATER  
 T.D. 7/10 THRU 7" W/WATER

4830

RECEIVED

Page 1 of WV Division of Environmental Protection

Form WW2-A (10-91)

SEP 28 1994

Date: 9-19-94

Operator's well number Miller #1

API Well No: 47 - 017 - 4160 State - County - Permit

Permitting Office of Oil & Gas STATE OF WEST VIRGINIA 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 L. W. Robinson Address Rt. 1 Box 88 Greenwood, WV 26360

(b) Name Address

(c) Name Address

5) (a) Coal Operator:

Name None Address

(b) Coal Owner(s) with Declaration 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 X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B 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 22B 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.

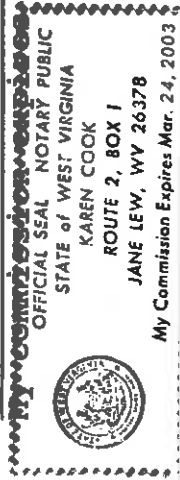
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Key Oil Company
By: [Signature] President
Address 22 Garton Plaza Weston, WV 26452

Telephone 304-269-7102

Subscribed and sworn before me this 19th day of September, 1994

[Signature] Notary Public



March 24, 2003

017 - 4160

Issued 09/29/94

SEP 28 1994  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 Expired 09/29/96

**WELL WORK PERMIT APPLICATION**

Permitting Office of Oil & Gas Key Oil Company 475 25655 CD 671

19830

Operator's Well Number:        Miller #        3) Elevation: 965

Well type: (a) Oil  or Gas

(b) If Gas: Production  Underground Storage   
 Deep  Shallow

- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5400 feet
- 7) Approximate fresh water strata depths: 95'
- 8) Approximate salt water depths: 1406'
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 11) Proposed Well Work: Drill, Stimulate, Produce
- 12) CASING AND TUBING PROGRAM

*New Well*

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE INTERVALS	CEMENT	
Conductor	16"	Used		20	0	70 SKS. to surface
Fresh Water	11 3/4"	ERW	42	132	132	390 SKS. to surface
Coal						
Intermediate	8 5/8"	ERW	23	1500	1500	390 SKS. to surface
Production	4 1/2"	J-55	10.50		5300	260 SKS.
Tubing	1.5"					
Liners						

PACKERS : Kind        Sizes        Depths set       

FOR DIVISION OF OIL AND GAS USE ONLY

Fee(s) paid:        Well Work Permit        Reclamation Fund         
 001962  
 013C        WV-3        WV-2B        30nd