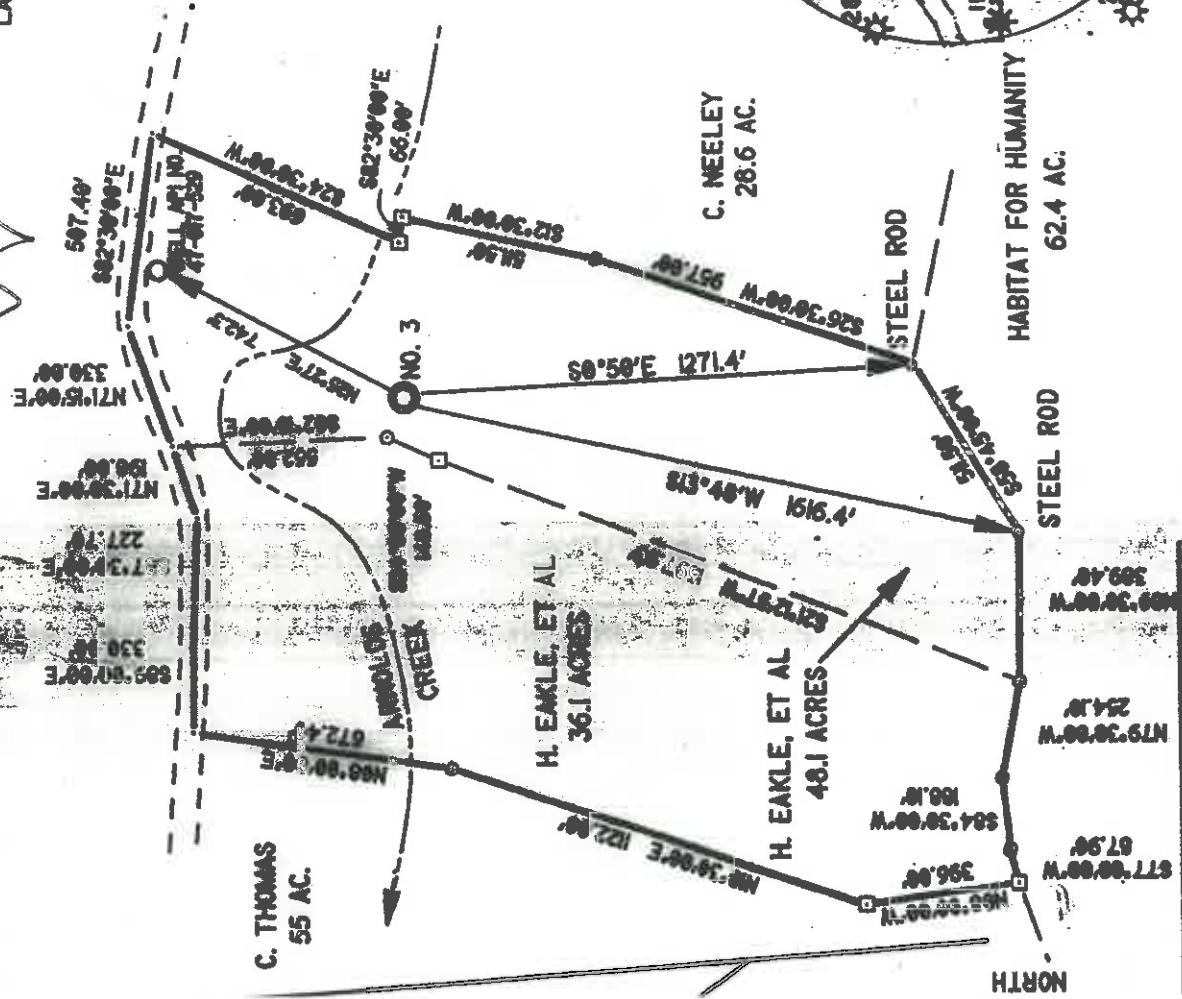


6,950'

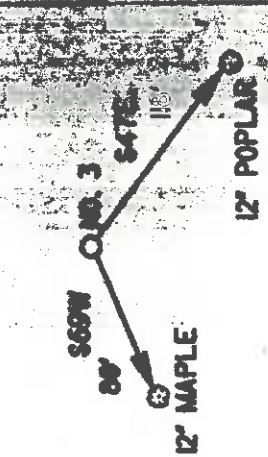
LATITUDE 39°20'00"

