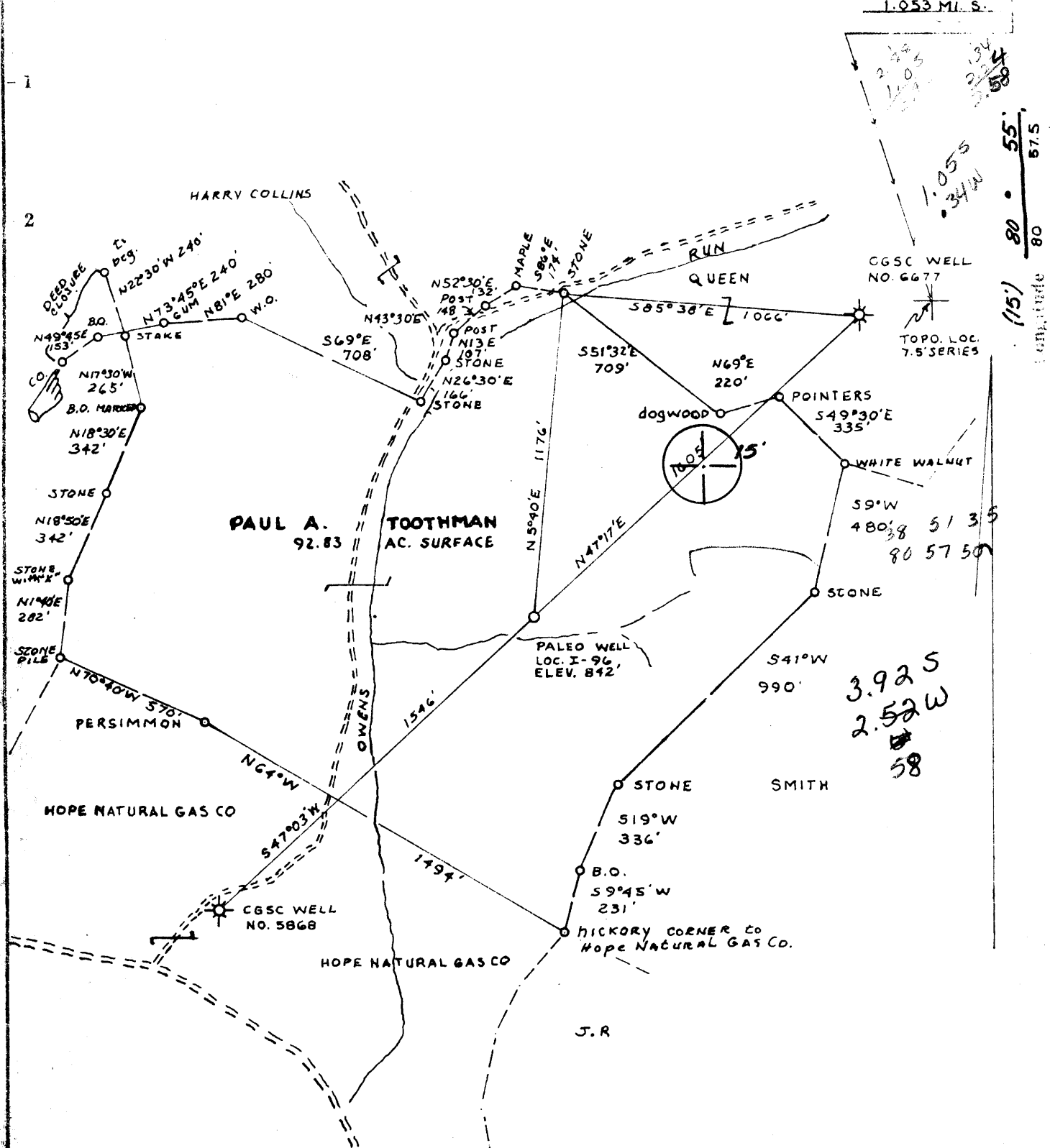


0.331 MI. W.
1.053 MI. S.



Fracture...
 Redrill...
 New Location
 Drill Deeper
 Abandonment

Source of Elevation FORKS OF ROAD NORTH 1150' FROM LOC. I-96 ELEV. 741
 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.

