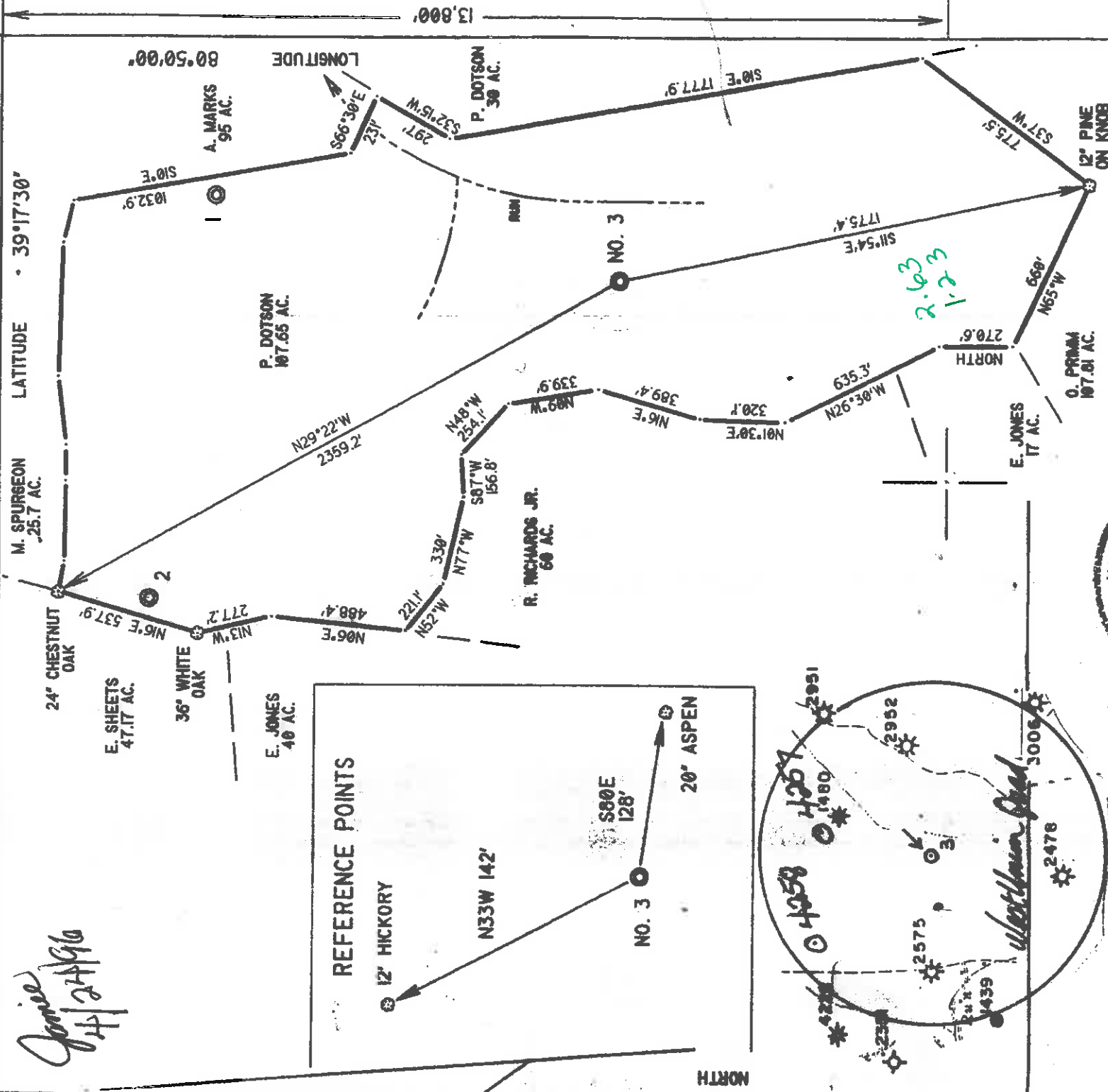
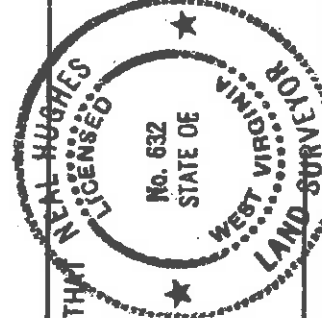


James H. Hughes
4/21/96



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 APRIL 15 19 96
 OPERATORS WELL NO. THOMAS 3

L.L.S. *Neal Hughes*
 632 WELL NO. 47 - 017 04259
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-29
 PROVEN SOURCE OF ELEVATION KNOB 1332' SCALE 1" = 500'
 STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF 'GAS' PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION 1100' WATERSHED CLAYLICK RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
 SURFACE OWNER PAUL DOTSON ACREAGE 107.65
 ROYALTY OWNER ALTON THOMAS HEIRS, ET AL LEASE ACREAGE 107.65

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 500'

WELL OPERATOR KEY OIL CO. DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA
 COUNTY NAME PERMIT
 APR 20 1996

FEB 10 1997

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

Permitting
Division of Oil & Gas

Well Operator's Report of Well Work

Farm name: DOTSON, PAUL

Operator Well No. : THOMAS #3

LOCATION: Elevation: 1,100.00

Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
Latitude: 13800 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 6490 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: KEY OIL COMPANY
22 GARTON PLAZA
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 04/24/96
Well Work Commenced: 05/21/96
Well Work Completed: 06/05/96
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 5466'
Fresh water depths (ft) NONE

