

LONG. 80°47'20.8"

11.130

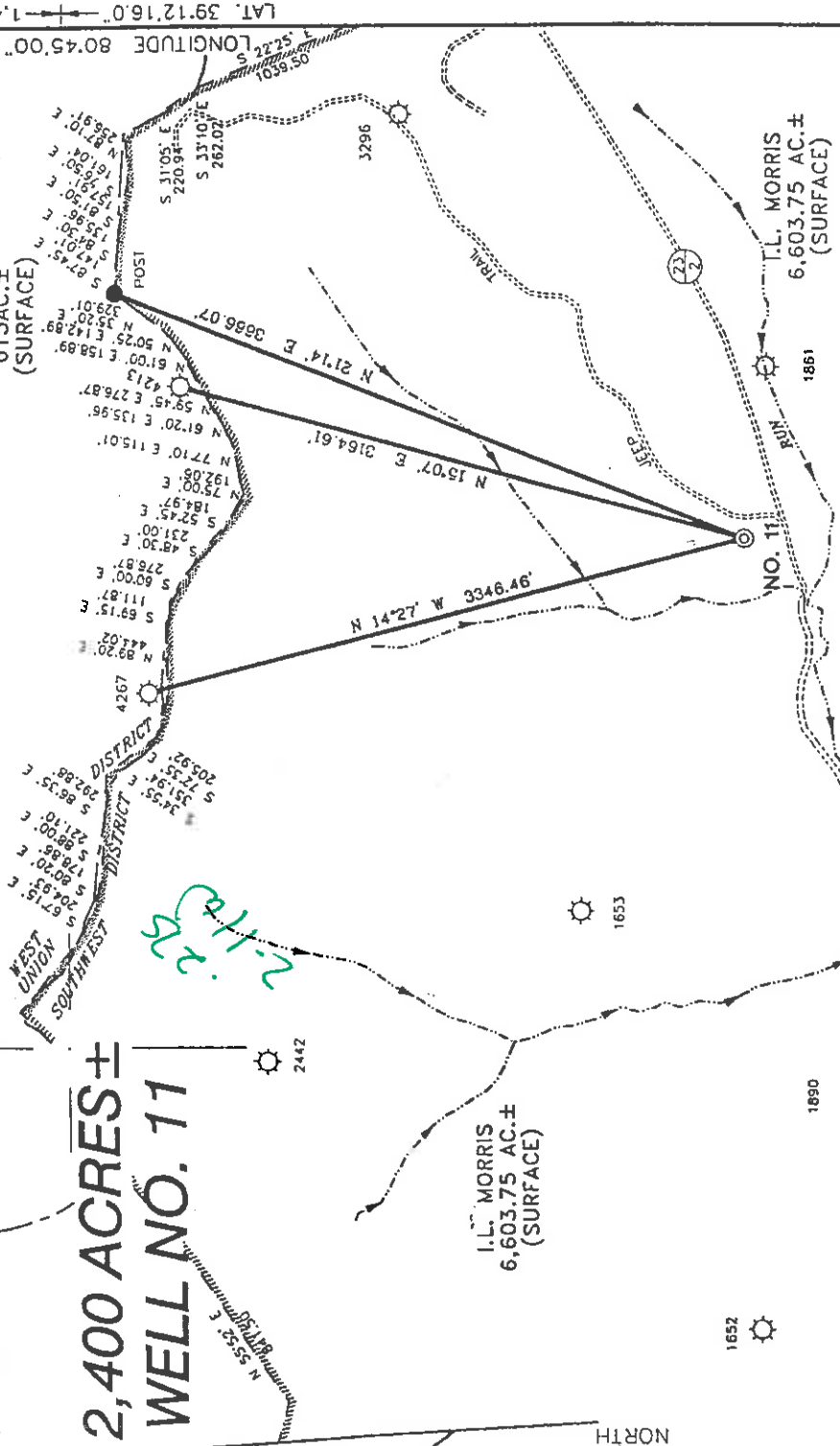
W.B. MAXWELL LEASE

2,400 ACRES ±

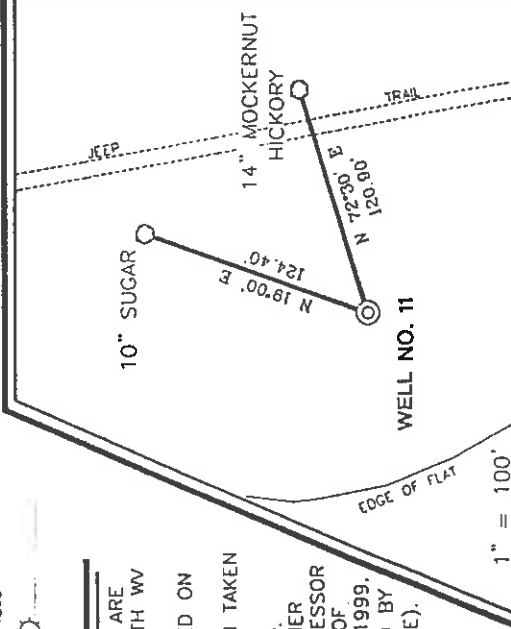
WELL NO. 11

I.L. MORRIS
6,603.75 AC.±
(SURFACE)

