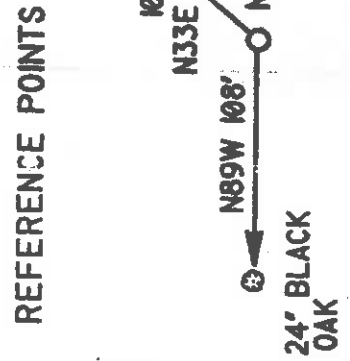
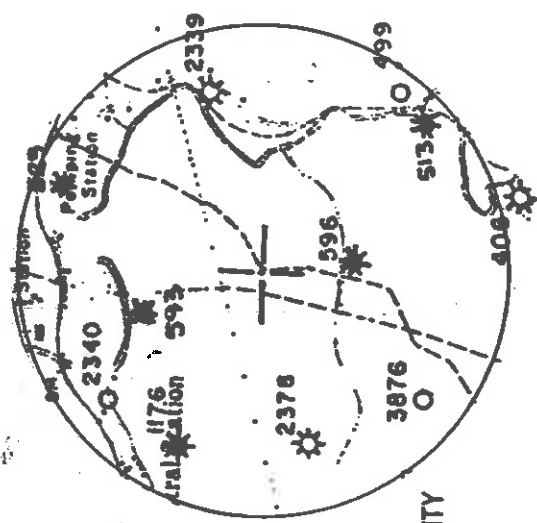
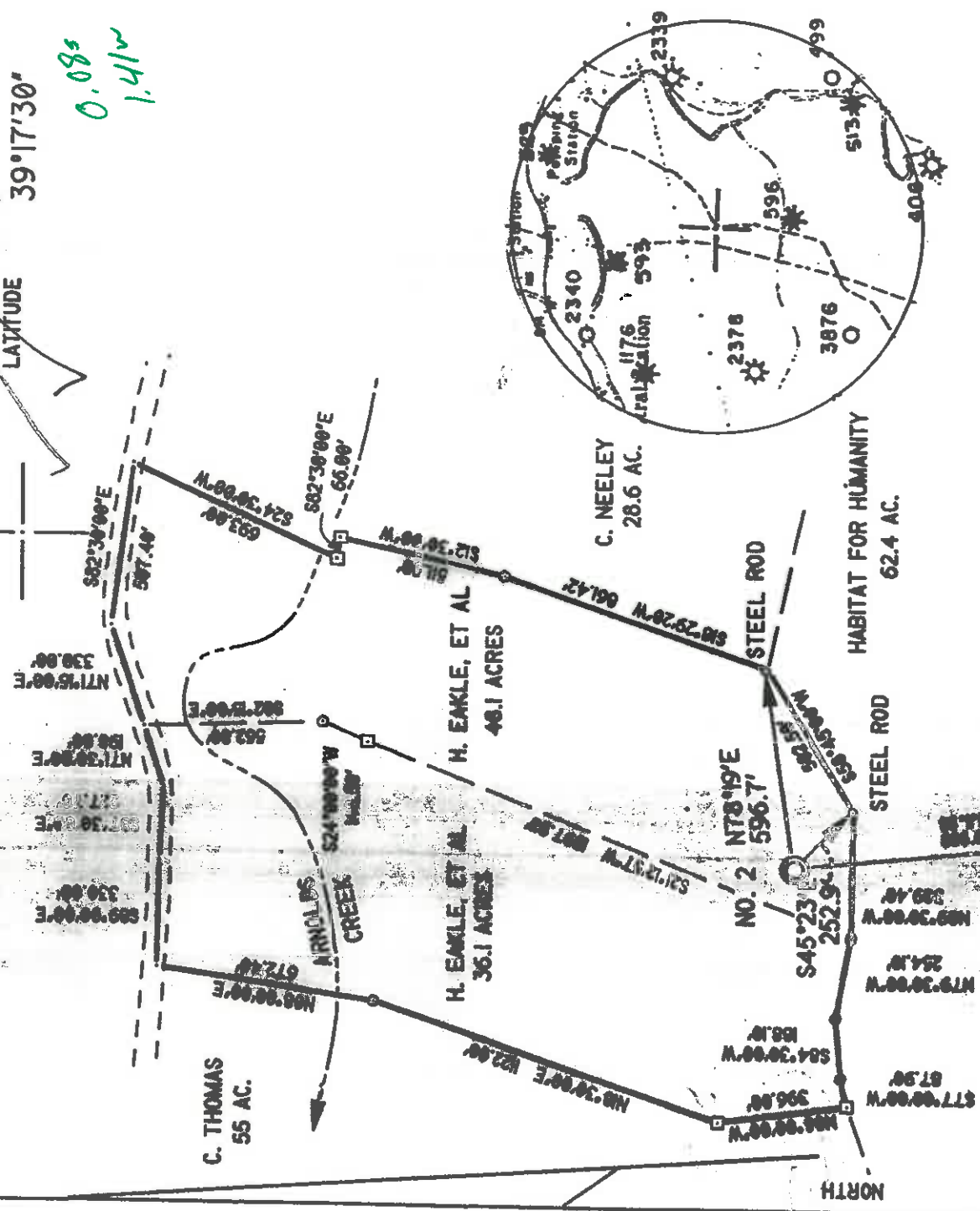


