



(15') 80° 40' LONGITUDE 80° 42' 30"

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM AT POINT PLEASANT CHURCH ELEV. 1030

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 MINES. *Mark C. Echard*
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE MAY 1, 1980
 OPERATOR'S WELL NO. THREE
 API WELL NO. 47-017-2742
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1230 WATER SHED FALLEN TIMBER
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE YADIS 7.5' & 15' WC
 SURFACE OWNER GEORGE ADRIAN ACREAGE 89
 OIL & GAS ROYALTY OWNER AVA ROSS LEASE ACREAGE 89
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2200
 WELL OPERATOR PALEO, INC. DESIGNATED AGENT TERRY BONNETT
 ADDRESS SUITE 205-MAY-EX-BLDG 3022 N.W. EXP WAY ADDRESS TROY, WEST VIRGINIA
OKLAHOMA CITY, OKLAHOMA 73112

6-6 Coatings (142)

JUN 17 1980

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

Date February 24, 1981

FORM IV-35
(Obverse)

Operator's Well No. Cole #3

[08-78]

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 017 - 2742
State County Permit

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow)

LOCATION: Elevation: 1230' Watershed: Fallen Timber
District: Cove County: Doddridge Quadrangle: Vadis

WELL OPERATOR Paleo, Inc. DESIGNATED AGENT Dan Lowther
Address % P O Box 86 Address Linn, WV
Sand Fork, WV 26430

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON May 9, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Garrett
Address Clarksburg, WV
622-3871

GEOLOGICAL TARGET FORMATION: Big Injun Sand Depth 2325 feet

Depth of completed well, 2430' feet Rotary / Cable Tools

Water strata depth: Fresh, 120 feet; salt, _____ feet.

Coal seam depths: N/A Is coal being mined in the area? No

Work was commenced May, 1980, and completed June 18, 1980

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	10 3/4					300	300	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2						2392'	200 sks	Depth set
Tubing									
Liners									Perforations: Top Bottom

RECEIVED
MAR - 9 1981

OPEN FLOW DATA

OIL & GAS DIVISION

561 MCF

Producing formation Big Injun DEPT. OF MINES, OIL & GAS DIVISION Zone depth 2208-2325 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 561,000 Mcf/d Final open flow, _____ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 600 psig (surface measurement) after 48 hours shut in

[If applicable due to multiple completion--]

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d

Time of open flow between initial and final tests, _____ hours

Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

MAR 23 1981

TAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured June 27, 1980

Big Injun Sand - 40,000 lb. 20/40 sand
1600 lb. breakdown
25.1 BPM at 1650 lb.
554 bbls. water

Perforations - 2208 - 2325

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Little Lime			2152	2165	
Big Lime			2206	2278	
Big Injun			2278	2358	
Total Depth			2423		

(Attach separate sheets to complete as necessary)

Paleo, Inc.
Well Operator

By Maide R. Wood

Its Agent

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

[08-78]

COPY

OIL AND GAS WELL PERMIT APPLICATION

Operator's
Well No. Cole #3

API Well No. 47 - 017 2742
State County Permi

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow)

LOCATION: Elevation: 1230' Watershed: Fallen Timber
District: Cove County: Doddridge Quadrangle: Vadis

WELL OPERATOR Paleo, Inc.
Address % P O Box 86
Sand Fork, WV 26430

DESIGNATED AGENT Dan Lowther
Address Linn, WV

OIL & GAS ROYALTY OWNER Ava Ross
Address Route 3, Box 95
Salem, WV 26426
Acreage 89

COAL OPERATOR None
Address _____

SURFACE OWNER George Adrian
Address Troy, WV
Acreage 89

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name N/A
Address _____
Name N/A
Address _____

FIELD SALE (IF MADE) TO:
Name N/A
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, WV
622-3871

OIL & GAS DIVISION
DEPT. OF MINES

MAY - 9 1980

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated August 28, 1979, to the undersigned well operator from M. Avanelle Ross and James Ross.

[If said deed, lease, or other contract has been recorded:]
Recorded on August 28, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 110 at page 385. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

Paleo, Inc.
Well Operator

By Mark A. Wood
Agent

BLANKET BOND

COPY

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Robinson Drilling
Address Tanner, WV

GEOLOGICAL TARGET FORMATION, Big Injun

Estimated depth of completed well, 2200' feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 110 feet; salt, feet,

Approximate coal seam depths: None Is coal being mined in the area? Yes / No /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Fresh water	10 3/4"					300'	300'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						2200'	100 sks
Tubing								Depths set
Liners								Perforations:
								Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 1-14-81.

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

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19

By
Its