LATITUDE 39°12'30"
HAESSLY HARDWOOD LUMBER CO.
615AC.±
(SURFACE)



REFERENCES

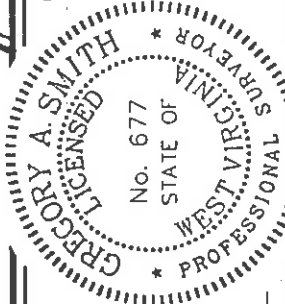


NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH 'W' NORTH ZONE NAD '27. MAGNETIC NORTH 3-5-99.
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. *Gregory A. Smith*
677



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

DATE MARCH 5 19 99
OPERATORS WELL NO. W.B. MAXWELL #11
API WELL NO. 47-017-04546
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4152P11 (69-74)
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 886'
SCALE 1" = 1000'

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 1057' 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. _____

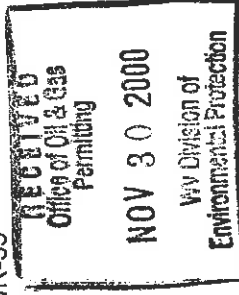
DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5600'

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

COUNTY NAME DODD PERMIT 4546

6-6 133



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

Well Operator's Report of Well Work

Farm name: I.L. MORRIS

Operator Well No. : W.B. MAXWELL #11

LOCATION: Elevation: 1057.00

Quadrangle: OXFORD

District: SOUTHWEST
Latitude: 1420 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude: 11130 Feet West of 80 Deg. 45 Min. 00 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: 10/27/00
Well Work Completed: 11/01/00

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) _____ 5151'
Fresh water depths (ft) _____ 169'
Salt water depths (ft) _____ 1120'

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

OPEN FLOW DATA

- Warren
- Speechley
- Balltown
- Rileys
- Benson
- Elk

- 3024' - 3079'
- 3094' - 3183'
- 3374' - 4136'
- 4203' - 4624'
- 4666' - 4678'
- 4796' - 4889'
- 4913' - 5025'

Producing formation Alexander Pay zone depth (ft) _____
Gas: Initial open flow No Show MCF / d _____ Oil: Initial open flow 0 Bbl / d _____
Final open flow 1.563 MCF / d _____ Oil: Final open flow show Bbl / d _____
Time of open flow between initial and final tests N/A Hours _____
Static rock pressure 1700 psig (surface pressure) after 96 Hours _____

Second producing formation Commingled 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: 
Date: November 22, 2000

PRESIDENT

JAN 5 2001

D000 4546

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"	117'	117'	70 sks To Surface
8 5/8"	1364'	1364'	305 sks To Surface
4 1/2"	5116'	5116'	470 sks
2 3/8"		4922'	

W. B. Maxwell #11 (47-017-4546)
Four Stage Foam Frac – B. J. Services

1 st Stage:	Alexander (11 holes) (4942.25' to 5014.75') Elk (5 holes) (4808' to 4834.25')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 807 bbls foam.
2 nd Stage:	Benson (9 holes) (4672.25' to 4674.25') Third Riley (4 holes) (4590' to 4590.75')	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 612 bbls foam.
3 rd Stage:	Riley (13 holes) (4232.25' to 4251.50') Balltown (3 holes) (3981.75' to 3982.25')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 739 bbls foam.
4 th Stage:	Speechley (10 holes) (3098.75' to 3176.25') Warren (8 hole) (3057.50' to 3074.25')	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 & Shale	10	25	
Sand & Shale	20	675	
Red Rock	675	713	1/4" H ² O @ 260'
Sand & Shale	713	867	
Shale & Red Rock	867	889	
Sand & Shale	889	950	
Shale & Red Rock	950	974	
Sand & Shale	974	1427	1/2" H ² O @ 1325'
Shale	1427	1453	
Sand & Shale	1453	1495	
Shale	1495	1498	
Sand & Shale	1498	1600	
Little Lime	1600	1650	
Shale	1650	1664	
Big Lime	1664	1725	
Big Injun	1725	1808	
Shale	1808	1960	
Weir	1960	2074	
Shale	2074	2164	
Berea	2164	2172	
Sand & Shale	2172	2384	
Gordon	2384	2402	
Shale	2402	3024	
Warren	3024	3079	
Shale	3079	3094	
Speechley	3094	3183	
Shale	3183	3374	
Balltown	3374	4136	
Shale	4136	4203	
Riley	4203	4280	
Shale	4280	4564	
Third Riley	4564	4624	
Shale	4624	4666	
Benson	4666	4678	
Shale	4678	4796	
Elk	4796	4889	
Shale	4889	4913	
Alexander	4913	5025	
Sand & Shale	5025	5151	
T.D.	5151		

Gas Checks

1647' – No Show
1873' – No Show
2113' – No show
2441' – No Show
2977' – No Show
3311' – No Show
3751' – No Show
4473' – No Show
T.D. – No Show