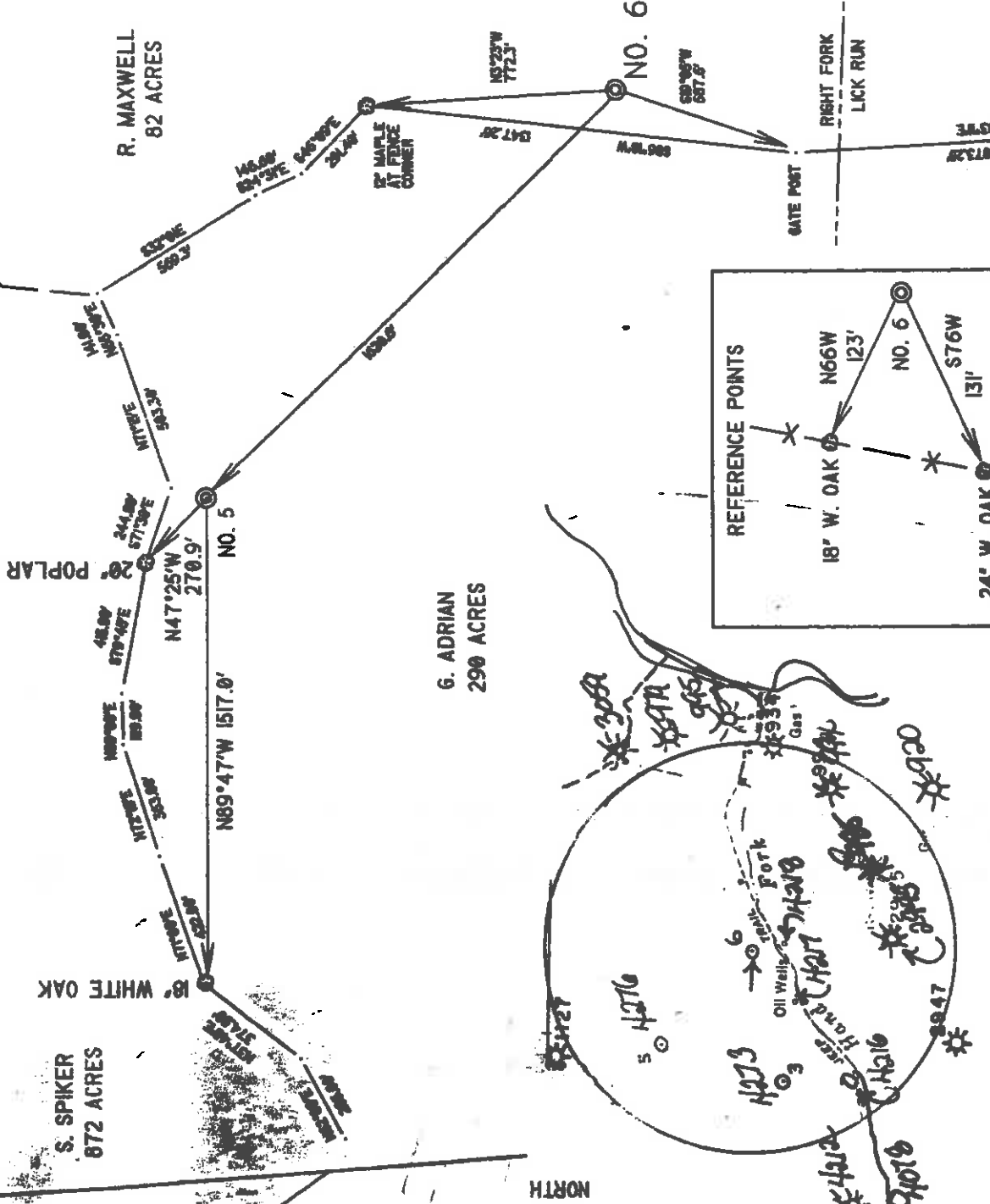


LATITUDE 39°15'00"

