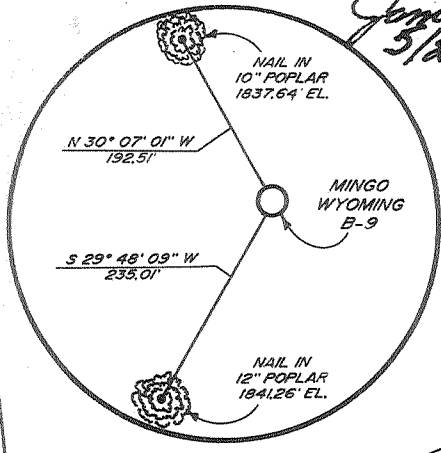


9,550

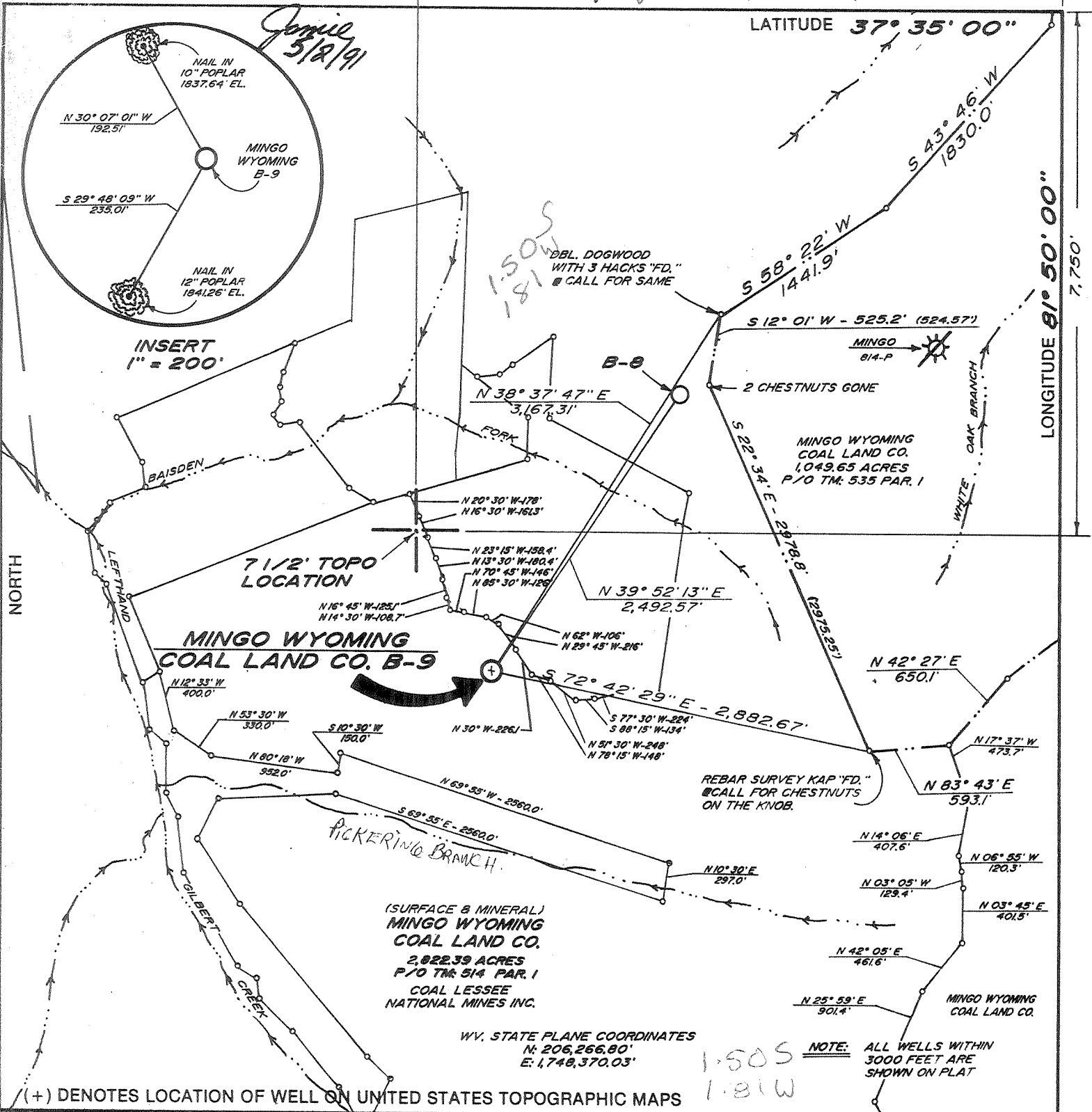
LATITUDE 37° 35' 00"

