

OIL AND GAS WELL
SUMMARY REPORT

API No. 45-027-20446-00-03 VDMR Well
Rep. No. _____
DMQ File No. BU-210

Operator ASHLAND EXPLORATION INCORPORATED
Farm CLINCHFIELD-LITZ ET AL UNIT
Co. Well No. 1

County BUCHANAN Quadrangle PATTERSON - 7½'
Location (UTM) N4,129,480; E418,840 UTM Zone 17
(Lat. and Long.) _____

Field _____ Province APPALACHIAN PLATEAUS

Elev. (specify) 2164.2' GR. TD 5182' Form. at TD DEVONIAN SHALE
INITIAL FLOW - 22,000 CU. FT. Age DEVONIAN

Date compl. or abandoned MARCH 5, 1982

Result GAS WELL

Gas Shows _____

Gas Pays 5093' to 5104'

Main Production 5093' to 5104' Prod. Form. BEREA
Age MISSISSIPPIAN

Treatment: PERFORATED BEREA WITH 22 HOLES FROM 5053' to 5104' PUMPED 500
GALLONS OF 15% HCL AND BREAKDOWN FORMATION WITH TREATED WATER. FRACTURED
BEREA (22H/5093' - 5104') WITH 75 QUALITY FOAM USING 10,000 80/100 AND
30,000 20/40 SAND.

Initial Production _____
FINAL FLOW - 1,834,000 CU. FT.

Oil shows _____

Water FW _____ at _____ at _____ at _____
SW X at 1812' at _____ at _____

Coal _____

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 _____

Stratigraphic Data Source

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>

Remarks

References

Released to Open File: Completion JUNE 3, 1982

Samples NO

(Note: UTM measurements in meters, all others in feet)

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Samples _____ Interval Sheet _____

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Density _____ Sonic _____ Other _____

Stratigraphic Data Source _____

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Remarks _____

References _____

Released to Open File: Completion JULY 18, 1980
Samples NONE

(Note: UTM measurements in meters, all others in feet)

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

Well No. 1

Co. No. 092821

Office No. _____

Buchanan
County
Grundy
District

Map

NOTICE OF { DEEPENED } OIL OR GAS WELL
{ PROPOSED }

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

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

Date October 2, 1981

Gentlemen:

The undersigned ~~will~~ ^{will} begin on or about Nov. 12 19 81, the ~~deepening~~ ^{drilling} of a well for oil or gas on the Clinchfield-Litz Unit Farm, comprising 205 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 Jan. 19 55, in the office of the County Clerk for said County in Book 124, page 362

The well is 8,290 feet ~~xxxx~~ South of 37°-20'-00" and 11,580 feet ~~xxxx~~ 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 5168 feet. Samples or cuttings therefrom ~~will not~~ ^{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 41114

State

This notice sent to drilling company or operator on _____ date _____

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



Ashland Exploration, Inc.

SUBSIDIARY OF ASHLAND OIL, INC.

P. O. BOX 391 • ASHLAND, KENTUCKY 41101 • (606) 329-3333

EASTERN REGION

October 2, 1981

Commonwealth of Virginia
Dept. of Conservation and Economic Development
Division of Mineral Resources
Box 3667
Charlottesville, Va. 22903

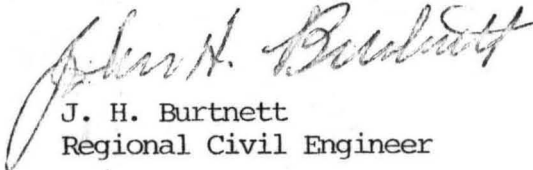
Gentlemen:

Enclosed is an original of your Form OG-1, Notice of Proposed Oil or Gas Well and one copy of location plat for our Clinchfield-Litz etal Unit Well No. 1, Serial #092821. This location is situate on the waters of Slate Creek, Grundy District, Buchanan County.

We have applied to the Division of Mines for permit to drill this well.

