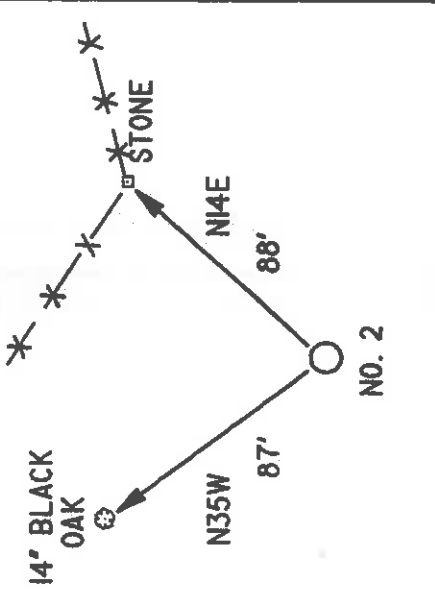


REFERENCE POINTS



LATITUDE 39°17'30"

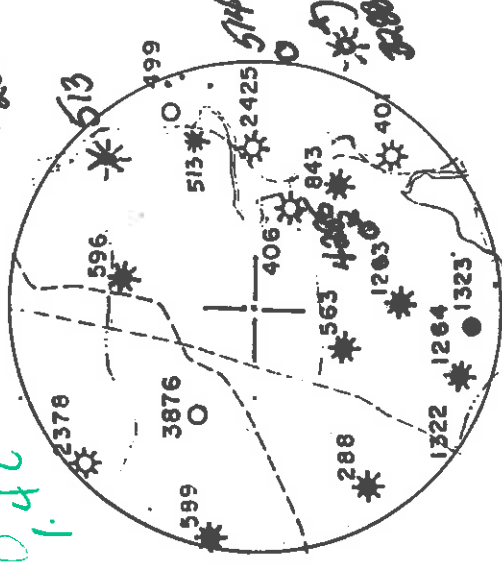
7,500'

2,600'

LONGITUDE 80°47'30"

