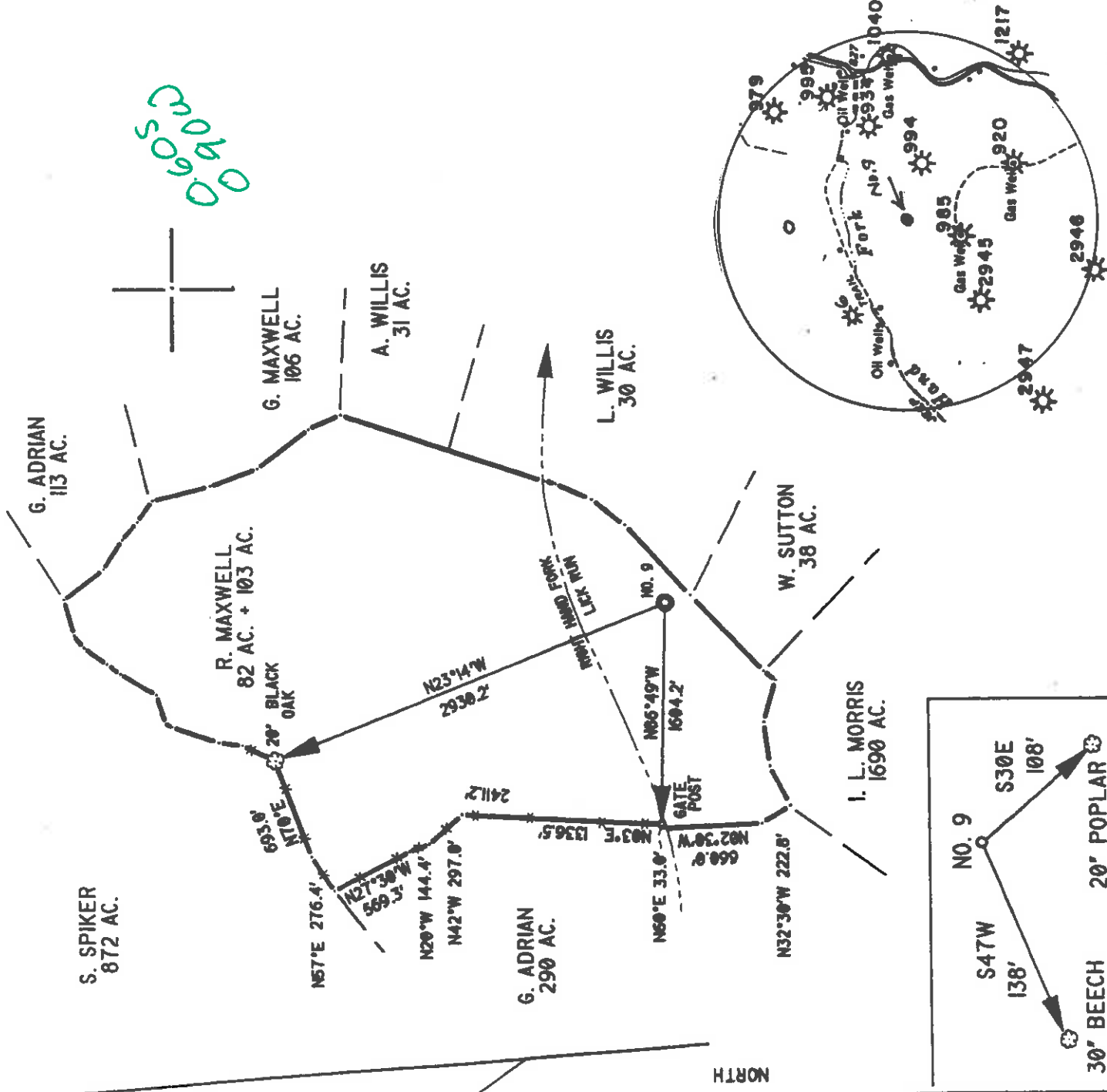


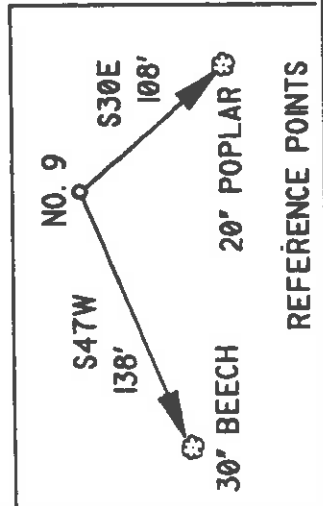
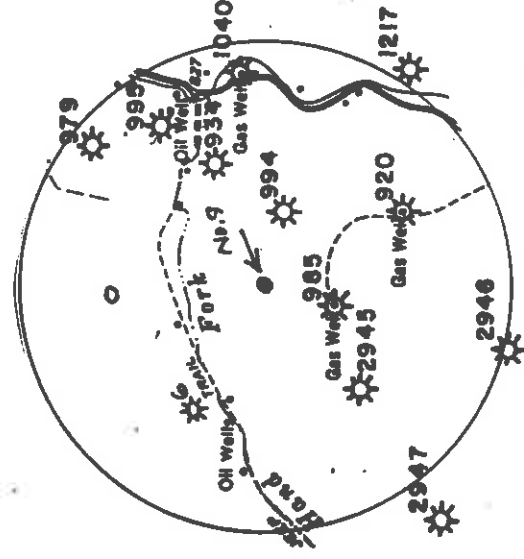
4,750'

LATITUDE 39°15'00"

LONGITUDE 80°42'30"

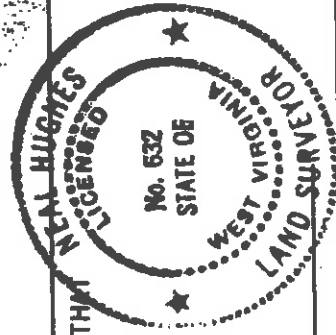


06000



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.



L.L.S. *Neal Hughes*  
632

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
DATE FEBRUARY 15, 19 97  
OPERATORS WELL NO. MAXWELL HEIRS 9

API WELL NO. 47 -- 017-04377  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION KNOB 1319  
FILE NO. 94-66  
SCALE 1" = 1000'

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF 'GAS' PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1140' 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: 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'

COUNTY NAME PERMIT

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

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

JAN CHAPMAN JUN 16 1997

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. #9

LOCATION: Elevation: 1,140.00

Quadrangle: NEW MILTON

District: NEW MILTON  
Latitude: 3200 Feet South of 39 Deg. 15 Min. 0 Sec.  
Longitude: 4750 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: 06/09/97  