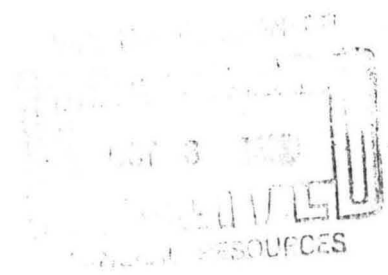
Very truly yours,

ASHLAND EXPLORATION, INC.


J. H. Burtnett
Regional Civil Engineer

/wcb

encl.



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

~~XXXXXX~~
NOTICE OF INTENTION TO DRILL OIL OR GAS WELL
~~XXXXXX~~

(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

October 1, 19 81
Date

Gentlemen:

The undersigned proposes to begin as soon as a permit therefor is obtained from the Division of Mines, to drill, ~~redrill or deepen~~ (strike out two) a well for ~~oil or~~ gas on the Clinchfield Coal Corp. Farm, comprising 3,771 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 56 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 8,290 feet South of 37°-20'-00" and about 11,580 feet West of 81°-52'-30".

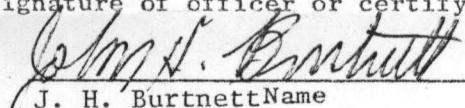
It is proposed to drill this well to a depth of about 5168 feet. Samples will or cuttings therefrom ~~will~~ be available for examination by a member of the staff of the Virginia Geological Survey. Cuttings will be furnished the Survey. if requested

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):

1. Pittston Resources, Inc., Box 4000, Lebanon, Va. 24266-Attn-Donald R. Johnson
2. Georgia-Pacific Corp., Box 909, Augusta, Ga. 30903, Attn-Mr. Richard M. George
3. Mrs. Lillian Counts Litz, Agent, 69 Maple Ave., Welch, WV 24801
4. Jewell Ridge Coal Co., Jewell Ridge, Va. 24622, Attn-Mr. Noel Stallard
5. _____
6. _____

Very truly yours,

Signature of officer or certifying party:


J. H. Burtnett
Regional Civil Engineer
Title

ASHLAND EXPLORATION, INC.
Drilling Company or Operator
Box 391
Street Address
Ashland, Ky. 41114
City or Town, and State

File BV-210 Date Received 10-5-81 Well No. #1-09281

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

~~XXXXXXXX~~
APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL
~~XXXXXXXX~~

(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
Oct. 1, 1981
Date

Gentlemen:

The undersigned hereby makes application for a Permit to drill, ~~re-drill~~, or ~~deepen~~ (strike out two) a well for ~~oil~~ or gas on the Clinchfield Coal 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, 1955 made by Clinchfield Coal Corp. to United Producing Co., Inc.

and recorded on the 22 day of January, 19 81 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, ~~Re-drill~~ or ~~Deepen~~ a Well for ~~Oil~~ or Gas (Form 2) on the 1st day of October, 19 81.

The proposed well will be known as Well No. 1 ^{Serial #092821} of Clinchfield-Litz et al Unit (company, etc.) It is proposed to drill this well to a depth of about 5,168 feet.

The proposed location is about 1,270 feet distant from the nearest property or lease line; about several ^{miles} ~~xxxxx~~ feet distant from the nearest mine opening, or quarry (strike out words not applicable); and/or about 2,550 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 one hundred (\$100.00) ~~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 \$ 1,000.00 is submitted herewith of (give status of) Submitted on Sept. 15, 1981 with bond for Lon B. Rogers et al Well No. 24

Correspondence regarding this well should be addressed to John H. Burnett, Regional Civil Engineer, Ashland Exploration, Inc., Box 391, Ashland, Ky. 41114

Very truly yours,

Signature of officer or certifying party:
J. H. Burnett
J. H. Burnett Name
Regional Civil Engineer
Title

ASHLAND EXPLORATION, INC.
Drilling Company or Operator
Box 391
Ashland
Kentucky 41114
State

Space below this line is for the use of the Board only.
ACTION OF DIVISION OF MINES

