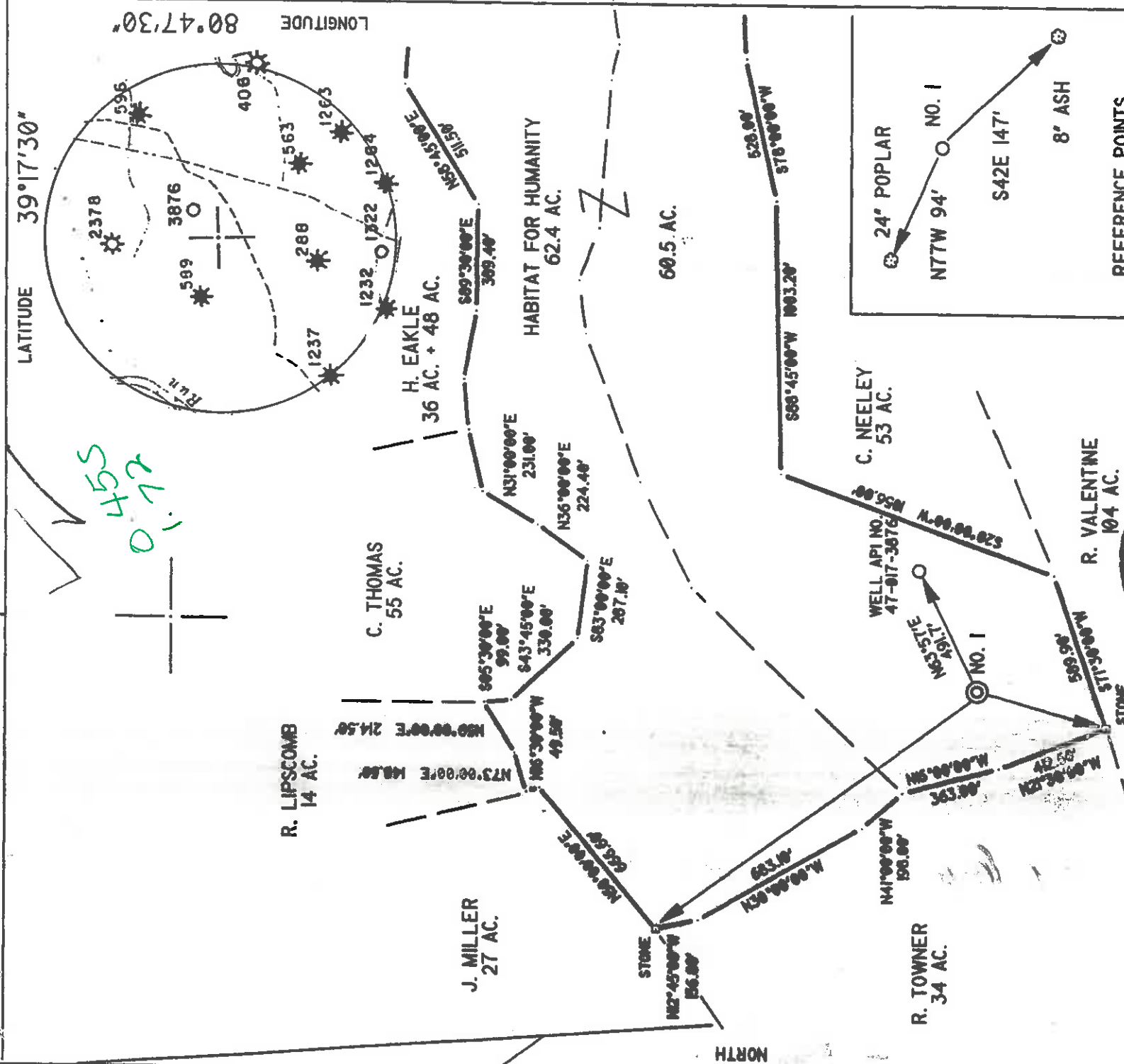


LATITUDE 39°17'30"

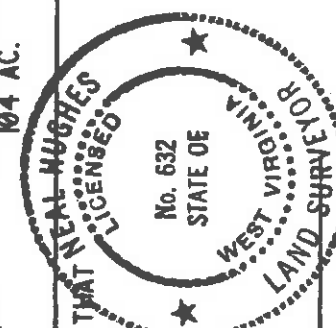
LONGITUDE 80°47'30"



455
472

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. ROLLINS 1
API WELL NO. 47-017-3876
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY	1/200	FILE NO.	96-58	STATE OF WEST VIRGINIA	
PROVEN SOURCE OF ELEVATION	KNOB - 1231'	SCALE	1" = 500'	DEPARTMENT OF ENERGY	
WELL TYPE:	OIL <input checked="" type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID WASTE DISPOSAL <input type="checkbox"/>	'GAS' PRODUCTION	<input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input type="checkbox"/>	OIL AND GAS DIVISION	
LOCATION:	ELEVATION 1140'	WATERSHED	ARNOLDS CREEK	COUNTY NAME	
DISTRICT	CENTRAL	COUNTY	DODDRIDGE	QUADRANGLE	WEST UNION
SURFACE OWNER	HABITAT FOR HUMANITY	ACREAGE	60.5	LEASE ACREAGE	244.6
ROYALTY OWNER	C. P. HUDSON HEIRS	ESTIMATED DEPTH	5600'	TARGET FORMATION	ALEXANDER
PROPOSED WORK:	DRILL <input 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"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/> OTHER <input type="checkbox"/>	PERMIT	4294	DATE	AUG 2 1996
WELL OPERATOR	KEY OIL COMPANY	DESIGNATED AGENT	JAN CHAPMAN	ADDRESS	22 GARTON PLAZA WESTON, WV 26452

