

PATTERSON-6-11

API No. 45-027-20330-00-03 VDMR Well Rep. No. _____
DMQ File No. BU-180

Operator ASHLAND EXPLORATION INCORPORATED

Farm CLINCHFIELD-KROLL UNIT

Co. Well No. #1 (088151)

County BUCHANAN Quadrangle PATTERSON - 7-1/2'

Location (UTM) N 4,129,800; E 419,650 UTM Zone 17

(Lat. and Long.) _____

Field _____ Province APPALACHIAN PLATEAUS

Elev. (specify) 2121' GR. TD 5122' Form. at TD DEVONIAN SHALE

INITIAL FLOW - 121,000 CU. FT. Age DEVONIAN

Date compl. or abandoned OCTOBER 22, 1979

Result GAS WELL

Gas Shows _____

Gas Pays 5038' to 5050'

Main Production _____ Prod. Form. BEREA, UPPER MAXON

Age MISSISSIPPIAN

Treatment: BEREA FORMATION WAS FRACTURED WITH GEL, 45,000 POUNDS OF 80/100

SAND, 45,000 POUNDS OF 20/40 SAND, AND 525 BARRELS OF SAND LADEN FLUID.

BEREA FORMATION IS FROM 5002' to 5062'.

Initial Production _____

FINAL FLOW - 2,479,000 CU. FT.

Oil shows _____

Water FW _____ at _____ at _____ at _____

SW _____ at _____ at _____ at _____

Coal 408' to 414'; 619' to 623'; 1167' to 1171'

Plat X Plotted X Completion Report X

Drillers Log X Geologic Log _____

Samples _____ Interval Sheet _____

Sample Interval _____

Remarks _____

Geophysical Logs S.P. _____ Res _____ Gamma _____ Neutron _____

Density _____ Sonic _____ Other _____

Commonwealth of Virginia
Department of Conservation and Development
VIRGINIA GEOLOGICAL SURVEY
Box 1428, University Station, Charlottesville, Va.

Well No. 1 - (Unit)

Co. No. 088151

Office No. _____

Buchanan
County
Grundy
District
Map

XXXXXXXXXXXX
NOTICE OF ~~DEEPEMED~~ PROPOSED OIL OR GAS WELL

(This report must be submitted within 30 days after commencing well.)

To: The Virginia Geological Survey
Box 1428, University Station
Charlottesville, Va.

Date Sept. 10, 1979

Gentlemen:

The undersigned ~~will~~ ^{will} begin on or about Sept. 28 1979, the ~~completion~~ ^{drilling} of a well for oil or gas on the Clinchfield Coal Corp. etal Farm, comprising 3771 Acres, in the Grundy District of Buchanan county, Virginia, having the fee title thereto, (or as the case may be) under grant or lease dated January 10, 1955, made by Clinchfield Coal Corp. etal to United Prod. Co., Inc. and recorded on the 22nd day of January 1955, in the office of the County Clerk for said County in Book 124, page 362

The well is 7,300 ^{feet} ~~xxx~~ ^{miles} South of 37°-20'-00" and 9,220 ^{feet} ~~xxx~~ West of 81°-52'-30"

(Give direction and distance in feet or tenths of a mile from two (2) location reference points or map coordinates shown on quadrangle topographic map or, where such map is not available, give direction and distance from two (2) known reference points on County Highway map.)

It is proposed to drill this well to a depth of about 5030 feet. Samples or cuttings therefrom ~~will~~ ^{will} be available for examination by a member of the Survey staff. Cuttings ~~will not~~ ^{will} be furnished the Survey upon request, if sacks for same are supplied by the Survey.

The undersigned is informed regarding laws of the Commonwealth of Virginia requiring the plugging or sealing of all dry or abandoned oil and gas wells in which oil or gas bearing stratum has been found, and in which workable coal beds have or have not been penetrated, or from which oil or gas has escaped or been wasted, in the manner prescribed in Chapters 112 and 411 of the Code of Virginia [1948]. He is also informed in regard to the provisions of Chapter 508 of the said Code, requiring notices and reports of wells drilled to be submitted to the Virginia Geological Survey Division of the Department of Conservation and Development within thirty (30) days after the beginning and completion (or abandonment) of any oil or gas well, and the supplying to the said Survey of such other technical or geological data as it may request from time to time.

