

300'

LATITUDE 39°17'30"

LONGITUDE 80°52'30"

P. HILL  
108 AC.

D. HART  
27.6 AC.

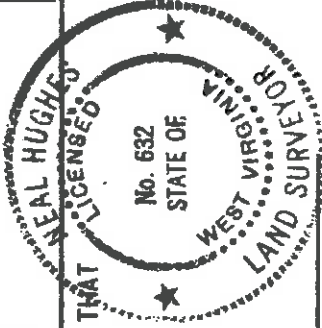
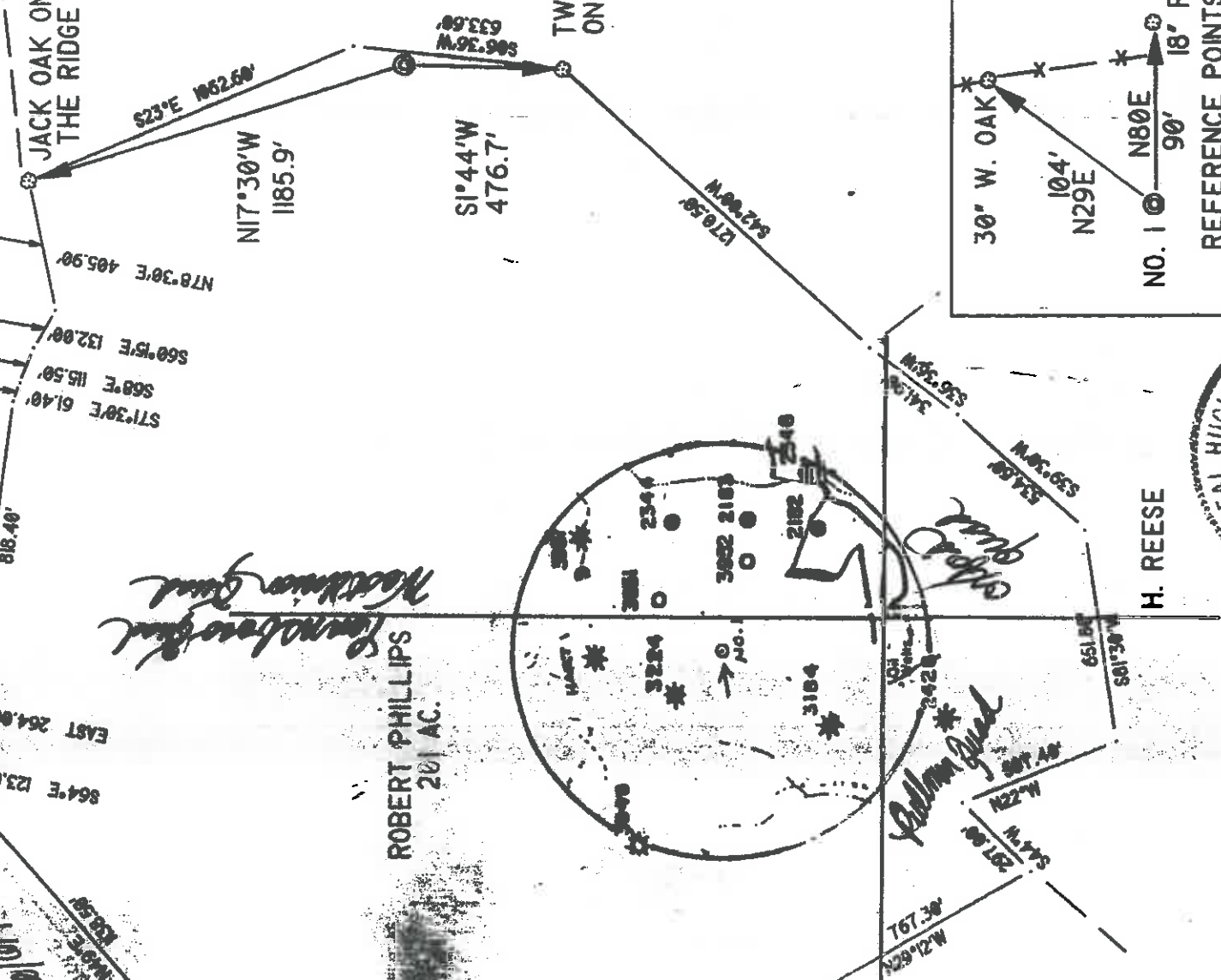
E. SHEETS  
191 AC.

ROBERT PHILLIPS  
20 AC.

TWIN C. OAK  
ON RIDGE

H. REESE

NORTH



I THE UNDERSIGNED, DO HEREBY CERTIFY THAT THIS PLAN 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

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
DATE FEBRUARY 27, 19 96  
OPERATORS WELL NO. HUDKINS 1

API WELL NO. 47 - 017-04263  
STATE WEST VIRGINIA COUNTY PENNSBORO PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-14  
PROVEN SOURCE OF ELEVATION KN0B 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 1295' 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 CO. DESIGNATED AGENT JAN CHAPMAN  
ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA  
WESTON WV 26452 WESTON, WV 26452  
COUNTY NAME \_\_\_\_\_ PERMIT \_\_\_\_\_

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

REC-10  
FEB 10 1997

Permitting  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: PHILLIPS, ROBERT E.

