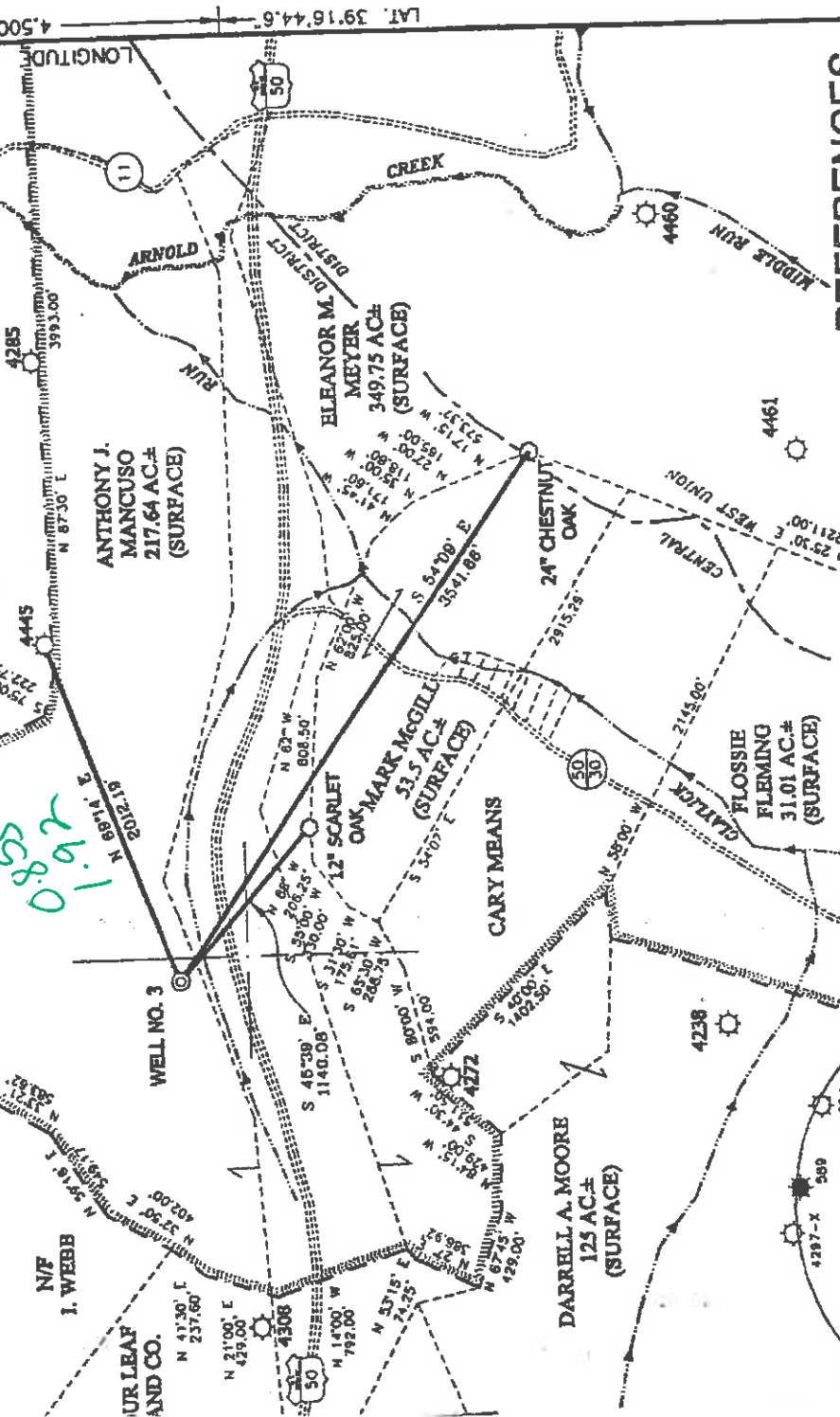


# EQUITRANS / KEY LEWIS MAXWELL LEASE WELL NO. 3

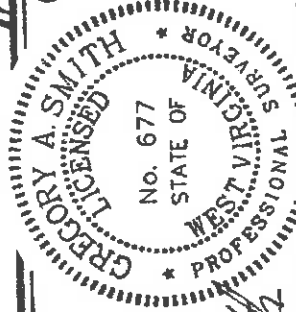
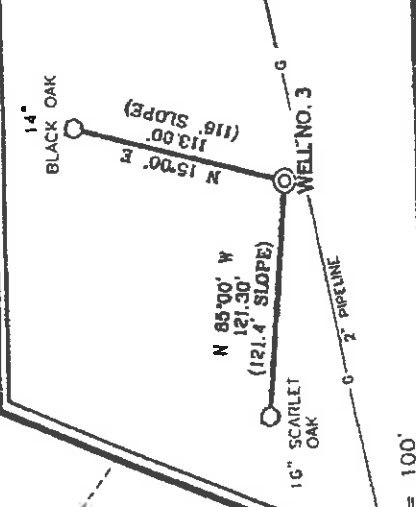
960 ACRES ±  
WELL NO. 3



### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27. MAGNETIC NORTH 3/23/99.
2. TIES TO REFERENCES ARE BASED ON LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE REPORT PREPARED BY RICHARD M. REDDECLIFF, ATTORNEY AT LAW.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A TITLE REPORT PREPARED BY RICHARD M. REDDECLIFF, ATTORNEY AT LAW.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDG COUNTY IN MARCH, 1999.
5. WELL LAT./LONG. ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).