Please send me Oil and Gas Well Completion Report (Form OG-2) and (if wanted) Drillers Report Book (Form WR-1) for use in reporting the completion of this well.

Very truly yours

ASHLAND EXPLORATION, INC.
Drilling Company or Operator
Box 391
Street
Ashland
City or Town
Kentucky 41101
State

This notice sent to drilling company or operator on _____ date

Received in offices of Virginia Geological Survey (returned) on _____ date

Commonwealth of Virginia
DEPARTMENT OF LABOR AND INDUSTRY
Division of Mines
Big Stone Gap, Virginia

~~REDRILL~~
NOTICE OF INTENTION TO DRILL OIL OR GAS WELL
~~DEEPEN~~

(One copy of this report and three identical copies of a plat or map, on a scale not smaller than 400 feet to the inch, and showing information required by Section 45-114, Code of Virginia, 1950, must be submitted to the Division of Mines, and copies sent by registered mail to all persons defined in above law, prior to obtaining a permit to drill.)

TO: DIVISION OF MINES
BIG STONE GAP, VIRGINIA

Ashland, Kentucky
Place

September 10, 19 79
Date

Gentlemen:

The undersigned proposes to begin as soon as a permit therefor is obtained from the Division of Mines, to drill, ~~XXXXX XXXXXXXX~~ (strike out two) a well for oil or gas on the Clinchfield Coal Corp. Farm, comprising 3771 acres, in the Grundy District of Buchanan County, Virginia, having the fee title thereto, or as the case may be, under grant or lease dated January 10, 1955, made by Clinchfield Coal Corp. to United Producing Co., Inc. and recorded on the 22nd day of January, 19 55 in the office of the County Clerk for said County in Book 124, page 362.

The proposed location of the well, as shown on the attached plat or map, is about 7,300 feet ~~XXXX~~ South of 37°-20'-00" and about 9,220 feet ~~XXXXXX~~ West of 81°-52'-30".

It is proposed to drill this well to a depth of about 5030 feet. Samples or cuttings therefrom ~~XXXXXXXX~~ will be available for examination by a member of the staff of the Virginia Geological Survey. Cuttings ~~will~~ will be furnished the Survey, if requested.

A plat or map, in triplicate, on a scale not smaller than 400 feet to the inch, showing the proposed location of the well and other information, required in Section 45-114, Code of Virginia, 1950, is attached hereto. Copies of the plat and notice of intention to drill, redrill or deepen the aforementioned well have been sent to all interested persons as required by Section 45-114, above cited, as follows (List names and mail address of each. Use back of sheet if additional space is required):

- Clinchfield Coal Corporation, Lebanon, Va. 24266
- Georgia Pacific Corporation, Box 909, Augusta, Ga. 30903
- Cabot Corporation Box 628, Charleston, WV 25322
- Samuel C. Bowen, 1940 Virginia Heights Drive, Bluefield, W. Va. 24701
-
-

Very truly yours,

Signature of officer or certifying party:

John H. Eastell
Name
Regional Civil Engineer
Title

ASHLAND EXPLORATION, INC.
Drilling Company or Operator
Box 391
Street Address
Ashland, Ky. 41101
City or Town, and State

File BU-180 Date Received 9-13-79 Well No. 088151

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF LABOR AND INDUSTRY
DIVISION OF MINES
Big Stone Gap, Virginia

XXXXXXXXXX
APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL
XXXXXXXXXX

(Required by Section 45-115, Code of Virginia, 1950. To be accompanied by Permit fee of twenty-five dollars and bond and surety therefor, as specified by Section cited. To be submitted in duplicate, one copy to be returned to applicant after action by Division of Mines.)

TO: Department of Labor and Industry
Division of Mines
Big Stone Gap, Virginia

Ashland, Kentucky

Place

September 10, 1979

Date

Gentlemen:

The undersigned hereby makes application for a Permit to drill, ~~XXXX~~ or ~~XXXXX~~ (strike out two) a well for oil or gas on the Clinchfield Coal Corp., etal farm, comprising 3771 acres, in the Grundy District of Buchanan County, Virginia, having the fee title thereto, or as the case may be, under grant or lease dated Jan. 10, 19 55 made by Clinchfield Coal Corp. etal to United Producing Co., Inc.

and recorded on the 22nd day of January, 19 55 in the office of the County Clerk for the said County in Book 124 page 362.

