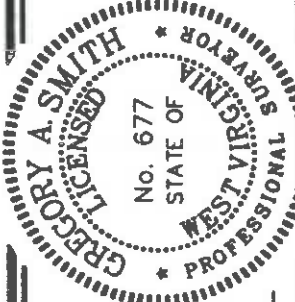


FORM WV 6
 HATTIE O. DOTSON LEASE
 N/F A. KNIGHT
 235 ACRES TOTAL
 WELL NO. 2
 REVISED

5.000' LATITUDE 39°17'30"
 14.580' LONGITUDE 80°52'30"

I THE UNDERSIGNED, 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.

P.S. Gregory A. Smith
 677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JANUARY 6, 19 98
 OPERATORS WELL NO. HATTIE O. DOTSON #2.
 API WELL NO. 47-017-4405
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3864P2 (64-60)
 PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 854'
 SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



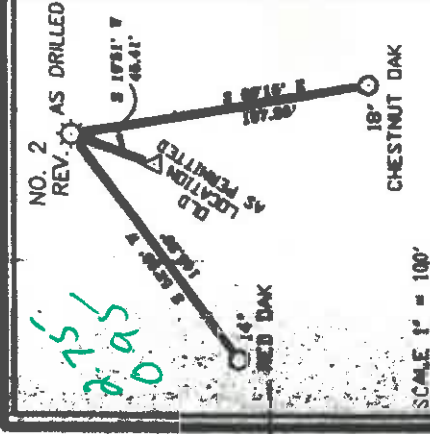
WELL TYPE : OIL ___ GAS INJECTION ___ WASTE DISPOSAL ___
 IF "GAS" PRODUCTION STORAGE ___ DEEP ___ SHALLOW ___

LOCATION : ELEVATION 1008' WATERSHED TRIBUTARY OF CABIN RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE PENNSBORO 7.5'
 SURFACE OWNER WESTVACO CORPORATION ACREAGE 150
 ROYALTY OWNER HATTIE O. DOTSON HEIRS LEASE ACREAGE 235

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'

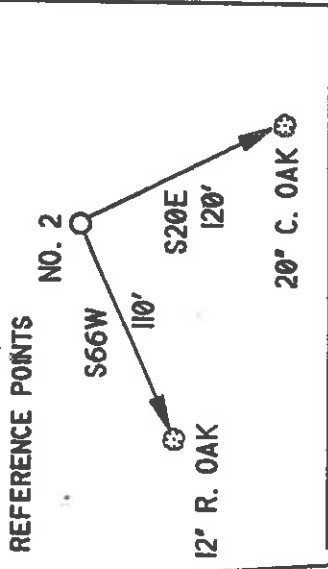
WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