LONGITUDE 81° 50' 00"

Jan 12 5/12/91



INSERT 1" = 200'



(SURFACE & MINERAL)
MINGO WYOMING COAL LAND CO.
 2,822.39 ACRES
 P/O TR. 514 PAR. 1
 COAL LESSEE
 NATIONAL MINES INC.

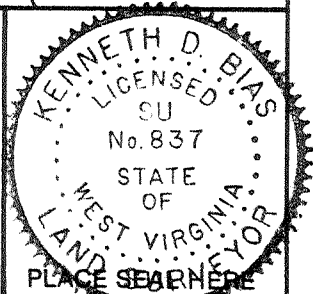
WV. STATE PLANE COORDINATES
 N: 206,266.80'
 E: 1,748,370.03'

NOTE: ALL WELLS WITHIN 3000 FEET ARE SHOWN ON PLAT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1: 2500
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM 91 RHP
 ELEV. 1215'

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.
 (SIGNED) Kenneth D. Bias
 R.P.E. _____ L.L.S. 837-SU



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE MARCH 13, 1991
 OPERATOR'S WELL NO. MINGO WYOMING COAL
 API WELL NO. LAND CO. B-9
47 - 059 - 1153
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1835.01' WATERSHED GILBERT CREEK OF GUYANDOTTE RIVER
 DISTRICT STAFFORD 6 COUNTY MINGO
 QUADRANGLE GILBERT 415 50
 SURFACE OWNER MINGO WYOMING COAL LAND CO. ACREAGE 2822.39
 OIL & GAS ROYALTY OWNER MINGO WYOMING COAL LAND CO. LEASE ACREAGE _____
 LEASE NO. 080564
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 6260'
 WELL OPERATOR ASHLAND EXPLORATION INC. 43 DESIGNATED AGENT FORREST BURKETT
 ADDRESS P.O. BOX 391 ASHLAND, KY. 41114 ADDRESS P.O. BOX 379 BRENTON, WV 24818

MAY 10 1991

DEEP WELL 6-6 Gilbert (271)

COUNTY NAME PERMIT

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

Reviewed TMG
Recorded _____

Well Operator's Report of Well Work

Farm name: MINGO-WYOMING COAL LAND Operator Well No.: B-9-S-134621
LOCATION: Elevation: 1835.01 Quadrangle: GILBERT
District: STAFFORD County: MINGO
Latitude: 7750 Feet South of 37 Deg. 35Min. 0 Sec.
Longitude 9550 Feet West of 81 Deg. 50 Min. 0 Sec.

Company: ASHLAND EXPLORATION, INC.
P.O. BOX 391, A1-6
ASHLAND, KY 41114-0391

Agent: FORREST BURKETT

Inspector: TIM BENNETT
Permit Issued: 05/06/91
Well work Commenced: 7-23-91
Well work Completed: 9-29-91
Verbal Plugging _____
Permission granted on: _____
Rotary x Cable _____ Rig _____
Total Depth (feet) 6248
Fresh water depths (ft) approx. 785'
Salt water depths (ft) approx. 1345'
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): open mine 154-160

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	35'	35'	8.26
11 3/4"	285'	285'	306
8 5/8"	2183'	2183'	784
5 1/2"	6232'	6232'	692
2 3/8" @ 6082' KB w/ pkr @ 3655' KB			

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4271-6173
 Gas: Initial open flow 0/130 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1806/1402 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 605# psig (surface pressure) after 72 Hours

Second producing formation Big Lime Pay zone depth (ft) 3561-3592
 Gas: Initial open flow 230 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 657 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static rock Pressure 815# psig (surface pressure) after 72 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: ASHLAND EXPLORATION, INC.