The proposed location of the well is shown on a location plat or map submitted to the Division of Mines, by the undersigned, together with Notice of Intention to Drill, Redrill or Deepen a Well for Oil or Gas (Form 2) on the 28th day of September, 19 79.

The proposed well will be known as Well No. 1 of Clinchfield-Kroll Unit (company, etc.) It is proposed to drill this well to a depth of about 5030 feet.

The proposed location is about 840 feet distant from the nearest property or lease line; about several miles distant from the nearest mine opening, or quarry (strike out words not applicable); and/or about 2,900 feet distant from the nearest drilling, abandoned, producing, or applied for (strike out words not applicable) oil or gas (strike out words not applicable) well.

There is enclosed herewith a certified check or U. S. Postal Money Order, in the amount of twenty-five dollars (\$25.00), payable to the Treasurer of Virginia, covering fee for a Permit to Drill a Well for Oil or Gas, as required by Section 45-115, Code of Virginia, 1950.

Bond and surety therefor to insure compliance with the provisions of Chapter 8, Title 45, Code of Virginia, 1950, for this well, in the amount of \$ 400.00 is submitted herewith of (give status of) Rider to blanket bond #MNR 891744-119-VA issued May 31, 1977

Correspondence regarding this well should be addressed to John H. Burtnett, Regional Civil Engineer, Ashland Exploration, Inc., Box 391, Ashland, Ky. 41101

Very truly yours,

ASHLAND EXPLORATION, INC.

Drilling Company or Operator

Box 391

Street

Ashland

City or Town

Kentucky 41101

State

Signature of officer or certifying party: John H. Burtnett
Name
John H. Burtnett, Regional Civil Engineer
Title

Space below this line is for the use of the Board only.

ACTION OF DIVISION OF MINES

Received on 9-13-, 1979

Approved and Permit (No. 330) granted on 9-28-, 1979

Denied _____

Reasons for denial _____

DIVISION OF MINES

By W. M. Kelly

State Oil & Gas Inspector

Title

File No: BU-180 Well No. 088151 Permit No. 330

THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON.

DM Form 7

(To be filled in by Division of Mines)

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF LABOR AND INDUSTRY

(To be filled in by Division of Mines)

BUCHANAN County

GRUNDY District

DIVISION OF MINES

BIG STONE GAP, VIRGINIA

Well No. #1 Sr. # 088151

Permit No. 330

DEEPEMED OIL AND GAS WELL COMPLETION REPORT ABANDONMENT

County Code 027

Well Classification Development

(This report and a copy of electrical log, if made, must be submitted to the Division of Mines within 30 days after abandonment or completion of well, as required by Section 45-113, Code of Virginia, 1950.)

Company Ashland Exploration, Inc.

Address P. O. Box 391 Ashland, Kentucky 41101

Farm Clinchfield-Kroll Unit

Acres 242

County Buchanan

District Grundy

Well No. (Company) 1

Elevation (ground surface) 2121 ft.

Location: (Give direction and distance in feet from two (2) map coordinates (Latitude and Longitude) shown on location plat or map previously filed with the Division of Mines or shown on quadrangle topographic map of area.)

7300 feet South of 37° 20' and

2900 feet East of 81° 55'

Surface of tract is owned in fee simple by Georgia Pacific Corp.

Address Box 909 Augusta, Ga. 30903

Mineral rights are owned by Pittston Co., Georgia Pacific Corp., Samuel C. Bowen, Jr.

Address

Location made by R. H. Whipkey Co.

Drilling commenced 10/12/79 Drilling contractor R. H. Whipkey Co.

Drilling completed 10/22/79 Address P. O. Box 478, Parkersburg, WV

Well completed as gas well on Clinchfield-Kroll Unit #1

Well abandoned at feet on : Reason

Well plugged on 19 Affidavit filed 19

Total depth 5122' LTD feet. Steel line measurement feet.

