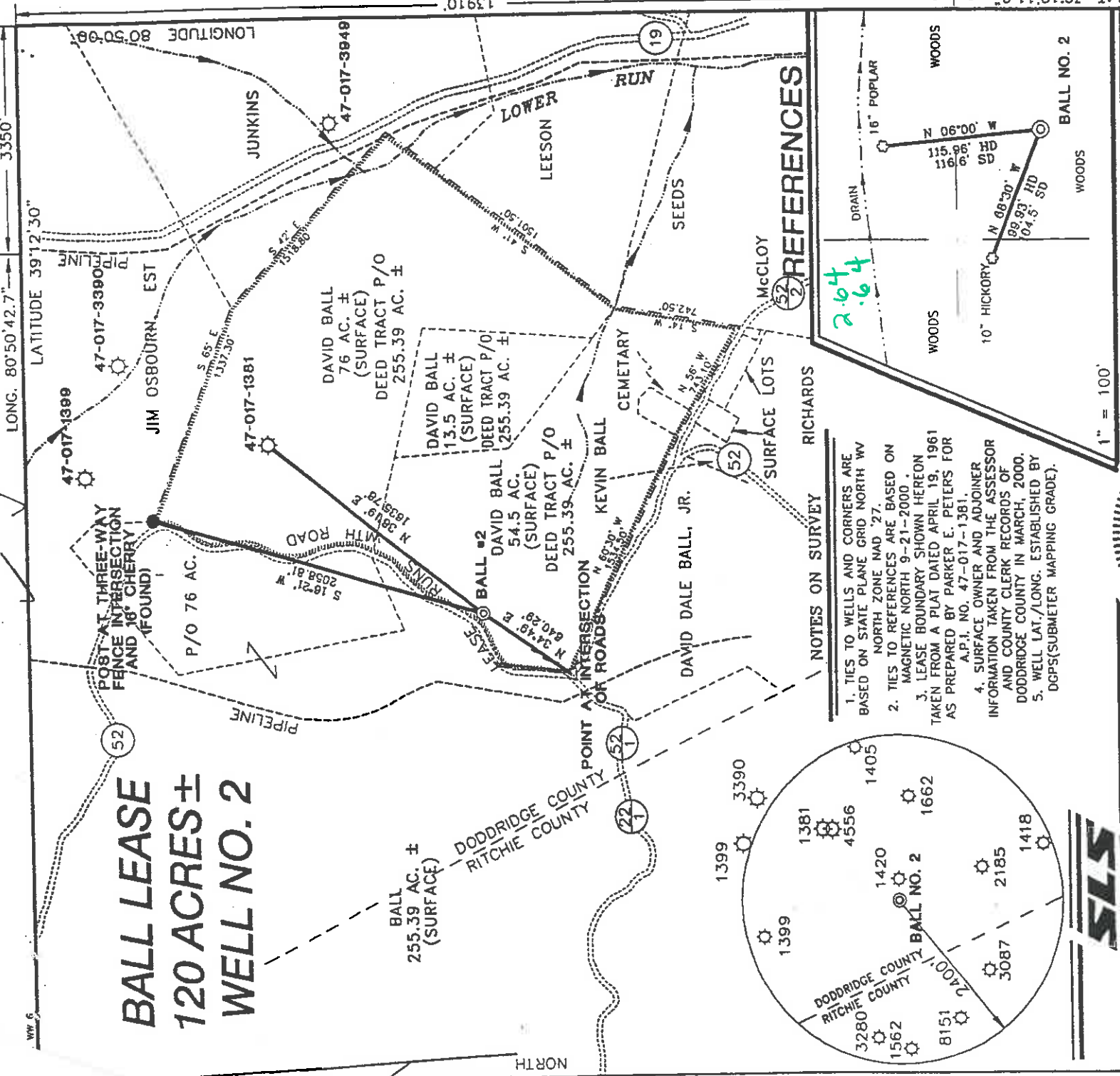


WV 6

BALL LEASE 120 ACRES ± WELL NO. 2



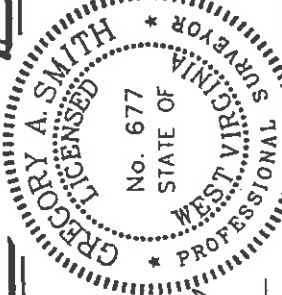
NOTES ON SURVEY

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 9-21-2000.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED APRIL 19, 1961 AS PREPARED BY PARKER E. PETERS FOR A.P.I. NO. 47-017-1381.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN MARCH, 2000.
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



