

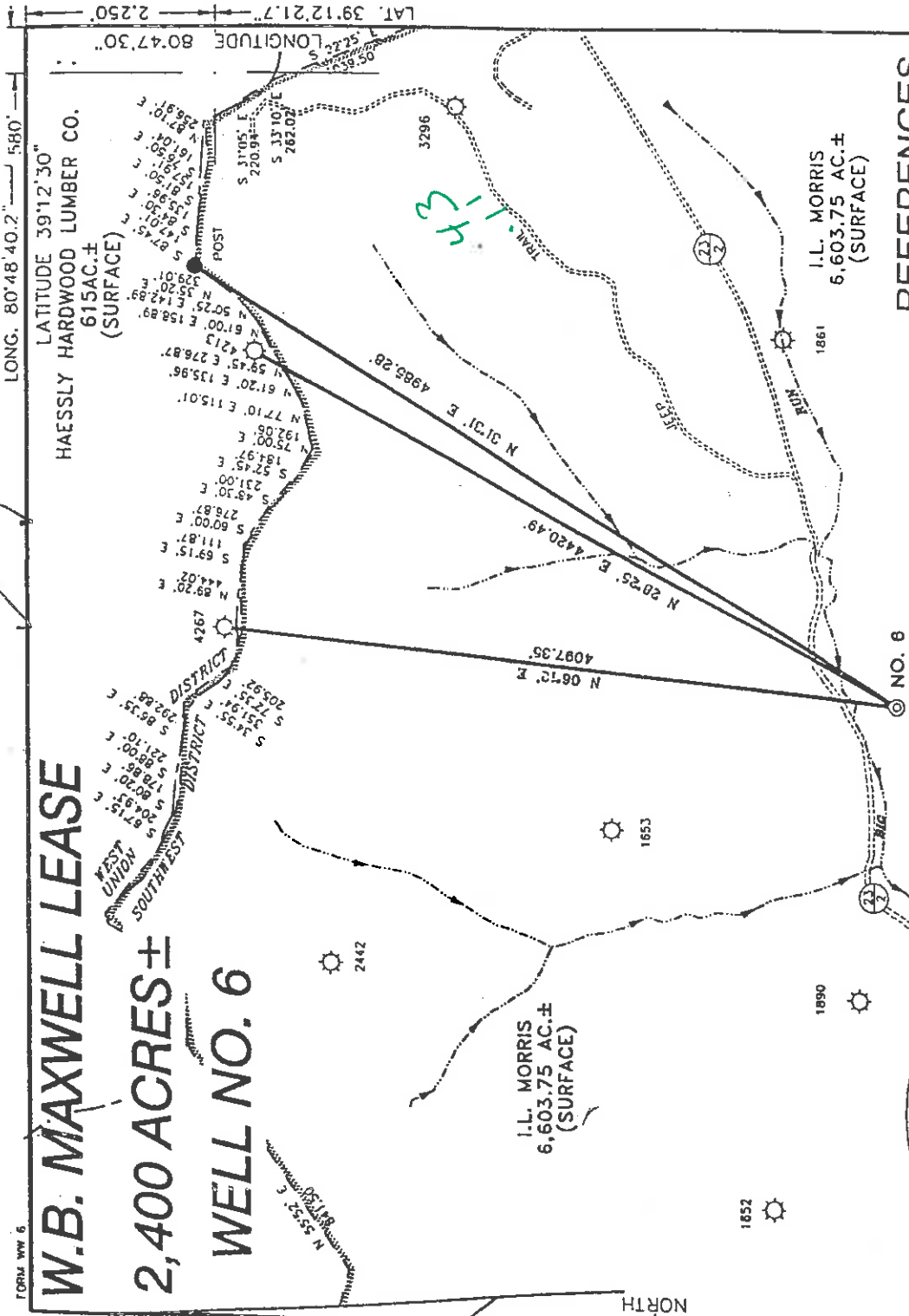
W.B. MAXWELL LEASE

2,400 ACRES ±

WELL NO. 6

I.L. MORRIS
6,603.75 AC. ±
(SURFACE)

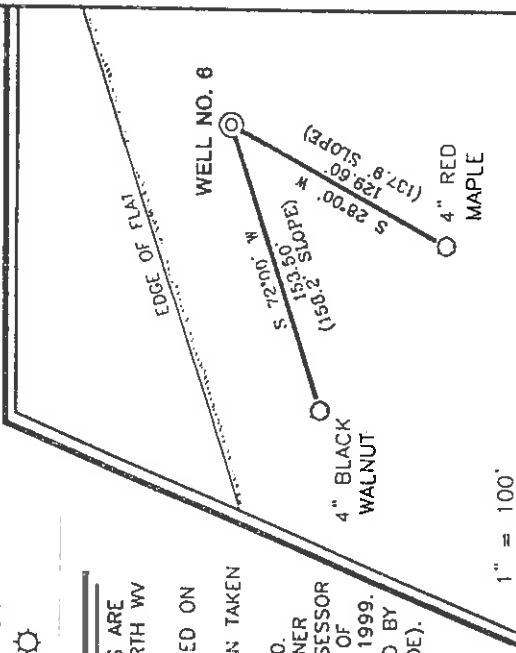
I.L. MORRIS
6,603.75 AC. ±
(SURFACE)