Received on 10-5-81, 19 81
Approved and Permit (No. 446) granted on 10-16, 19 81
Denied _____
Reasons for denial _____

DIVISION OF MINES

By B. T. Fulmer
State Oil and Gas Inspector
Title

File No: BU-210 Well No. 41-092821 Permit No. 446

(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

DIVISION OF MINES

Well No. 1-09281

GRUNDY
District

BIG STONE GAP, VIRGINIA

Permit No. 446

PATTERSON
Quadrangle

DEEPENED
OIL AND GAS WELL COMPLETION REPORT
ABANDONMENT

County Code 027

BU-210
File

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, Ky. 41114

Farm Clinchfield-Litz et al Unit

Acres 205

County Buchanan

District Grundy

Well No. (Company) 1 (Unit)

Elevation (ground surface) 2164.2 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 topo-
graphic map of area.)

8290 feet South of 37°-20'-00" and

11,580 feet West of 81°-52'-30"

Surface of tract is owned in fee simple by Mrs. Lillian Counts, Litz; Agent

Address 69 Maple Ave., Welch, WV 24801

Mineral rights are owned by Pittston Resources Inc.; Georgia Pacific Corp; Mrs. L. Litz

Address Box 4000, Lebanon Va; Box 909, Augusta, GA; 69 Maple Ave., Welch, WV Resp.

Location made by Ashland Exploration, Inc.

Drilling commenced 1/6/82 Drilling contractor Ray Resources, Inc.

Drilling completed 1/20/82 Address 630 Commerce Sq., Charleston, WV

Well completed as ^{gas} well on 3/5/82
_{oil}

Well abandoned at NA feet on _____: Reason _____

Well plugged on NA, 19____ Affidavit filed _____, 19____

Total depth 5182 feet. Steel line measurement 5179 feet.

Commenced producing on pipeline being installed, 19____ 82

Oil Well
Initial production, _____ 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 _____ feet to _____ feet. (5) _____ feet to _____ feet.

Gas Well Gaged 12 /10ths. Water in 1 inch.

Initial open flow, gas: _____ /10ths. Mercury in _____ inch.

Volume 22 Mcf : Rock Pressure _____ lbs _____ hrs

Stimulation Record Perf Berea Sand 22H/5093-5104 - Pumped 500 gal 15% HCL acid &
breakdown formation w/treated water. Frac Berea (22H/5093-5104) w/75 Quality foam using
10,000# 80/100 & 30,000# 200 - ATP @ 2100# @ 20 BPM (foam @ 20 BPM)

Breakdown Pressure 2100 psi; Average Injection Pressure 2000 psi;
 Average Injection Rate 20 BPM; Instant Shut-in Pressure 2000 psi;
15 Min. Shut-in Pressure 1800 psi.

Final Openflow 1834 Mcf.; Rock Pressure 880 lbs. 3 hrs.
 Gas pays at (1) 5093 feet to 5104 feet. Gas 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 5093 feet to 5104 feet. (5) _____ feet to _____ feet.

Fresh water at (1) _____ feet, _____ GPM; (2) _____ feet, _____ GPM; (3) _____ feet, _____ GPM.
 Salt water at (1) 1812 feet; (2) _____ feet; (3) _____ feet; (4) _____ feet.
 Coal: from _____ feet _____ inches to _____ feet _____ inches; from _____ feet _____ inches to _____ feet _____ inches; from _____ feet _____ inches, to _____ feet _____ inches.