REFERENCES



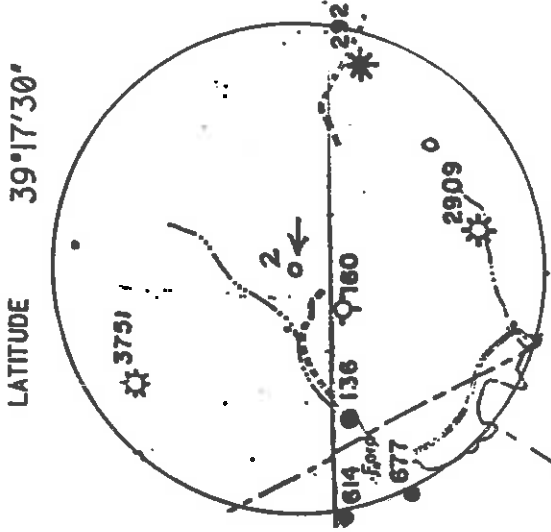
6-1. 89

JAN 09 1998

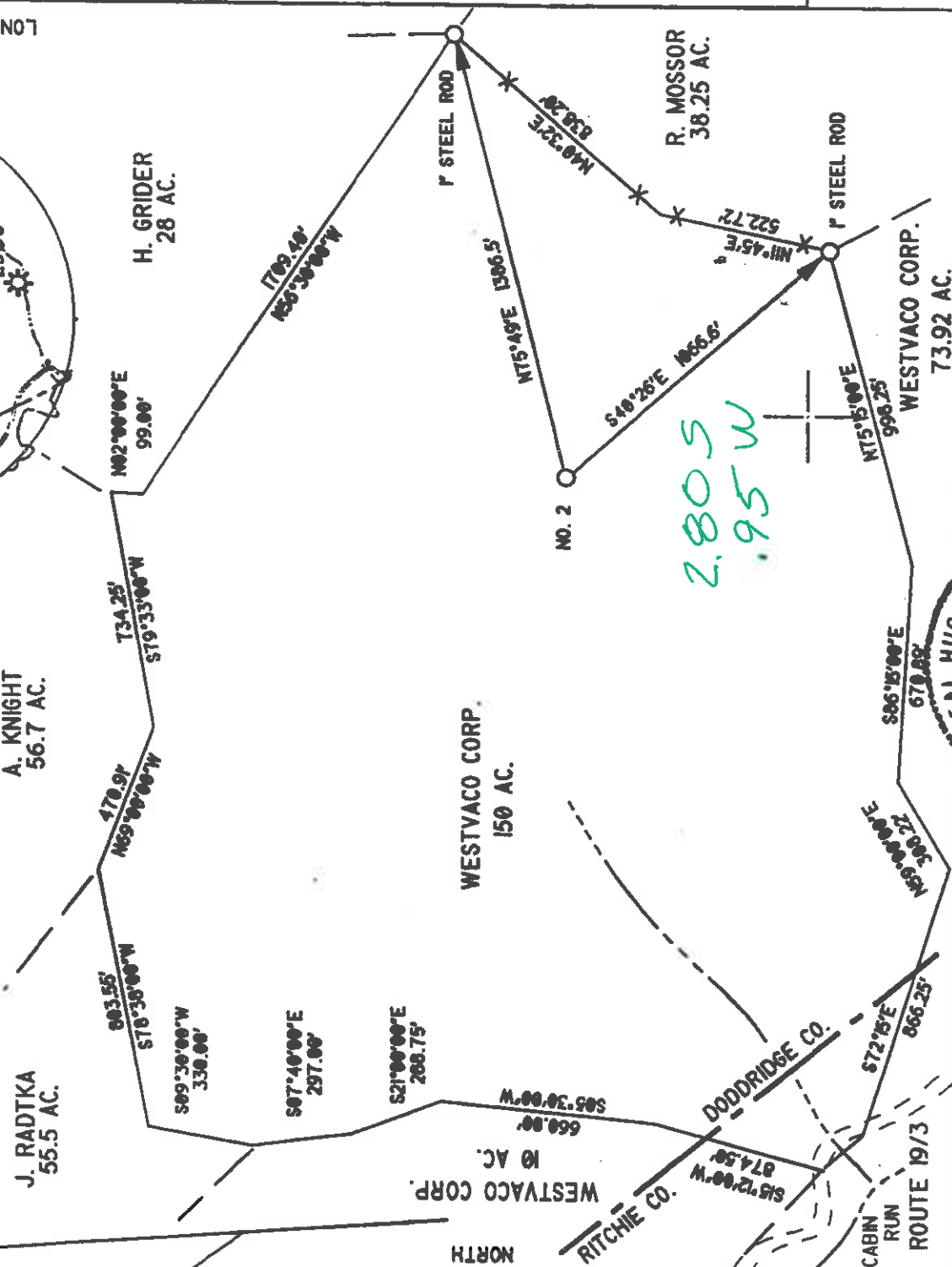


LATITUDE 39°17'30"

LONGITUDE 80°52'30"

