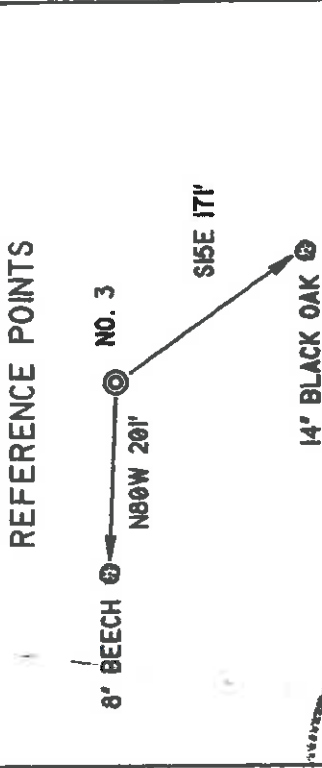
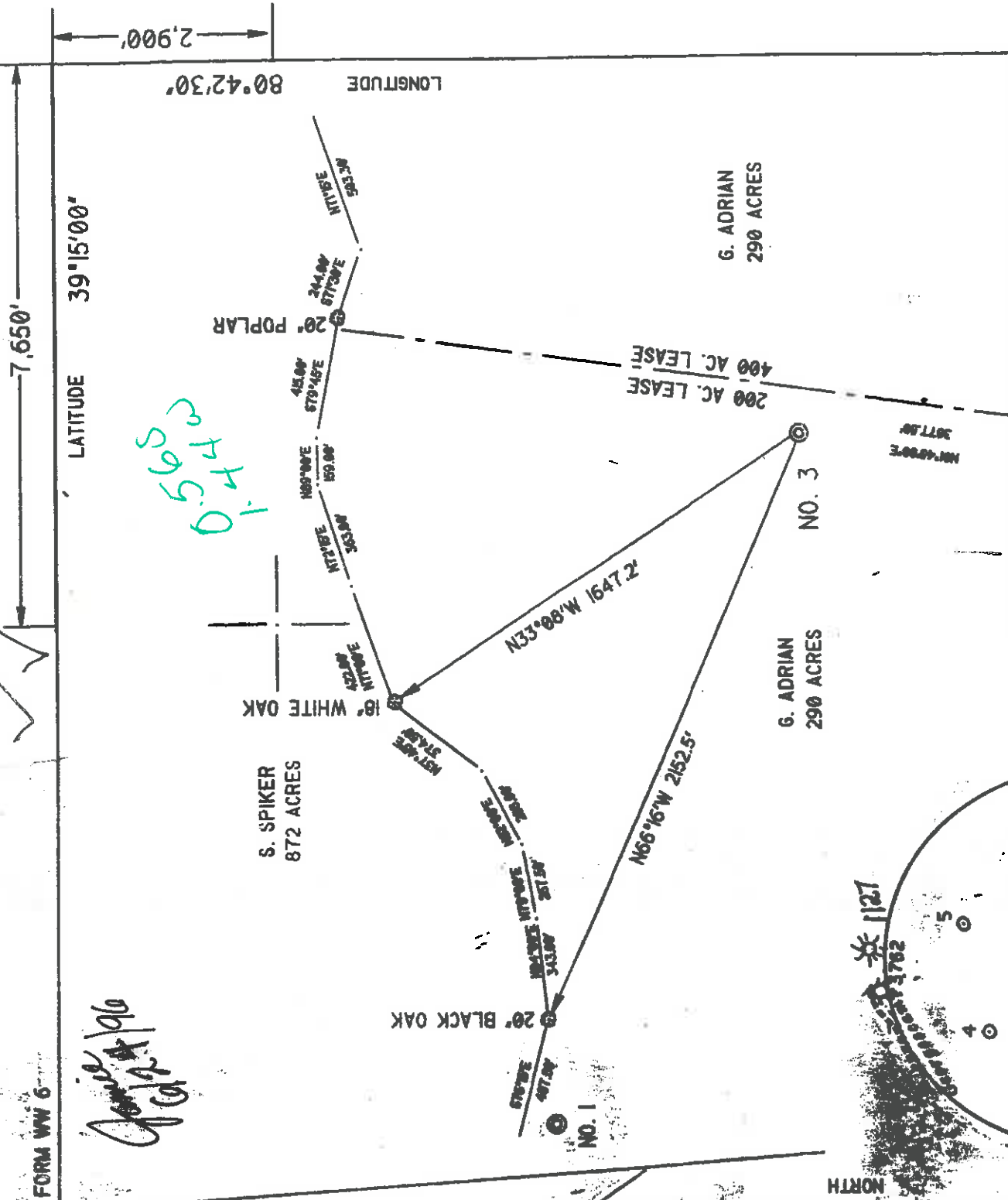
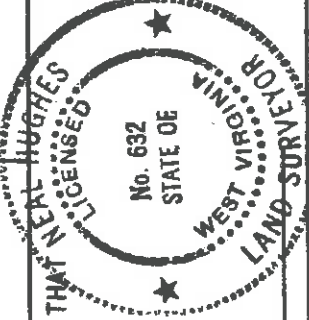