LONGITUDE 80°47'30"

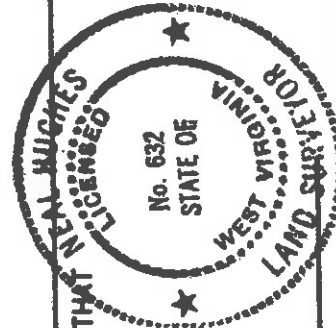
2.68's
1.33'w



REFERENCE POINTS



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



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

DATE JULY 25 19 96
 OPERATORS WELL NO. HUDSON 3 REVISED
 API WELL NO. 47 - 017 - 04293 X
 COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

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

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

LOCATION: ELEVATION 845' WATERSHED ARNOLDS CREEK
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION ACREAGE 48.1
 SURFACE OWNER HOWARD EAKLE, ET AL
 ROYALTY OWNER C. P. HUDSON HEIRS LEASE ACREAGE 246

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'

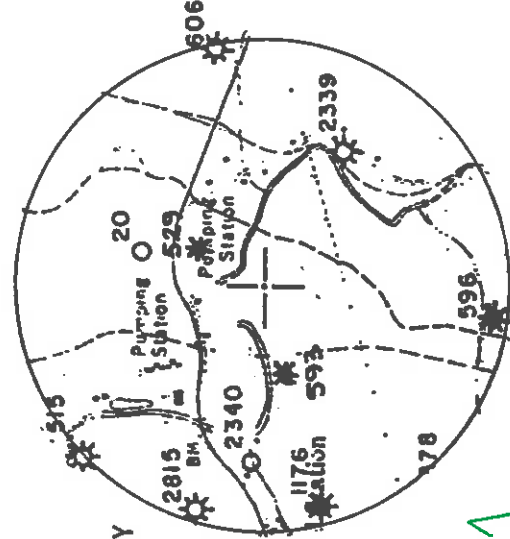
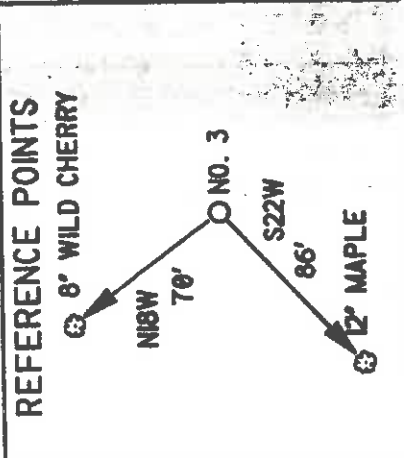
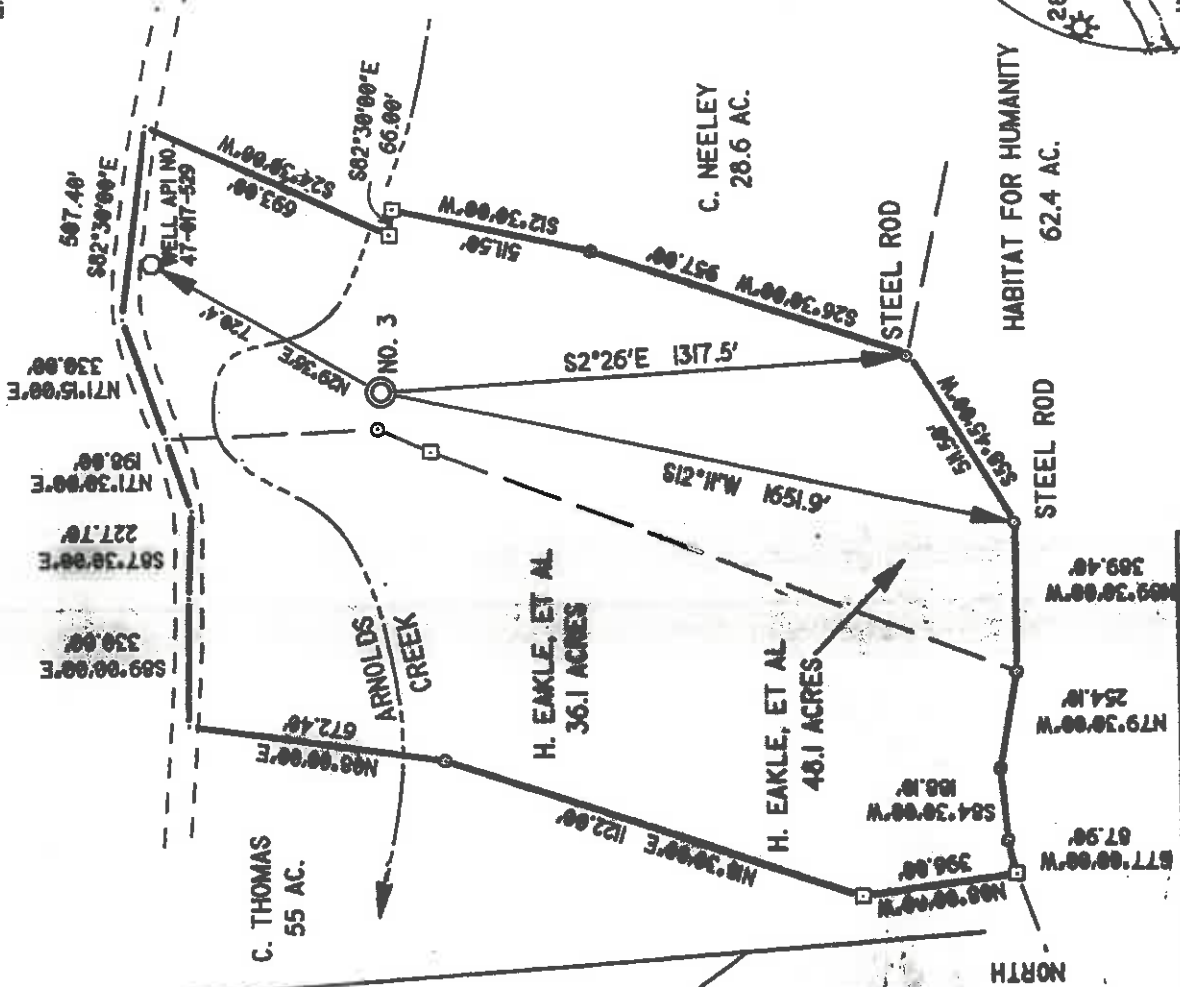
COUNTY NAME PERMIT