### REFERENCES



I THE UNDERSIGNED, 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.

P.S. *Gregory A. Smith*  
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE MARCH 24, 19 99  
OPERATORS WELL NO. LEWIS MAXWELL #3  
API WELL NO. 47-017-04503  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4185P3 (69-79)  
SCALE 1" = 1000'  
PROVEN SOURCE TOP OF KNOB ELEVATION 1231'

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

LOCATION : ELEVATION 926' WATERSHED CLAYLICK RUN OF ARNOLD CREEK  
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5  
ACREAGE 217.64  
SURFACE OWNER ANTHONY J. MANCUSO LEASE ACREAGE 960  
ROYALTY OWNER LEWIS MAXWELL HEIRS et al. LEASE NO. E.O.T. 7497

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  
DESIGNATED AGENT JAN CHAPMAN, MAY 10 1999  
WELL OPERATOR KEY OIL COMPANY ADDRESS 22 GARTON PLAZA WESTON, WV 26452  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452

D000 4503

666 89

WR-35

Office of Oil & Gas  
Permitting

JUL 28 1999

WV DIVISION of  
Environmental Protection

29 - Apr - 99  
API # 47 - 017 - 4503

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

Revised: 1/8

Well Operator's Report of Well Work

Farm name: MANCUSO, ANTHONY

Operator Well No.: MAXWELL #3

LOCATION: Elevation: 926.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 4500 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 10120 Feet West of 80 Deg. 47 Min. 30 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit Issued: 05/03/99  
Well Work Commenced: 05/24/99  
Well Work Completed: 05/28/99

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5350'  
Fresh water depths (ft) 50'. 224'  
Salt water depths (ft) NONE

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

OPEN FLOW DATA

Balltown  
Rileys  
Benson

3697' - 4406'  
4435' - 4892'  
4888' - 4896'

Producing formation Alexander Pay zone depth (ft) 5131' - 5216'  
Gas: Initial open flow No Show MCF / d Oil: Initial open flow 0 Bbl / d  
Final open flow 1.579 MCF / d Oil: Final open flow show Bbl / d  
Time of open flow between initial and final tests N/A Hours  
Static rock pressure 1850 psig ( surface pressure ) after 96 Hours

Second producing formation Commingle 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: JAN E. CHAPMAN  
Date: June 4, 1999

PRESIDENT

Dooo 4503

AUG 09 1999

Lewis Maxwell #3 (47-017-4503)  
 Four Stage Foam Frac - Halliburton

1 <sup>st</sup> Stage:	Alexander ( 14 holes ) ( 5156' to 5199.25' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 810 bbls foam.
2 <sup>nd</sup> Stage:	Benson ( 7 holes ) ( 4891' to 4892.50' ) Third Riley ( 6 holes ) ( 4812.25' to 4827.50' ) Second Riley ( 3 holes ) ( 4730.25' to 4730.75' )	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 616 bbls foam.
3 <sup>rd</sup> Stage:	Riley ( 10 holes ) ( 4463.50' to 4496.25' ) Balltown ( 6 holes ) ( 4254.25' to 4377.50' )	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 742 bbls foam.
4 <sup>th</sup> Stage:	Balltown ( 15 holes ) ( 3716' to 3876' )	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam.

WELL LOG

Shale	0	80	1/2" H2O @ 40'
Sand	80	145	
Red Rock	145	170	
Sand	170	220	
Red Rock	220	284	1 1/2" H2O @ 224'
Sand	284	318	
Red Rock	318	340	
Sand & Shale	340	652	
Lime	652	670	
Shale & Red Rock	670	712	
Sand & Shale	712	1884	
Little Lime	1884	1899	
Sand & Shale	1899	1921	
Big Lime	1921	1988	
Big Injun	1988	2070	
Shale	2070	2213	
Weir	2213	2334	
Sand & Shale	2334	3276	
Warren	3276	3345	
Shale	3345	3354	
Speechley	3354	3471	
Silt & Shale	3471	3697	
Balltown	3697	4406	
Shale	4406	4435	
Riley	4435	4506	
Shale	4506	4703	
Second Riley	4703	4747	
Shale	4747	4806	
Third Riley	4806	4892	
Shale	4892	4888	
Benson	4888	4896	
Shale	4896	5131	
Alexander	5131	5216	
Sand & Shale	5216	5350	
T.D.	5350		

Gas Checks  
 1912' - No Show  
 2095' - No Show  
 2499' - No Show  
 3119' - No Show  
 3984' - No Show  
 4415' - No Show  
 4818' - No Show  
 TD - No Show