George A. 196
0.4565



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 FEBRUARY 27, 19 96
 OPERATORS WELL NO. MAXWELL HRS. 3

API WELL NO. 47 - 017 04273
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY	1/200	FILE NO.	94-86	STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION
PROVEN SOURCE OF ELEVATION	KNOB 1358'	SCALE	1" = 500'	

WELL TYPE: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> IF 'GAS' PRODUCTION <input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input type="checkbox"/>	
LOCATION: ELEVATION 1120'	WATERSHED LICK RUN
DISTRICT NEW MILTON	COUNTY DODDRIDGE
SURFACE OWNER GEORGE ADRIAN, ET AL	QUADRANGLE NEW MILTON
ROYALTY OWNER LEWIS MAXWELL HEIRS	ACREAGE 290
PROPOSED WORK: DRILL <input checked="" 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"/>	LEASE ACREAGE 200 OF 1100
PHYSICAL CHANGE IN WELL (SPECIFY)	TARGET FORMATION ALEXANDER
	ESTIMATED DEPTH 5600'
	COUNTY NAME
	PERMIT

WELL OPERATOR KEY OIL CO.	DESIGNATED AGENT <i>475</i> JAN CHAPMAN
ADDRESS 22 GARTON PLAZA	ADDRESS 22 GARTON PLAZA
	WESTON WV 26452

6-6 99

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FEB 14 1997
Permitting
Section of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: ADRIAN, GEORGE ETAL

Operator Well No.: MAXWELL HRS. #3

LOCATION: Elevation: 1,120.00

Quadrangle: NEW MILTON

District: NEW MILTON
Latitude: 2900 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 7650 Feet West of 80 Deg. 42 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: 06/25/96
Well Work Commenced: 07/15/96
Well Work Completed: 07/25/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5320'
Fresh water depths (ft) 87'
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"	1097.45'	1097.45'	305 sks. To surface
4 1/2"	5256'	5256'	430 sks.
2 3/8"		5088'	

OPEN FLOW DATA

Speechley
Balltown
Riley
Benson

Producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow 60 MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,602 MCF / d Oil: Final open flow show N/A Bbl / d
Time of open flow between initial and final tests _____ Hours
Static rock pressure 1750 psig (surface pressure) after 96 Hours

Second producing formation _____

Comingled _____ Pay zone depth (ft) _____
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 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

Maxwell #3 (47-017-04273)

Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (13 holes) (5108.5' - 5154')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 808 bbis foam.
2nd Stage:	Benson (10 holes) (4824' - 4826.25')	75 Quality Foam. 750 gal 15% HCL. 30,000# 20/40 sand, 428,000 SCF N2, 518 bbis foam.
3rd Stage:	Riley (6 holes) (4376.5' - 4579') Balltown (6 holes) (3947.75' - 4116.75')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 30,000# 20/40 sand, 406,000 SCF N2, 511 bbis foam.
4th Stage:	Speechley (12 holes) (3226.75' - 3293.25')	60 Quality Foam, 1,000 gal 15% HCL. 10,000# 80/100 sand, 40,000# 20/40 sand, 473,000 SCF N2, 680 bbis foam.