Operator Well No. : HUDKINS #1

LOCATION: Elevation: 1,295.00

Quadrangle: PENNSBORO

District: CENTRAL  
Latitude: 13200 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude: 300 Feet West of 80 Deg. 52 Min. 30 Sec.

County: DODDRIDGE

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit Issued: 06/06/96  
Well Work Commenced: 07/08/96  
Well Work Completed: 07/18/96

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) \_\_\_\_\_ 5750'  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_ 1225'

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

Coal Depths (ft.): None Reported

Casing & Tubing Size	Used In Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	1318.75'	1318.75'	350 sks.
4 1/2"	5621'	5621'	To surface 360 sks.
1 1/2"		5495'	

OPEN FLOW DATA

Balltown  
Rileys  
Benson

4164' - 4460'  
4809' - 5150'  
5218' - 5220'  
5515' - 5520'

Producing formation \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF / d  
Final open flow 1,602 MCF / d Oil: Initial open flow \_\_\_\_\_ Bbl / d  
Time of open flow between initial and final tests \_\_\_\_\_ show \_\_\_\_\_ Bbl / d  
Static rock pressure 1725 psig ( surface pressure ) after 96 Hours

Second producing formation \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF / d  
Final open flow \_\_\_\_\_ MCF / d Oil: Initial open flow \_\_\_\_\_ Bbl / d  
Time of open flow between initial and final tests \_\_\_\_\_ show \_\_\_\_\_ Bbl / d  
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

FEB 14 1997

By: 

President

Date: JANUARY 22, 1997

Hudkins #1 ( 47-017-04263 )

Four Stage Foam Frac - Halliburton

1st Stage: Alexander (11 holes) (5515.5' - 5535.25' ) 60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2. 816 bbis foam.

2nd Stage: Benson ( 8 holes ) ( 5218.5' - 5220.25' ) 75 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 428,000 SCF N2. 522 bbis foam.

Third Riley (2 holes) (5150' - 5150.25' )

3rd Stage: Riley (11 holes) ( 4809.25' - 4910' ) 60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 25,000# 20/40 sand, 382,000 SCF N2, 556 bbis foam.

4th Stage: Balltown ( 10 holes ) ( 4164.75' - 4460.25' ) 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

Fill	0	7	
Sand & Shale & Red Rock	7	50	
Red Rock	50	55	
Sand	55	64	
Sand & Shale & Red Rock	64	974	
Sand	974	1068	
Shale & Sand	1068	1390	
Shale & Red Rock	1390	1690	
Sand	1690	1730	
Sand & Shale	1730	2237	
Little Lime	2237	2251	
Sand & Shale	2251	2275	
Big Lime	2275	2357	
Big Injun	2357	2408	
Shale	2408	2578	
Weir	2578	2706	
Shale & Sand	2706	3660	
Warren	3660	3712	
Shale & Sand	3712	4054	
Balltown	4054	4614	
Shale & Sand	4614	4789	
Riley	4789	4854	
Shale	4854	5136	
Third Riley	5136	5186	
Shale	5186	5215	
Benson	5215	5228	
Sand & Shale	5228	5466	
Alexander	5466	5552	
Sand & Shale	5552	5750	
T.D.	5750		

	Gas Checks	
	2113' No Show	
	2300' No Show	
	3017' Oil Odor	
	3513' Oil Odor	
	4022' No Show	
	4510' No Show	
	5019' No Show	
	5299' 1/10th H2O 1"	
	T.D. No Show	

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

Issued 06/06/96

- 1) Well Operator: KEY OIL COMPANY 25155 D 539 Expires 06/06/98
- 2) Operator's Well Number: HUDKINS #1 3) Elevation: 1295'
- 4) Well type: (a) Oil X / or Gas X /  
 (b) If Gas: Production X / Undergound Storage /  
 Deep / Shallow X /
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5600 feet
- Approximate fresh water strata depths: 90'
- Approximate salt water depths: 1066'
- 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)

22127

**RECEIVED**  
 WV Division of  
 Environmental Protection  
 JUN 05 1996

Permitting  
 Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	CEMENT
Conductor							
Fresh Water	9 5/8	ERW	26	1290	1290	405 SKS. TO SURFACE	
Coal							
Intermediate							
Production	4 1/2	J-55	10.5	5560	5560	360 SKS.	
Tubing	1.5						
Liners							

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

0346  
 17  
 Fee(s) paid: Plat WW-9 WW-2B Bond Reclamation Fund WPCP Agent  
 For Office of Oil and Gas Use Only

**RECEIVED**  
WV Division of  
Environmental Protection

JUN 05 1996

Permitting  
Office of Oil & Gas

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

1) Date: APRIL 29, 1996  
2) Operator's well number HUDKINS #1  
3) API Well No: 47 - 017 - 4263  
State County Permit

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

(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

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

(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

NO 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: [Signature] PRESIDENT  
It's: \_\_\_\_\_  
Address 22 GARTON PLAZA  
WESTON, WV 26452

Subscribed and sworn before me this 29TH day of APRIL, 1996

My commission expires

MARCH 24, 2003



OFFICIAL SEAL NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
KATHY COOK  
Notary Public  
ROUTE 2, BOX 1  
JANE LEW, WV 26378  
My Commission Expires Mar. 24, 2003