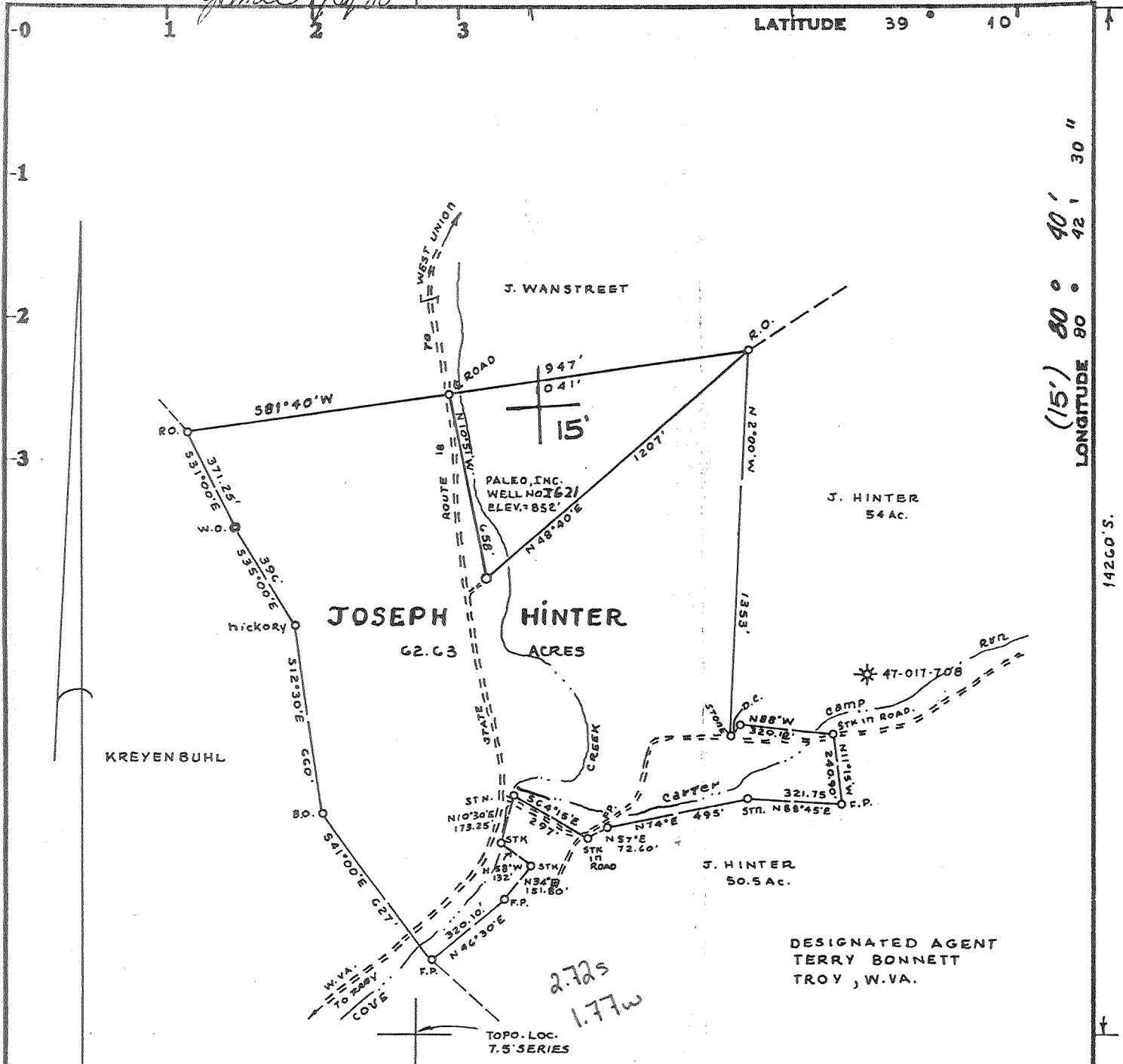


Janice 7/6/98

9310' W.



KREYENBUHL

JOSEPH HINTER
62.63 ACRES

J. WANSTREET

J. HINTER
54 AC.

J. HINTER
50.5 AC.

DESIGNATED AGENT
TERRY BONNETT
TROY, W.VA.

SURFACE & OIL AND GAS OWNER(S)
JOSEPH HINTER
NEW MILTON, W.VA.

Minimum Error of Closure ONE PART IN 200'

Source of Elevation USGS SPOT ELEVATION AT INTERSECTION OF

CARTER CAMP RUN ROAD & ST. Rt. 18 ELEV-843'

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..... *7-7-88* GAS-DRILL-SHALLOW
- New Location..... ELK-T.F. EST. DEPTH = 500'
- Drill Deeper.....
- Abandonment.....

