

Minimum Error of Closure 1 in 200

Source of Elevation USGS elev in road 1500' NE = 777'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- Fracture
- New Location
- Drill Deeper
- Abandonment

Signed: *Walter Boggs*
 Squares: N S E W

Map No. _____

Company Paleo, Inc.
 Address May-Ex Bldg. Oklahoma City
 Farm E. M. Boggs, John Boggs
 Tract _____ Acres 398 Lease No. _____
 Well (Farm) No. Paleo No. 1 Serial No. I 1-1
 Elevation (Spirit Level) 852 SW 55'
 Quadrangle Normantown 7 1/2, Glanville 15'
 County Gilmer District Center
 Engineer *Walter Boggs*
 Engineer's Registration No. 1227 LLS No 200
 File No. _____ Drawing No. _____
 Date Oct 18, 1976 Scale 1" = 500'

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

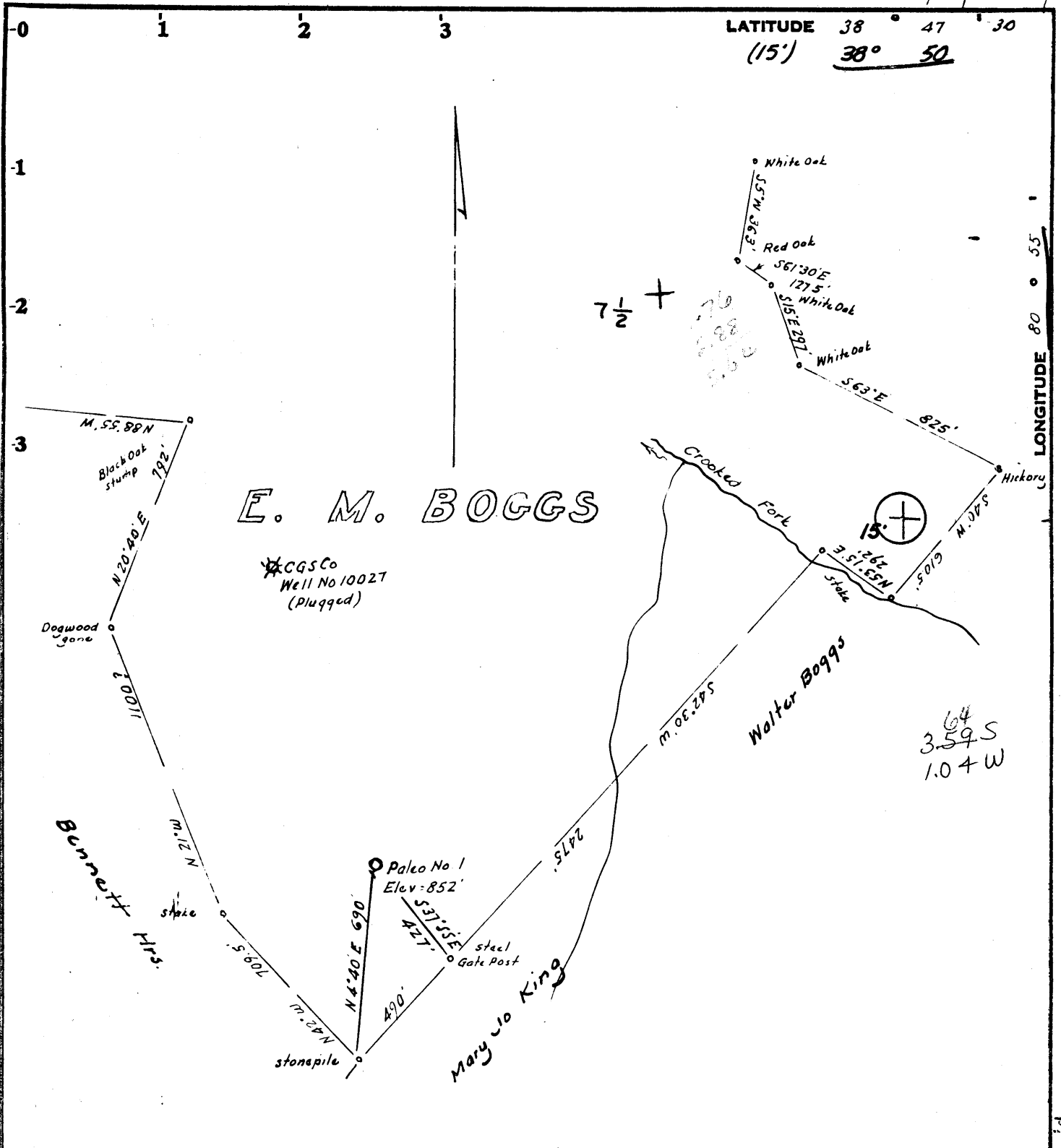
WELL LOCATION MAP

FILE NO. GIL-2865
 FORMERLY GIL-2755

+ 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. **47-021**

10/21/76 K



E. M. BOGGS

CGSCO
Well No 10027
(Plugged)

Minimum Error of Closure 1 in 200

Source of Elevation USGS elev in road 1500' NE : 777'

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- Fracture
- New Location
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Signed: [Signature]
Squares: N S E W

Map No. _____

Company Paleo, Inc.

Address May-Ex Bldg. Oklahoma City

Farm E. M. Boggs, John Boggs

Tract _____ Acres 398 Lease No. _____

Well (Farm) No. Paleo No 1 Serial No. _____

Elevation (Spirit Level) 852 SW

Quadrangle Normantown 7 1/2, Glanville 15'

County Gilmer District Center

Engineer [Signature]

Engineer's Registration No. 1227 LLS No 200

File No. _____ Drawing No. _____

Date Oct 18, 1976 Scale 1" = 500'

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

WELL LOCATION MAP
was:
FILE NO. GIL-2755
now: GIL-2865

+ 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.

47-021 NOV 12 1976



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED

OCT 18 1977

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD 13