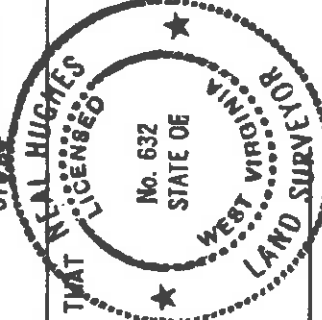


Jamie
10/1/97



2.805
.95 W

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

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

DATE AUGUST 16, 19 96
 OPERATORS WELL NO. HATTIE O. DOTSON 2

API WELL NO. 47 -- 017-04405
 COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200
 FILE NO. 96-67
 PROVEN SOURCE OF ELEVATION BM 854'
 SCALE 1" = 500'

WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 MCJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF 'GAS' PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1005' WATERSHED CABIN RUN

DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE P PENNSBORO
 SURFACE OWNER WESTVACO CORPORATION ACREAGE 150
 ROYALTY OWNER HATTIE O. DOTSON HEIRS LEASE ACREAGE 235

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 OCT 03 1997
 ADDRESS 22 GARTON PLAZA WESTON, WV 26452
 COUNTY NAME PERMIT

WR-35

29 - Sep - 97
API # 47 - 17 - 04405

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

Farm name: WESTVACO

Well Operator's Report of Well Work
Operator Well No. : H.O. DOTSON #2.

LOCATION: Elevation: 1,005.00
District: CENTRAL
Latitude: 14650 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 5000 Feet West of 80 Deg. 52 Min. 30 Sec.

Quadrangle: PENNSBORO

County: DODDRIDGE
30 Sec. 30 Sec.

Company: KEY OIL COMPANY
22 Garton Plaza
WESTON, WV 26452-0000

Agent: JANE E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 09/29/97
Well Work Commenced: 12/07/97
Well Work Completed: 12/17/97

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5382'
Fresh water depths (ft) 20', 196'
Salt water depths (ft) NONE

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

OPEN FLOW DATA

Warren
Balltown
Rileys
Benson
Elk

Producing formation Alexander
Gas: Initial open flow 15 MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,492 MCF / d Oil: Final open flow show Bbl / d
Time of open flow between initial and final tests N/A Hours
Static rock pressure 1650 psig (surface pressure) after 96 Hours

3332' - 3412'
3788' - 4440'
4466' - 4862'
4988' - 4901'
5084' - 5095'
5134' - 5214'

Second producing formation Commingled
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 PERFORMED 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: April 1, 1998

PRESIDENT

MAY 0 1 1998

DODD 4405

H.O. Dotson #2 (47-017-04405)
 Four Stage Foam Frac - Halliburton

1st Stage: Alexander (10 holes) (5170.25' to 5202') 60 Quality Foam, 500 gal, 15% HCL.
 Elk (3 holes) (5091.25' to 5091.75') 60,000# 20/40 sand, 550,000 SCF N2,
 811 bbbls foam.

2nd Stage: Benson (7 holes) (4894.50' to 4896') 60 Quality Foam, 750 gal, 15% HCL.
 Third Riley (6 holes) (4833.50' to 4834.75') 40,000# 20/40 sand, 417,000 SCF N2,
 619 bbbls foam.

3rd Stage: Riley (10 holes) (4490.75' to 4525.75') 60 Quality Foam, 1,000 gal 15% HCL.
 Balltown (3 holes) (4146' to 4146.50') 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 742 bbbls foam.

4th Stage: Balltown (5 holes) (3810.25' to 3869.75') 60 Quality Foam, 1,000 gal 15% HCL.
 Warren (10holes) (3342' to 3406.25') 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 684 bbbls foam.