By: James L. Stephens James L. Stephens, Engr. Tech
Date: October 8, 1991

NOV 1 - 1991

<u>Formation or Rock Type:</u>	<u>TOP</u>	<u>BASE</u>
Breathitt Formation	0	921
Lee Formation	921	2189
Pennington Formation	2189	3170
Ravenscliff 2430-2448		
U. Maxton 2551-2664		
M. Maxton 2807-2962		
L. Maxton 3114-3147		
Little Lime	3170	3279
Big Lime	3279	3603
Borden Formation	3603	4168
Sunbury Shale	4168	4198
Berea	4198	4226
Devonian Shale	4226	6230
Onondaga LS	6230	TD
DTD 6248		
LTD 6247		

Well Treatment:

Perf Rhinestreet 17H/5916-6173. N₂ frac using 500 gal 7 1.2% inh fe acid, 796,000 SCF N₂ @ 75,000 SCF/min. BD 3669#, ATP 3700#, MTP 3900#, ISIP 2681.

Perf L. Huron 20H/4922-5279. N₂ frac using 500 gal 7 1/2% inh fe acid, 792,000 SCF N₂ @ 74,000 SCF/min. BD @ 3850#, ATP 3850#, MTP 3900#, ISIP 1809#.

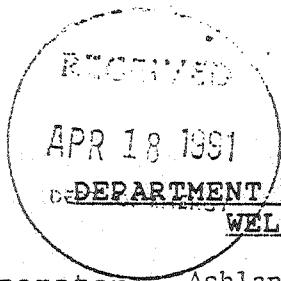
Perf U. Huron 20H/4922-5279. N₂ frac using 500 gal 7 1/2% inh fe acid, 799,000 SCF/N₂ @ 96,000 SCF/min. BD @ 3354#, MTP 3537#, ATP 3222#, ISIP 1560#.

Perf Chagrin 19H/4271-4640. N₂ frac 500 gal 7 1.2% inh fe acid w/ frac ball, 810,000 SCF N₂ @ 98,000 SCF/min. BD @ 2550#, MTP 3805#, ATP 2925#, ISIP 2450#. 15 min 1035.

Perf Big Lime 15H/3561-3592. Foam acidize 500 gal 17% fe inh, 4,000 gal 26 1/2% fe inh acid w/ 120,000 SCF/N₂ @ 500 SCF/min w/ 10 perf balls. BD @ 2300#, MTP 1100#, ATP 1100# @ 7.5 BPM acid, ISIP 1220# and 15 min 1090# and TF 105.

4/12/1

059-1153
Issued 5/6/91



FORM WW-2B

Page 1 of 1

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

Express 5/6/93

- 1) Well Operator: ⁴³ Ashland Explorat-on, Inc. 2750 (6) 363
Mingo-Wyoming Coal Land Co.
- 2) Operator's Well Number: B-9, Serial #134621 3) Elevation: 1835.01
- 4) Well type: (a) Oil ___/ or Gas X/
(b) If Gas: Production X/ Underground Storage ___/
Deep ___/ Shallow X/
- 5) Proposed Target Formation(s): ⁴⁴¹ Devonian Shale
- 6) Proposed Total Depth: 6260'KB feet
- 7) Approximate fresh water strata depths: 785'KB (Map WV-12)
- 8) Approximate salt water depths: 1345'KB (Map WV-12)
- 9) Approximate coal seam depths: Pond Creek Seam-Elev. 1628'-Mined Out (Pillared) Possibly
- 10) Does land contain coal seams tributary to active mine? Yes ___/ No X/
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

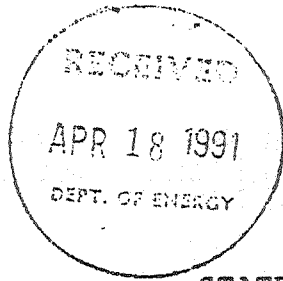
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16	LS	42.0	30	30	CTS
Fresh Water						38 CTS 11.3
Coal	11 3/4	H40	42.0	267	267	38 CTS 11.2
Intermediate	8 5/8	J55	24.0	2205	2205	CTS
Production	5 1/2	J55	15.5	6260	6260	As Needed
Tubing	1.9	J55	2.76	-	6210	Siphon
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

506185
12

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Surety Check Agent
(Type)



