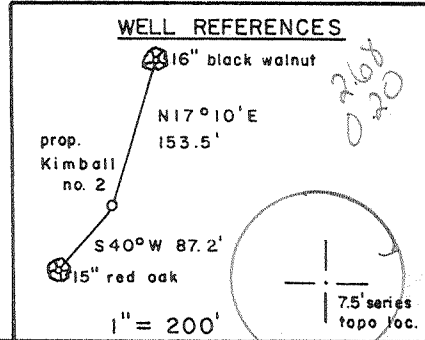
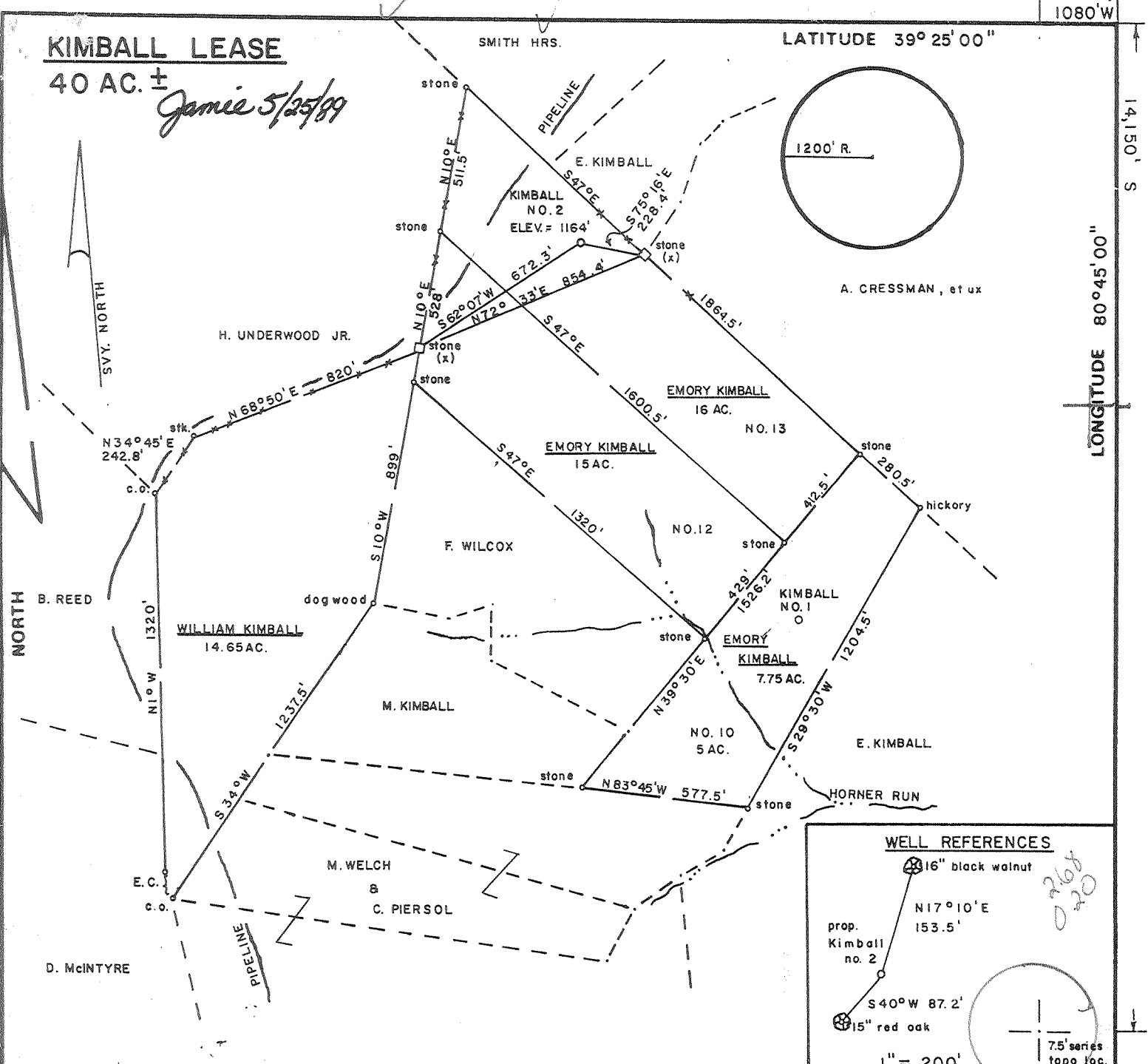