Well Work Commenced: 08/05/97  
Well Work Completed: 08/15/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 5451'  
Fresh water depths ( ft ) 128'  
Salt water depths ( ft ) NONE

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

OPEN FLOW DATA  
Warren  
Speechley  
Balltown  
Rileys  
Benson

Producing formation: Alexander  
Gas: Initial open flow 3 MCF / d Pay zone depth ( ft ) 5110' to 5218'  
Final open flow 1.571 MCF / d Oil: Initial open flow 0 Bbl / d  
Oil: Final open flow show Bbl / d  
Time of open flow between initial and final tests N/A Hours  
Static rock pressure 1550 psig ( surface pressure ) after 96 Hours

Second producing formation: Commingled  
Gas: Initial open flow \_\_\_\_\_ MCF / d Pay zone depth ( ft ) \_\_\_\_\_  
Final open flow \_\_\_\_\_ MCF / d Oil: Initial open flow \_\_\_\_\_ Bbl / 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:  PRESIDENT

Date: October 14, 1997

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	1135.95	1135.95	310 sks To Surface
4 1/2"	5280	5280	490 sks
2 3/8"		5134	

3194' to 3254'  
3264' to 3490'  
3595' to 4305'  
4376' to 4800'  
4866' to 4874'  
5110' to 5218'

