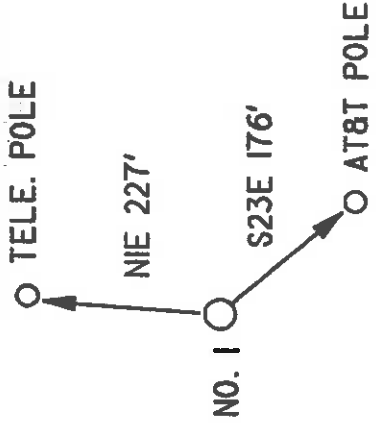


REFERENCE POINTS



LATITUDE 39°17'30"

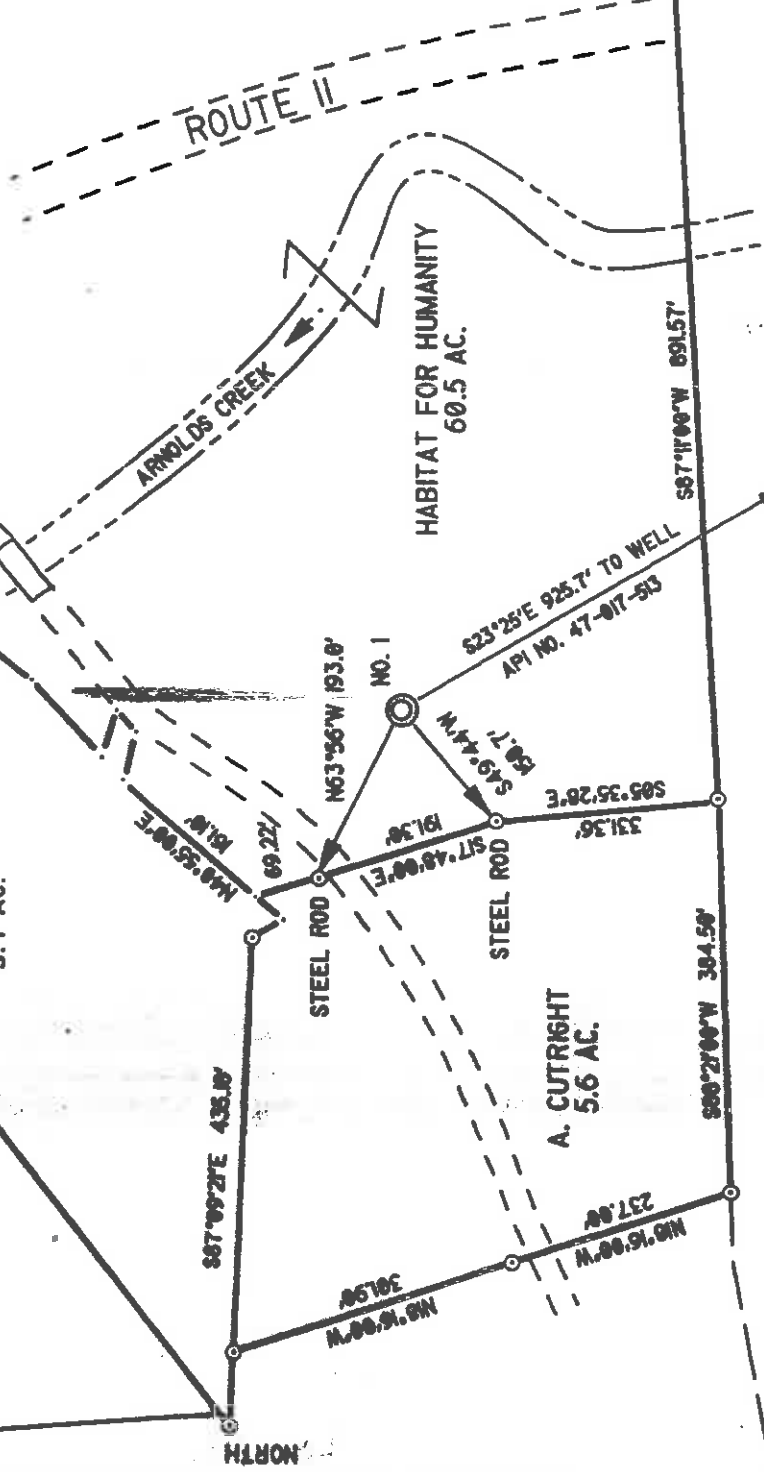
LONGITUDE 80°47'30"

HABITAT FOR HUMANITY  
60.5 AC.