Signed: Mark C. Echard
Squares: N S E W

Map No.

WELL Company	<u>Rockwell Petroleum Co.</u>
Address	<u>P.O. Box 179 Glenville, W.V. 26351</u>
Farm	<u>JOSEPH HINTER</u>
Tract	Acres <u>62.63</u> Lease No. _____
Well (Farm) No.	<u>7621</u> Serial No. _____
Elevation (Spirit Level)	<u>852'</u>
Quadrangle	<u>NEW MILTON 7.5', VADIS 15'</u>
County	<u>DODDRIDGE</u> District <u>COVE</u>
Surveyor	<u>MARK C. ECHARD</u>
Surveyor's Registration No.	<u>490</u>
File No.	_____ Drawing No. _____
Date	<u>AUGUST 30, 1979</u> Scale <u>1" = 500'</u>

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

WELL LOCATION MAP
API. 47-017-

FILE NO. 47-017-2486-Frac.

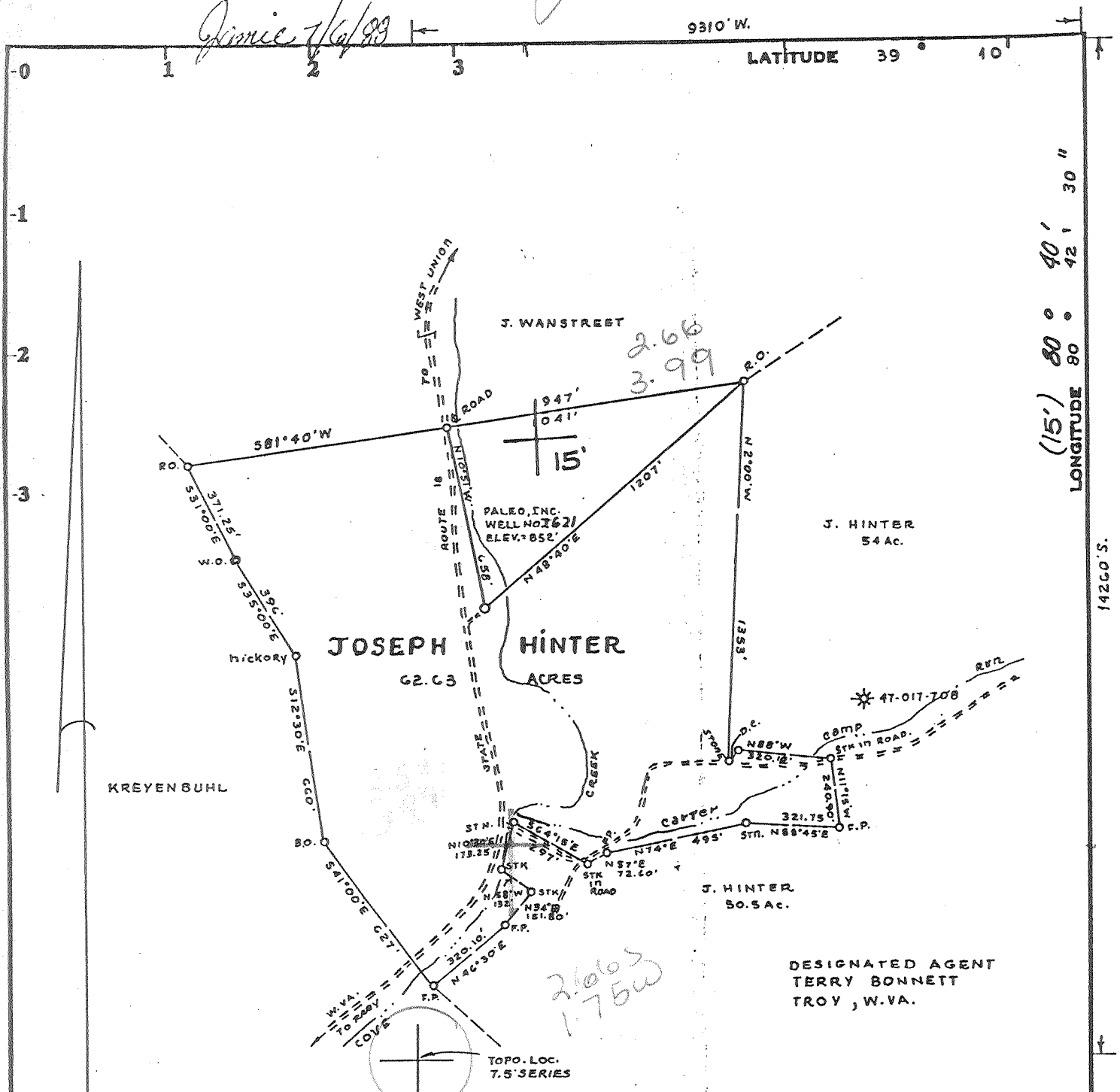
Fracture Cancelled
+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