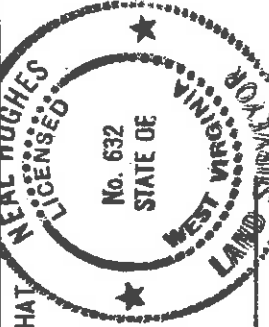
6000'

LONGITUDE 80°42'30"

*Handwritten: O.H. 1070*



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 MARCH 1 19 96  
 OPERATORS WELL NO. MAXWELL HEIRS 6

L.L.S. *Neal Hughes*  
 632

API WELL NO. 47 - 017-04200  
 COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY	1/200	FILE NO.	94-66
PROVEN SOURCE OF ELEVATION	KNOB 1358'	SCALE	1" = 500'
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION			

WELL TYPE: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/>	LIQUID INJECTION <input type="checkbox"/>	WASTE DISPOSAL <input type="checkbox"/>	'GAS' PRODUCTION <input checked="" type="checkbox"/>	STORAGE <input type="checkbox"/>	DEEP <input type="checkbox"/>	SHALLOW <input type="checkbox"/>
LOCATION: ELEVATION	960'	WATERSHED	LICK RUN			
DISTRICT	NEW MILTON	COUNTY	DODDRIDGE	QUADRANGLE	NEW MILTON	
SURFACE OWNER	ROBERT MAXWELL	ACREAGE	82			
ROYALTY OWNER	LEWIS MAXWELL HEIRS	LEASE ACREAGE	400 OF 1100			
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"/>
PHYSICAL CHANGE IN WELL (SPECIFY)				TARGET FORMATION	ALEXANDER	
				ESTIMATED DEPTH	5600'	

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

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

Well Operator's Report of Well Work

Farm name: MAXWELL, ROBERT G. Operator Well No.: MAXWELL #6

LOCATION: Elevation: 960.00 Quadrangle: NEW MILTON

District: NEW MILTON County: DODDRIDGE  
Latitude: 2500 Feet South of 39 Deg. 15Min. 0 Sec.  
Longitude 6000 Feet West of 80 Deg. 42 Min. 30 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/03/96  
Well work Commenced: 8/1/96  
Well work Completed: 8/5/96  
Verbal Plugging  
Permission granted on: \_\_\_\_\_ Rig  
Rotary X Cable \_\_\_\_\_  
Total Depth (feet) 5163  
Fresh water depths (ft) 170

Salt water depths (ft) -0-

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.	Pay zone depth (ft)	
				Initial open flow	Final open flow
11 3/4"	40	0		0	Bbl/d
8 5/8"	959	959	260 SKS.		Bbl/d
4 1/2"		5091	470 SKS.		Hours
2 3/8"		4994			Hours

WARREN/SPEECHLEY  
BALLTOWN SANDS  
RILEY SANDS  
BENSON  
ALEXANDER

OPEN FLOW DATA

Producing formation \_\_\_\_\_  
Gas: Initial open flow 39 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1,508 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 1700 psig (surface pressure) after 48 Hours

Second producing formation \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d 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:   
Date: AUGUST 16, 1996

PRESIDENT

FEB 14 1997

Maxwell Heirs #6 (47-017-4280)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (10 holes) (4989.50' -4990.50')	60 Quality Foam, 500 gal. 15% HCl, 60,000 lbs. 20-40 sand, 550,000 SCF N <sub>2</sub> , 808 bbls. foam.
2nd Stage:	Benson, 3 <sup>rd</sup> Riley, 2 <sup>nd</sup> Riley (11 holes) (4503.75-4705')	60 Quality Foam, 750 gal. 15% HCl, 40,000 lbs. 20-40 sand, 414,000 SCF N <sub>2</sub> , 611 bbls. foam.
3rd Stage:	Riley & Lower Balltown (12 holes) (3800' -4256.25')	60 Quality Foam, 750 gal. 15% HCl, 5,000 lbs. 80-100 sand, 40,000 lbs. 20-40 sand, 464,000 SCF N <sub>2</sub> , 689 bbls. foam.
4th Stage:	Warren & Speechley (10 holes) (3104' -3167.50')	60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 40,000 lbs. 20-40 sand, 473,000 SCF N <sub>2</sub> , 733 bbls. foam.

