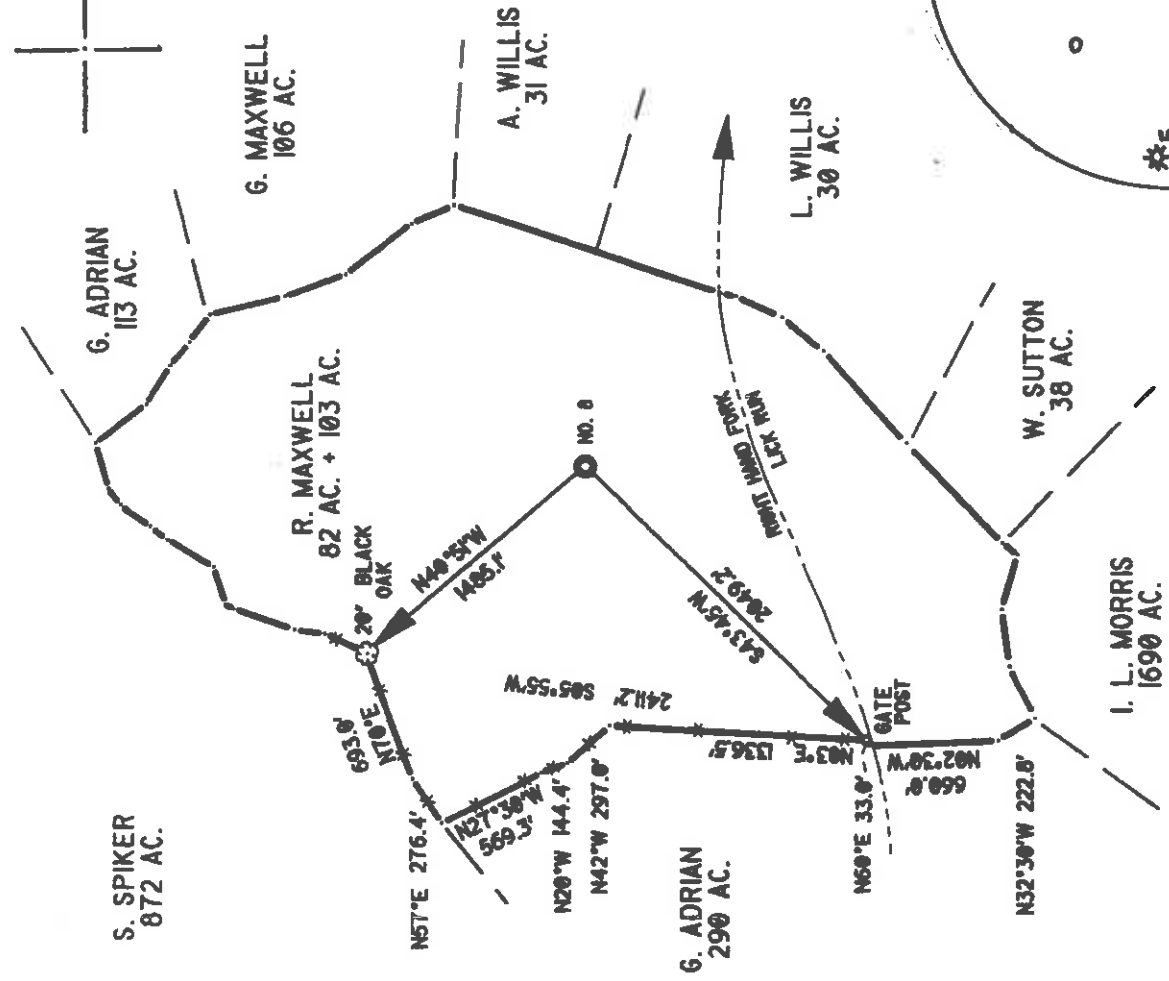


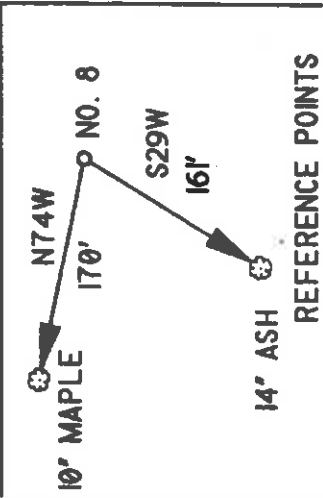
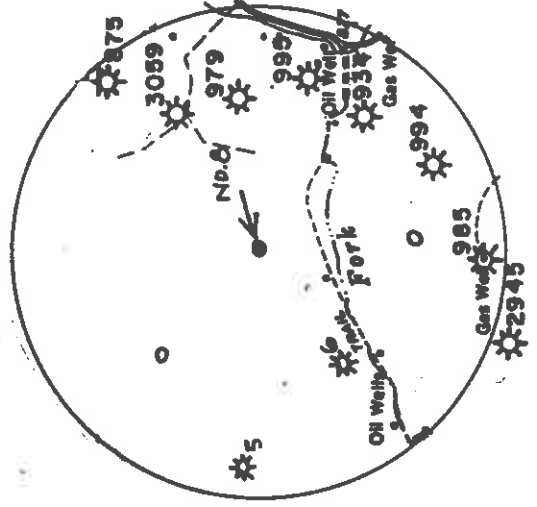
4,850' LATITUDE 39°15'00"

80°42'30" LONGITUDE

0.923
0.923

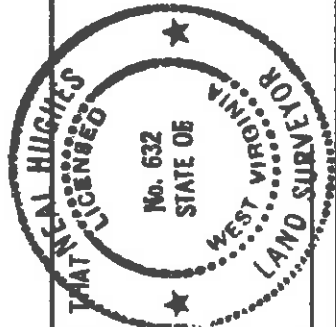


NORTH



REFERENCE POINTS

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



1-1 DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
DATE FEBRUARY 15, 19 97
OPERATORS WELL NO. MAXWELL HEIRS 8

L.I.S. *Neal Hyman*
632
API WELL NO. 47 - 017-04376
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 94-66
PROVEN SOURCE OF ELEVATION KNOB 1319 SCALE 1" = 1000'
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 'GAS' PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1069' WATERSHED RIGHT HAND FORK LICK RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE QUADRANGLE NEW MILTON
SURFACE OWNER ROBERT MAXWELL ACREAGE 103
ROYALTY OWNER LEWIS MAXWELL HEIRS LEASE ACREAGE 400 OF 1100
PROPOSED WORK: 6-6-99
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PL AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER
ESTIMATED DEPTH 5600' PERMIT JUN 16 1997

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

COUNTY NAME PERMIT

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 HRS. #8

LOCATION: Elevation: 1,069.00

Quadrangle: NEW MILTON

District: NEW MILTON

County: DODDRIDGE

Latitude: 1600 Feet South of 39 Deg. 15 Min. 0 Sec.

Longitude: 4850 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: 06/09/97