James P. 8/5/96

0.42
1.42

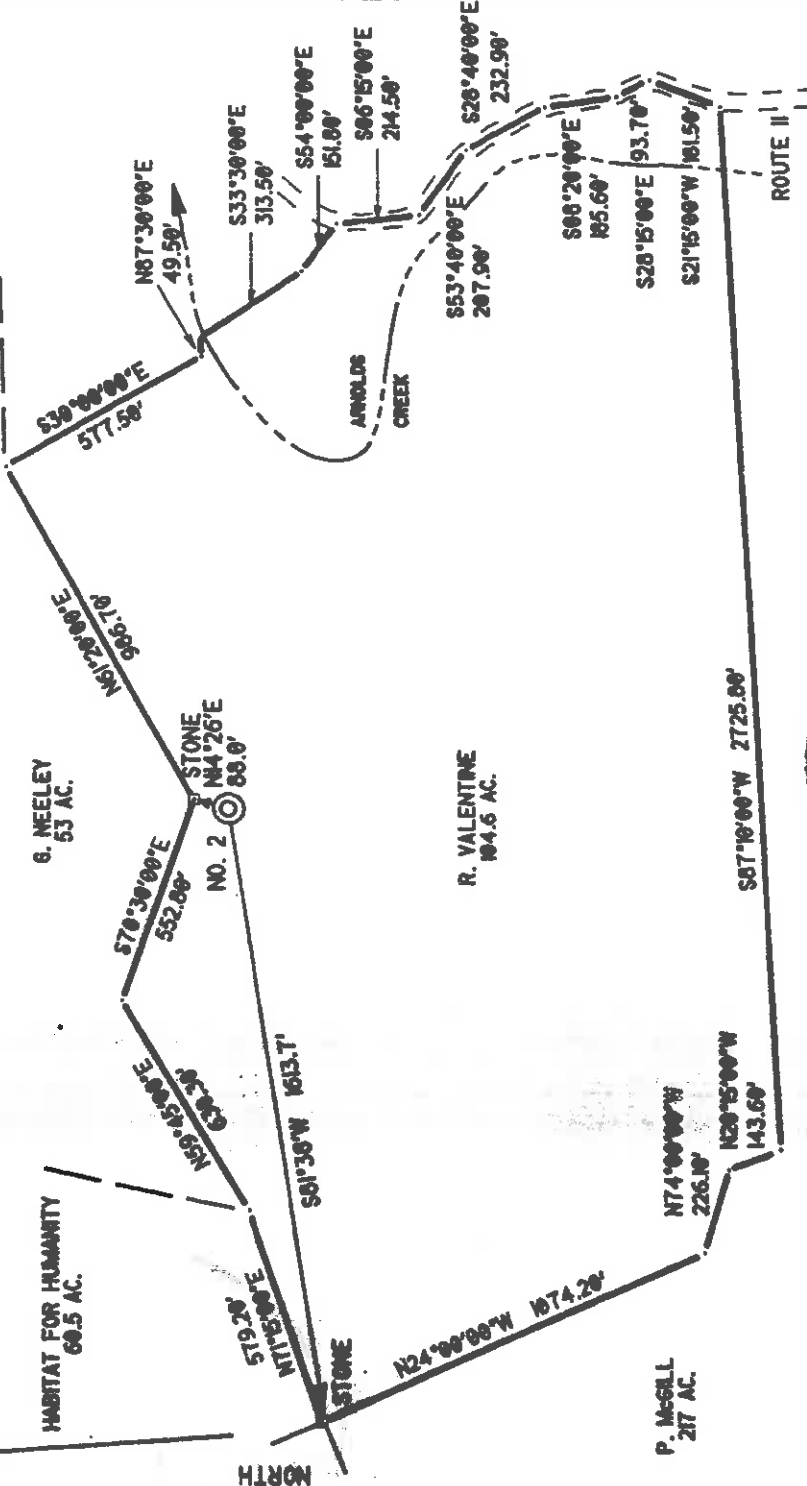


HABITAT FOR HUMANITY
60.5 AC.

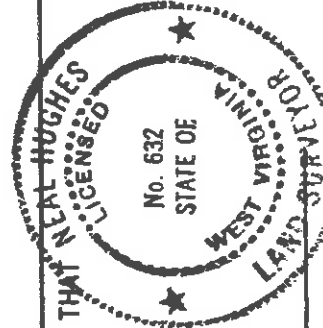
G. NEELEY
53 AC.

R. VALENTINE
104.6 AC.

P. McGILL
217 AC.



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. VALENTINE 2

API WELL NO. 47 STATE VA COUNTY WEST VIRGINIA PERMIT NO. 017-04286

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
OIL AND GAS DIVISION

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

LOCATION: ELEVATION 1065' WATERSHED ARNOLDS CREEK
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
SURFACE OWNER RALPH AND JUDITH VALENTINE ACREAGE 104.6
ROYALTY OWNER RALPH AND JUDITH VALENTINE LEASE ACREAGE 104.6

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'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN COUNTY NAME WEST VIRGINIA
ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA PERMIT
WESTON, WV 26452 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: VALENTINE, RALPH & JUDITH

Operator Well No.: VALENTINE #2

LOCATION: Elevation: 1,065.00

Quadrangle: WEST UNION

District: CENTRAL
Latitude: 2600 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 7500 Feet West of 80 Deg. 47 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: 08/05/96
Well Work Commenced: 08/20/96
Well Work Completed: 08/27/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5500'
Fresh water depths (ft) 469' 499'
Salt water depths (ft) NONE

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"	1104	1104	290 sks To Surface
4 1/2"	5462.1	5462.1	450 sks
2 3/8"		5315	

OPEN FLOW DATA

Producing formation _____
Gas: Initial open flow 15 MCF / d Balltown
Final open flow 1,391 MCF / d Rileys
Time of open flow between initial and final tests _____ Benson
Static rock pressure 1775 psig (surface pressure) after 96 Hours
Pay zone depth (ft) 5296' - 5384'
Oil: Initial open flow 0 Bbl / d
Oil: Final open flow show Bbl / d
N/A Hours

Second producing formation _____
Gas: Initial open flow _____ MCF / d Commingled
Final open flow _____ MCF / d Oil: Initial open flow _____ Bbl / d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours
Oil: Final open flow _____ Bbl / d

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

APR 28 1997

By: 

PRESIDENT

Date: 3-26-97

Valentine #2 (47-017-04286)
 Four Stage Foam Frac - Halliburton

1st Stage: Alexander (10 holes) (5335.25' - 5370.75) 60 Quality Foam. 500 gal. 15% HCL.
 60,000# 20/40 sand, 550,000 SCF N2,
 810 bbis foam.