Quadrangle Normantown 7½

Permit No. Gil-2865

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Paleo, Inc.
Address Oklahoma City, Okla.
Farm E. M. Boggs Acres _____
Location (waters) Crooked Fork
Well No. 1-366 Elev. 856 KB
District Center County Gilmer
The surface of tract is owned in fee by _____
John Boggs
Address Perkins, W. Va.
Mineral rights are owned by E. M. Boggs Hrs.
Address Perkins, W. Va.
Drilling Commenced 8/1/77
Drilling Completed 8/5/77
Initial open flow 20 mcf cu. ft. 0 bbls.
Final production 151 cu. ft. per day 0 bbls.
Well open 2 hrs. before test 280 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	239	239	to surface
7			
5 1/2			
4 1/2	2290	2290	110 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well Frac 8-26-77
Perforated at 2228 to 2244, 9 holes
30 thousand lb of 20/40 sand
725 Bls of water
500 gal of acid
Rate 19 BPM at 800 lb

Coal was encountered at None Feet _____ Inches _____
Fresh water 88 ft Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 2228 to 2244

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			0	23		
Shale, Sandy			23	120		
Sand			120	155		
Shale			155	250		
Sand			250	270		
Shale			270	342		
Sand			342	378		
Shale w/sand stringers			378	790		
Sand			790	807		
Shale			807	843		
Sand			843	882		
Shale			882	915		
Sand			915	1024		
Shale			1024	1091		
Sand w/shale stringers			1091	1320		
Shale			1320	1550		
Sand			1550	1574		
Shale			1574	1740		
Sand			1740	1756		
Shale			1756	1880		
Sand			1880	1892		
Shale			1892	1944		
Sand			1944	1992		
Shale			1992	2030		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Limestone			2030	2068		
Shale			2068	2080		
<u>Limestone</u>	B. INJUN		2080	2250		
Shale			2250	2291		
				2291		Total Depth

Date 10-14 19 77

APPROVED  (Name)

By _____ Agent

(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OCT 21 1976

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE October 21, 1976

Surface Owner John Boggs

Company Paleo, Inc.