WELL LOG

Fill	0	5	
Sand & Shale & Red Rock	5	136	
Shale & Red Rock	136	188	
Sand	188	203	
Shale & Red Rock	203	246	
Sand	246	253	
Shale & Red Rock	253	319	
Sand & Shale & Red Rock	319	442	
Lime	442	457	
Red Rock & Sand & Shale	457	1046	
Sand	1046	1232	
Sand & Shale	1232	1671	
Sand	1671	1731	
Sand & Shale	1671	1763	
Little Lime	1731	1776	
Sand & Shale	1763	1820	
Big Lime	1776	1820	
Big Injun	1820	1900	
Shale	1900	1952	1762' 10/10ths H2O 1/2"
Weir	1952	2099	1823' 10/10ths H2O 1/2"
Shale	2099	2194	2008' 4/10ths H2O 1/2"
Berea	2194	2308	2504' 2/10ths H2O 1/2"
Sand & Shale	2308	2318	2999' 4/10ths H2O 1/2"
Gordon	2318	2490	3519' 32/10ths H2O 1"
Sand & Shale	2490	2547	4227' 32/10ths H2O 1"
Warren	2547	3172	4505' 2/10ths H2O 2"
Shale	3172	3210	4904' 6/10ths H2O 2"
Speechley	3210	3223	5275' 11/10ths H2O 2"
Shale	3223	3346	Collars 2/10thss H2O 2"
Balltown	3346	3580	
Shale & Sand	3580	4126	
Rileys	4126	4302	
Shale	4302	4760	
Benson	4760	4822	
Sand & Shale	4822	4832	
Alexander	4832	5064	
Sand & Shale	5064	5173	
T.D.	5173	5320	
	5496		

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

- 1) Well Operator: KEY OIL COMPANY 575 25655/6/510
 - 2) Operator's Well Number: MAXWELL HEIRS #3 3) Elevation: 1120'
Well type: (a) Oil X / or Gas X / Issued 06/25/96
(b) If Gas: Production X / Underground Storage 1 Expires 06/25/98
Deep 1 / Shallow X /
- Proposed Target Formation(s): ALEXANDER ⁴³⁵ **RECEIVED**
 Proposed Total Depth: 5300 feet **IV Division of Environmental Protection**
 Approximate fresh water strata depths: 80' **JUN 17 1996**
 Approximate salt water depths: -0- **Permitting Office of Oil & Gas**
 Approximate coal seam depths: NONE
- 10) Does land contain coal seams tributary to active mine? Yes 1 / No X /
 - 11) Proposed Well Work: DRILL, STIMULATE, PRODUCE Permitted
 - 12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOR DRILLING	LEFT IN WELL	FILL-UP (CU. FT.)	CEMENT
Conductor							
Fresh Water	8 5/8	ERW	23	1120	1120	301 SKS. TO SURFACE	
Coal							
Intermediate							
Production	4 1/2	J-55	10.5	5215	5215	470 SKS.	
Tubing	1.5						
Liners							

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Office of Oil and Gas Use Only

Fee(s) paid: 1 Well Work Permit 1 Reclamation Fund 1 WPCP
 Plat 1 WW-9 1 WW-2B 1 Bond 1 (Type) 1 Agent

RECEIVED
WV Division of
Environmental Protection

JUN 17 1996

Permitting
Office of Oil & Gas

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

1) Date: APRIL 29, 1996
2) Operator's well number MAXWELL #3
3) API Well No: 47 - 017 - 4273
State County Permit

Robert H. Cook

4) Surface Owner(s) to be served:
(a) Name GEORGE ADRIAN, ET AL
Address RT. 1 BOX 95A
NEW MILTON, WV 26411
(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 NONE
Address
(b) Coal Owner(s) with Declaration
Name
Address
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 X 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:
X 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: *Robert H. Cook*
Its: PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102

Subscribed and sworn before me this 29TH day of APRIL, 1996
My commission expires MARCH 24, 2003
Robert H. Cook
Notary Public