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

MAR 18 1991

ELK 5000'

Jimie 7/6/88



KREYENBUHL

SURFACE & OIL AND GAS OWNERS)
JOSEPH HINTER
NEW MILTON, W.VA.

DESIGNATED AGENT
TERRY BONNETT
TROY, W.VA.

Minimum Error of Closure ONE PART IN 200'

Source of Elevation USGS SPOT ELEVATION AT INTERSECTION OF

CARTER CAMP RUN ROAD & ST. Rt. 18 ELEV-843'

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..... *7-7-88*
New Location..... GAS - DRILL - SHALLOW
Drill Deeper..... ELK - T.F.
Abandonment..... EST. DEPTH = 5000'

Signed: mark c. Echard
Squares: N S E W

WELL Company Rockwell Petroleum Co.
Address P.O. Box 179 Glenville, W.V.
Farm JOSEPH HINTER
Tract _____ Acres 62.63 Lease No. _____
Well (Farm) No. I-621 Serial No. _____
Elevation (Spirit Level) 852'
Quadrangle NEW MILTON T.S., VAD 15'
County DODDRIDGE District COVE
Surveyor MARK C. ECHARD
Surveyor's Registration No. 490
File No. _____ Drawing No. _____
Date AUGUST 30, 1979 Scale 1" = 500'