A. COTTRILL  
5.4 AC.

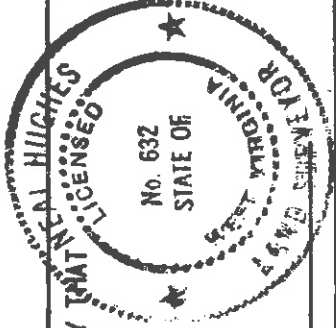
A. CUTRIGHT  
5.6 AC.

HABITAT FOR HUMANITY  
60.5 AC.



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 Hylke



1) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE JULY 25, 19 96

OPERATORS WELL NO. HUDSON I

API WELL NO. 47-017-04289

MINIMUM DEGREE OF ACCURACY 1/200

FILE NO. 96-58

STATE OF WEST VIRGINIA

PROVEN SOURCE OF ELEVATION KNOB - 1231'

SCALE 1" = 200'

DEPARTMENT OF ENERGY

OIL AND GAS DIVISION

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

LOCATION: ELEVATION 815'

DISTRICT CENTRAL

SURFACE OWNER HABITAT FOR HUMANITY

ROYALTY OWNER C. P. HUDSON HEIRS

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' 5400'

WELL OPERATOR KEY OIL COMPANY

ADDRESS 22 GARTON PLAZA 475

WESTON, WV 26452

DESIGNATED AGENT JAN CHAPMAN

ADDRESS 22 GARTON PLAZA

WESTON, WV 26452

PERMIT 4115 0 1996

COUNTY NAME

PERMIT

Environmental Protection

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

APR 1 1997

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work  
Farm name: DOD. & RIT. CO. HABITAT  
Operator Well No. : HUDSON #1

LOCATION: Elevation: 815.00  
Quadrangle: WEST UNION  
District: CENTRAL  
County: DODDRIDGE  
Latitude: 1100 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude: 6200 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: 08/07/96  
Well Work Commenced: 08/26/96  
Well Work Completed: 09/12/96

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) \_\_\_\_\_ 5300'  
Fresh water depths ( ft ) 20', 137', 351'  
Salt water depths ( ft ) 1130', 1996'

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

OPEN FLOW DATA

Warren  
Speechley  
Balltown  
Rileys  
Benson  
Producing formation \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF / d  
Final open flow 1,570 MCF / d  
Time of open flow between initial and final tests \_\_\_\_\_ N/A  
Static rock pressure 1660 psig ( surface pressure ) after 96 Hours  
Pay zone depth ( ft ) 5006' - 5094'  
Oil: Initial open flow \_\_\_\_\_ Bbl / d  
Oil: Final open flow \_\_\_\_\_ show \_\_\_\_\_ Bbl / d  
Hours \_\_\_\_\_

Second producing formation \_\_\_\_\_ Commingled \_\_\_\_\_  
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  
Pay zone depth ( ft ) \_\_\_\_\_  
Oil: Initial open flow \_\_\_\_\_ Bbl / d  
Oil: Final open flow \_\_\_\_\_ Bbl / d  
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:   
Date: 3-26-97

PRESIDENT

APR 28 1997

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	866	866	220 sks To Surface
4 1/2"	5148	5148	360 sks
2 3/8"		5015	