LATITUDE 39°17'30"

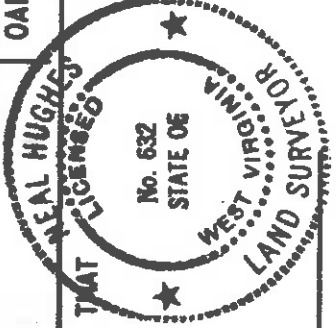
LONGITUDE 80°47'30"

0.08s
1.41w



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 Jan
632



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE JULY 25 19 96
OPERATORS WELL NO. HUDSON 2 REVISED

API WELL NO. 47-017-04292-X
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

MINIMUM DEGREE OF ACCURACY 1/200
FILE NO. 96-58
PROVEN SOURCE OF ELEVATION KN08 - 1231'
SCALE 1" = 500'

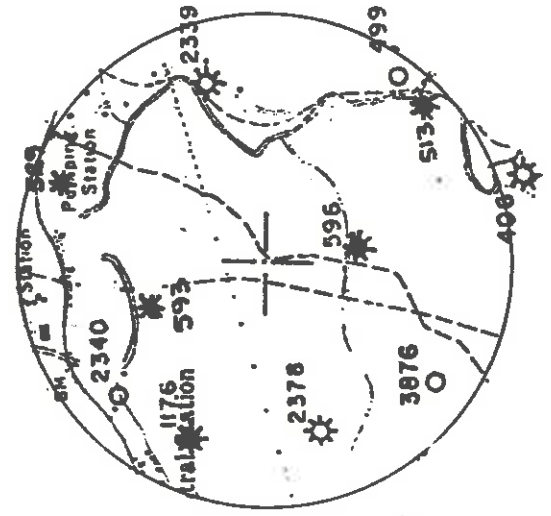
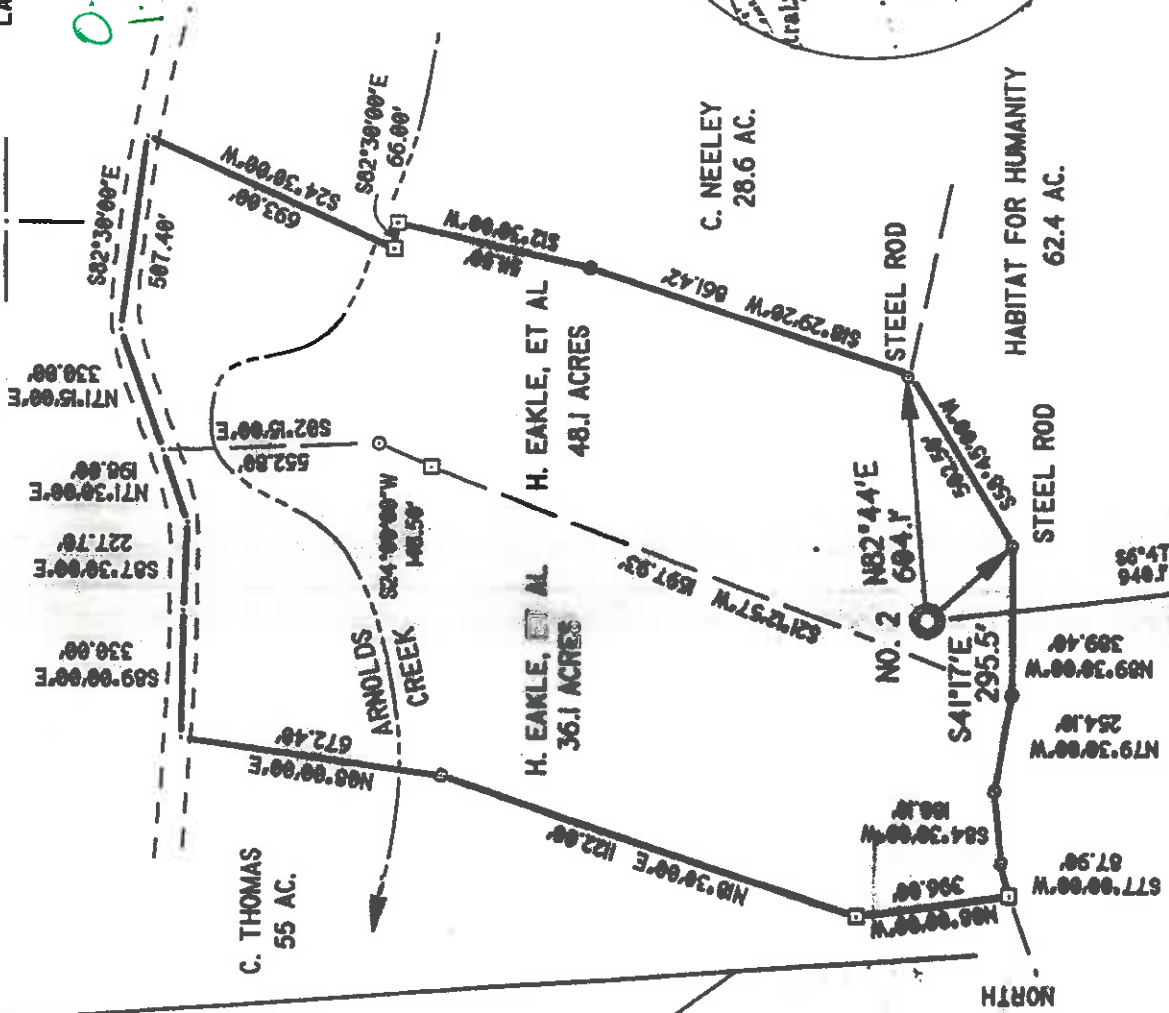
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 'GAS' PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1065' WATERSHED ARNOLDS CREEK
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
 SURFACE OWNER HOWARD EAKLE, ET AL ACREAGE 48.1
 ROYALTY OWNER C. P. HUDSON HEIRS LEASE ACREAGE 244.6
 PROPOSED 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'