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT
 22 GARTON PLAZA 22 GARTON PLAZA
 WESTON, WV 26452 WESTON, WV 26452

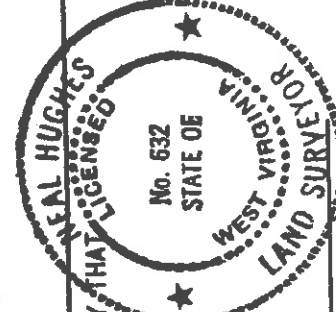
LATITUDE 39°20'00"

LONGITUDE 80°47'30"

14,000'



632



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

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

DATE JULY 25, 19 96
OPERATORS WELL NO. HUDSON 3
API WELL NO. 47 - 017 - 04243
COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY	FILE NO. 96-58	STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION
PROVEN SOURCE OF ELEVATION	SCALE 1" = 500'	
WELL TYPE: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/>	WASTE DISPOSAL <input type="checkbox"/>	STORAGE <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input type="checkbox"/>
LOCATION ELEVATION 840'	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 246
PROPOSED WORK: DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/>		FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/>
PERFORATE NEW FORMATION <input type="checkbox"/>		CLEAN OUT AND REPLUG <input type="checkbox"/> OTHER <input type="checkbox"/>
PHYSICAL CHANGE IN WELL (SPECIFY)	TARGET FORMATION ALEXANDER	ESTIMATED DEPTH 5600'
		PERMIT AUG 24 1996
WELL OPERATOR ADDRESS	KEY OIL COMPANY	DESIGNATED AGENT
22 GARTON PLAZA WESTON, WV 26452	JAN CHAPMAN 22 GARTON PLAZA WESTON, WV 26452	



APR 28 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 #3

LOCATION: Elevation: 840

Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
Latitude: 14000 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 6975 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: 08/31/96
Well Work Completed: 09/10/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5350'
Fresh water depths (ft) 109'
Salt water depths (ft) 1192'

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

OPEN FLOW DATA

Speechley
Balltown
Riley
Benson

3233' - 3346'
3544' - 4268'
4318' - 4384'
4770' - 4780'

Producing formation _____
Gas: Initial open flow 15 MCF / d
Final open flow 1,391 MCF / d
Time of open flow between initial and final tests _____
Static rock pressure 1700 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

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:

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"	838.20	838.2	225 sks To Surface
4 1/2"	5168.45	5168.45	440 sks
2 3/8"		5017	

Hudson #3 (47-017-04293)
 Four Stage Foam Frac - Halliburton

1st Stage: Alexander (11 holes) (5037.25' - 5089.25') 60 Quality Foam, 500 gal, 15% HCL, 60,000# 20/40 sand, 550,000 SCF N2, 807 bbis foam.

