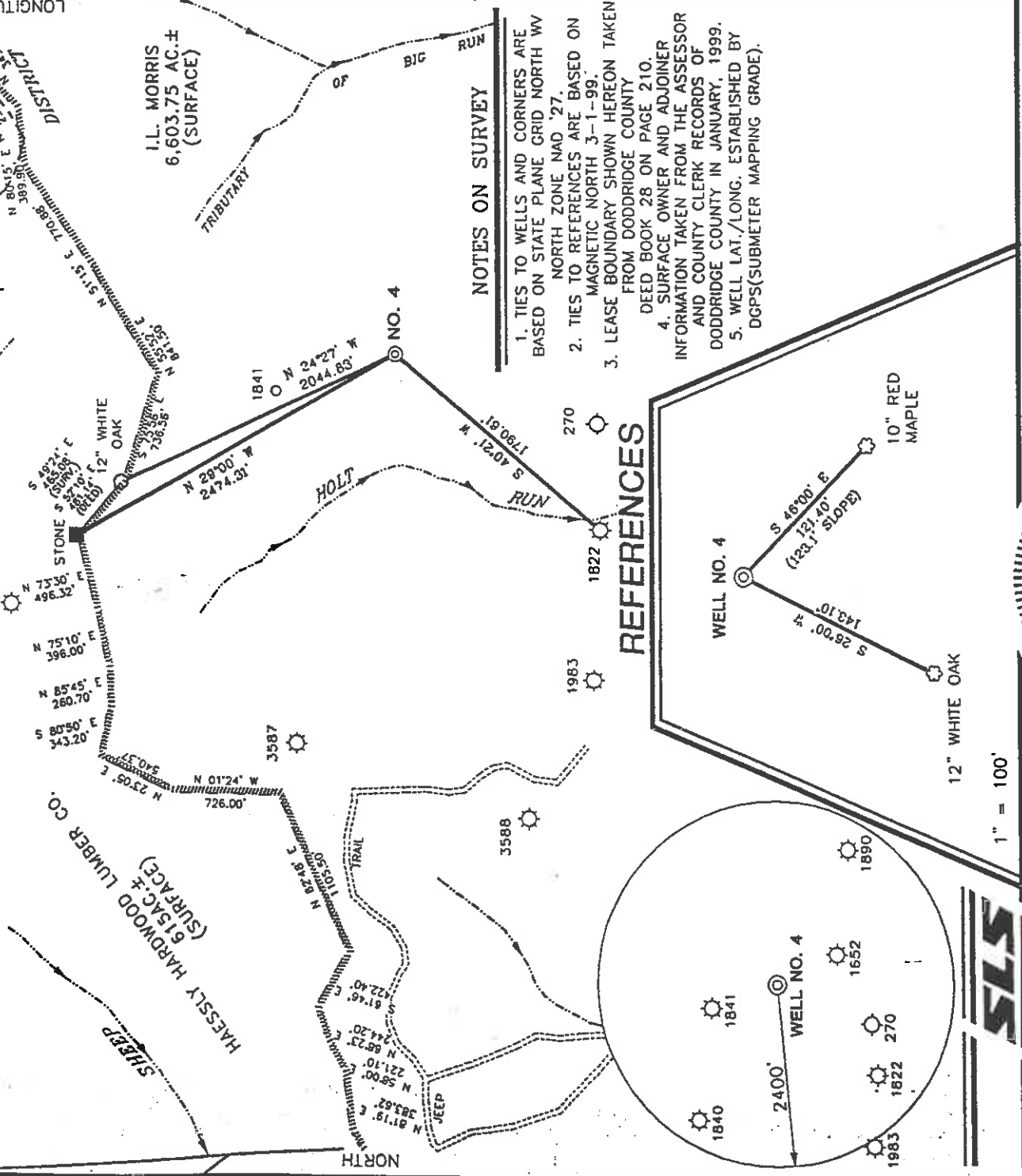


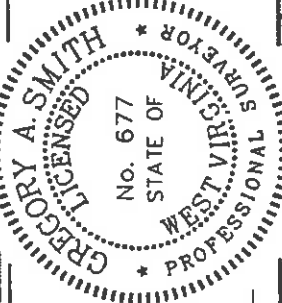
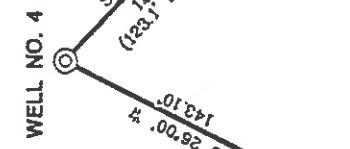
W.B. MAXWELL LEASE 2,400 ACRES ± WELL NO. 4