Commenced producing on 19

Oil Well Initial production, NA Barrels per day.

Stimulation Record

Breakdown Pressure psi; Average Injection Pressure psi;

Average Injection Rate BPM; Instant Shut-in Pressure psi;

Min. Shut-in Pressure psi;

Final Production Barrels per day.

Gravity and grade of oil

Oil pays at (1) feet to feet. Oil shows at (1) feet to feet.

(2) feet to feet. (2) feet to feet.

(3) feet to feet. (3) feet to feet.

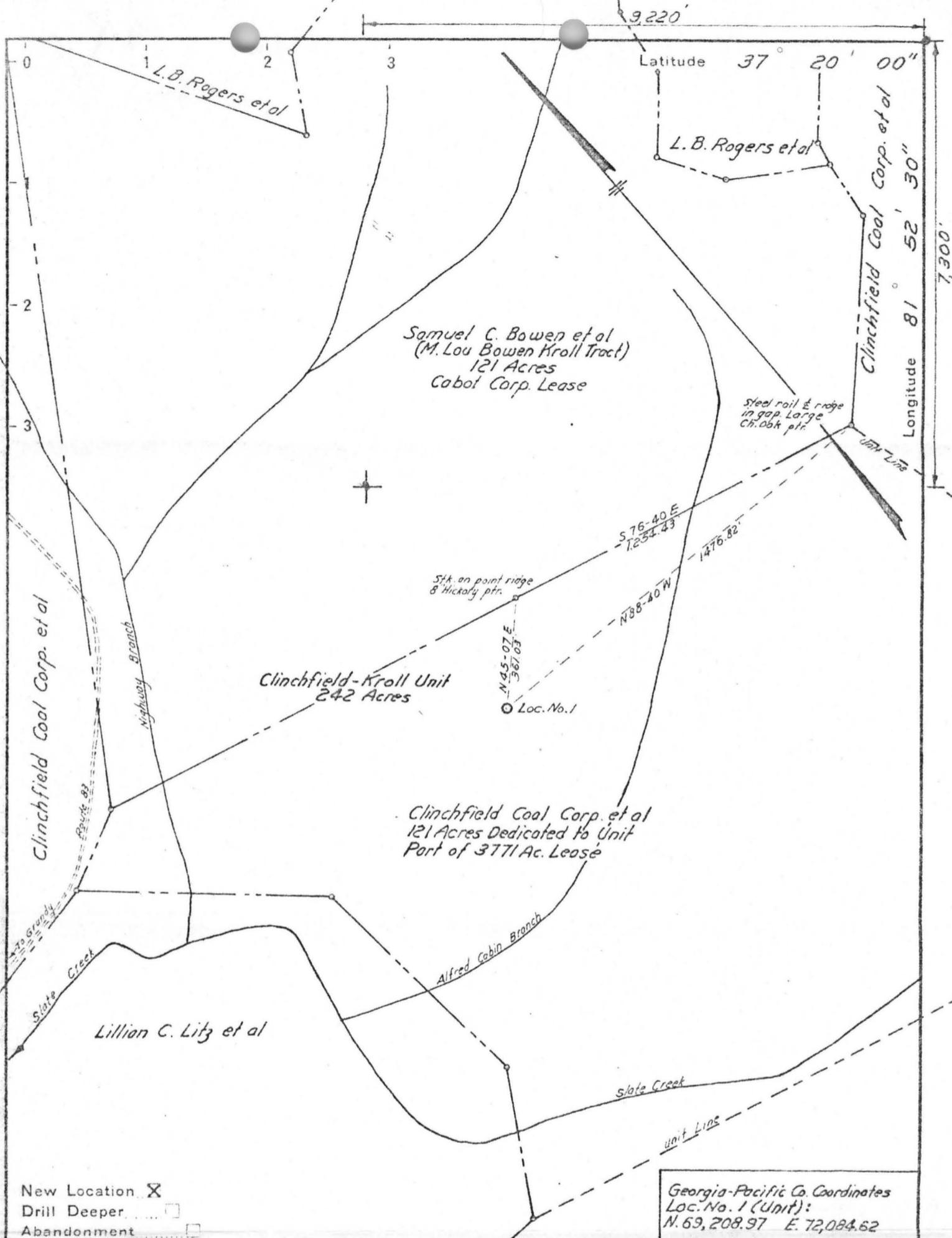
(4) feet to feet. (4) feet to feet.