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WV Division of
Environmental Protection

APR 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: DOD. & RIT. CO. HABITAT

Operator Well No. : ROLLINS #1

LOCATION: Elevation: 1,140.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 2400

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

Longitude: 9050

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: 09/16/96
Well Work Completed: 09/27/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable Rig
Total Depth (feet) 5659'
Fresh water depths (ft) NONE
Salt water depths (ft) 730'

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

OPEN FLOW DATA

Speechley
Balltown
Rileys
Benson

3543' - 3660'
3880' - 4584'
4628' - 5034'
5078' - 5090'
5326' - 5411'

Producing formation Alexander
Gas: Initial open flow Show MCF / d Pay zone depth (ft) _____
Final open flow 1,476 MCF / d Oil: Initial open flow _____ Bbl / d
Time of open flow between initial and final tests _____ N/A Oil: Final open flow _____ Bbl / d
Static rock pressure 1700 psig (surface pressure) after 96 Hours

Second producing formation Commingle
Gas: Initial open flow _____ MCF / d Pay zone depth (ft) _____
Final open flow _____ MCF / d Oil: Initial open flow _____ Bbl / d
Time of open flow between initial and final tests _____ Oil: Final open flow _____ 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

By: 

Date: 3-26-97

PRESIDENT 28 1997

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	1144.3	1144.3	295 sks To Surface
4 1/2"	5493.25	5493.25	385 sks
2 3/8"		5343	

Rollins #1 (47-017-04294)
Four Stage Foam Frac - Halliburton

1st Stage: Alexander (11 holes) (5363.75' - 5408.5') 60 Quality Foam. 500 gal. 15% HCL.
60,000# 20/40 sand, 550,000 SCF N2,
811 bbls foam.

2nd Stage: Benson (7 holes) (5083.75' - 5085.25') 60 Quality Foam. 750 gal 15% HCL.
Third Riley (3 holes) (5028' - 5028.5') 35,000# 20/40 sand, 394,000 SCF N2,
518 bbls foam.

3rd Stage: Riley (8 holes) (4651.25' - 4668.75') 60 Quality Foam. 750 gal 15% HCL.
Balltown (4 holes) (4554.75' - 4560.25') 10,000# 80/100 sand, 30,000# 20/40 sand,
508,000 SCF N2, 552 bbls foam.

4th Stage: Balltown (8 holes) (3916' - 4198.25') 60 Quality Foam, 1,000 gal 15% HCL.
Speechley (3 holes) (3647.25' - 3647.75') 5,000# 80/100 sand, 35,000# 20/40 sand,
390,000 SCF N2, 589 bbls foam.

WELL LOG

Fill & Clay	0	25	
Sand & Shale	25	180	
Sand & Shale & Red Rock	180	480	
Sand	480	495	
Shale & Red Rock	495	703	
Sand	703	730	
Red Rock & Sand	730	1214	1/4" H ² O @ 730'
Sand & Shale	1214	2041	
Little Lime	2041	2065	
Sand & Shale	2065	2075	
Big Lime	2075	2196	
Big Injun	2196	2252	
Shale	2252	2402	
Weir	2402	2522	
Sand & Shale	2522	3469	
Warren	3469	3534	
Shale	3534	3543	
Speechley	3543	3660	
Shale	3660	3880	
Balltown	3880	4584	
Shale & Sand	4584	4628	
Riley	4628	4710	
Shale	4710	4974	
3 rd Riley	4974	5034	
Sand & Shale	5034	5078	
Benson	5078	5090	
Sand & Shale	5090	5326	
Alexander	5326	5411	
Sand & Shale	5411	5659	
T.D.	5659		

Gas Checks

1923' No Show
2484' No Show
3014' No Show
3385' No Show
3915' Odor
4504' Odor
4846' Show
TD Show

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL WORK PERMIT APPLICATION

1) Well Operator: KEY OIL COMPANY ⁴⁷⁵ 25655 ① 671

2) Operator's Well Number: ROLLINS #1 3) Elevation: 1140'

Well type: (a) Oil X / or Gas X /

*Issued 08/20/96
Expires 08/20/98*

(b) If Gas: Production X / Underground Storage /
Deep /

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Environmental Protection
AUG 19 1996
Office of Oil & Gas Permitting

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5600 feet

Approximate fresh water strata depths: 100

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

12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE FOR DRILLING	LEFT IN WELL	CEMENT
Conductor	11 3/4	ERW	42	42	0	Fill-up (cu. ft.)
Fresh Water	8 5/8	ERW	23	1140	1140	310 SKS. TO SURFACE
Coal						
Intermediate						
Production	4 1/2	J-55	10.5		5450	365 SKS.
Tubing	1.5					
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

103/44 For Office of Oil and Gas Use Only
 Fee(s) paid: Well work Permit Reclamation Fund WPC2
 Plat WW-9 WW-2B Bond _____ (Type)

1) Date: JULY 29, 1996
2) Operator's well number ROLLINS #1
3) API Well No: 47 - 017 - 4294
State WV County ROLLINS Permit 4294

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 HABITAT FOR HUMANITY Name NONE
Address P. O. BOX 164, WEST UNION, WV 26456 Address _____

(b) Name _____ (b) Coal Owner(s) with Declaration Name _____
Address _____ Address _____

(c) Name _____ Name _____
Address _____ Address _____

6) 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: [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 Notary Public