- 1) Date: April 17, 1991
- 2) Operator's well number Mingo-Wyoming Coal Land Co. #B-9, S.N. 13460
- 3) API Well No: 47 - 059 - 1153
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 Mingo-Wyoming Coal Land Co.
Address 945 4th Ave., Suite 300
Huntington, WV 25701
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name N/A
Address _____
 - (b) Coal Owner(s) with Declaration
Name Same as No. 4(a)
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name National Mines, Inc.
Address P.O. Box 960
Pineville, WV 24874
- 6) Inspector Tim Bennett
Address Route 2 Box 61-B
Chapmanville, WV 25508
Telephone (304)- 855-7705

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 2 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- X 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 Ashland Exploration, Inc.
 By: W. Mark Parks *W. Mark Parks* **DKC**
 Its: Operations Manager
 Address P.O. Box 391
Ashland, KY 41114
 Telephone 606-329-5989

Subscribed and sworn before me this 17th day of April, 1991

Tim W. Santa Notary Public
 My commission expires November 23, 1994

Schlumberger

DIP INDUCTION / GAMMA RAY

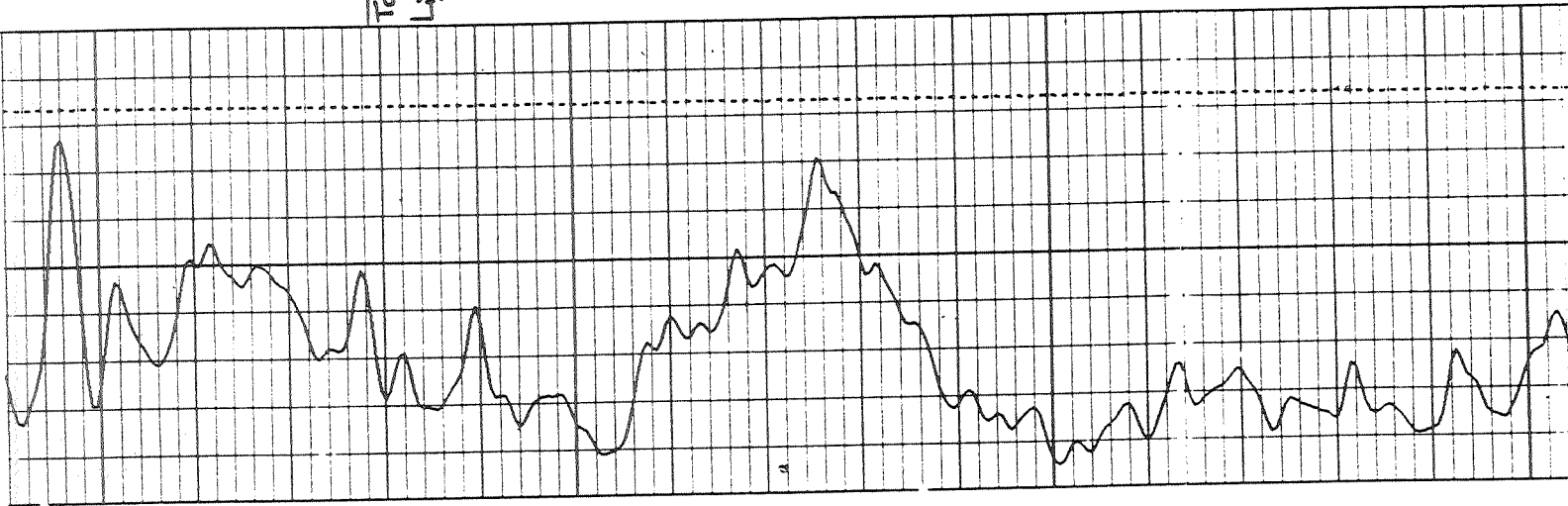
COUNTY MINGO	STAFFORD DISTRICT	7,780' SOUTH OF	MINGO WYOMING COAL LAND # B-9	ASHLAND EXPLORATION, INC.	COMPANY		ASHLAND EXPLORATION, INC.	
					WELL		MINGO WYOMING COAL LAND # B-9	
FIELD	LOCATION	WELL	COMPANY	FIELD		STAFFORD DISTRICT		
				COUNTY		MINGO STATE WEST VIRGINIA		
LOCATION		7,750' SOUTH OF		37° 50' 00"		Other Services: TEMP LDT DIL GR		
LOCATION		9,550' WEST OF		81° 50' 00"				
API SERIAL NO.		SECT.	TWP.	RANGE				
47 - 059 - 1153		-	-	-				
Permanent Datum		GROUND LEVEL	Elev.	1835.0 F		Elev.: K.B.1845.0 F		
Log Measured From		KELLY BUSHING	10.0 F	above Perm. Datum		D.F.1844.0 F		
Drilling Measured From		KELLY BUSHING				G.L.1835.0 F		
Date		03-AUG-1991						
Run No.		ONE						
Depth Driller		6249.0 F						
Depth Logger (SchL)		6247.0 F						
Btm. Log Interval		6240.0 F						
Top Log Interval		2188.0 F						
Casing-Driller		8 5/8"	@2183.0 F		@		@	
Casing-Logger		2188.0 F						
Bit Size		7 7/8"						
Type Fluid in Hole		AIR / GAS						
Dens.	Visc.	0.0 LB/G						
pH	Fid. Loss							
Source of Sample								
Rm @ Meas. Temp.			@				@	
Rmf @ Meas. Temp.			@				@	
Rmc @ Meas. Temp.			@				@	
Source: Rmf Rmc								
Rm @ BHT			@	119. DEGF			@	
TIME	Circulation Ended		10:45 AUG 3					
	Logger on Bottom		18:30 AUG 3					
Max. Rec. Temp.		119. DEGF						
Equip.	Location	8291	PAINTSVILLE, KY					
Recorded By		WICHMANN						
Witnessed By		TOM WHITE						



