

KIMBALL LEASE

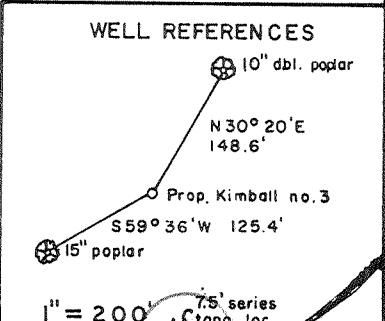
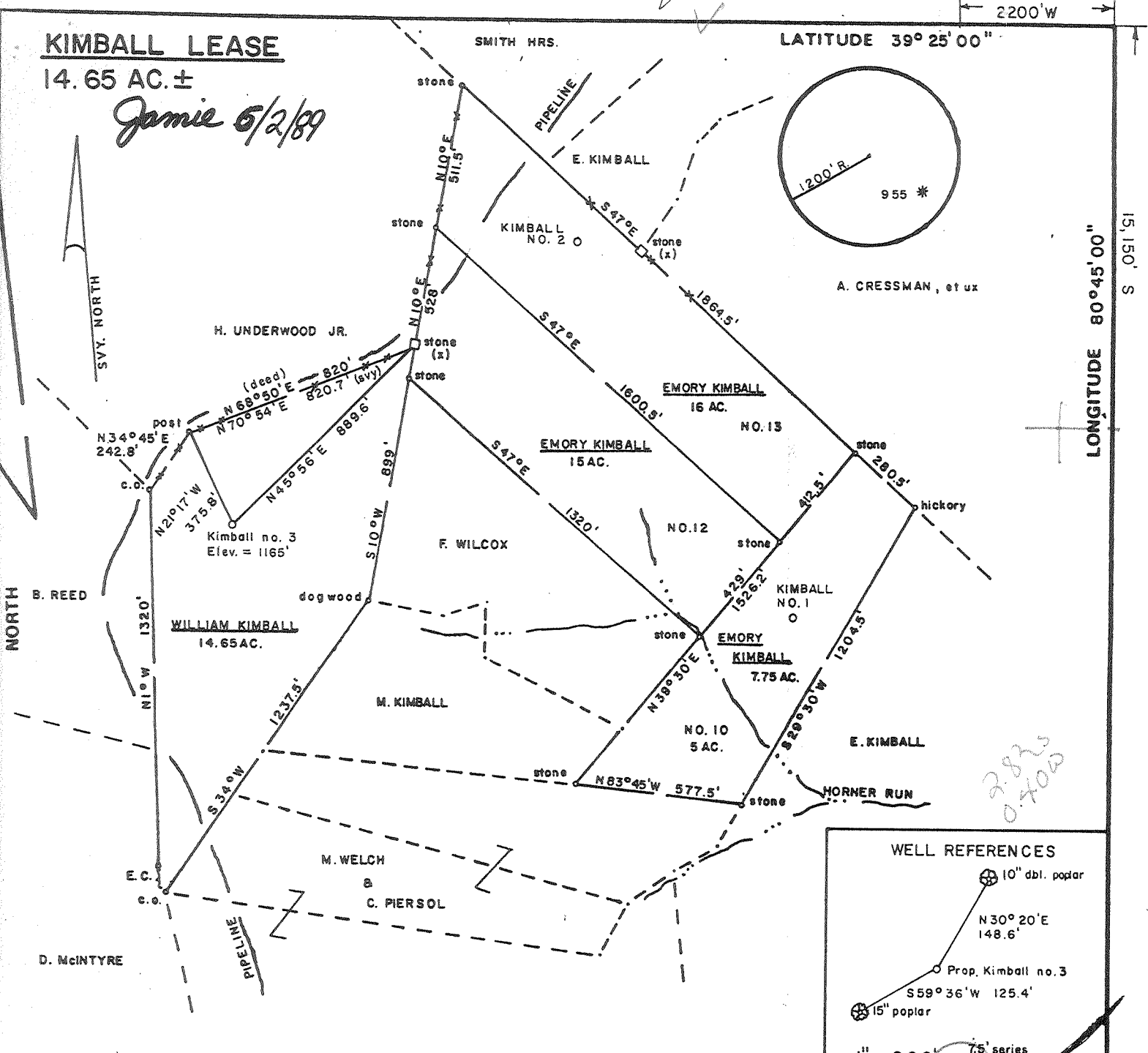
14.65 AC. ±

Jamie 6/2/89

2200' W

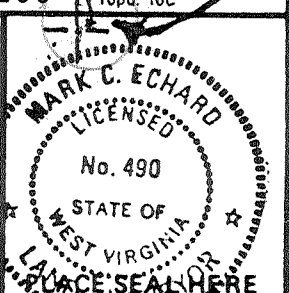
LATITUDE 39° 25' 00"

LONGITUDE 80° 45' 00"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top of Knob Elev. = 1306'
 875' ± SW of Loc.