2nd Stage: Benson (10 holes) (4775' - 4777.25') 60 Quality Foam, 750 gal 15% HCL, 35,000# 20/40 sand, 428,000 SCF N2, 514 bbis foam.

3rd Stage: Riley (10 holes) (4345.25' - 4379.5') 60 Quality Foam, 750 gal 15% HCL, 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 548 bbis foam.

4th Stage: Balltown (6 holes) (3625.25' - 3746.25') 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

Dirt	0	3	
Sand & Shale	3	27	
Shale & Red Rock	27	109	
Sand	109	119	1/2" H ² O @ 109'
Red Rock & Shale	119	176	
Sand	176	185	
Sand & Shale & Red Rock	185	487	
Lime & Sand & Shale	487	680	
Sand	680	698	
Sand & Shale & Red Rock	698	1104	
Sand	1104	1328	Damp @ 1192'
Sand & Shale & Red Rock	1328	1763	
Little Lime	1763	1786	
Sand & Shale	1786	1796	
Big Lime	1796	1850	
Big Injun	1850	1954	<u>Gas Checks</u>
Shale	1954	2090	1736' No Show
Weir	2090	2204	
Shale	2204	2288	
Berea	2288	2295	
Sand & Shale	2295	2498	
Gordon	2498	2527	
Shale	2527	3160	
Warren	3160	3218	
Shale	3218	3233	
Speechley	3233	3346	
Shale	3346	3544	
Balltown	3544	4268	
Shale & Sand	4268	4318	
Riley	4318	4384	
Shale	4384	4686	
3rd Riley	4686	4725	
Shale	4725	4770	
Benson	4770	4780	
Sand & Shale	4780	5016	
Alexander	5016	5100	
Sand & Shale	5100	5350	
T.D.	5350		

TD 2/10ths 2" w/H²O
 Collars 2/10ths 1" w/H²O

01/1-7293
 STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: KEY OIL COMPANY 25655 671
- 2) Operator's Well Number: HUDSON #3 3) Elevation: 840'
- 4) Well type: (a) Oil X / or Gas X / Issued 08/20/96
 (b) If Gas: Production X / Underground Storage Shallow Exp. 08/20/98
 Deep 439 /
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5400 feet
- Approximate fresh water strata depths: 60
- Approximate salt water depths: NONE REPORTED ON OFFSET WELLS.
- 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)

RECEIVED
 WV Division of
 Environmental Protection
 AUG 19 1996
 Permitting
 Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	FOOTAGE INTERVALS	CEMENT
				FOR DRILLING		
				Left in well		Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42	42	0	
Fresh Water	8 5/8	ERW	23	840	840	230 SKS. TO SURFACE
Coal						
Intermediate						
Production	4 1/2	J-55	10.5	5250	5250	365 SKS.
Tubing	1.5					
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Office of Oil and Gas Use Only

107/26 Fee(s) paid: Well work Permit Reclamation Fund WPCP

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

22413

1) Date: JULY 29, 1996
2) Operator's well number HUDSON #3
3) API Well No: 47 - 017 - 4293
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: 5) (a) Coal Operator: NONE
(a) Name HOWARD EAKLES
Address RT. 1 BOX 325C WEST UNION, WV 26456
(b) Name FREDERICK EAKLES
Address RT. 1 BOX 267B WEST UNION, WV 26456
(c) Name MARY JO EAKLES
Address RT. 1 BOX 267B WEST UNION, WV 26456
(b) Coal Owner(s) with Declaration Name Address
(c) Coal Lessee with Declaration Name Address
Inspector MIKE UNDERWOOD
Address RT. 2 BOX 135 SALEM, WV 26426
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.

West Operator KEY OIL COMPANY
BY *[Signature]*
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

