

W.B. MAXWELL LEASE 2,400 ACRES± WELL NO. 9

HAESSLY HARDWOOD LUMBER CO.
615AC.±
(SURFACE)

LONG. 80°47'05.9" LAT. 39°12'25.4"

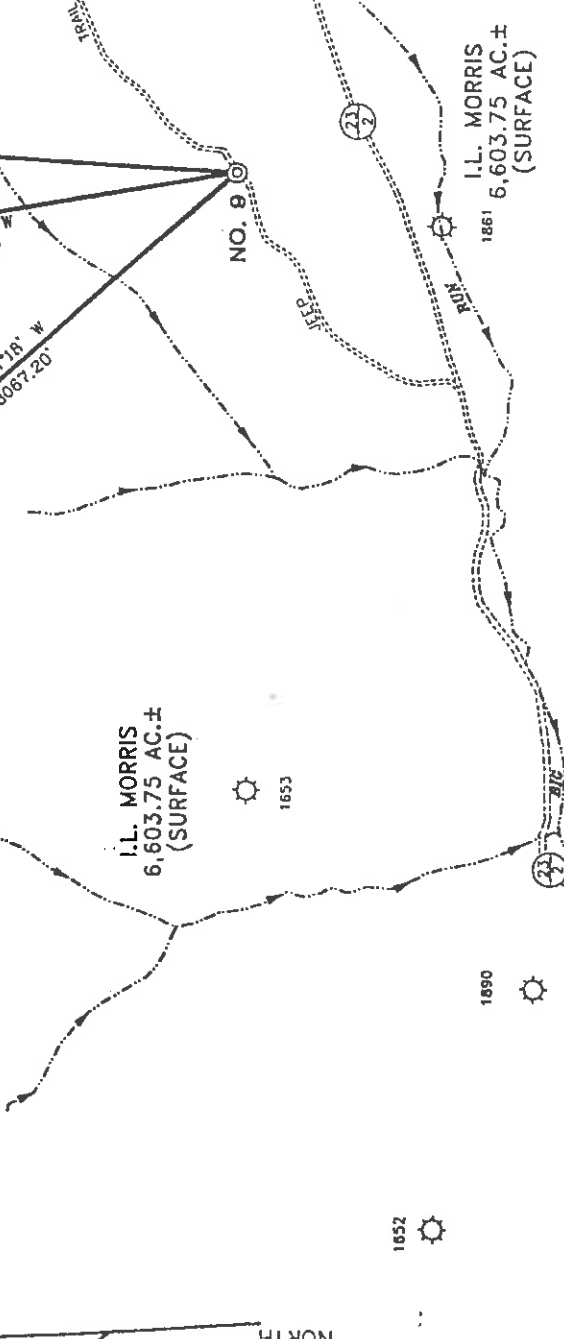
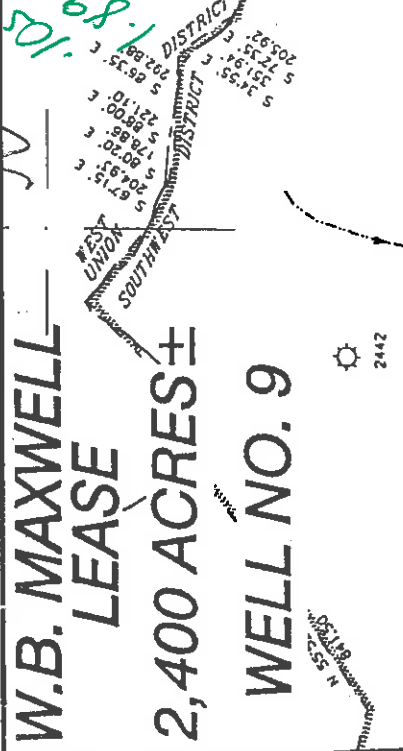
9.970

LATITUDE 39°12'30"

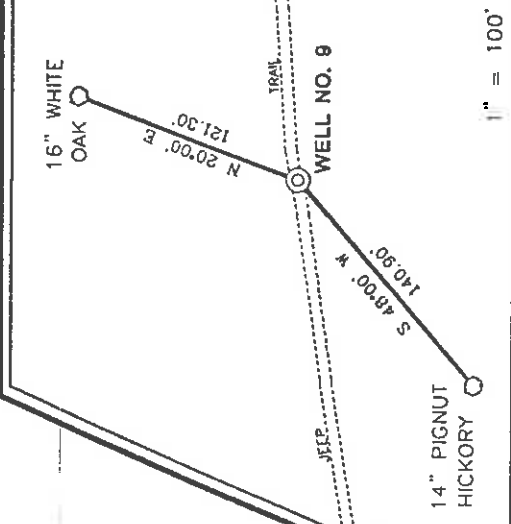
LONGITUDE 80°45'00"