Hudson #1 (47-017-04289)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander ( 13 holes ) ( 5033.25' - 5092.25' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 807 bbis foam.
2nd Stage:	Benson ( 6 holes ) ( 4769' - 4770.25' ) Third Riley ( 4 holes ) ( 4605.75' - 4606.5' )	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 428,000 SCF N2, 514 bbis foam.
3rd Stage:	Riley ( 8 holes ) ( 4328.5' - 4366.25' ) Balltown ( 5 holes ) ( 4134' - 4238.25' )	60 Quality Foam. 1000 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 548 bbis foam.
4th Stage:	Balltown ( 3 holes ) ( 3727.75' - 3728.25' ) Speechley ( 4 holes ) ( 3316.75' - 3317.5' ) Warren ( 3 holes ) ( 3187' - 3187.5' )	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	
Top soil & Sand	10	15	
Gravel	15	20	1 1/2" H <sup>2</sup> O @ 20'
Sand & Shale & Red Rock	20	351	Damp @ 137'
Sand	351	375	1 1/2" H <sup>2</sup> O @ 351'
Sand & Shale & Red Rock	375	1090	
Sand	1090	1156	Damp @ 1130'
Sand & Shale	1156	1450	
Sand	1450	1468	
Sand & Shale	1468	1741	
Little Lime	1741	1764	
Shale	1764	1774	
Big Lime	1774	1836	
Big Injun	1836	1926	
Shale	1926	2074	
Weir	2074	2188	
Shale	2188	2272	
Berea	2272	2282	
Sand & Shale	2282	3144	
Warren	3144	3207	4023' Show
Shale	3207	3217	4304' Show
Speechley	3217	3330	TD Show
Shale	3330	3526	
Balltown	3526	4262	
Shale & Sand	4262	4306	
Riley	4306	4372	
Shale	4372	4554	
2 <sup>nd</sup> Riley	4554	4622	
Shale	4622	4657	
3 <sup>rd</sup> Riley	4657	4717	
Shale	4717	4764	
Benson	4764	4774	
Sand & Shale	4774	5006	
Alexander	5006	5094	
Sand & Shale	5094	5300	
T.D.	5300		

Gas Checks

1530'	No Show
1717'	No Show
1916'	Oil Odor
2523'	No Show
3495'	No Show
4023'	Show
4304'	Show
TD	Show

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

- 1) Well Operator: KEY OIL COMPANY 28658 (1) 671
- 2) Operator's Well Number: HUDSON #1 3) Elevation: 815'  
 Well type: (a) Oil X / or Gas X / Issued 08/07/96  
 (b) If Gas: Production X / Undergound Storage / Expires 08/07/98  
Deep / Shallow X /
- Proposed Target Formation(s): ALEXANDER <sup>439</sup> RECEIVED  
 WV Division of Environmental Protection  
 Aud 05 1996
- Proposed Total Depth: 5400 feet
- Approximate fresh water strata depths: 40
- 8) Approximate salt water depths: NONE REPORTED ON OFFSET WELLS
- 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 Open well
- 12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	INTERVALS	CEMENT
Conductor	11 3/4	ERW	42	42	0	Fill-up (cu. ft.) <u>0</u>
Fresh Water	8 5/8	ERW	23	815	815	<u>20 SKS. TO SURFACE</u>
Coal						<u>38 CS 10-11.3</u>
Intermediate						<u>38 CS 10-11.2A</u>
Production	4 1/2	J-55	10.5	5200	5200	365 SKS.
Tubing	1.5					<u>38 CS 10-11.1</u>
Liners						

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

For Office of Oil and Gas Use Only

Fee(s) paid: Plat | Plat | WW19 | WW-29 | Bond | Reclamation Fund | WPC2  
Plat | WW19 | WW-29 | Bond | Reclamation Fund | WPC2  
 (Type) \_\_\_\_\_ Agent

AUG 05 1996

Permitting  
Office of Oil & Gas

1) Date: JULY 29, 1996  
2) Operator's well number  
HUDSON #1

3) API Well No: 47 - 017 - 4289  
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 DODDRIDGE & RITCHIE COUNTY  
Address HABITAT FOR HUMANITY  
P. O. BOX 164, WEST UNION, WV 26456  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) 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.

Well Operator KEY OIL COMPANY  
By: *[Signature]*  
His: PRESIDENT  
Address 22 GARTON PLAZA  
WESTON, WV 26452  
Telephone 304-269-7102

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

*Karen Cook*  
My commission expires MARCH 24, 2003 Notary Public