Well Work Commenced: 08/16/97
Well Work Completed: 08/27/97

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) _____ 5332'
Fresh water depths (ft) _____ 45'
Salt water depths (ft) _____ NONE

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____ 931' (7)

OPEN FLOW DATA

Warren
Speechley
Rileys
Benson

Producing formation Alexander
Gas: Initial open flow 42 MCF / d
Final open flow 1:508 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1500 psig (surface pressure) after 96 Hours

3112' to 3162'
3174' to 3268'
4292' to 4706'
4770' to 4784'

Pay zone depth (ft) 5016' to 5124'
Oil: Initial open flow 0 Bbl / d
Oil: Final open flow show Bbl / d

Second producing formation Commingled

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

Pay zone depth (ft) _____
Oil: Initial open flow _____ Bbl / d
Oil: Final open flow _____ Bbl / d

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:  PRESIDENT

Date: October 14, 1997

OCT 24 1997

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	1063.35	1063.35	290 sks To Surface
4 1/2"	5262.2	5262.2	510 sks
2 3/8"		5040	

Maxwell #8 (47-017-04378)
Four Stage Foam Frac - Halliburton

1st Stage: Alexander (13 holes) (5060.5' to 5110') 60 Quality Foam, 500 gal, 15% HCL,
60,000# 20/40 sand, 550,000 SCF N2,
810 bbis foam.

2nd Stage: Benson (9 holes) (4773.25' to 4779.5') 60 Quality Foam, 750 gal 15% HCL,
Third Riley (3 holes) (4685' to 4685.5') 40,000# 20/40 sand, 417,000 SCF N2,
814 bbis foam.

