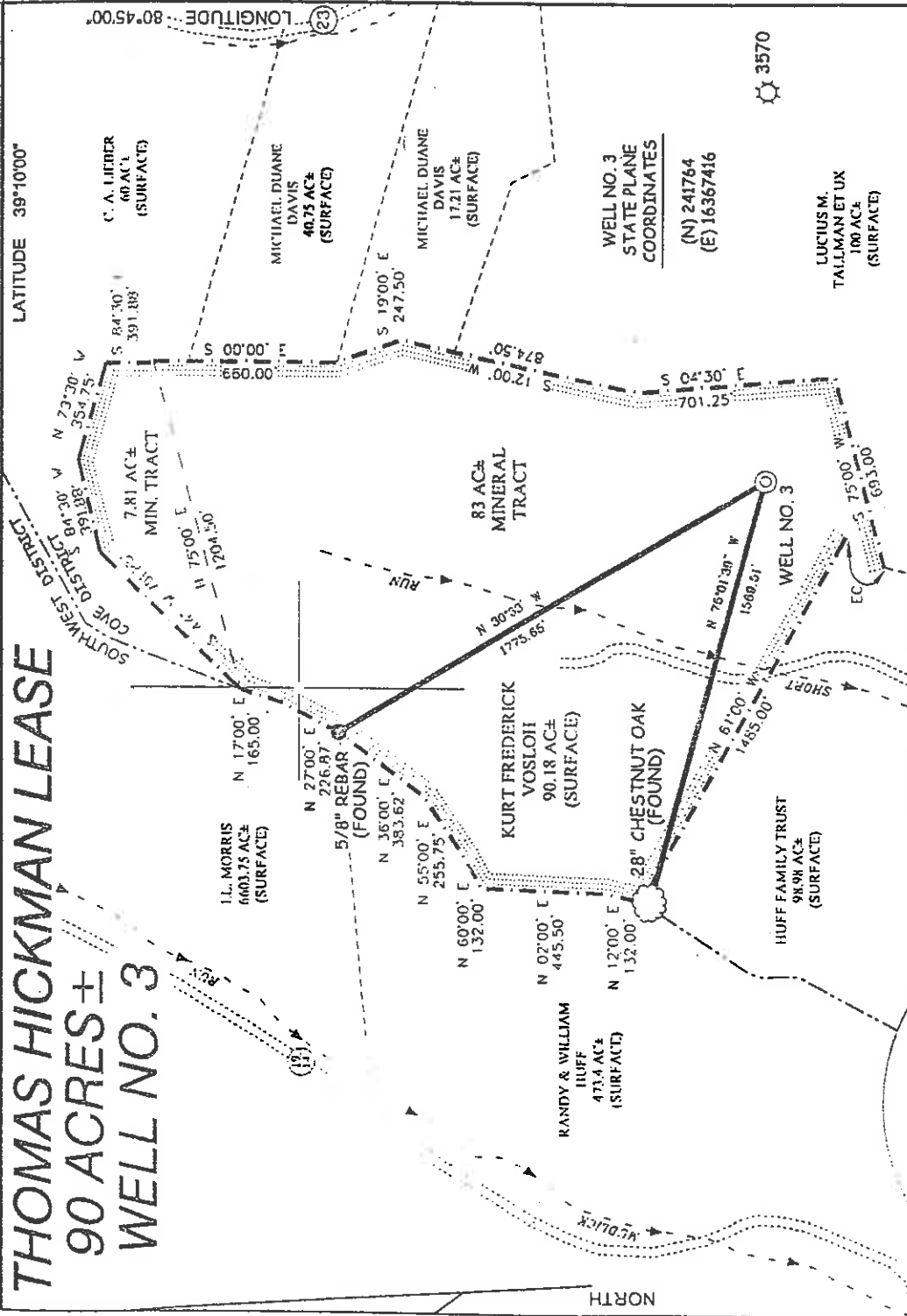


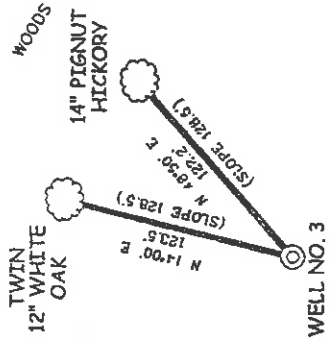
THOMAS HICKMAN LEASE 90 ACRES ± WELL NO. 3



NOTES ON SURVEY

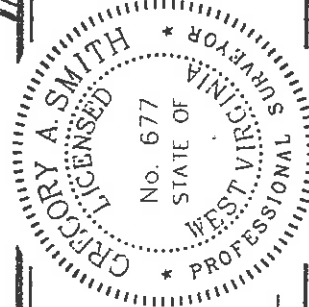
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 4/28/03
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED AS PROVIDED BY KEY OIL CO.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK 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, 2003
OPERATORS WELL NO. HICKMAN NO. 3

API WELL NO. 47-17-04739
STATE COUNTY PERMIT

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



MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 5237P3 (143-29)

SCALE 1" = 600'

PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION = 1,274'

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

LOCATION: ELEVATION 1,144' DISTRICT COVE COUNTY DODDRIDGE WATERSHED SHORT RUN

SURFACE OWNER KURT F. VOSLOH QUADRANGLE OXFORD 7.5

ROYALTY OWNER ORAL M. CHAPMAN ET AL ACREAGE 90.18 ±

PROPOSED WORK: LEASE ACRES 90 ± LEASE NO.

