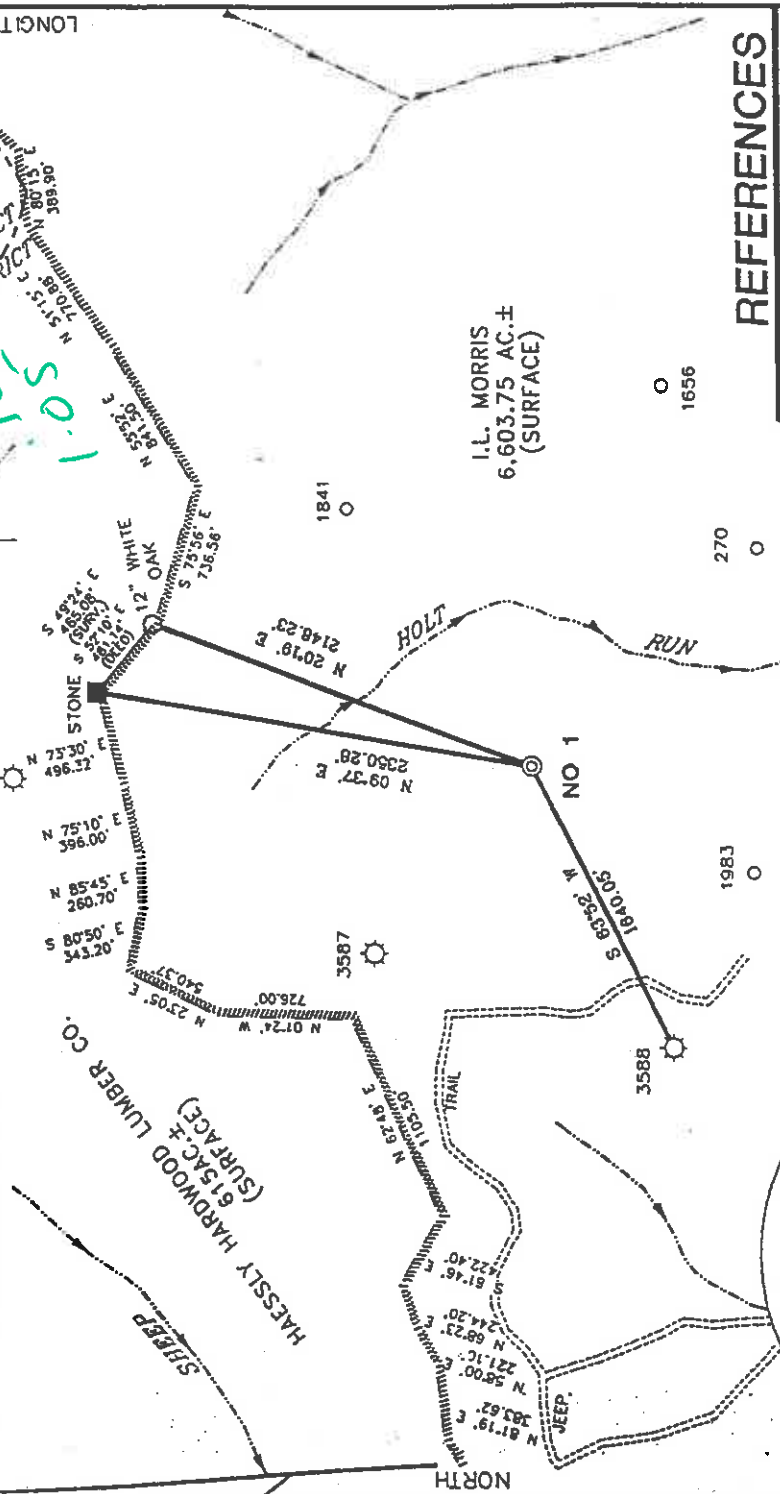


LONG. 80°48'40.2" LATITUDE 39°12'30" LONGITUDE 80°47'30"

# W.B. MAXWELL LEASE 2,400 ACRES ± WELL NO. 1

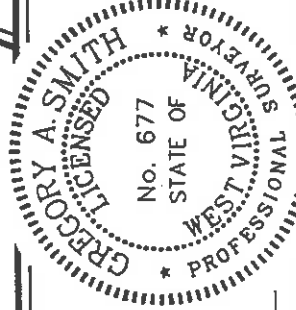
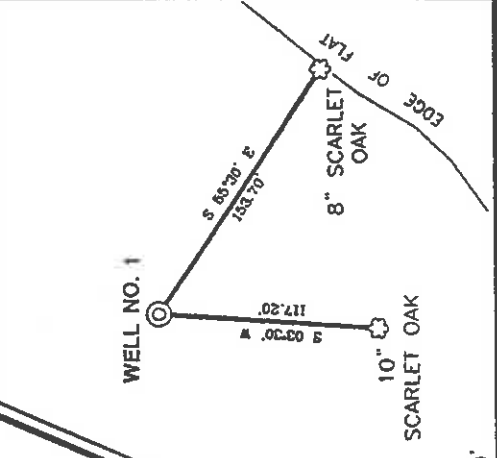
16.5  
1.05



### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-5-99.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DODDRIDGE COUNTY DEED BOOK 28 ON PAGE 210.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JANUARY, 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

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4152P1 (69-74)  
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 886' SCALE 1" = 1000'

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

LOCATION : ELEVATION 1197' WATERSHED HOLT RUN OF SOUTH FORK HUGHES RIVER  
DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER I.L. MORRIS ACREAGE 6,603.75  
ROYALTY OWNER W.B. MAXWELL HEIRS ET AL LEASE ACREAGE 2,400

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  ALEXANDER  
PHYSICAL CHANGE IN WELL (SPECIFY) ESTIMATED DEPTH 5600' TARGET FORMATION WAT 2 & 14V

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT J.N. CHAPMAN  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

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



COUNTY NAME Doddr PERMIT 4508

6-6-133

WR-35

West Virginia  
Office of Oil & Gas  
Permitting

OCT 25 1999

WV Division of  
Environmental Protection

18 - May - 99  
API # 47 - 017-4508

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

Reviewed \_\_\_\_\_

Well Operator's Report of Well Work

Farm name: MORRIS, I.L. Operator Well No. : W.B. MAXWELL 1

LOCATION: Elevation: 1,197.00' Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 850 Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude: 5550 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: 18/05/99  
Well Work Commenced: 08/16/99  
Well Work Completed: 08/21/99

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 5455'  
Fresh water depths ( ft ) 65'  
Salt water depths ( ft ) 1407'

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

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
8 5/8"	1232.10'	1232.10'	300 sks To Surface
4 1/2"	5322'	5322'	475 sks
2 3/8"		5135'	

OPEN FLOW DATA

Warren  
Speechley  
Rileys  
Benson  
Producing formation Alexander  
Gas: Initial open flow \_\_\_\_\_ MCF / d Show \_\_\_\_\_ MCF / d Pay zone depth ( ft ) 5135' - 5224'  
Final open flow 1,508 MCF / d Oil: Initial open flow 0 Bbl / d  
Time of open flow between initial and final tests N/A Oil: Final open flow show Bbl / d  
Static rock pressure 1800 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  
Time of open flow between initial and final tests \_\_\_\_\_ Oil: Final open flow \_\_\_\_\_ Bbl / d  
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: J. E. Chapman  
Date: October 2, 1999

PRESIDENT

Dodd 4508

NOV 1 1999

W. B. Maxwell #1 (47-017-4508)  
Four Stage Foam Frac - Halliburton

1<sup>st</sup> Stage: Alexander ( 15 holes ) ( 5155.25' to 5208.75' ) 60 Quality Foam. 500 gal. 15% HCL.  
60,000# 20/40 sand, 550,000 SCF N2,  
810 bbis foam.

2<sup>nd</sup> Stage: Benson ( 7 holes ) ( 4891' to 4892.50' ) 60 Quality Foam. 750 gal 15% HCL.  
Third Riley ( 3 holes ) ( 4814.25' to 4814.75' ) 40,000# 20/40 sand, 417,000 SCF N2,  
Second Riley ( 4 holes ) ( 4723.75' to 4724.50' ) 616 bbis foam.

3<sup>rd</sup> Stage: Riley ( 15 holes ) ( 4457.25' to 4480.75' ) 60 Quality Foam. 750 gal 15% HCL.  
5,000# 80/100 sand, 45,000# 20/40 sand,  
502,000 SCF N2, 742 bbis foam.

4<sup>th</sup> Stage: Speechley ( 9 holes ) ( 3332' to 3414.50' ) 60 Quality Foam. 1,000 gal 15% HCL.  
Warren ( 7 hole ) ( 3306.75' to 3297.50' ) 5,000# 80/100 sand, 45,000# 20/40 sand,  
502,000 SCF N2, 684 bbis foam.

WELL LOG

Red Rock	0	5	
Sand & Shale	5	130	
Red Rcock & Shale	130	255	
Sand & Shale	255	314	
Red Rock & Shale	314	337	
Sand & Shale	337	525	
Red Rock & Shale	525	700	
Sand & Shale	700	814	
Sand	814	835	
Shale & Red Rock	835	996	
Sand & Shale	996	1837	
Little Lime	1837	1846	
Sand & Shale	1846	1883	
Big Lime	1883	1948	
Big Injun	1948	2030	
Shale	2030	2184	
Weir	2184	2308	
Sand & Shale	2308	2386	
Berea	2386	2393	
Shale & Sand	2393	3252	
Warren	3252	3311	
Sand & Shale	3311	3325	
Speechley	3325	3423	
Shale	3423	3618	
Balltown	3618	4368	
Shale	4368	4422	
Riley	4422	4502	
Shale	4502	4717	
Second Riley	4717	4727	
Shale	4727	4799	
Third Riley	4799	4844	
Shale	4844	4888	
Benson	4888	4897	
Shale	4897	5135	
Alexander	5135	5224	
Sand & Shale	5224	5455	
T.D.	5455		

**Gas Checks**

1984' - No Show  
3309' - No Show  
3708' - No Show  
4569' - No Show  
4909' - No Show  
5218' - No Show  
TD - 2/10<sup>th</sup> - 1/2" w/H<sub>2</sub>O