NOTES ON SURVEY

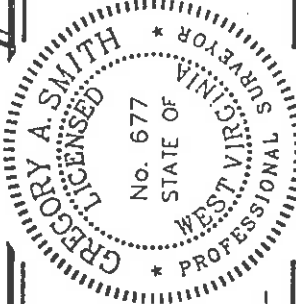
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 3-5-99.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DODDRIDGE COUNTY DEED BOOK 28 ON PAGE 210.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE MARCH 5, 19 99
OPERATORS WELL NO. W.B. MAXWELL #16
API WELL NO. 47
STATE COUNTY PERMIT NO. 04544

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4152P6 (69-75)
PROVEN SOURCE SCALE 1" = 1000'
OF ELEVATION JUNCTION OF ROADS ELEVATION 886'

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



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

LOCATION : ELEVATION 937' 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 : LEASE NO. _____

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 APR 28 2000
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

Dodd COUNTY NAME 4544 PERMIT

6-6 133

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

Reviewed MB

Well Operator's Report of Well Work

Farm name: I.L. MORRIS

Operator Well No. : W.B. MAXWELL #6

LOCATION: Elevation: 937'

Quadrangle: OXFORD

District: SOUTHWEST
Latitude: 2,250 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude: 580 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: 04/24/00
Well Work Commenced: 08/14/00
Well Work Completed: 08/20/00

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) _____ 5057'
Fresh water depths (ft) _____ None
Salt water depths (ft) _____ 184'

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 60 MCF / d
Final open flow 1,516 MCF / d
Time of open flow between initial and final tests _____
Static rock pressure 1650 psig (surface pressure) after 96 Hours

Second producing formation Commingle
Gas: 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

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: [Signature]

NOV 03 2000

PRESIDENT

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	129.05'	129.05'	70 sks To Surface
8 5/8"	1225.70'	1225.70'	300 sks To Surface
4 1/2"	5004'	5004'	470 sks
2 3/8"		4839'	

RECEIVED
Office of Oil & Gas Permitting
OCT 18 2000
WV Division of Environmental Protection

D000 4544

W. B. Maxwell #6 (47-017-4544)
Four Stage Foam Frac - Halliburton

1 st Stage:	Alexander (16 holes) (4859.50' to 4918') Elk (3 holes) (4735.75' to 4736.25')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 806 bbls foam.
2 nd Stage:	Elk (3 holes) (4596' to 4596.50') Benson (7 holes) (4576.50' to 4578') Second Riley (5 holes) (4395.75' to 4405.25')	60 Quality Foam. 1,000 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 611 bbls foam.
3 rd Stage:	Riley (11 holes) (4150.25' to 4156.25') Balltown (5 holes) 4022.25' to 4028.25')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 738 bbls foam.
4 th Stage:	Speechley (9 holes) (3003.25' to 3086.25') Warren (9 hole) (2963.25' to 2982.50')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 719 bbls foam.

WELL LOG

KB-GL	0	10	
Fill	10	18	
Clay & Gravel	18	27	
Red Rock	27	49	
Sand & Shale	49	165	
Sand	165	203	
Sand & Shale	203	565	
Shale & Red Rock	565	589	
Sand & Shale	589	945	
Sand	945	1116	
Shale	1116	1240	
Sand & Shale	1240	1499	
Little Lime	1499	1525	
Big Lime	1525	1634	
Big Injun	1634	1720	
Shale	1720	1871	
Weir	1871	1987	
Shale	1987	2074	
Berea	2074	2083	
Sand & Shale	2083	2298	
Gordon	2298	2314	
Shale	2314	2927	
Warren	2927	2992	
Sand & Shale	2992	3001	
Speechley	3001	3308	
Shale	3308	3650	
Balltown	3650	4040	
Shale	4040	4103	
Riley	4103	4184	
Shale	4184	4390	
Second Riley	4390	4408	
Shale	4408	4446	
Third Riley	4446	4524	
Shale	4524	4574	
Benson	4574	4584	
Shale	4584	4702	
Elk	4702	4792	
Shale	4792	4822	
Alexander	4822	4930	
Sand & Shale	4930	5057	
T. D.	5057		

½" water @ 184'

Gas Checks

1461' - No Show
1802' - Odor
2332' - 8/10^{ths} -2" w/water
2925' - 4/10^{ths} -2" w/water
3268' - 4/10^{ths} -2" w/water
4099' - 2/10^{ths} -2" w/water
4501' - 2/10^{ths} -2" w/water
4812' - 2/10^{ths} -2" w/water
5057' - 2/10^{ths} -2" w/water