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4389D2 (91-31)
PROVEN SOURCE OF ELEVATION SCALE 1" = 800'
JUNCTION OF ROADS 1091'

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

LOCATION : ELEVATION 1027' WATERSHED TRIBUTARY OF LOWER RUN

DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER DAVID BALL AND JANICE BALL ACREAGE 54.5 OF 255.39

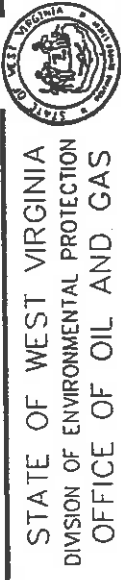
ROYALTY OWNER DAVID DALE BALL, ET AL LEASE ACREAGE 120 LEASE NO. _____

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 ALEXANDER

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

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

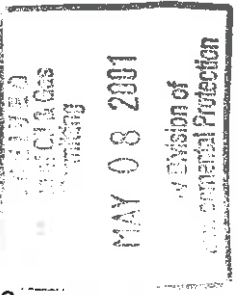
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE OCTOBER 3 20 00
OPERATORS WELL NO. BALL #2
API WELL NO. 47-017-04561 COUNTY PERMIT



COUNTY NAME PERMIT

DODD 4561

6-6-133 NOV 05 2000



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

Handwritten signature

Well Operator's Report of Well Work

Farm name: DAVID BALL & JANICE BALL

Operator Well No. : BALL #2

LOCATION: Elevation: 1027.00

Quadrangle: OXFORD

District: SOUTHWEST
Latitude: 13,910 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude: 3350 Feet West of 80 Deg. 50 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: 10/30/00
Well Work Commenced: 11/29/00
Well Work Completed: 12/04/00

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5217'
Fresh water depths (ft) NONE
Salt water depths (ft) 1337'

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

OPEN FLOW DATA
Warren
Speechley
Balltown
Rileys
Benson
Elk

Producing formation Alexander
Gas: Initial open flow No Show MCF / d
Final open flow 1540 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1750 psig (surface pressure) after 96

Second producing formation Commingled
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 _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	131.45'	131.45'	55 sks To Surface
8 5/8"	1810.70'	1810.70'	405 sks To Surface
4 1/2"	5169'	5169'	450 sks
2 3/8"	4990'	4990'	

3178' - 3220'
3231' - 3340'
3524' - 4135'
4310' - 4690'
4740' - 4748'
4918' - 4950'
4976' - 5060'

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: *Signature*
Date: May 4, 2001
MAY 18 2001
PRESIDENT

DODD 4561

Ball #2 (47-017 - 4561)
Four Stage Foam Frac - BJ Services

1 st Stage:	Alexander (13 holes) (5010.25' to 5054.25') Elk (3 holes) (4932' to 4932.50')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 807 bbls foam.
2 nd Stage:	Benson (7 holes) (4742' to 4743.50') Third Riley (7 holes) (4670.50' to 4672')	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 613 bbls foam.
3 rd Stage:	Riley (13 holes) (4348' to 4363.50')	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:	Balltown (6 holes) (3734' to 3796') Speechley (6 hole) (3247.50' to 3328.75') Warren (3 holes) (3203' to 3203.50')	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	
Fill	10	30	
Shale	30	79	
Sand	79	101	
Red Rock	101	120	
Sand & Shale	120	1052	
Sand	1052	1819	Oil Odor @ 1280'
Little Lime	1819	1824	Damp @ 1337'
Big Lime	1824	1873	
Big Injun	1873	1940	
Sand & Shale	1940	2103	
Weir	2103	2232	
Shale	2232	2296	
Berea	2296	2300	
Shale & Siltstone	2300	2500	
Gordon	2500	2528	
Shale	2528	3178	
Warren	3178	3220	
Shale	3220	3231	
Speechley	3231	3340	
Shale	3340	3524	
Balltown	3524	4135	
Shale	4135	4310	
Riley	4310	4380	
Shale	4380	4650	
Third Riley	4650	4690	
Shale	4690	4740	
Benson	4740	4748	
Shale	4748	4918	
Elk	4918	4950	
Shale	4950	4976	
Alexander	4976	5060	
Sand & Shale	5060	5217	
T.D.	5217		

Gas Checks

2012' - No Show
3128' - No Show
3504' - No Show
4315' - Odor
4690' - No Show
4999' - No Show
5217' - No Show