KIMBALL LEASE

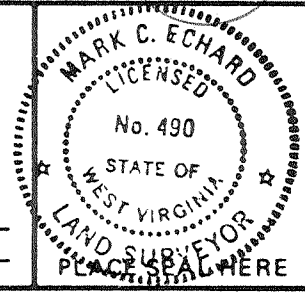
40 AC. ±

Jamie 5/25/89



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top of Knob Elev. = 1306'
2400' ± 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. 2
 API WELL NO. _____
47 - 017 - 3720
 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 1164' WATER SHED HORNER RUN OF LITTLE FLINT RUN
 DISTRICT GRANT 3 COUNTY DODDRIDGE
 QUADRANGLE SHIRLEY 75' 607 1336 West Union CO
 SURFACE OWNER EMORY KIMBALL ACREAGE 16 AC.
 OIL & GAS ROYALTY OWNER EMORY KIMBALL LEASE ACREAGE 16 AC. of 40 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 99 290 ADDRESS P.O. BOX 99
ALMA, W.V. 26320 ALMA, W.V. 26320

MAY 26 1989

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

API # 47- 17-03720

Well Operator's Report of Well Work

Farm name: KIMBALL, EMORY Operator Well No.: KIMBALL 2

LOCATION: Elevation: 1164.00 Quadrangle: SHIRLEY

District: GRANT County: DODDRIDGE
Latitude: 14150 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 1080 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: 05/25/89
Well work Commenced: MAY 30, 1989
Well work Completed: JUNE 4, 1989
Verbal Plugging
Permission granted on: _____
Rotary XX Cable _____ Rig _____
Total Depth (feet) 5319
Fresh water depths (ft) 40,80

Salt water depths (ft) NONE

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	1248'	1248'	to surface
4 1/2		5288	350 sacks

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JUN 26 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation BENSON SAND Pay zone depth (ft) 5184-90
Gas: Initial open flow NA MCF/d Oil: Initial open flow NA Bbl/d
Final open flow 544 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 30 Hours
Static rock Pressure 1550 psig (surface pressure) after 72 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: 6/22/89

JUN 30 1989

GEOLOGICAL WELL RECORD DATA

PERMIT NUMBER: 47-0174-3720

	TOP	BOTTOM
SOIL	0	25
BROKEN SAND	25	275
SANDS AND SHALES	275	1185
DUNKARD SAND	1185	1227
1ST SALT SAND	1526	1604
2ND SALT SAND	1648	1769
3RD SALT SAND	1835	1887
MAXON	1938	1968
BIG LIME	2090	2142
KEENER SAND	2147	2194
BIG INJUN SAND	2200	2294
WEIR	2442	2521
BEREA CAP	2607	
GANTZ SAND	2646	2665
GORDON SAND	2868	2904
WARREN	3520	3560
RILEY	4710	4745
BENSON	5184	5190
TOTAL DEPTH	5342	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

SHOW GAS

SHOW GAS

SHOW GAS

SHOW GAS

WELL TREATMENT SCHEDULE

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

Formation Break Down 2560 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 2700 PSI

L 188

47-017-3720
Issued 5/25/89 Expires 5/25/91

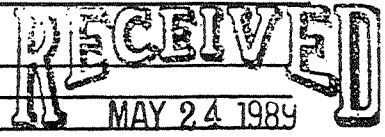
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION ³¹¹ 14425 3 606
- 2) Operator's Well Number: 47-017- Kimball #2 3) Elevation: 1164'
- 4) Well type: (a) Oil X/ or Gas X/
(b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): 455 Benson/Riley
- 6) Proposed Total Depth: 5,300± feet
- 7) Approximate fresh water strata depths: 250, 150, 100'
- 8) Approximate salt water depths: 1,300'-1400'
- 9) Approximate coal seam depths: Blosson possible @ 180'
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Drill, perforate, stimulate new formation
- 12)

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#	5300'	5,300'	38CSR18-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____



4720
 For Division of Oil and Gas Use Only
 DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent
 (Type)

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MAY 24 1989

Page 1 of 5
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: April 20, 1989
2) Operator's well number
KIMBALL #2
3) API Well No: 47 - 017 - 3720
State - County - Permit

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

4) Surface Owner(s) to be served:
(a) Name Emory Kimball
Address HCR 74, Box 90
Alma, WV 26320
(b) Name ---
Address ---
(c) Name ---
Address ---
6) Inspector Mike Underwood
Address Rte 2, Box 135
Salem, WV 26426
Telephone (304)- 782-1043

5) (a) Coal Operator:
Name ---
Address ---
(b) Coal Owner(s) with Declaration
Name ---
Address ---
Name ---
Address ---
(c) Coal Lessee with Declaration
Name ---
Address ---

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 ___ 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 F. Mason
Its: President
Address P. O. Box 99
Alma, WV 26320
Telephone (304) 758-4638

Subscribed and sworn before me this
NOTARY PUBLIC
STATE OF WEST VIRGINIA
L. L. MASON
My Commission Expires Jan. 28, 1997

before me this 20th day of April, 19 89

L. L. Mason Notary Public