Main production at (5) feet to feet.

LOG

Furnished by Ashland Exp. Co. Date _____Compiled by L. D. Preston Date _____

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	TOP (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS WATER DEPTHS SHUT DOWN. FISHING, ETC.
	Sd & Shale			0	227		
	Sand			227	263		
	Shale			263	420		
	Sand			420	486		
	Shale			486	516		
	Sand			516	614		
	Shale & Sand			614	937		
	Sand			937	1013		
	Shale			1013	1080		
	Sand & Shale			1080	1304		
	Shale			1304	1352		
	Sand			1352	1584		
	Sh & Sand			1584	1722		
	Salt Sand			1722	2273		
	Sh & Sand			2273	2430		
	Sand			2430	2510		
	Sh & Sand			2510	2794		
	Avis Lime			2794	2807		
	Sh & Sand			2807	3106		
	Upper Maxton			3106	3196		
	Sh w/sd streaks			3196	3352		
	M. Maxton			3352	3419		
	Sh and Sand			3419	3590		
	L. Maxton			3590	3642		
	Shale			3642	3712		
	Little Lime			3712	3788		
	Pencil Cave			3788	3845		
	Big Lime			3845	4370		
	Shale			4370	4458		
	Weir			4458	4666		
	Shale			4666	4981		
	Coffee Shale			4981	5002		
	Berea			5002	5062		
	Devonian Sh			5062	5122		
	DID 5107						
	LTD 5122						



New Location
 Drill Deeper
 Abandonment

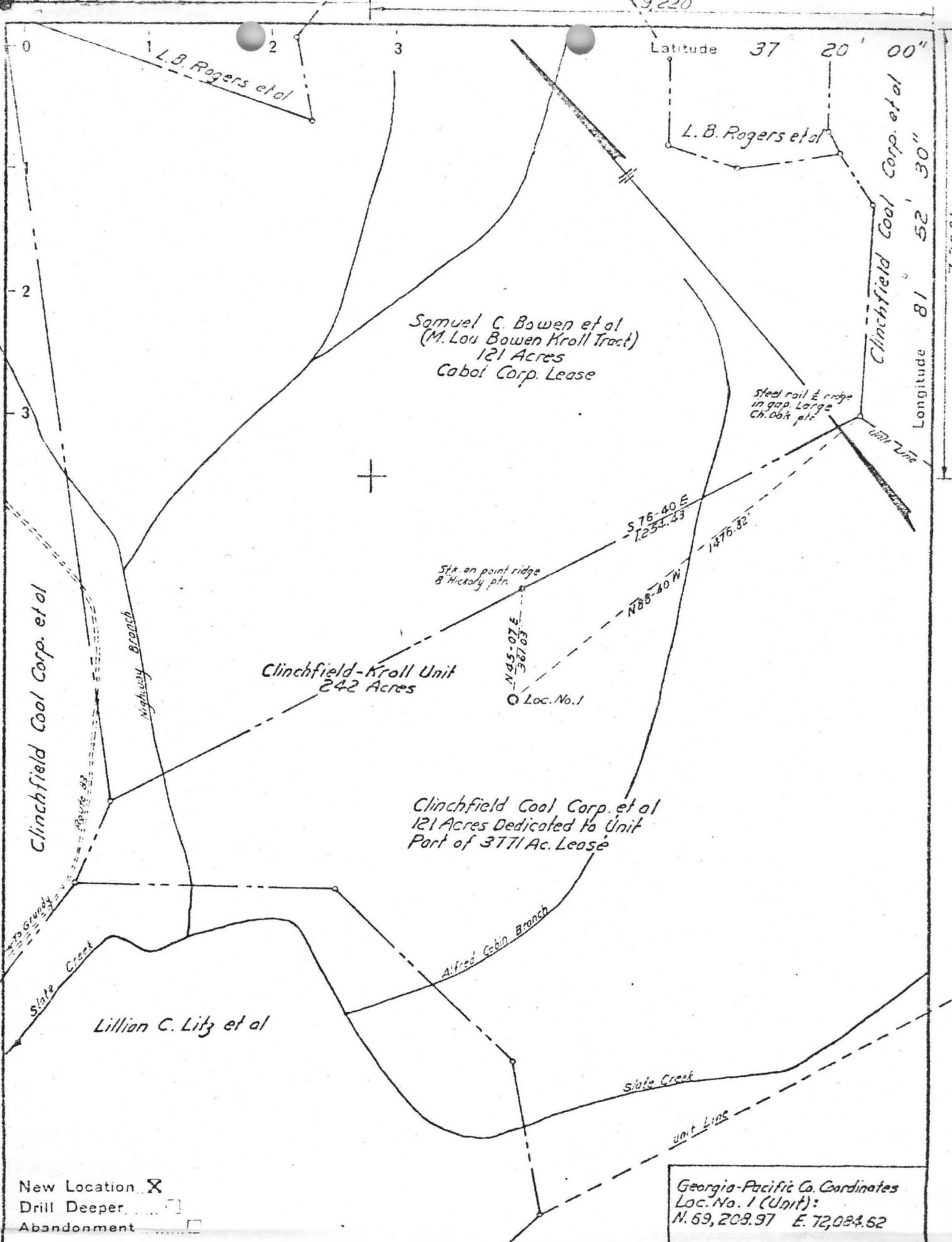
Georgia-Pacific Co. Coordinates
 Loc. No. 1 (Unit):
 N. 63,208.97 E. 72,084.62