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

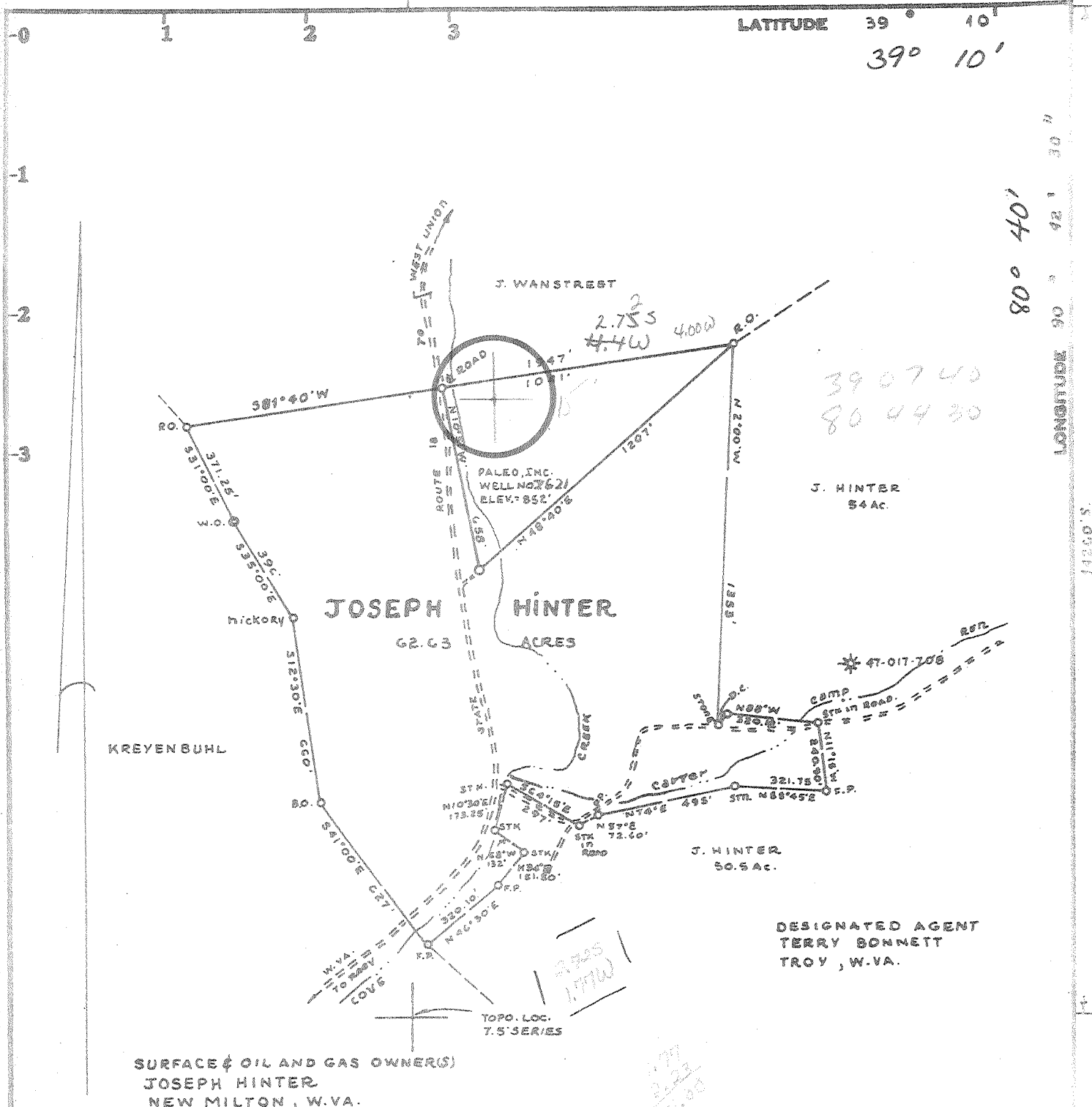
WELL LOCATION MAP

API. 47-017-
FILE NO. 47-017-2486-Frac.

+ 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.

ELK 5000'



SURFACE & OIL AND GAS OWNER(S)
JOSEPH HINTER
NEW MILTON, W.VA.

DESIGNATED AGENT
TERRY BONNETT
TROY, W.VA.

Minimum Error of Closure ONE PART IN 200'

Source of Elevation USGS SPOT ELEVATION AT INTERSECTION OF
CARTER CAMP RUN ROAD & ST. RT. 18 ELEV-843'

Fracture..... GAS-DRILL-SHALLOW
New Location..... ELK-T.F.
Drill Deeper..... EST. DEPTH = 5000'
Abandonment.....

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.

Signed: mark c. ehard
Squares: N S E W

WELL OPERATOR/
Company PALEO, INC.
Address SUITE 205-MAY-EX-BLDG 3022 N.W. EXPRESSWAY
OKLAHOMA CITY, OKLAHOMA 73112

Farm JOSEPH HINTER

Tract _____ Acres 62.63 Lease No. _____

Well (Farm) No. 7621 Serial No. _____

Elevation (Spirit Level) 852' WC

Quadrangle NEW MILTON 7.5' VADIS 15'

County DODDRIDGE District COVE

Surveyor MARK C. ECHARD

Surveyor's Registration No. 490

File No. _____ Drawing No. _____

Date AUGUST 30, 1979 Scale 1" = 500'

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

WELL LOCATION MAP
API. 47-017-
FILE NO. 017-2486

+ 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.
SEP 24 1979
- Denotes one inch spaces on border line of original tracing.

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

Date November 15, 1979

FORM IV-35
(Obverse)

Operator's
Well No. Hinter #I-621

[08-78]

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

API Well No. 47 - 017 - 2486
State County Permit

TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
Elevation: 852' Watershed: Little Cove Creek
District: Cove County: Doddridge Quadrangle: New Milton

OPERATOR Paleo, Inc. DESIGNATED AGENT Terry Bonnett
Address 3022 N.W. Expressway Address Troy, WV
Oklahoma City, OK 73112

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

PERMIT ISSUED ON September 5, 19 79

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

LOGICAL TARGET FORMATION: Elk Depth 5116 feet

Depth of completed well, 5230 feet Rotary X / Cable Tools ___

Water strata depth: Fresh, 128 feet; salt, ___ feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced October 5, 19 79, and completed October 11, 1979

DRILLING AND TUBING PROGRAM

DRILLING 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	8 5/8					1144	1144	To surface
Gal								Sizes
Intermediate								
Production	4 1/2						5143	625 sks
Tubing								Depths set
Packers								Perforations:
								Top Bottom

RECEIVED
NOV 29 1979

OPEN FLOW DATA

Producing formation ALEX. Elk Zone depth 5116 feet

Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d

Final open flow, 605 Mcf/d Final open flow, ___ Bbl/d

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

Static rock pressure, 1750 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

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

Fractured October 19, 1979

Elk - 30,000 lb. 80/100 sand
50,000 lb. 20/40 sand
injection rate - 32 BPM at 1600 lb.
767 bbls water
1600 lb. breakdown