CASING AND TUBING				PACKERS OR BRIDGE PLUGS			
SIZE	USED IN DRILLING	LEFT IN WELL	PERFORATED	KIND	SIZE	SET AT	
(inch)	(feet)	(feet)	(feet) to (feet)				
13 3/8	39	39		None			
8 5/8	2379.15	2379.15					
4 1/2	5166.69	5166.69	5093-5104				
2 3/8		5027.82	Siphon				
				LINERS			
				SIZE	USED IN DRILLING	LEFT IN WELL	PERFORATED
				(inch)	(ft.)	(ft.)	(ft. to ft.)
				None			

NOTE: 11' KB

Casing Cemented: 13 3/8 inch. from 30 feet to Surface Date 1/6/82
8 5/8 inch. from 2379 feet to Surface Date 1/14/82
4 1/2 inch. from 5167 feet to 4188 Date 1/20/82

Remarks: (Shut down, depths, dates; fishing jobs, depths, dates; caving; other notes)
@ 4276' - lost cones in hole from Bit #6, Rec. w/magnet 1/18/82

Samples or cuttings will be available for examination by a member of the Virginia Geological Survey _____ (Yes)
 _____ (No)
 Will be furnished the Virginia Geological Survey upon request _____ (Yes), if sacks for same are furnished by the
 Survey _____ (No) _____ (Yes)
 _____ (No)

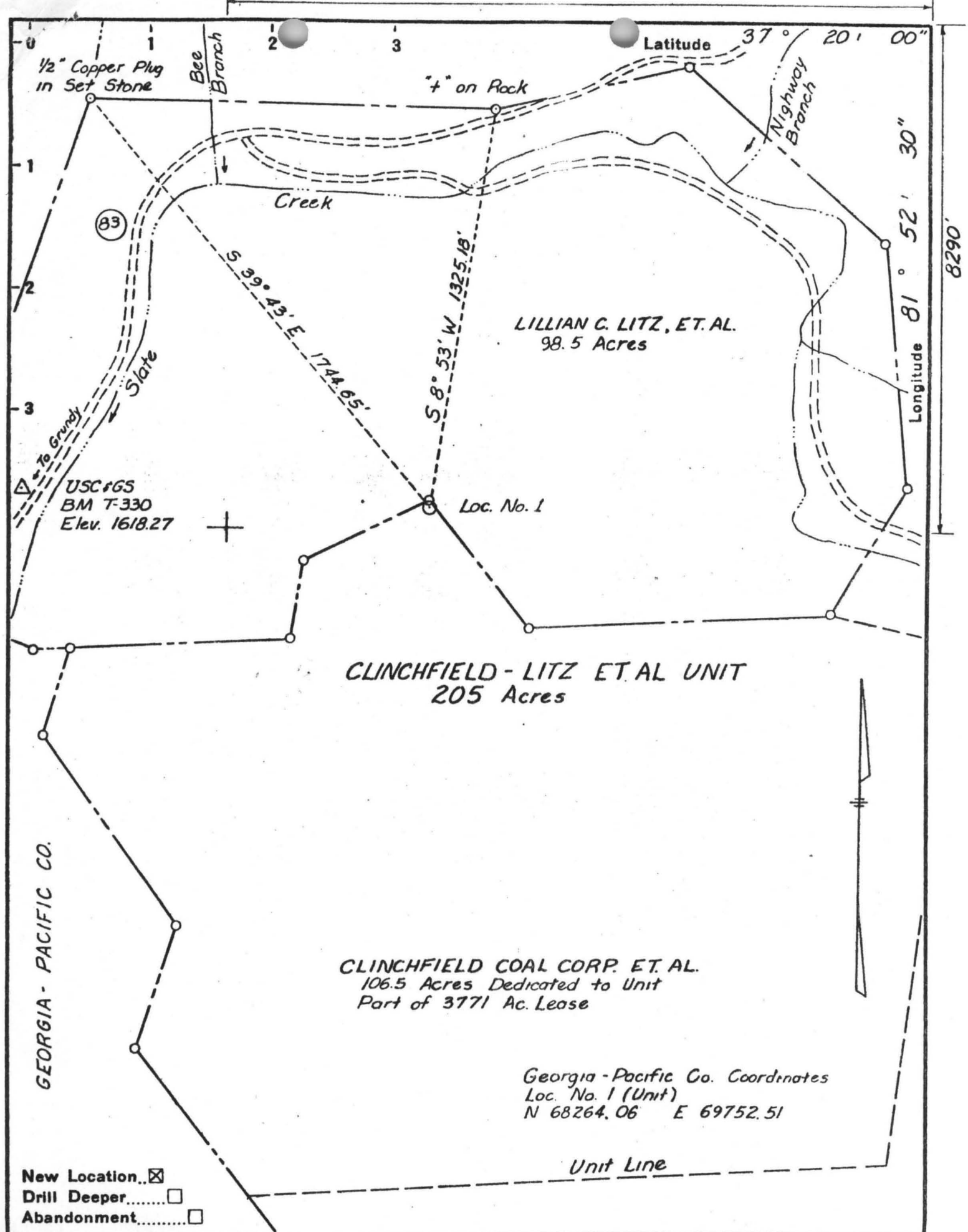
Electrical log made X or not made _____ (check which.)
 Copy furnished herewith X or will be submitted on or by _____, 19____
 Depths surface to TD