2nd Stage: Benson (6 holes) (5056.5' - 5057.75') 60 Quality Foam. 750 gal 15% HCL.
 Third Riley (4 holes) (4991.25' - 5000') 35,000# 20/40 sand, 428,000 SCF N2,
 517 bbis foam.

3rd Stage: Riley (6 holes) (4625.75' - 4657.25') 60 Quality Foam. 750 gal 15% HCL.
 Balltown (5 holes) (4522.5' - 4530.25') 10,000# 80/100 sand, 30,000# 20/40 sand,
 508,000 SCF N2, 551 bbis foam.

4th Stage: Balltown (10 holes) (4020.25' - 4036.25') 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	5	
Red Rock	5	15	
Sand	15	25	
Sand & Shale & Red Rock	25	474	Damp @ 469'
Sand & Shale	474	623	½" H ² O @ 499'
Red Rock	623	650	
Sand & Shale & Red Rock	650	1070	
Sand & Shale	1070	1995	
Little Lime	1995	2020	
Shale	2020	2035	
Big Lime	2035	2129	
Big Injun	2129	2222	
Shale	2222	2368	
Weir	2368	2485	
Shale	2485	2565	
Berea	2565	2573	
Sand & Shale	2573	3434	
Warren	3434	3498	
Shale	3498	3511	
Speechley	3511	3630	
Shale	3630	3817	
Balltown	3817	4554	
Shale & Sand	4554	4596	
Riley	4596	4669	
Shale	4669	4972	
3 rd Riley	4972	5006	
Shale	5006	5052	
Benson	5052	5061	
Sand & Shale	5061	5296	
Alexander	5296	5384	
Sand & Shale	5384	5500	
T.D.	5500		

Gas Checks

1806' No Show
 2023' No Show
 2524' 1/10ths ½" w/H²O
 3022' 1/10ths ¼" w/H²O
 3521' 2/10ths ¼" w/H²O
 4022' 1/10ths ½" w/H²O
 4426 1/10ths 1" w/H²O
 TD 2/10ths 1" w/H²O

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

017 4286

1) Well Operator: KEY OIL COMPANY 28655 ① 671

2) Operator's Well Number: VALENTINE #2 3) Elevation: 1065'

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

(b) If Gas: Production X / Underground Storage /
 Deep 439 / Shallow X /

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5600 feet

Approximate fresh water strata depths: 100

8) Approximate salt water depths: NONE REPORTED ON NEARBY 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 New Well

12) CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT per ft.	FOOTAGE	LEFT IN well	FILL-up (cu. ft.)	CEMENT INTERVALS
Conductor	11 3/4	ERW	42	42	0	38CSP-1811.3	
Fresh Water	8 5/8	ERW	23	1065	1065	290 SKS. TO SURFACE	
Coal						38CSP1811.2.2	
Intermediate							
Production	4 1/2	J-55	10.5	5450	5450	365 SKS.	
Tubing	1.5					38CSP1811.1	
Liners							

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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

RECEIVED
 WV Division of
 Environmental Protection
 JUL 30 1996
 Issued 06/05/96
 Expires 08/05/98
 Office of Oil & Gas
 Permitting

21915

06/20/96

RECEIVED
WV Division of
Environmental Protection
JUL 30 1996

1) Date: JULY 29, 1996
2) Operator's well number VALENTINE #2
3) API Well No: 47 - 017 - 4286
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 Name NONE Address NONE
(a) Name RALPH & JUDITH VALENTINE Address P. O. BOX 34 WEST UNION, WV 26456
(b) Name Address
(b) Coal Owner(s) with Declaration Name Address
(c) Name Address
Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration Name Address
Address RT. 2 BOX 135 SALEW, 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: *Karen Cook*
 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