Top of Dig
Line 3279

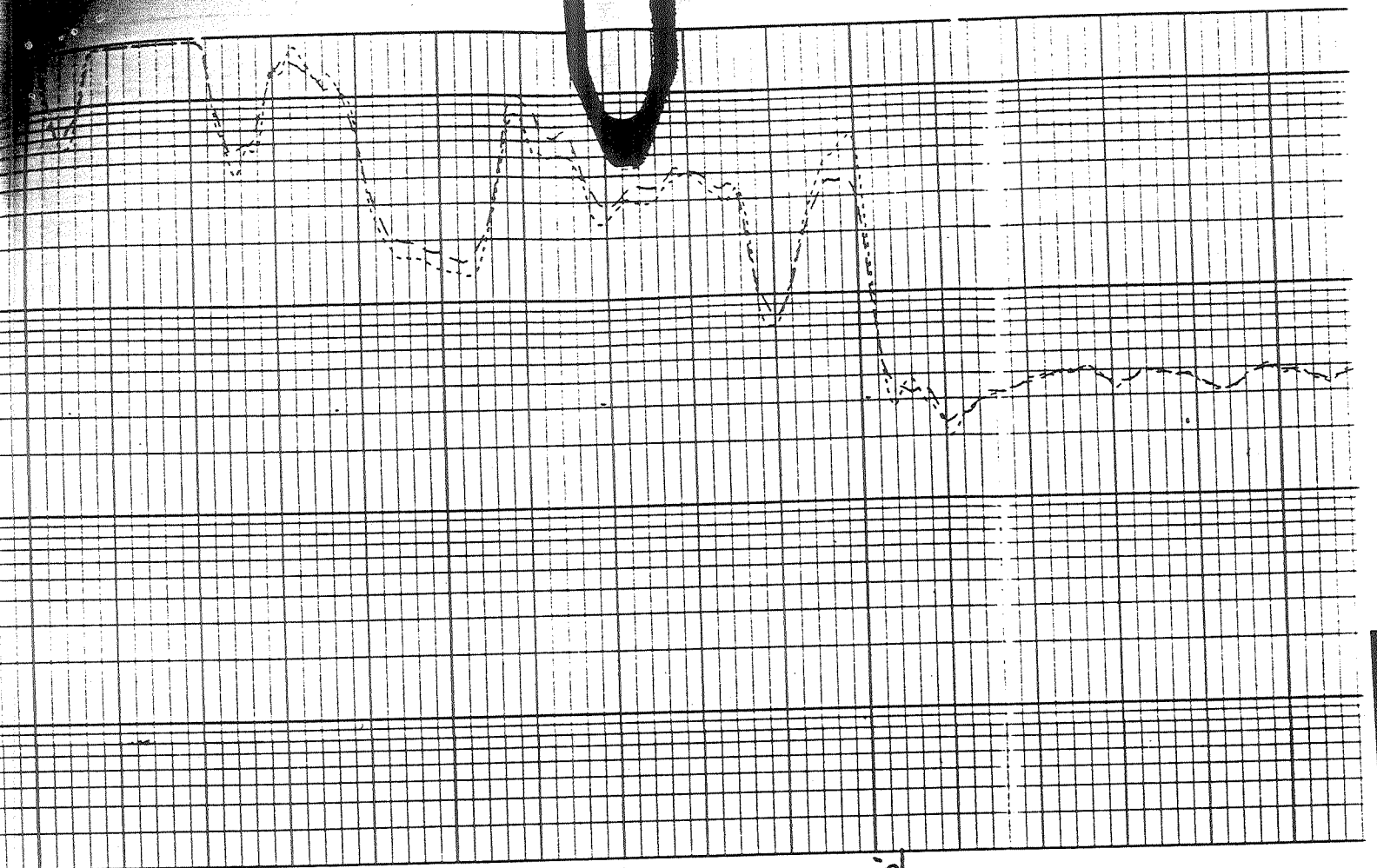
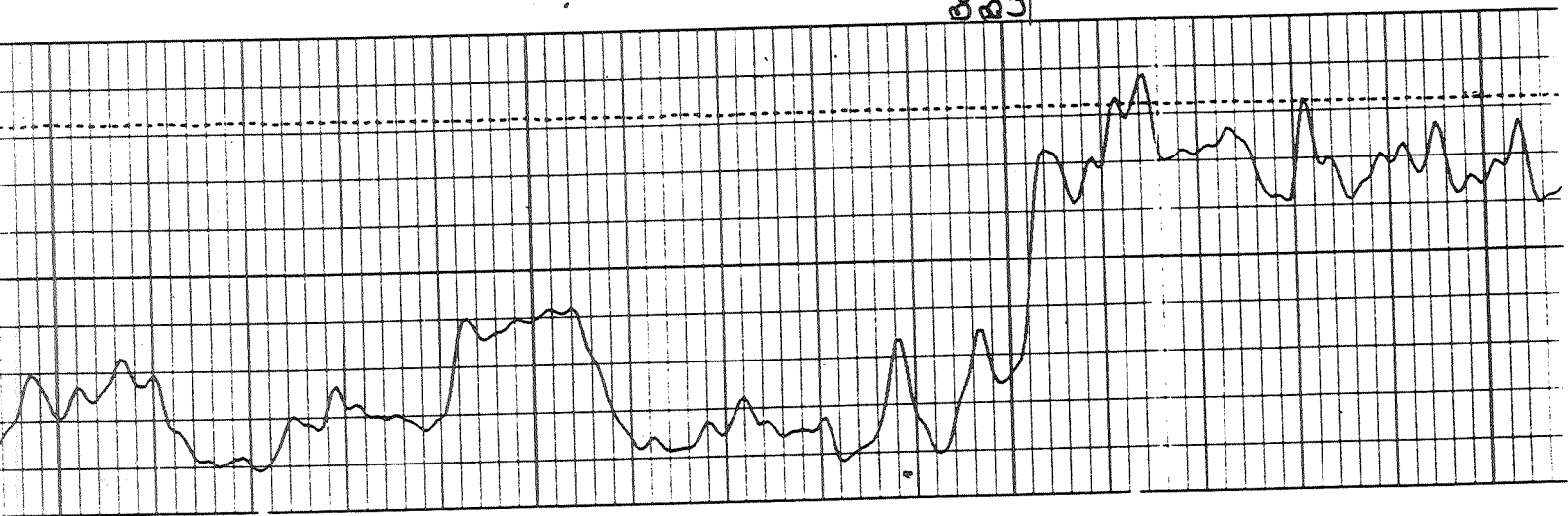
3300

3400



3500

Base of
Biq. 3600,
Line 3600





4000

4100