Salt water depths (ft) 1911'

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

Casing & Tubing Size	Used in	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	123.65'	123.65'	70 sks
8 5/8"	2109'	2109'	To surface 610 sks
4 1/2"		5410.2'	To surface 430 sks
1 1/2"		5351'	

OPEN FLOW DATA
Balltown
Riley
3rd Riley
Benson

4048' - 4580'
4638' - 4686'
4970' - 5012'
5054' - 5064'

Producing formation Alexander
Gas: Initial open flow 23 MCF / d
Final open flow 1,467 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1725 psig (surface pressure) after 96 Hours

Second producing formation Comingled
Gas: Initial open flow _____ MCF / d
Final open flow _____ MCF / 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 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: JANUARY 22, 1997 FEB 14 1997

Thomas #3 (47-017-04259)
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (13 holes) (5371' - 5383.5')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 490,000 SCF N2, 811 bbls foam.
2nd Stage:	Benson (7 holes) (5058.5' - 5060') 3rd Riley (3 holes) (4994.75' - 4995.25')	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 501,000 SCF N2, 568 bbls foam.
3rd Stage:	Riley (6 holes) (4662.5' - 4663.75') Balltown (4 holes) (4463.50' - 4464.25')	60 Quality Foam. 750 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 611 bbls foam.
4th Stage:	Balltown (10 holes) (4187' - 4062.5')	60 Quality Foam, 1,000 gal 15% HCL. 10,000# 80/100 sand, 35,000# 20/40 sand, 525,000 SCF N2, 700 bbls foam.

WELL LOG

FORMATION	Top Feet	Bottom Feet	Remarks
Fill	0	5	
Sand, Shale, Red Rock	5	70	
Sand	70	90	
Sand, Shale, Red Rock	90	142	
Sand	142	210	
Sand, Shale, Red Rock	210	2070	Damp @ 1911'
Little Lime	2070	2100	
Pencil Cave	2100	2116	
Big Lime	2116	2203	<u>Gas Checks</u>
Big Injun	2203	2240	2005' No Show
Shale	2240	2410	2191' No Show
Weir	2410'	2536	2400' - smell oil
Shale	2536	2602	2502' No Show
Berea	2602	2607	3000' No Show
Shale	2607	3469	3615' No Show
Warren	3469	3538	4113' Odor
Shale	3538	3552	4830 No Show
Speechley	3552	3672	5204' No Show
Shale	3672	4048	T.D. 6/10ths thru 1", 23 Mcf
Balltown	4048	4580	
Shale	4580	4638	
Riley	4638	4686	
Shale	4686	4970	
3rd Riley	4970	5012	
Shale	5012	5054	
Benson	5054	5064	
Shale	5064	5302	
Alexander	5302	5386	
Sand & Shale	5386	5466	
T.D.	5466		

RECEIVED
WV Division of
Environmental Protection

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

Permitting
Office of Oil & Gas OIL COMPANY 25655 1 671

- 1) Well Operator's Well Number: THOMAS #3 3) Elevation: 1100'
- 2) Well type: (a) Oil X / or Gas X / Issued 04/24/96
- 3) If Gas: Production X / Underground Storage / Expired 04/24/98
- 4) Deep / Shallow X /

Proposed Target Formation(s): ALEXANDER 439

Proposed Total Depth: 5500 feet

Approximate fresh water strata depths: 90'

Approximate salt water depths: -0-

Approximate coal seam depths: N/A

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

Proposed Well Work: DRILL, STIMULATE, PRODUCE New Well

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT per ft.	FOR drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	11 3/4	ERW	42	132	132	3088/8/13 70 SKS. TO SURFACE
Coal						
Intermediate	8 5/8	ERW	23	2080	2080	3958/8/11.22 345 SKS. TO SURFACE
Production	4 1/2	J-55	10.5	5400	5400	350 SKS.
Tubing	1.5					3958/8/11.1
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

Fee(s) paid: 10/1 Well Work Permit 10/1 Reclamation Fund 10/1 WPCP

Plat 10/1 WW-9 10/1 WW-2B 10/1 Bond Blumfel Agent

(Type)

RECEIVED
WV Division of
Environmental Protection
APR 22 1996

Permitting
Office of Oil & Gas
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

1) Date: APRIL 17, 1996
2) Operator's well number THOMAS #3
3) API well No: 47 - 017 - 4259
State - County - Permit

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name PAUL DOTSON
Address RT. 1 BOX 232
WEST UNION, WV 26456

(b) Name _____
Address _____

(c) Name _____
Address _____

5) (a) Coal Operator:
Name NONE
Address _____

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

Name _____
Address _____

(c) Coal Lessee with Declaration
Name _____
Address _____

6) 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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B 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 22B 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.

By: *[Signature]* WELL OPERATOR
I, s: *[Signature]* KEY OIL COMPANY
PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102

Subscribed and sworn before me this 17TH day of APRIL, 1996

Karen Cook
My commission expires MARCH 24, 2003

OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
KAREN COOK
ROUTE 2, BOX 1
JANE LEW, WV 26378
Notary Public