To operator requests that information given herein and log or logs be kept confidential for a period of ninety days
 after completion of the well covered by this report _____ (Yes)
 _____ (No)

LOG

Furnished by Schlumberger Date 1/19/82Compiled by D. J. Belcher Date 3/30/82

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	TOP (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS WATER DEPTHS SHUT DOWN FISHING, ETC.
		Sd & Shale		0	326		
		Shale		326	423		
		Sd & Shale		423	663		
		Shale & Sd		663	1010		
		Sand		1010	1083		
		Shale		1083	1174		
		Sand & Sh		1174	1516		
		Shale		1516	1537		
		Sand		1537	1623		
		Shale & Sd		1623	1812		
	Salt Sand			1812	2380		
		Shale		2380	2453		
		Sand		2453	2545		
		Shale		2545	2678		
		Sd & Shale		2678	2873		
	Avis Lime			2873	2941		
		Shale		2941	3021		
	Stray Sand			3021	3052		
		Shale		3052	3190		
	Upper Maxton			3190	3270		
		Shale		3270	3414		
	M. Maxton			3414	3488		
		Shale & Sd		3488	3667		
	L. Maxton			3667	3712		
		Shale		3712	3788		
	Little Lime			3788	3870		
	Pencil Cave			3870	3938		
	Big Lime			3938	4438		
		Shale		4438	4507		
	Weir			4507	4718		
		Shale		4718	5034		
	Coffee Shale			5034	5055		
	Berea			5055	5112		
	Dev. Shale			5112	5179		
	DTD 5182						
	LTD 5179						



GEORGIA - PACIFIC CO.

New Location
 Drill Deeper
 Abandonment

Company ASHLAND EXPLORATION, INC.
 Address P.O. Box 391, ASHLAND, KY 41114
 Farm CLINCHFIELD-LITZ ET AL UNIT
 Tract _____ Acres 205 Lease No. 9070
 Well (Farm) No. 1 (UNIT) Serial No. 092821
 Elevation (Spirit Level) 2164.2
 Quadrangle PATTERSON
 County BUCHANAN District GRUNDY
 Engineer John H. Burdett
 Engineer's Registration No. 1442 - W.Va.
 File No. _____ Drawing No. _____
 Date Sept. 30, 1981 Scale 1" = 400'