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

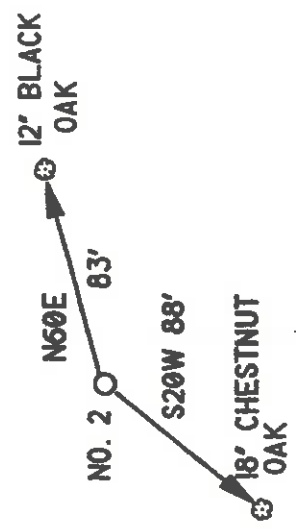
LATITUDE 39°17'30"

LONGITUDE 80°47'30"

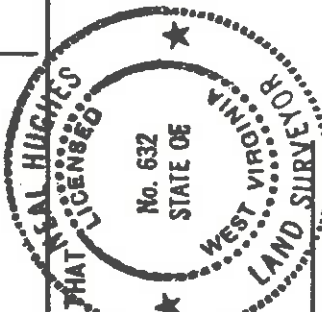
0.055
1.400



REFERENCE POINTS



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. HUDSON 2
 API WELL NO. 47-017-04292
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-58
 PROVEN SOURCE OF ELEVATION KNOB - 1231' SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

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

LOCATION: ELEVATION 1065' WATERSHED ARNOLDS CREEK
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
 SURFACE OWNER HOWARD EAKLE, ET AL ACREAGE 48.1
 ROYALTY OWNER C. P. HUDSON HEIRS LEASE ACREAGE 244.6

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' AUG 2 1996

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA 417 ADDRESS 22 GARTON PLAZA WESTON, WV 26452
 COUNTY NAME PERMIT

Handwritten mark resembling a stylized '2' or '3' with a horizontal line and a small hook.

Handwritten mark resembling a stylized '4' or '5' with a vertical line and a hook.

RECEIVED
WV Division of
Environmental Protection

AUG 1 1997

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: EAKLES, HOWARD ETAL.

Operator Well No.: HUDSON #2

LOCATION: Elevation: 815.00

Quadrangle: WEST UNION

District: CENTRAL
Latitude: 325 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 7400 Feet West of 80 Deg. 47 Min. 30 Sec.

County: DODDRIDGE
Feet South of 39 Deg. 17 Min. 30 Sec.
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: 09/10/96
Well Work Completed: 09/24/96

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5519'
Fresh water depths (ft) 137'
Salt water depths (ft) 1254'

Is coal being mined in area (Y / N) ? N
Coal Depths (ft) : None Reported

OPEN FLOW DATA

- Warren
- Speechley
- Balltown
- Riley
- Benson

- 3430' - 3492'
- 3504' - 3620'
- 3816' - 4547'
- 4592' - 4656'
- 5046' - 5055'
- 5288' - 5379'

Producing formation Alexander Pay zone depth (ft) _____
Gas: Initial open flow 30 MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,459 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: Jan Chapman PRESIDENT

Date: 3-26-97

APR 28 1997

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	1102.9'	1102.9'	290 sks To Surface
4 1/2"	5435.75'	5435.75'	460 sks
2 3/8"		5292	

Hudson #2 (47-017-04292)
Four Stage Foam Frac - Halliburton

1st Stage: Alexander (13 holes) (5312' - 5371')
60 Quality Foam. 500 gal. 15% HCL.
60,000# 20/40 sand, 550,000 SCF N2,
811 bbis foam.