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

FORMATION PERFORATE NEW FORMATION TARGET FORMATION ALEXANDER

PHYSICAL CHANGE IN WELL (SPECIFY) ESTIMATED DEPTH 5,600'

DODD COUNTY NAME

4739 PERMIT

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 - Distington Creek 133)

M

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 #3

LOCATION: Elevation: 1144.00 Quadrangle: OXFORD

District: COVE County: DODDRIDGE

Latitude: 3620 Feet South of 39 Deg. 10 Min. 00 Sec.
Longitude: 8130 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: 10/09/03
Well Work Completed: 10/22/03

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5313'
Fresh water depths (ft) 55'
Salt water depths (ft) NONE

Is coal being mined in area (Y / N) ? N
Coal Depths (ft) : 20' (3')

OPEN FLOW DATA

Warren
Speechley
Balltown
Rileys
Benson
Elk

Producing formation Alexander
Gas: Initial open flow 84 MCF / d Pay zone depth (ft)
Final open flow 1,750 MCF / d Oil: Initial open flow 0 Bbl / d
Time of open flow between initial and final tests N/A Oil: Final open flow show Bbl / d
Static rock pressure 1350 psig (surface pressure) after 96 Hours

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 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: *J. Chapman*
Date: January 18, 2004

PRESIDENT

FEB 13 2004

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
8 5/8"	1138'	1138'	260 sks To Surface
4 1/2"	5249'	5249'	460 sks

3210' - 3258'
3273' - 3355'
3932' - 4285'
4368' - 4765'
4829' - 4838'
4978' - 4990'
5056' - 5199'

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

DoDD, 4739

T. Hickman #3 (47 - 017 - 4739)
 Four Stage Foam Frac - Universal Well Services

- 1st Stage: Alexander (13 holes) (5087.75' to 5175.50') 60 Quality Foam. 500 gal. 15% HCL.
 Elk (1 hole) (4982.23') 60,000# 20/40 sand, 565,000 SCF N2,
 815 blis foam.
- 2nd Stage: Benson (7 holes) (4830.25' to 4831.75') 60 Quality Foam. 750 gal. 15% HCL.
 Third Riley (6 holes) (4746' to 4747.25') 30,000# 20/40 sand, 359,000 SCF N2,
 525 blis foam.
- 3rd Stage: Riley (8 holes) (4413.75' to 4426') 60 Quality Foam 750 gal 15% HCL.
 Baltown (6 holes) (3984.50' to 3994.75') 5,000# 80/100 sand, 35,000# 20/40 sand,
 448,000 SCF N2, 616 blis foam.
- 4th Stage: Speechley (9 holes) (3289.75' to 3348.50') 60 Quality Foam 750 gal 15% HCL.
 Warren (4 holes) (3232.25' to 3250') 5,000# 80/100 sand, 45,000# 20/40 sand,
 517,000 SCF N2, 729 blis foam.

WELL LOG

KB-Gl	0	10	10
Fill	10	14	14
Sand	14	20	20
Coal	20	23	23
Sand & Shale & Red Rock	23	430	430
Sand & Shale	430	660	660
Red Rock	660	673	673
Sand & Shale & Red Rock	673	774	774
Red Rock	774	800	800
Sand & Shale	800	849	849
Sand	849	1165	1165
Sand & Shale	1165	1260	1260
Little Lime	1260	1860	1860
Sand & Shale	1860	1889	1889
Big Lime	1889	1900	1900
Big Injun	1900	1959	1959
Shale	1959	2034	2034
Weir	2034	2158	2158
Shale	2158	2278	2278
Berea	2278	2366	2366
Shale	2366	2373	2373
Warren	2373	3210	3210
Shale	3210	3258	3258
Speechley	3258	3273	3273
Shale	3273	3355	3355
Baltown	3355	3932	3932
Shale	3932	4285	4285
Riley	4285	4368	4368
Shale	4368	4451	4451
Third Riley	4451	4722	4722
Shale	4722	4765	4765
Benson	4765	4829	4829
Shale	4829	4838	4838
Elk	4838	4978	4978
Shale	4978	4990	4990
Alexander	4990	5056	5056
Shale	5056	5199	5199
TD	5199	5313	5313

Damp @ 55"

Gas Checks
 1763' - No show
 2075' - No Show
 2202' - 6/10^{ths} - 2" w/water
 2540' - 4/10^{ths} - 2" w/water
 3202' - 4/10^{ths} - 2" w/water
 3722' - 4/10^{ths} - 2" w/water
 4871' - 4/10^{ths} - 2" w/water
 4998' - 4/10^{ths} - 2" w/water
 TD - 2/10^{ths} - 2" w/water

4479
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