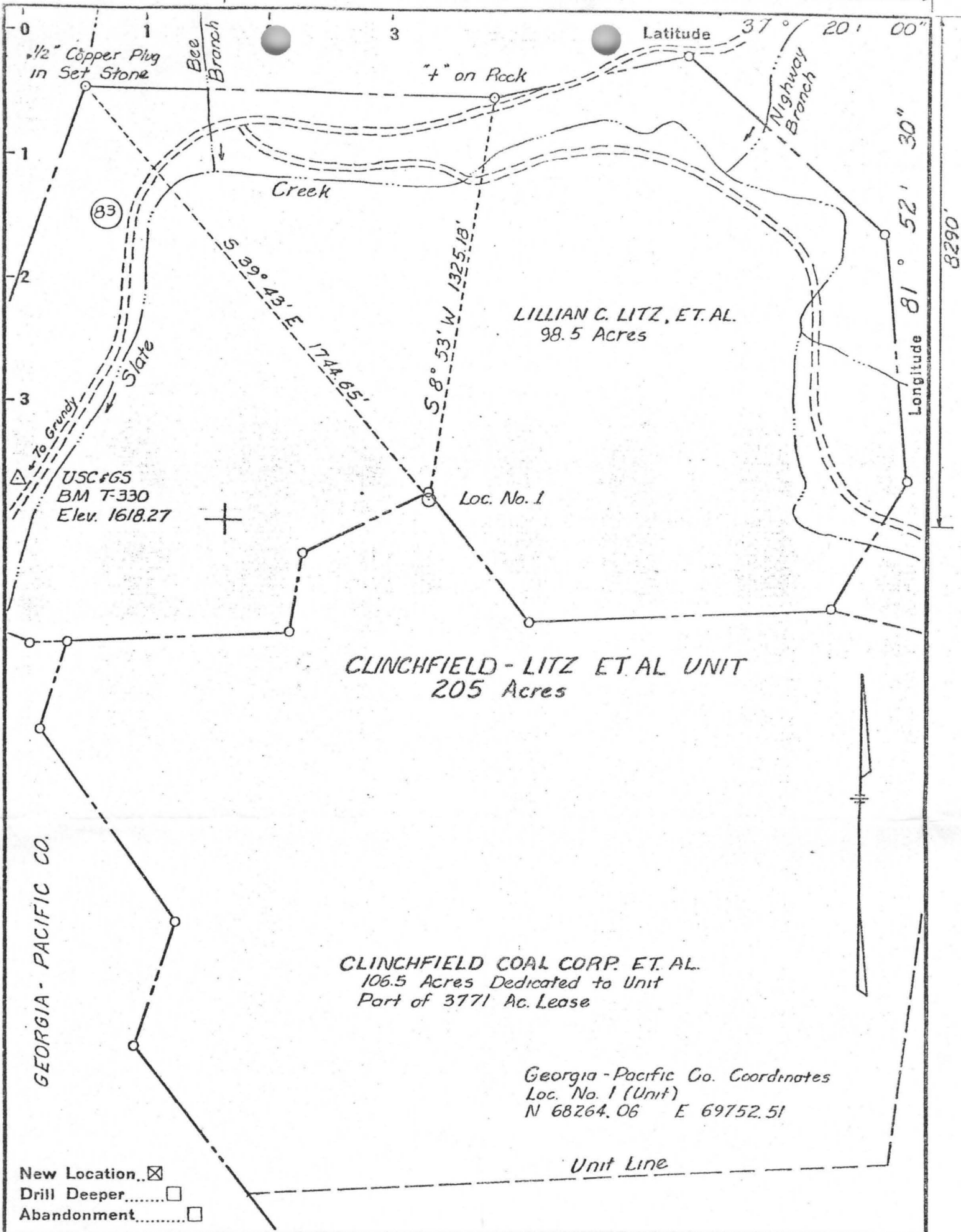
COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF LABOR & INDUSTRY
 DIVISION OF MINES
 BIG STONE GAP

WELL LOCATION MAP

FILE NO. _____

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

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



Company ASHLAND EXPLORATION, INC.
 Address P.O. Box 391, ASHLAND, KY 41114
 Farm CLINCHFIELD-LITZ ET AL UNIT
 Tract _____ Acres 205 Lease No. 9070
 Well (Farm) No. 1 (UNIT) Serial No. 092821
 Elevation (Spirit Level) 2164.2
 Quadrangle PATTERSON
 County BUCHANAN District GRUNDY
 Engineer John H. Burdett
 Engineer's Registration No. 1442 - W.Va.
 File No. _____ Drawing No. _____
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COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF LABOR & INDUSTRY
 DIVISION OF MINES
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