Mark C. Echard Minimum accuracy, one part in 200

Company PALEO, INC.
 SUITE 205-MAY-EX-BLDG-3022 N.W. EXPRESSWAY
 Address OKLAHOMA CITY, OKLAHOMA 73112
 Farm PAUL TOOTHMAN - BOGGS & PEARCY
 Tract Acres ME 1017 Lease No. SURF. 92.83
 Well (Farm) No. I-96 Serial No. WC
 Elevation (Spirit Level) 842
 Quadrant NORMANTOWN 7.5; GLENVILLE 15'
 County GILMER District CENTER
 Surveyor MARK C. ECHARD
 Registration No 490
 JULY 25, 1977 Scale 1-INCH=500-FEET

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

WELL LOCATION MAP
 FILE NO. GIL-2897

- Denotes location of well on United States Topographic Maps, scale 1 to 24,000 (latitude and longitude lines being replaced by border lines as shown)

47-021 SEP 12 1977

6-4 STUMPTOWN NORMANTOWN SHOCK 180



RECEIVED

OCT 18 1977

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Normantown 7½
Permit No. Gil-2897

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

Company Paleo, Inc.
Address Oklahoma City, Okla.
Farm Paul Toothman Acres 92.85
Location (waters) Owens Run
Well No. 1-96 Elev. 846 KB
District Center County Gilmer
The surface of tract is owned in fee by _____
Paul Toothman
Address 11101 Washington St., Chagrin
Mineral rights are owned by Boggs & Percy Hrs.
Address Falls, Ohio
Drilling Commenced 8/23/77
Drilling Completed 8/26/77
Initial open flow 500 mcf cu. ft. 300 Rock
Final production 1,200 mcf cu. ft. per day 485 Rock
Well open 4 hrs. before test 485 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	200	200	to surface
7			
5 1/2			
4 1/2	1667	1667	110 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Frac 10-3-77
Perforated at 1616 to 1624, 10 holes
50 thousand lb of 20/40 sand
938 Bts of water
500 gal of Acid
Rate, 35.9 BPM at 1/28 lb

Coal was encountered at None Feet _____ Inches
Fresh water 90 Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1616 to 1624

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	10		
Shale			10	35		
Sand			35	195		
Shale			195	230		
Sand			230	310		
Shale, sandy			310	485		
Sand			485	595		
Shale			595	645		
Sand			645	840		
Shale			840	1200		
Sand			1200	1248		
Shale			1248	1346		
Sand			1346	1418		
Shale			1418	1440		
Limestone			1440	1610		
Limestone, sandy - <u>B. INJUN</u>			1610	1648		
Shale			1648	1680		
				1680	Total Depth	

(over)

* Indicates Electric Log tops in the remarks section.

OCT 25 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

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OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

Mr. Paul A. Toothman

DATE July 25, 1977
 Company Paleo Inc
 Surface Owner _____ Address Oklahoma City, Oklahoma
 Address 11101 Washington St, Chagrin Falls, Ohio
 Mineral Owner Boggs and Percy heirs 40222 Farm Paul Toothman Acres 92.85
 Address _____ Location (waters) Owens Run
 Coal Owner _____ Well No. 1-96 Elevation 842
 Address _____ District Center County Gilmer
 Coal Operator None Quadrangle Normantown 7 1/2
 Address _____

NOTICE TO BE POSTED AT THE WELL SITE

drilling _____

12-10-77

INSPECTOR TO BE NOTIFIED Paul Goodnight
 ADDRESS Smithville, W.Va.
 PHONE 477-3660

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 August 2 1976 by Consolidated Gas Supply Corp made to Paleo Inc. and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

* 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) David Summer
 Well Operator
 Suite 205, 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.

BLANKET BOND

GIL-2897
 47-021
 PERMIT NUMBER

"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 David Summer

THIS IS AN ESTIMATE ONLY
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
 ADDRESS Smithville, W. Va. ADDRESS P.O. Box 86, Sand Fork, W. Va.
 TELEPHONE 477-3333 TELEPHONE 462-8366
 ESTIMATED DEPTH OF COMPLETED WELL: 1780 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.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	200 ft	200 ft	To Surface
7			
5 1/2			
4 1/2		1780 ft	110 sks Pozz Perf. Top
3			Perf. Bottom
2			Perf. Top
Liners			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 95 FEET SALT WATER FEET
 APPROXIMATE COAL DEPTHS No Coal
 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