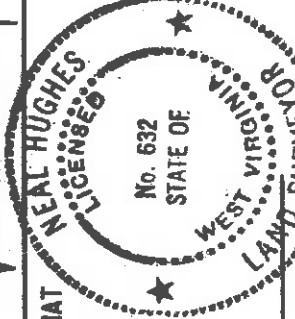


I THE UNDERSIGNED, DO HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY

L.L.S. *Neal Hughes*  
632



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

DATE MAY 21 19 96  
OPERATORS WELL NO. HUDKINS 5

API WELL NO. 47 - 017 - 04270  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION KNOB 1208'  
SCALE 1" = 500'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

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

LOCATION: ELEVATION 1075' 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 22 GARTON PLAZA WESTON, WV 26452  
 DESIGNATED AGENT *JD* JAN CHAPMAN 22 GARTON PLAZA WESTON, WV 26452

6-6-89

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 #5

LOCATION: Elevation: 1,075.00

Quadrangle: PENNSBORO

District: CENTRAL

County: DODDRIDGE

Latitude: 14,375

Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 1125

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: 06/16/96

Well Work Commenced: 06/27/96

Well Work Completed: 07/10/96

Verbal Plugging

Permission granted on:

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

Total Depth ( feet ) 5440'

Fresh water depths ( ft ) NONE

Salt water depths ( ft ) 908'

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

Coal Depths ( ft ) : None Reported

OPEN FLOW DATA

Balltown

Riley

Third Riley

Benson

Producing formation Alexander

Gas: Initial open flow 84 MCF / d

Final open flow 1,516 MCF / d

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

Static rock pressure 1700 psig ( surface pressure ) after 96 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

3872' - 4550'

4562' - 4706'

4921' - 4974'

5002' - 5014'

5252' - 5324'

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

Oil: Initial open flow 0 Bbl / d

Oil: Final open flow show Bbl / d

Hours \_\_\_\_\_

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

FEB 14 1997

By: 

President

Date: JANUARY 22, 1997

Hudkins #5 (47-017-04270)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (14 holes) (5322.25' - 5279')	60 Quality Foam, 500 gal. 15% HCL, 60,000# 20/40 sand, 490,000 SCF N2, 811 bbis foam.
2nd Stage:	Benson (8 holes) (5006.25' - 5008') Third Riley (2 holes) (4937.50' - 4937.75')	75 Quality Foam, 750 gal 15% HCL, 35,000# 20/40 sand, 423,000 SCF N2, 569 bbis foam.
3rd Stage:	Riley (9 holes) (4600' - 4697') Balltown (2 holes) (4514' - 4514.25')	60 Quality Foam, 750 gal 15% HCL, 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 611 bbis foam.
4th Stage:	Balltown (13 holes) (3913.75' - 4012.75')	60 Quality Foam, 1,000 gal 15% HCL, 10,000# 80/100 sand, 45,000# 20/40 sand, 593,000 SCF N2, 791 bbis foam.

WELL LOG

FORMATION	Top Feet	Bottom Feet	Remarks
Fill	0	5	
Sand	5	10	
Red Rock	10	15	
Sand & Shale & Red Rock	15	825	
Sand	825	842	
Sand & Shale & Red Rock	842	1186	Damp @ 908'
Sand & Shale	1186	1995	
Little Lime	1995	2042	
Pencil Cave	2042	2056	Oil Odor @ 2186'
Big Lime	2056	2140	Gas Checks
Big Injun	2140	2190	1801' No Show
Shale	2190	2362	2554' No Show
Weir	2362	2492	3023' - 2/10ths 1/2" H2O
Shale	2492	2549	3615' - 2/10ths 1/2" H2O
Berea	2549	2556	4207' - 2/10ths 1/2" H2O
Shale & Sand	2556	3428	4860' - 4/10ths 2" H2O
Warren	3428	3502	5108' - 4/10ths 2" H2O
Shale	3502	3515	
Speechley	3515	3636	
Shale	3636	3872	
Balltown	3872	4550	
Shale	4550	4562	
Riley	4562	4706	
Shale	4706	4802	
2nd Riley	4802	4868	
Shale	4868	4921	
3rd Riley	4921	4974	
Shale	4974	5002	
Benson	5002	5014	
Shale	5014	5252	
Alexander	5252	5324	
Sand & Shale	5324	5450	
T.D.	5450		

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

- 1) Well Operator: KEY OIL COMPANY 25255 CO 531
- 2) Operator's Well Number: HUDKINS #5 3) Elevation: 1075'
- 4) Well type: (a) Oil X / or Gas X /  
 (b) If Gas: Production X / Undergound Storage X /  
 Deep    / Shallow X /
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5600 feet
- Approximate fresh water strata depths: 95'
- 8) Approximate salt water depths: -0-
- 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 New Well
- 12)

22157

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

**RECEIVED**  
 Division of Environmental Protection  
 Permitting  
 Office of Oil & Gas  
 JUN 12 1996

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT per ft. drilling	FOOTAGE INTERVALS	CEMENT
Conductor	11 3/4	ERW	42	30	0
Fresh Water	8 5/8	ERW	23	1075	1075 <u>gd</u>
Coal					290 SKS. TO SURFACE
Intermediate					<u>385 SKS TO SURFACE</u>
Production	4 1/2	J-55	10.5	5450	355 SKS.
Tubing	1.5				<u>385 SKS TO SURFACE</u>
Liners					

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

03444  
 18  
 Fee(s) paid:    Well Work Permit    Reclamation Fund    WPCP  
 Plat    WW-9    Bond    Agent     
 (Type)

**RECEIVED**  
WV Division of Environmental Protection  
JUN 12 1996  
Permitting  
Office of Oil & Gas

Date: JUNE 3, 1996  
Operator's well number HUDKINS #5  
API Well No: 47 - 017 - 4270  
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:

(a) Name ROBERT E. PHILLIPS  
Address RT. 1 BOX 44A  
GREENWOOD, WV 26360

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

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

6) Inspector MIKE UNDERWOOD  
Address RT. 2 BOX 135  
SALEM, WV 26426  
Telephone (304) - 782-1043

5) (a) Coal Operator:  
Name NONE  
Address \_\_\_\_\_

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

(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 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)

X Certified Mail (Postmarked postal receipt attached)

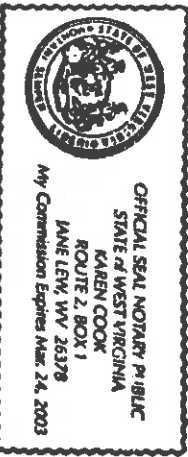
Publication (Notice of Publication attached)

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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.



By: [Signature] KEY OIL COMPANY  
Its: PRESIDENT JAN CHAPMAN  
Address 22 GARTON PLAZA  
WESTON, WV 26452

Telephone 304-269-7102  
Subscribed and sworn before me this 3RD day of JUNE, 1996

My commission expires March 24, 2003 Karen Cook Notary Public