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WY NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-1-99.
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. 4152P4 (69-72)
PROVEN SOURCE OF ELEVATION SCALE 1" = 1000'
JUNCTION OF ROADS ELEVATION 886'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 3 19 99
OPERATORS WELL NO. W.B. MAXWELL #4
API WELL NO. 47-17-4511
STATE COUNTY PERMIT



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

LOCATION : ELEVATION 1113' WATERSHED HOLT RUN OF SOUTH FORK HUGHES RIVER
DISTRICT SCOUTSWEST 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
LEASE NO. _____

PROPOSED WORK :
DRILL CONVERT UNIL 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'

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 Dodd PERMIT 4511

6-6-33

WR-35

State of West Virginia
Office of Oil & Gas
Regulatory

OCT 25 1999

18-May-99
API # 47 - 017-4511

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

Reviewed _____

Division of
Environmental Protection

Well Operator's Report of Well Work

Farm name: MORRIS, I.L.

Operator Well No.: W.B. MAXWELL 4

LOCATION: Elevation: 1,113.00

Quadrangle: OXFORD

District: SOUTHWEST
Latitude: 690 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude: 3900 Feet West of 80 Deg. 47 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: 05/21/99
Well Work Commenced: 09/15/99
Well Work Completed: 09/19/99

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5260'
Fresh water depths (ft) 67'
Salt water depths (ft) 1920'

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"	1145.05'	1145.05'	285 sks To Surface
4 1/2"	5172'	5172'	475 sks
2 3/8"		5010'	

OPEN FLOW DATA

Warren
Speechley
Balltown
Rileys
Benson

Producing formation Alexander
Gas: Initial open flow No show MCF / d Pay zone depth (ft) 3116' - 3174'
Final open flow 1,548 MCF / d Oil: Initial open flow 0 Bbl / d 3189' - 3293'
Time of open flow between initial and final tests N/A Oil: Final open flow show Bbl / d 3479' - 4124'
Static rock pressure 1700 psig (surface pressure) after 96 Hours 4290' - 4688'
4743' - 4751'
4980' - 5088'

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 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: 
Date: October 7, 1999

PRESIDENT

NOV 1 1999

D000 4511

W. B. Maxwell #4 (47-017-4511)
Four Stage Foam Frac - Halliburton

1 st Stage:	Alexander (16 holes) (5006' - 5086')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 809 bbls foam.
2 nd Stage:	Benson (7 holes) (4747.50' to 4749') Third Riley (3 holes) (4670' to 4670.50') Second Riley (4561.75' to 4562.25')	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 613 bbls foam.
3 rd Stage:	Riley (8 holes) (4328.25' to 4338.25') Balltown (8 holes) (3929.50' to 4114.25')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 741 bbls foam.
4 th Stage:	Speechley (8 holes) (3195' to 3275.25') Warren (7 hole) (3161.50' to 3168.50')	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

Red Rock	0	10	
Sand & Shale	10	30	
Sand	30	62	
Sand & Shale & Red Rock	62	254	
Sand	254	430	
Sand & Shale	430	490	
Red Rock & Shale	490	790	
Sand	790	840	
Red Rock	840	904	
Sand & Shale	904	989	
Sand	989	1120	
Sand & Shale	1120	1719	
Little Lime	1719	1754	
Sand & Shale	1754	1762	
Big Lime	1762	1825	
Big Injun	1825	1908	
Shale	1908	2055	
Weir	2055	2174	
Sand & Shale	2174	2256	
Berea	2256	2262	
Sand & Shale	2262	3116	
Warren	3116	3174	
Shale	3174	3189	
Speechley	3189	3293	
Shale	3293	3479	
Balltown	3479	4124	
Shale	4124	4290	
Riley	4290	4358	
Shale	4358	4544	
Second Riley	4544	4583	
Shale	4583	4661	
Third Riley	4661	4688	
Shale	4688	4743	
Benson	4743	4751	
Shale	4751	4938	
Elk	4938	4955	
Shale	4955	4980	
Alexander	4980	5088	
Sand & Shale	5088	5260	
T.D.	5260		

1/2" water @ 67'

Hole damp @ 1320'

Gas Checks
No Show