24 1997

Maxwell #9 (47-017-04377)  
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander ( 13 holes ) ( 5153.75' to 5198.25' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 810 bbis foam.
2nd Stage:	Benson ( 6 holes ) ( 4869' to 4870.25' ) Third Riley ( 6 holes ) ( 4777.5' to 4782.75' )	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 615 bbis foam.
3rd Stage:	Riley ( 4 holes ) ( 4415.5' to 4416.25' ) Balktown ( 9 holes ) ( 3961.75' to 4299.75' )	60 Quality Foam. 1000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 438,000 SCF N2, 645 bbis foam.
4th Stage:	Speecheley ( 10 holes ) ( 3269.75' to 3354.75' ) Warren ( 5 holes ) ( 3233.75' to 3241' )	60 Quality Foam, 1000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbis foam.

WELL LOG

Fill	0	5	Hole wet @ 45'
Sand	50	156	
Red Rock & Shale	156	164	
Sand	164	507	
Sand & Shale & Red Rock	507	521	
Lime	521	615	
Sand & Shale	615	678	
Lime	678	843	
Sand & Shale & Red Rock	843	845	
Lime	845	861	
White Sand	861	989	
Sand & Shale & Red Rock	989	1020	
Sand	1020	1827	
Sand & Shale	1827	1840	
Little Lime	1840	1879	
Sand & Shale	1879	1944	
Big Lime	1879	1944	
Big Injun	1944	1999	
Shale	1999	2144	
Weir	2144	2040	
Shale	2040	2332	
Berea	2332	2376	
Sand & Shale	2376	2534	
Gordon	2534	2590	
Sand & Shale	2590	3194	
Warren	3194	3254	
Shale	3254	3264	
Speecheley	3264	3490	
Shale	3490	3595	
Balktown	3595	4305	
Shale & Sand	4305	4376	
Riley	4376	4450	
Shale	4450	4740	
Third Riley	4740	4800	
Shale	4800	4866	
Benson	4866	4874	
Sand & Shale	4874	5110	
Alexander	5110	5218	
Sand & Shale	5218	5441	
T.D.	5441		

Gas Checks  
1790' NO SHOW  
2501' NO SHOW  
3028' NO SHOW  
3525' 2/10<sup>ths</sup> 1/2" w/H<sup>2</sup>O  
4265' NO SHOW  
4699' NO SHOW  
5160' 4/10<sup>ths</sup> 1/2" w/H<sup>2</sup>O  
TD 2/10<sup>ths</sup> 1/2" w/H<sup>2</sup>O  
Collars 2/10<sup>ths</sup> 1/2" w/H<sup>2</sup>O

017 4377

1) Well Operator: KEY OIL COMPANY 25655 511 (6)

Operator's Well Number: MAXWELL HEIRS #9 3) Elevation: 1140'

Well type: (a) Oil X / or Gas X / Asmed 06/09/99  
 (b) If Gas: Production X / Underground Storage Expires 06/09/99  
 Deep 430 / Shallow X

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5600 feet

7) Approximate fresh water strata depths: 100'

8) Approximate salt water depths: -0-

9) 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 [Signature]

12)

**CASING AND TUBING PROGRAM**

TYPE	SIZE	GRADE	WEIGHT per ft.	FOOTAGE	INTERVALS	CEMENT
Conductor	11 3/4	ERW	42	30	0	Fill up (cu. ft.) <u>OK N/A</u>
Fresh Water	8 5/8	ERW	23	1140	1140	<u>370 SKS. TO SURFACE</u>
Coal						<u>39 CS/11.3</u>
Intermediate						<u>30 CS/11.2.2</u>
Production	4 1/2	J-55	10.5	5500	5500	500 SKS.
Tubing	1.5					<u>39 CS/11.1</u>
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 #9  
3) API Well No: 47 - 017 - 4377  
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.

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

Subscribed and sworn before me this 5TH day of MAY, 1997  
 My commission expires MARCH 24, 2003