LONG. 80°47'05.9" LAT. 39°12'25.4"

WEST DISTRICT
SOUTH EAST DISTRICT



REFERENCES



NOTES ON SURVEY

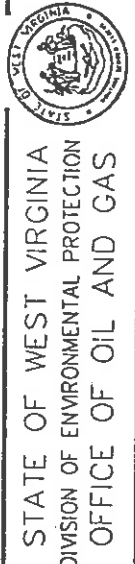
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-5-99.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DODDRIDGE COUNTY DEED BOOK 28 ON PAGE 210.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JANUARY, 1999.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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. 677
Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 5, 19 99
 OPERATORS WELL NO. W.B. MAXWELL #9
 API NO. 47-017-04545
 WELL NO. 47-017-04545
 STATE COUNTY PERMIT



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

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4152P9 (69-75)
 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 1238' WATERSHED BIG 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
 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
 COUNTY NAME DODD PERMIT 4545

6-6 133

RECEIVED
Office of Oil & Gas
Permitting

NOV 30 2000

WV Division of
Environmental ProtectionState of West Virginia
Division of Environmental Protection
Section of Oil and Gas24 - Apr - 00
API # 47-017-4545*AK*

Well Operator's Report of Well Work

Farm name: I.L. MORRIS

Operator Well No. : W.B. MAXWELL #9

LOCATION: Elevation: 1238'

Quadrangle: OXFORD

District: SOUTHWEST
Latitude: 480
Longitude: 9970County: DODDRIDGE
Feet South of 39 Deg. 12 Min. 30 Sec.
Feet West of 80 Deg. 45 Min. 00 Sec.Company: KEY OIL COMPANY
22 GARTON PLAZA
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 04/24/00
Well Work Commenced: 11/01/00
Well Work Completed: 11/05/00Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5339'
Fresh water depths (ft) 73'
Salt water depths (ft) 150', 442'Is coal being mined in area (Y / N) ? N
Coal Depths (ft) : _____

OPEN FLOW DATA

Warren
Speechley
Balltown
Rileys
Benson
Elk
Producing formation Alexander
Gas: Initial open flow Show MCF / d
Final open flow 1,540 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1750 psig (surface pressure) after 96 Hours
Pay zone depth (ft)
Oil: Initial open flow 0 Bbl / d
Oil: Final open flow show Bbl / d
Hours
Hours3202' - 3256'
3271' - 3420'
3550' - 4307'
4382' - 4800'
4849' - 4858'
4980' - 5068'
5092' - 5203'Second producing formation CommingledGas: 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
Hours
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

JAN 5 2001

By: 

Date: November 24, 2000

PRESIDENT

D000 4545

W. B. Maxwell #9 (47-017-4545)
 Four Stage Foam Frac - B.J. Services

1 st Stage:	Alexander (14 holes) (5120.75' to 5194.75') Elk (3 holes) (5014' to 5014.50')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 810 bbls foam.
2 nd Stage:	Benson (10 holes) (4852.50' to 4854.75') Third Riley (4 holes) (4766.50' to 4767.25')	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 615 bbls foam.
3 rd Stage:	Riley (7 holes) (4422.75' to 4430.25') Balltown (9 holes) (4169.25' to 4296.25')	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 (10 holes) (3276' to 3352') Warren (7 hole) (3236.50' to 3251.75')	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		
KB-Gl	0	10
Clay	10	11
Sand & Shale	11	38
Red Rock & Shale	38	108
Sand & Shale	108	120
Sand	120	148
Sand & Shale	148	218
Sand	218	291
Shale & Red Rock	291	311
Sand & Shale	311	1810
Little Lime	1810	1823
Big Lime	1823	1910
Big Injun	1910	1992
Shale	1992	2143
Weir	2143	2259
Shale	2259	2345
Berea	2345	2356
Sand & Shale	2356	2568
Gordon	2568	2586
Shale & Sand	2586	3202
Warren	3202	3256
Sand & Shale	3256	3271
Speechley	3271	3420
Shale	3420	3550
Balltown	3550	4307
Shale	4307	4382
Riley	4382	4458
Shale	4458	4760
Third Riley	4760	4800
Shale	4800	4849
Benson	4849	4858
Shale	4858	4980
Elk	4980	5068
Shale	5068	5092
Alexander	5092	5203
Sand & Shale	5203	5339
T.D.	5339	

Damp @ 73'

Damp @ 150'

Damp @ 442'

Gas Checks

1798' - No Show
 2050' - No Show
 2770' - 10/10^{ths} - 1/2" w/water
 3200' - Odor
 3910' - Odor
 4406' - Odor
 5339' - 8/10^{ths} - 1/2" w/water

W. B. Maxwell