2nd Stage: Benson (10 holes) (5047.5' - 5049.75')
60 Quality Foam. 750 gal 15% HCL.
35,000# 20/40 sand, 428,000 SCF N2,
518 bbis foam.

3rd Stage: Riley (8 holes) (4613.75' - 4631.75')
Balltown (2 holes) (4521.5' - 4521.75')
60 Quality Foam. 750 gal 15% HCL.
10,000# 80/100 sand, 30,000# 20/40 sand,
508,000 SCF N2, 552 bbis foam.

4th Stage: Balltown (6 holes) (3877.75' - 4031.75')
Spechley (3 holes) (3606.75' - 3607.25')
Warren (3 holes) (3475.75' - 3476.25')
60 Quality Foam, 1,000 gal 15% HCL.
5,000# 80/100 sand, 35,000# 20/40 sand,
390,000 SCF N2, 589 bbis foam.

WELL LOG

Fill	0	10	
Sand & Shale & Red Rock	10	135	
Sand	135	172	Damp @ 137'
Sand & Shale	172	767	
Red Rock	767	795	
Sand & Shale & Red Rock	795	1253	
Sand & Shale	1253	2036	Damp @ 1254'
Little Lime	2036	2060	
Shale	2060	2070	
Big Lime	2070	2122	
Big Injun	2122	2223	
Shale	2223	2360	
Weir	2360	2477	
Shale	2477	2558	
Berea	2558	2565	
Sand & Shale	2565	2760	
Gordon	2760	2779	
Sand & Shale	2779	3430	
Warren	3430	3492	
Shale	3492	3504	
Spechley	3504	3620	
Shale	3620	3816	
Balltown	3816	4547	
Shale & Sand	4547	4592	
Riley	4592	4656	
Shale	4656	4834	
2nd Riley	4834	4902	
Shale	4902	4937	
3rd Riley	4937	4998	
Shale	4998	5046	
Benson	5046	5055	
Sand & Shale	5055	5288	
Alexander	5288	5379	
Sand & Shale	5379	5519	
T.D.	5519		

Gas Checks

2029' No Show
2995' Odor
3525' Odor
3932' No Show
4307' No Show
4710' 8/10ths 1"/H²O
5115' 8/10ths 1"/H²O
TD 8/10ths 1"/H²O

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

475
 25655 (1) 671

- 1) Well Operator: KEY OIL COMPANY
- 2) Operator's Well Number: HUDSON #2 3) Elevation: 1065'
- 4) Well type: (a) Oil X / or Gas X / Issued 08/20/96
 (b) If Gas: Production X / Underground Storage / Expires 08/20/98
Deep / Shallow X /
- Proposed Target Formation(s): 439 ALEXANDER
- Proposed Total Depth: 5500 feet
- Approximate fresh water strata depths: 125
- Approximate salt water depths: NONE REPORTED ON OFFSET WELLS
- Approximate coal seam depths: NONE Permitting Office of Oil & Gas
AUG 19 1996
- 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. drilling	FOOTAGE INTERVALS	Left in well	Fill-up (cu. ft.)	CEMENT
Conductor	11 3/4	ERW	42	42	0		
Fresh Water	8 5/8	ERW	23	1065	1065	290 SKS. TO SURFACE	
Coal						<u>0.k. mibe</u>	
Intermediate							
Production	4 1/2	J-55	10.5		5400	365 SKS.	
Tubing	1.5						
Liners							

PACKERS : Kind
 Sizes
 Depths set

For Office of Oil and Gas Use Only

07/20 Fee(s) paid: Well Work Permit Reclamation Fund WPC2

Plat WW-9 WW-2B Bond Agent (Type)

1) Date: JULY 29, 1996
2) Operator's well number HUDSON #2
3) API Well No: 47 - 01 / - 4292
State County Permit

003
(03)

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: 5) (a) Coal Operator: _____
(a) Name HOWARD EAKLES Name NONE
Address RT. 1 BOX 325C Address _____
WEST UNION, WV 26456
(b) Name FREDERICK EAKLES (b) Coal Owner(s) with Declaration
Address RT. 1 BOX 267B Name _____
WEST UNION, WV 26456 Address _____
(c) Name MARY JO EAKLES Name _____
Address RT. 1 BOX 267B Address _____
WEST UNION, WV 26456
Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration
Address RT. 2 BOX 135 Name _____
SALEM, WV 26426 Address _____
Telephone (304)- 782-1043

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