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 MINES. *Mark C. Echard*
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE APRIL 24, 19 89
 OPERATOR'S WELL NO. KIMBALL NO. 3
 API WELL NO. _____
47 - 017 - 3721
 STATE COUNTY PERMIT

**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION**

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1165' WATER SHED HORNER RUN OF LITTLE FLINT RUN
 DISTRICT GRANT 3 COUNTY DODDRIDGE
 QUADRANGLE SHIRLEY 7.5' 607 1336 WestUnionEC
 SURFACE OWNER WILLIAM & JOYCE KIMBALL ACREAGE 14.65 AC.
 OIL & GAS ROYALTY OWNER EMORY KIMBALL, et al. LEASE ACREAGE 14.65 AC.
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON-RILEY ESTIMATED DEPTH 5500'
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ALMA, W.V. 26320 ADDRESS P.O. BOX 99 ALMA, W.V. 26320

JUN 2 1989

6-6 Swiger (Flint Run) (097)

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: KIMBALL, WILLIAM J. Operator Well No.: KIMBALL #3

LOCATION: Elevation: 1165.00 Quadrangle: SHIRLEY

District: GRANT County: DODDRIDGE
Latitude: 15150 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 2200 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: DRILLING APPALACHIAN CORP
P. O. BOX 99
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD
Permit Issued: 06/02/89
Well work Commenced: JUNE 5, 1989
Well work Completed: JUNE 10, 1989
Verbal Plugging
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) 5420
Fresh water depths (ft) 40, 80

Salt water depths (ft) 2250

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			to
8 5/8	1293	1293	surface
4 1/2		5262	1700 ft 305 sks

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JUL 21 1989 JUN 30 1989
DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation BENSON SANDSTONE Pay zone depth (ft) 5189
Gas: Initial open flow 540W MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 450 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 42 Hours
Static rock Pressure 1225 psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d 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: DRILLING APPALACHIAN CORP.

By: Kenneth R. Mason
Date: 6/27/89

JUL 28 1989

GEOLOGICAL WELL RECORD DATA

PERMIT NUMBER: 47-0174-3721

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	TOP	BOTTOM	
SOIL	0	30	
BROKEN SAND	30	285	
SANDS AND SHALES	285	1205	
DUNKARD SAND	1205	1257	
1ST SALT SAND	1530	1615	
2ND SALT SAND	1642	1769	
3RD SALT SAND	1850	1897	
MAXON	1952	1978	
BIG LIME	2044	2140	
KEENER SAND	2145	2172	
BIG INJUN SAND	2200	2292	SHOW WATER
WEIR	2446	2520	
BEREA CAP	2616		
GANTZ SAND	2640	2660	
GORDON SAND	2858	2900	SHOW GAS
WARREN	3536	3570	
RILEY	4712	4746	
BENSON	5172	5178	SHOW GAS
TOTAL DEPTH	5420		

WELL TREATMENT SCHEDULE

Benson Sand 5198 - 5201 Perforated with 16 holes
Note depths taken from the Cased hole log

Formation Break Down 3600 PSI

Hydraulic frac with Nitrogen assist
Average Treating Rate 20 barrels per min
500 barrels of gel treated water
250 sacks of 20/40 sand
50 sacks of 80/100 sand

Average Treating Pressure 2550 PSI

8907

JUL 28 1989

47-017-3721

Issued 6/2/89 Expires 6/2/91

FORM WW-2B

Page 3 of 5

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION 14425 (3) 606
- 2) Operator's Well Number: ~~47-017~~ Kimball #3 3) Elevation: 1165'
- 4) Well type: (a) Oil / or Gas
 - (b) If Gas: Production / Underground Storage
 - Deep Shallow
- 5) Proposed Target Formation(s): BENSON/RILEY
- 6) Proposed Total Depth: 5300± feet
- 7) Approximate fresh water strata depths: _____
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: _____
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: Drill, stimulate, perforate new formation
- 12) New well

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JUN 01 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4	H-40	42#	30'	0'	None
Fresh Water						
Coal						38CSR18-11.3
Intermediate	8-5/8	J-55	23#	1275'	1275'	38CSR18-11.2.2 CTS Neat
Production	4-1/2	J-55	10½#	5200'	5200'	38CSR18-11.1
Tubing						
Liners						

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PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond Blanket sure Agent

(Type)

8907

4136
174

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JUN 01 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: May 30, 1989
Operator's well number
Kimball #3
API Well No: 47 - 017 - 3721
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>William J. Kimball</u>
Address <u>2002 Mike St.</u>
<u>South Daytona, FL 32019</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>---</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>---</u>
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>---</u>
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Rte 2, Box 135</u>
<u>Salem, WV 26426</u>
Telephone (304)- <u>782-1043</u></p> | |

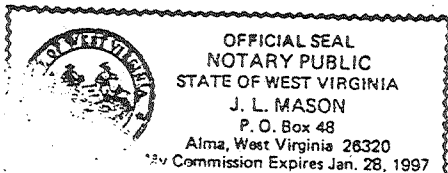
TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 5 on the above named parties, by:
 Personal Service (Affidavit attached)
 Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator DRILLING APPALACHIAN CORPORATION
By: Kenneth R. Mason
Its: President
Address PO Box 99, Alma, WV 26320
Telephone (304) 758-4638

Subscribed and sworn before me this 30th day of May, 19 89

My commission expires 1/28/97

J. L. Mason Notary Public