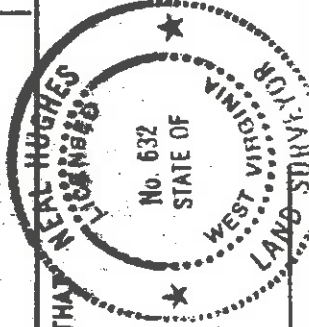


I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION FURNISHED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY

DATE MAY 21 19 96  
 OPERATORS WELL NO. HUDKINS 2  
 API WELL NO. 47-017-04269 STATE VA COUNTY PERMIT



MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-14  
 PROVEN SOURCE OF ELEVATION KNOB 1208' SCALE 1" = 500'

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

LOCATION: ELEVATION 1040' WATERSHED LEASON RUN  
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE PENNSBORO  
 SURFACE OWNER ROBERT PHILLIPS ACREAGE 201  
 ROYALTY OWNER RAY HUDKINS HEIRS LEASE ACREAGE 201

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  
 ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA  
WESTON, WV 26452 ADDRESS WESTON, WV 26452

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

Well Operator's Report of Well Work

Farm name: PHILLIPS, ROBERT E.

Operator Well No.: HUDKINS #2

LOCATION: Elevation: 1,040.00

Quadrangle: PENNSBORO

District: CENTRAL

County: DODDRIDGE

Latitude: 13,250  
Longitude: 2100

Feet South of 39 Deg. 17 Min. 30 Sec.  
Feet West of 80 Deg. 52 Min. 30 Sec.

Company: KEY OIL COMPANY  
22 GARTON PLAZA  
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD

Permit Issued: 06/13/96

Well Work Commenced: 07/15/96

Well Work Completed: 07/31/96

Verbal Plugging

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

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth ( feet ) 5426'

Fresh water depths ( ft ) NONE

Salt water depths ( ft ) 968'

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

Coal Depths ( ft ): None Reported

OPEN FLOW DATA

Balltown

Riley

Benson

Producing formation Alexander

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 1640 psig ( surface pressure ) after 96 Hours

3898' - 4502'

4538' - 4592'

4952' - 4964'

5196' - 5280

Pay zone depth ( ft ) 0 Bbl / d

Oil: Initial open flow show Bbl / d

Oil: Final open flow show Bbl / d

Hours \_\_\_\_\_

Hours \_\_\_\_\_

Second producing formation Comingled

Gas: Initial open flow \_\_\_\_\_ MCF / d

Final open flow \_\_\_\_\_ MCF / d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure \_\_\_\_\_ psig ( surface pressure ) after \_\_\_\_\_ Hours

Pay zone depth ( ft ) \_\_\_\_\_

Oil: Initial open flow \_\_\_\_\_ Bbl / d

Oil: Final open flow \_\_\_\_\_ Bbl / d

Hours \_\_\_\_\_

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: JANUARY 22, 1997

FEB 14 1997

Hudkins #2 (47-017-04269)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (13 holes) (5225.25' - 5266.25')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 810 bbis foam.
2nd Stage:	Benson (10 holes) (4955.50' - 4957.75')	75 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 428,000 SCF N2, 517 bbis foam.
3rd Stage:	Riley (9 holes) (4548.50' - 4568.50')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 25,000# 20/40 sand, 382,000 SCF N2, 551 bbis foam.
4th Stage:	Balltown (13 holes) (3962' - 4034')	60 Quality Foam, 1,000 gal 15% HCL. 10,000# 80/100 sand, 40,000# 20/40 sand, 473,000 SCF N2, 695 bbis foam.

WELL LOG

FORMATION	Top Feet	Bottom Feet	Remarks
Fill	0	5	
Sand & Shale	5	10	
Red Rock & Shale	10	25	
Sand & Shale & Red Rock	25	169	
Sand & Shale	169	780	
Sand	790	1123	
Sand & Shale	1123	1940	
Maxon	1940	1969	
Little Lime	1969	1993	
Pencil Cave	1993	2010	
Big Lime	2010	2090	Oil Odor @ 2120'
Big Injun	2090	2143	Gas Checks
Shale	2143	2316	1902' - No Show
Weir	2316	2442	2526' - No Show
Shale	2442	2501	3026' - No Show
Berea	2501	2505	3522' - No Show
Shale & Sand	2505	3380	4019' - 2/10ths 1/4" H2O
Warren	3380	3454	4704' - 2/10ths 1/4" H2O
Sand & Shale	3454	3898	5109' - 4/10th 1/4" H2O
Balltown	3898	4502	T.D. - 2/10ths 1/2" H2O
Shale	4502	4538	
Riley	4538	4592	
Shale	4592	4876	
3rd Riley	4876	4924	
Shale	4924	4952	
Benson	4952	4964	
Shale	4964	5196	
Alexander	5196	5280	
Sand & Shale	5280	5426	
T.D.	5426		

Damp @ 968'

*[Handwritten notes and signatures]*

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

Issued 06/13/96  
Expires 06/13/98

- 1) Well Operator: KEY OIL COMPANY 2555 539
  - 2) Operator's Well Number: HUDKINS #2 3) Elevation: 1040'
  - 4) Well type: (a) Oil X / or Gas X /  
(b) If Gas: Production X / Underground Storage X /  
Deep    /
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5600 feet
- Approximate fresh water strata depths: 95', 210'
- Approximate salt water depths: -0-
- Approximate coal seam depths: NONE
- 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

22128

RECEIVED  
WV Division of  
Environmental Protection  
JUN 15 1996  
Permitting  
Office of Oil & Gas

TYPE                      SPECIFICATIONS                      FOOTAGE INTERVALS                      CEMENT

TYPE	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42	30	0	38591.3
Fresh Water	8 5/8	ERW	23	1040	1040	280 SKS. TO SURFACE
Coal						38591.22
Intermediate						
Production	4 1/2	J-55	10.5		5450	355 SKS.
Tubing	1.5					38591.1
Liners						

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

Fee(s) paid: \_\_\_\_\_  
Plat \_\_\_\_\_  
For Office of Oil and Gas Use Only  
Well Work Permit \_\_\_\_\_  
Reclamation Fund \_\_\_\_\_  
Bond \_\_\_\_\_  
Agent \_\_\_\_\_  
WW-2B  
Bond \_\_\_\_\_  
(type)

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

**RECEIVED**  
Environmental Protection  
JUN 05 1996  
Permitting  
Office of Oil and Gas

Date: JUNE 3, 1996  
Operator's well number  
HUDKINS #2  
API Well No: 47 - 017 - 4269  
State 47 County 017 Permit 4269

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

4) Surface Owner(s) to be served:

(a) Name ROBERT E. PHILLIPS  
Address RT. 1 BOX 44A  
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

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)

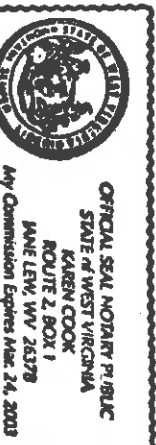
Certified Mail (Postmarked postal receipt attached)

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.



Subscribed and sworn before me this 3RD day of JUNE, 1996

Karen Cook Notary Public  
My commission expires MARCH 24, 2003