

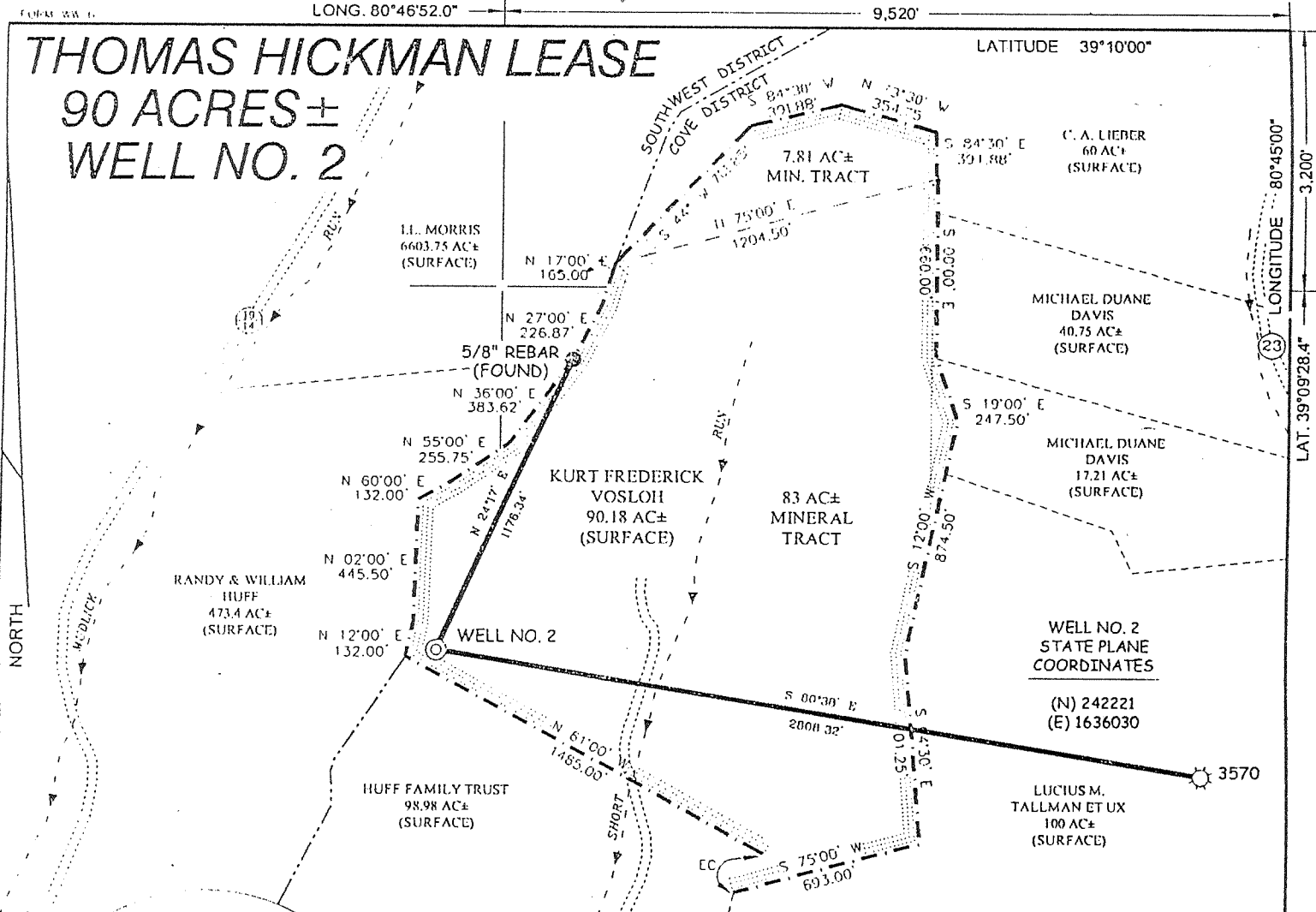
LONG. 80°46'52.0"

9,520'

LATITUDE 39°10'00"

THOMAS HICKMAN LEASE

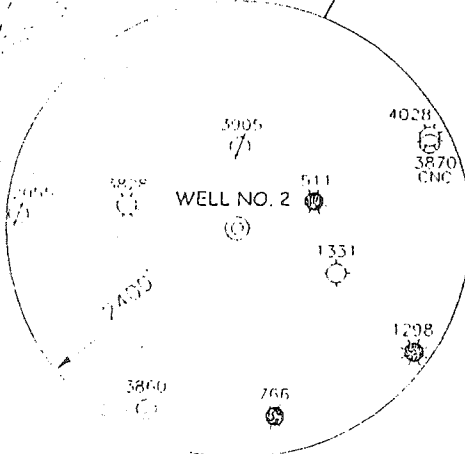
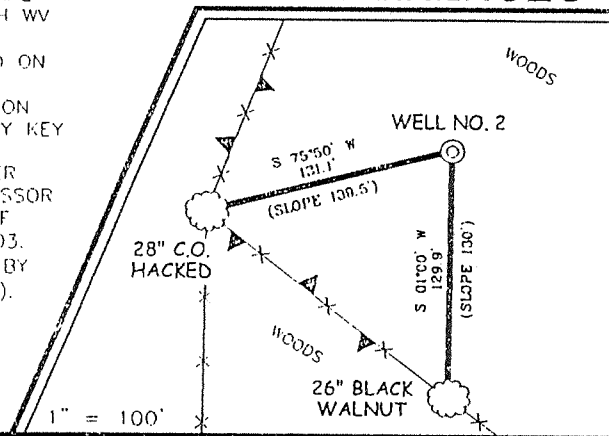
90 ACRES ± WELL NO. 2