Company ASHLAND EXPLORATION, INC.
 Address BOX 391, ASHLAND, KY. 41101
 Farm CLINCHFIELD-KROLL UNIT
 Tract _____ Acres 242 Lease No. 9070
 Well (Farm) No. 1 (UNIT) Serial No. 088151
 Elevation (Spirit Level) 2140.8
 Quadrangle PATTERSON
 County BUCHANAN District GRUNDY
 Engineer John A. Burnett
 Engineer's Registration No. 1442 - W. VA.
 File No. _____ Drawing No. _____
 Date SEPT. 10, 1979 Scale 1"=400'

COMMONWEALTH OF VIRGINIA
 VIRGINIA GEOLOGICAL SURVEY
STATE OIL AND GAS BOARD
 WYTHEVILLE, VIRGINIA

WELL LOCATION MAP
 FILE NO. _____

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.



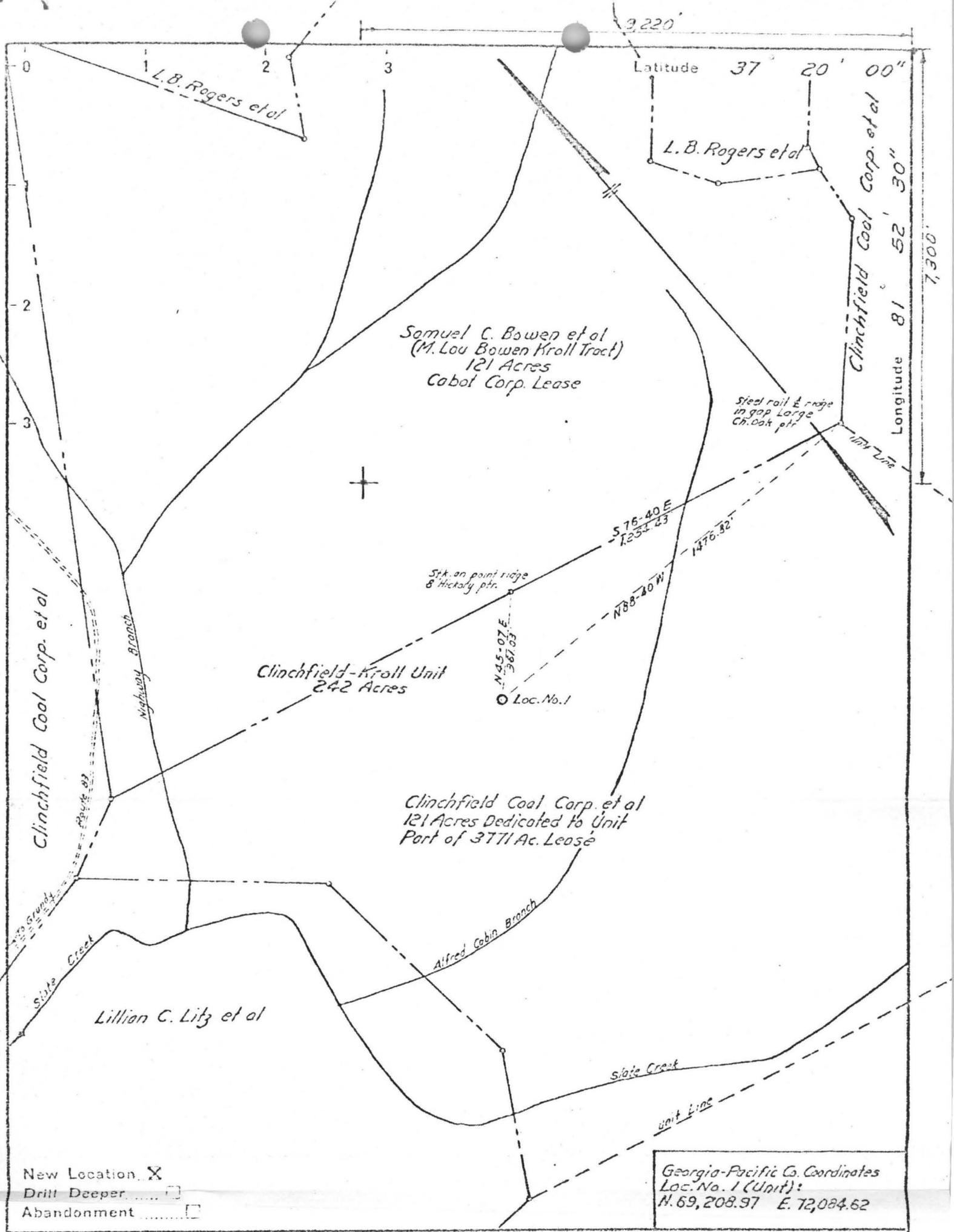
New Location X
 Drill Deeper
 Abandonment

Georgia-Pacific Co. Coordinates
 Loc. No. 1 (Unit):
 N. 69, 208.97 E. 72, 084.62

Company ASHLAND EXPLORATION, INC.
 Address BOX 391, ASHLAND, KY. 41101
 Farm CLINCHFIELD-KROLL UNIT
 Tract _____ Acres 242 Lease No. 9070
 Well (Farm) No. 1 (UNIT) Serial No. 088151
 Elevation (Spirit Level) 2140.8
 Quadrangle PATTERSON
 County BUCHANAN District GRUNDY
 Engineer John H. Burnett