Address Perkins, W. Va.

Address May-Ex Bldg., Okla. City, Okla. 73112

Mineral Owner E. M. Boggs Heirs

Farm E.M. Boggs Acres 398

Address Perkins, W. Va.

Location (waters) Crooked Fork

Coal Owner _____

Well No. 1-366 Elevation 852'

Address _____

District Center County Gilmer

Coal Operator _____

Quadrangle Normantown 7 1/2'

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 2-21-77

INSPECTOR
TO BE NOTIFIED Paul Goodnight

ADDRESS Smithville, W. Va.

PHONE 477-2455

Robert H. [Signature]
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated Jan. 5 1966 by E.M. Boggs made to Hope Natural Gas Co. and recorded on the _____ day of _____ 19____, in Gilmer County, Book 60 Page 2

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

May-Ex Bldg.
Street
Oklahoma City
City or Town
Oklahoma 73112
State

Very truly yours, [Signature]
(Sign Name) Mark H. Work Agent
Well Operator

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by [Signature]

was:
GIL-2755 PERMIT NUMBER

47 021
Now: GIL-2865

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Haught Drilling Co. NAME _____ Robert Jones
 ADDRESS Smithville, W. Va. ADDRESS _____ Sand Fork, W. Va.
 TELEPHONE _____ 477-2222 TELEPHONE _____ 462-8366
 ESTIMATED DEPTH OF COMPLETED WELL: 1900 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	215	215	75 - circulate
7			
5 1/2			
4 1/2	1900	1900	100 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS None FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS No coal occurs
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

 For Coal Company

 Official Title



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
JUL 15 1977
OIL & GAS DIVISION
DEPT. OF MINES

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE July 12, 1977

Surface Owner John Boggs
Address Perkins, W. Va.

Company Paleo Inc.
Address Oklahoma City, Oklahoma

Mineral Owner E. M. Boggs Heirs
Address Perkins, W. Va.

Farm E. M. Boggs Acres 398
Location (waters) Crooked Fork

Coal Owner _____
Address _____

Well No. 1-366 Elevation 852
Center ft

Coal Operator None
Address _____

District _____ County _____
Quadrangle Normantown 7 1/2

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22 of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 11-19-77.

INSPECTOR TO BE NOTIFIED Mr. Paul Goodnight

ADDRESS Smithville, W. Va.

PHONE 477-3660

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated Jan. 5 1906 by E. M. Boggs

made to Hope Natural Gas Company and recorded on the _____ day of _____ 19____, in Gilmer County, Book 60 Page 2

* NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, Paleo Inc.
(Sign Name) Robert B. [Signature]
Well Operator

Address of Well Operator

Suite 207, May Ex Building
Street
3022 N. W. Expressway
City or Town
Oklahoma City, Oklahoma 73112
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

(Formerly GIL-2755)

GIL-2865 PERMIT NUMBER

47-021

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by [Signature]

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ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO * DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) G. L. Haught and Sons RESPONSIBLE AGENT: Robert R. Jones
 NAME _____ P.O. Box 86, Sand Fork, W. Va.
 ADDRESS Smithville, W. Va. ADDRESS _____
 TELEPHONE 477-3333 TELEPHONE 462-8366
 ESTIMATED DEPTH OF COMPLETED WELL: 1900 ROTARY * _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Big-Injun
 TYPE OF WELL: OIL _____ GAS * _____ COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
8" - 16			
12" - 10			
2" - 5/8			
2" - 5/8	215 ft	215 ft	To Surface
7"			
5 1/2"			
4 1/2"		1900 ft	110 sks Pozz
3"			Perf. Top
2"			Perf. Bottom
Links			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS None
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

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For Coal Company

Official Title