NOTES ON SURVEY

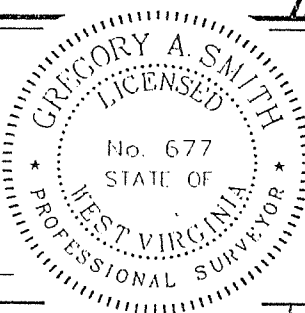
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 4/28/03.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED AS PROVIDED BY KEY OIL CO.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN APRIL, 2003.
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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE APRIL 30, 20 03
 OPERATORS WELL NO. HICKMAN NO. 2
 API WELL NO. 47 - 017 - 04740
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 5237P2 (143-28)
 SCALE 1" = 600'
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION = 1,274'

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



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

LOCATION: ELEVATION 1,215' WATERSHED SHORT RUN
 DISTRICT COVE COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER KURT F. VOSLOH ACREAGE 90.18 ±
 ROYALTY OWNER ORAL M. CHAPMAN ET AL LEASE ACREAGE 90 ±

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 5,600'

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

(Straight Fork - Blue Stone Creek 133)

JUN 18 2003

COUNTY NAME Dodd
 PERMIT 4740

MT

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

Well Operator's Report of Well Work

Farm Name: KURT F. VOLSON

Operator Well No. : T. HICKMAN #2

LOCATION: Elevation: 1215.00

Quadrangle: OXFORD

District: COVE

County: DODDRIDGE

Latitude: 3200 Feet South of 39 Deg. 10 Min. 00 Sec.

Longitude: 9520 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: 06/10/03
Well Work Commenced: 10/04/03
Well Work Completed: 10/15/03
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5347'
Fresh water depths (ft) 109'
Salt water depths (ft) NONE

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
8 5/8"	1227'	1227'	275 sks To Surface
4 1/2"	5294'	5294'	460 sks

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

OPEN FLOW DATA	Warren	3253' - 3302'
	Speechley	3318' - 3400'
	Balltown	3582' - 4232'
	Rileys	4421' - 4813'
	Benson	4870' - 4878'
	Elk	5054' - 5084'

Producing formation Alexander Pay zone depth (ft) 5113' - 5216'
 Gas: Initial open flow Odor MCF / d Oil: Initial open flow 0 Bbl / d
 Final open flow 1,858 MCF / d Oil: Final open flow show Bbl / d
 Time of open flow between initial and final tests N/A Hours
 Static rock pressure 1340 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: *Jan Chapman*
Date: January 18, 2004

PRESIDENT

FEB 13 2004

RECEIVED
Office of Oil & Gas
Office of Chief
JAN 23 2004
WV Department of
Environmental Protection

7000.4740

T. Hickman #2 (47-017-4740)
Four Stage Foam Frac – BJ Services

1 st Stage:	Alexander (12 holes) (5127.75' to 5213') Elk (3 holes) (5063.25' to 5080')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 565,000 SCF N2, 815 bbls foam.
2 nd Stage:	Benson (7 holes) (4872.25' to 4873.75') Third Riley (6 holes) (4785.50' to 4790')	60 Quality Foam. 750 gal. 15% HCL. 30,000# 20/40 sand, 359,000 SCF N2, 525 bbls foam.
3 rd Stage:	Riley (9 holes) (4448' to 4461') Baltown (4 holes) (4035.50' to 4036.25')	60 Quality Foam 750 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 448,000 SCF N2, 616 bbls foam.
4 th Stage:	Speechley (9 holes) (3323' to 3391.50') Warren (6 holes) (3274.75' to 3293.25')	60 Quality Foam 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 517,000 SCF N2, 729 bbls foam.

WELL LOG

KB-GL	0	10	
Clay	10	13	
Sand & Shale & Red Rock	13	210	
Sand & Shale	210	421	½" water @ 109'
Red Rock	421	455	
Sand & Shale	455	538	
Shale & Red Rock	538	591	
Sand & Shale	591	700	
Red Rock	700	720	
Sand & Shale	720	855	
Red Rock	855	878	
Sand & Shale	878	944	
Red Rock	944	976	
Sand & Shale	976	1295	
Sand	1295	1384	
Sand & Shale	1384	1903	
Little Lime	1903	1921	
Sand & Shale	1921	1930	
Big Lime	1930	1998	Gas Checks
Big Injun	1998	2074	1826' – No show
Shale	2074	2205	2170' - Odor
Weir	2205	2322	2254' - Odor
Shale & Siltstone	2322	3253	2641' - Odor
Warren	3253	3302	3271' - Odor
Shale	3302	3318	3801' - Odor
Speechley	3318	3400	4462' - Odor
Shale	3400	3582	4865' - Odor
Balltown	3582	4232	TD - Odor
Shale	4232	4421	
Riley	4421	4490	
Shale	4490	4764	
Third Riley	4764	4813	
Shale	4813	4870	
Benson	4870	4878	
Shale	4878	5054	
Elk	5054	5084	
Shale	5084	5113	
Alexander	5113	5216	
Shale	5216	5347	
TD	5347		

449
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