3rd Stage: Riley (12 holes) (4311.75' to 4337.25') 60 Quality Foam, 750 gal 15% HCL,
5,000# 80/100 sand, 35,000# 20/40 sand,
438,000 SCF N2, 645 bbis foam.

4th Stage: Speechley (10 holes) (3177' to 3239.75') 60 Quality Foam, 1000 gal 15% HCL,
Warren (2 holes) (3141' to 3141.25') 5,000# 80/100 sand, 45,000# 20/40 sand,
502,000 SCF N2, 684 bbis foam.

WELL LOG

Fill	0	5	
Sand	5	50	Hole wet @ 45'
Red Rock & Sand & Shale	50	415	
Lime	415	421	
Sand & Shale & Red Rock	421	484	
Sand & Red Rock & Lime	484	664	
Sand & Shale & Red Rock	664	711	
Lime & Sand & Shale	711	931	
Coal	931	938	
Sand & Shale & Lime	938	1185	
White Sand	1185	1209	
Sand & Shale	1209	1256	
White Sand	1256	1334	
Sand & Shale	1334	1679	
Little Lime	1679	1720	
Sand & Shale	1720	1731	
Sand	1731	1745	
Sand & Shale	1745	1759	
Big Lime	1759	1842	
Big Injun	1842	1902	
Shale	1902	2050	
Weir	2050	2148	1731' NO SHOW
Shale	2148	2240	2010' 12/10ths ½" w/H ² O
Gordon	2240	2275	2502' 20/10ths ½" w/H ² O
Sand & Shale	2275	3112	3518' 24/10ths ½" w/H ² O
Warren	3112	3162	4231' 8/10ths 1" w/H ² O
Shale	3162	3174	4726' 8/10ths 1" w/H ² O
Speechley	3174	3268	5004' 16/10ths 1" w/H ² O
Shale	3268	3503	
Baltown	3503	4180	
Shale & Sand	4180	4292	
Riley	4292	4359	
Shale	4359	4684	
Third Riley	4684	4706	
Shale	4706	4770	
Benson	4770	4784	
Sand & Shale	4784	5016	
Alexander	5016	5124	
Sand & Shale	5124	5332	
T.D.	5332		

WELL WORK PERMIT APPLICATION

017 4376

511

(6)

- 1) Well Operator: KEY OIL COMPANY 25635
- 2) Operator's Well Number: MAXWELL HEIRS #8 3) Elevation: 1060'
- 4) Well type: (a) Oil X / or Gas X /
 (b) If Gas: Production X / Underground Storage Shallow X /
 Deep Deep /

23695

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5600 feet

Approximate fresh water strata depths: 85'

Approximate salt water depths: -0-

Approximate coal seam depths: N/A

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

11) Proposed Well Work: DRILL, STIMULATE, PRODUCE

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT
------	----------------	-------------------	--------

	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42	30	0	700 SK. (filled)
Fresh Water	8 5/8	ERW	23	1060	1060	285 SKS. TO SURFACE
Coal						300 SK. 1.3
Intermediate						300 SK. 1.2
Production	4 1/2	J-55	10.5		5450	500 SKS.
Tubing	1.5					300 SK. 1.1
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Office of Oil and Gas Use Only

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

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

1) Date: MAY 5, 1997
2) Operator's well number MAXWELL HEIRS #8
3) API Well No: 47 - 017 - A376
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:
 (a) Name ROBERT G. MAXWELL Name NONE
 Address P. O. BOX 2078 Address _____
CLARKSBURG, WV 26302-2078
 (b) Name _____ (b) Coal Owner(s) with Declaration
 Address _____ Name _____
 Address _____
 (c) Name _____ Name _____
 Address _____ Address _____

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration
 Address RT. 2 BOX 135 Name _____
SALEM, WV 26426 Address _____
 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.

West Operator KEY OIL COMPANY
 By: [Signature]
 Its: PRESIDENT
 Address 22 GARTON PLAZA
WESTON, WV 26452
 Telephone 304-269-7102
 Subscribed and sworn before me this 5TH day of MAY, 19 97

My commission expires MARCH 24, 2003

OFFICIAL SEAL NOTARY
 STATE OF WEST VIRGINIA
 KAREN COOK
 ROUTE 2, BOX 1
 HANE LETS, WV 26378
 My Commission Expires Mar. 24, 2003

Notary Public