 Engineer's Registration No. 1442 - W. VA.
 File No. _____ Drawing No. _____
 Date SEPT. 10, 1979 Scale 1" = 400'

COMMONWEALTH OF VIRGINIA
 VIRGINIA GEOLOGICAL SURVEY
STATE OIL AND GAS BOARD
 WYTHEVILLE, VIRGINIA

WELL LOCATION MAP
 FILE NO. BU-180
 PERMIT NO. 330
 + Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.



New Location X
 Drill Deeper
 Abandonment

Georgia-Pacific Co. Coordinates
 Loc. No. 1 (Unit):
 N. 69,208.97 E. 72,084.62

Company ASHLAND EXPLORATION, INC.
 Address BOX 391, ASHLAND, KY. 41101
 Farm CLINCHFIELD-KROLL UNIT
 Tract _____ Acres 242 Lease No. 9070
 Well (Farm) No. 1 (UNIT) Serial No. 088151
 Elevation (Spirit Level) 2140.8
 Quadrangle PATTERSON
 County BUCHANAN District GRUNDY
 Engineer John A. Burtwell
 Engineer's Registration No. 1442 - W. VA.
 File No. _____ Drawing No. _____
 Date SEPT. 10, 1979 Scale 1"=400'

COMMONWEALTH OF VIRGINIA
 VIRGINIA GEOLOGICAL SURVEY
 STATE OIL AND GAS BOARD
 WYTHEVILLE, VIRGINIA

WELL LOCATION MAP

FILE NO. BU-180

PERMIT NO. 330

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.