WELL LOG

Fill	0	5	
Sand	5	18	
Sand & Shale	18	36	Hole damp @ 20'
Red Rock	36	44	1/4" H ² O @ 196'
Sand & Shale & Red Rock	44	224	
Sand	224	276	
Red Rock & Sand & Shale	276	576	
Shale & Sand	576	842	
Sand & Shale & Red Rock	842	1673	
Sand	1673	1863	
Sand & Shale	1863	1915	
Little Lime	1915	1927	
Sand & Shale	1927	1946	
Big Lime	1946	1994	
Big Injun	1994	2086	
Shale	2086	2266	
Weir	2266	2396	
Shale	2396	2449	
Berea	2449	2453	
Sand & Shale	2453	2853	
Gordon	2853	2864	
Sand & Shale	2864	3332	
Warren	3332	3412	
Shale	3412	3788	
Balltown	3788	4440	
Shale	4440	4466	
Riley	4466	4544	
Sand & Shale	4544	4812	
Third Riley	4812	4862	
Shale	4862	4988	
Benson	4988	4901	
Sand & Shale	4901	5084	
Upper Elk	5084	5095	
Shale	5095	5134	
Alexander	5134	5214	
Shale	5214	5382	
T.D.	5382		

GAS CHECKS
 1919' - No Show
 2511' - No Show
 3008' - No Show
 3503' - No Show
 4422' - No Show
 4827' - 2/10^{ths} - 1" w/H²O
 5105' - No Show
 TD - No Show
 Collars - 2/10^{ths} - 1" w/H²O

WELL WORK PERMIT APPLICATION

0174405
539

- 1) Well Operator: KEY OIL COMPANY # 2565 ①
- 2) Operator's Well Number: HATTIE O. DOYSON #2 3) Elevation: 1005'
- 4) Well type: (a) Oil X / or Gas X / Leased 09/29/97
 (b) If Gas: Production X / Underground Storage Shallow X / Deep / Expires 09/29/99

Proposed Target Formation(s): ALEXANDER #29

Proposed Total Depth: 5600 feet

Approximate fresh water strata depths: -0-

Approximate salt water depths: -0-

Approximate coal seam depths: N/A

9) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: DRILL. STIMULATE. PRODUCE New Well.

12)

REC'D
WV Div.
Environmental Protection
SEP 11 1997
Permitting
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT		
	Size	Grade	Weight per ft. drilling	Left in well	Fill-up (cu. ft.)
Conductor					<u>38CSF84.3</u>
Fresh Water	8 5/8	ERW	23	1005	275 SKS. TO SURFACE
Coal					<u>38CSF84.2</u>
Intermediate					
Production	4 1/2	J-55	10.5	5400	400 SKS
Tubing	1.5				<u>38CSF84.1</u>
Liners					

PACKERS : Kind _____

Sizes _____

Depths set _____

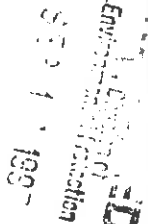
604538/8

For Office of Oil and Gas Use Only

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

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

24281



1) Date: OCTOBER 28, 1996
2) Operator's well number HATTLE O. DOTSON #2
3) API Well No: 47 - 017 - 4405
State County Permit

Permitting
Office of
BUREAU OF WEST VIRGINIA - BUREAU OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name WESTVACO
Address 100 WESTVACO DRIVE
WASHINGTON, WV 26181

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector MIKE UNDERWOOD
Address RT. 2 BOX 135
SALEM, WV 26426
Telephone (304) - 782-1043

5) (a) Coal Operator:
Name _____
Address _____

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

(c) Coal Lessee with Declaration
Name _____
Address _____

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.

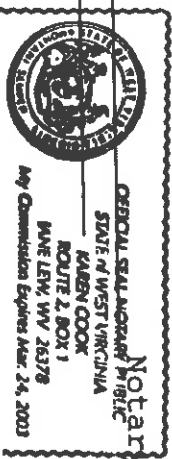
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

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

Subscribed and sworn before me this 28TH day of OCTOBER, 1996

My commission expires MARCH 24, 2003



Notary Public