Perforations - 4998 - 5116, 12 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Surface			0	98	Water at 51', 60'
Shale			88	122	
Sand			122	128	Water
Shale			128	208	
Red Rock			208	240	
Shale			240	420	
Red Rock			420	441	
Shale			441	890	
Sand			890	921	
Shale			921	1241	
Sand			1241	1283	
Shale			1283	1421	
Sand			1421	1501	
Shale			1501	1800	
Lime			1800	1820	
Slate			1820	1824	
Sandy Shale			1824	1840	
Lime			1840	1914	
Sandy Lime			1914	1928	
Lime			1928	1970	
Sand			1970	1992	Show of gas & oil
Lime			1992	2000	
Shale			2000	2085	
Sandy Shale			2085	2190	
Shale			2190	2495	
Sand			2495	2510	Show of gas
Shale			2510	3145	
Sand			3145	3170	Show of gas
Shale			3170	4310	
Sandy Shale			4310	4320	Show of gas
Shale			4320	4645	
Sandy Shale <i>BENSON</i>			4645	4650	
Shale			4650	4993	
Sandy Shale <i>ALEX</i>			4993	5120	Show of gas
Shale			5120	5230	
Total Depth			5230		

(Attach separate sheets to complete as necessary)

Paleo, Inc.

Well Operator

By

Mark R. Worl

Its

Agent

NOTE: Regulation 2.02(i) provides as follows:

"The operator of a well shall keep a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

RECEIVED
JUL 07 1988

Page 1 of 4
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: July 7, 1988
2) Operator's well number
 Hinter #I-621
3) API Well No: 47 - 017 - 2486 -FRAC
 State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Joseph Hinter
Address New Milton, WV 26411

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Mike Underwood
Address Route 2 - Box 114
 Salem, WV 26426
Telephone (304)- 782-1043

5) (a) Coal Operator:
Name NA
Address _____

(b) Coal Owner(s) with Declaration
Name NA
Address _____

Name _____
Address _____

(c) Coal Lessee with Declaration
Name NA
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- X Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Rockwell Petroleum Company.
By: Marcie Worl Kirchberg
Its: Agent
Address PO Box 179
 Glenville, WV 26351
Telephone 304-462-8191

Subscribed and sworn before me this 7 day of July, 19 88

Richard Craig Worl Notary Public
My commission expires June 17, 1993

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Rockwell Petroleum Company 42925, 2,510
- 2) Operator's Well Number: Hinter #I-621 3) Elevation: 852
- 4) Well type: (a) Oil / or Gas / Restimulate
 (b) If Gas: Production / Underground Storage / Frac X
 Deep / Shallow
- 5) Proposed Target Formation(s): Big Injun - Going to frac the Big Injun
- 6) Proposed Total Depth: 5230 feet
- 7) Approximate fresh water strata depths: 128
- 8) Approximate salt water depths: 0
- 9) Approximate coal seam depths: 0
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: Restimulation - Going to frac the Big Injun
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water	8 5/8			1144	1144	To Surface
Coal						
Intermediate						
Production	4 1/2				5143	625
Tubing	1 1/2				5000	
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

RECEIVED
 JUL 07 1988

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50 Blanket OK Agent
 (Type)

COPY

Date: September 5, 1979

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Hinte #I-621

API Well No. 47-017-2486
State County Permit

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

LOCATION: Elevation: 852' Watershed: Little Cove Creek
District: Cove County: Doddridge Quadrangle: New Milton 7.5

WELL OPERATOR Paleo, Inc.
Address: 3022 N.W. Expressway
Oklahoma City, OK 73112

DESIGNATED AGENT Terry Bonnett
Address Troy, WV

OIL & GAS ROYALTY OWNER Joseph Hinte
Address New Milton, WV

COAL OPERATOR None
Address _____

Acreage 62.63

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Joseph Hinte
Address New Milton, WV

Name None
Address _____

Acreage 62.63

Name None
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

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

RECORDED
SEP - 6 1979

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated October 26, 19 78, to the undersigned well operator from Consolidated Gas Supply Corporation

[If said deed, lease, or other contract has been recorded:]
Recorded on Not of record, 19 , in the office of the Clerk of the County Commission of _____ County, West Virginia, in _____ Book _____ at page _____. 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
615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Paleo, Inc.
Well Operator
By Mark R. Wool
Its Agent

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Union Drilling, Inc.
Address Drawer 40
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5000 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 140 feet; salt, feet.

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

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	8 5/8					1150	1150	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2						5000	160 sks	Depths set
Tubing									
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.

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 5-7-80.

[Signature]
Director, Oil & Gas Division

The Department's 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