Well Log

Formation	Top Feet	Bottom Feet	Remarks
Fill	0	5	
Sand & Shale	5	50	
Red Rock & Shale	50	179	1/4" stream of water at 170'
Sand	179	254	
Shale & Sand	254	339	
Sand	339	357	
Shale, Red Rock & Sand	357	552	Gas Checks:
Sand	552	600	
Shale, Sand & Red Rock	600	683	1515' 20/10 thru 1/2" w/water
Lime	683	706	1732' 20/10 thru 1/2" w/water
Sand, Shale & Red Rock	706	953	2074' 60/10 thru 1/2" w/water
Sand	953	1117	2510' 10/10 thru 1" w/water
Sand & Shale	1117	1184	3217' 10/10 thru 1" w/water
Sand	1184	1278	3991' 10/10 thru 1" w/water
Sand & Shale	1278	1650	4516' 8/10 thru 1" w/water
Little Lime	1650	1682	4822' 14/10 thru 1" w/water
Pencil Cave	1682	1700	5163' T.D. 10/10 thru 1" w/water
Big Lime	1700	1770	Gas at drill collars 4/10 thru 1" w/water
Big Injun	1770	1826	
Sand & Shale	1826	1990	
Weir	1990	2064	
Shale	2064	2188	
Berea	2188	2196	
Sand & Shale	2196	2398	
Gordon	2398	2422	
Sand & Shale	2422	3054	
Warren/Speechley	3054	3196	
Sand & Shale	3196	3788	
Balltown Sands & Shale	3788	4142	
Sand & Shale	4142	4206	
Riley Sands & Shale	4206	4642	
Sand & Shale	4642	4698	
Benson	4698	4712	
Sand & Shale	4712	4946	
Alexander	4946	5060	
Shale	5060	5163	
T.D.	5163		

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

- 1) Well Operator: KEY OIL COMPANY <sup>425</sup> 25655 (C) 511
- 2) Operator's Well Number: MAXWELL HEIRS #6 3) Elevation: 960'  
 Well type: (a) Oil X / or Gas X / Issued 07/03/96  
 (b) If Gas: Production X / Undergroud Storage 1 Expires 07/03/98  
 Deep 1 / Shallow X <sup>435</sup>
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5200 feet
- Approximate fresh water strata depths: 90'
- 8) Approximate salt water depths: -0-
- 9) 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 Spillwell
- 12)

**RECEIVED**  
 Div. of Environmental Protection  
 JUN 17 1996  
 Permitting  
 Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	INTERVALS	CEMENT
Conductor						
Fresh Water	8 5/8	ERW	23	960	960 TO SURFACE	
Coal						
Intermediate						
Production	4 1/2	J-55	10.5	5055	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 Agent 1

(Type) \_\_\_\_\_

**RECEIVED**  
WV Division of  
Environmental Protection

JUN 17 1996

1) Date: APRIL 29 1996  
2) Operator's well number  
MAXWELL HEIRS #6  
3) API Well No: 47 - 017 - 4280  
State County Permit

Permitting  
Office of West Virginia  
Division of Environmental Protection  
STATE OF VIRGINIA - BUREAU OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

25655/6/518

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name ROBERT G. MAXWELL  
Address P. O. BOX 2078  
CLARKSBURG, WV 26302-2078
- (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector MIKE UNDERWOOD  
Address RT. 2 BOX 135  
SALEM, WV 26426  
Telephone (304) - 782-1043
- (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:

- Personal Service (Affidavit attached)
- X 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: \_\_\_\_\_  
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

Notary Public

