

DESIGNATED AGENT:
 GA L. SMYTHE
 GLENVILLE, W. VA

Minimum Error of Closure ONE PART IN 200'

Source of Elevation USGS SPOT ELEVATION NORTH OF LOC. 1500'

TOP OF KNOR ELEVATION = 1446'

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..... GAS-DRILL-SHALLOW DEVONIAN SHALE: EST. DEPTH - 5200'
- Drill Deeper.....
- Abandonment.....

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

Map No.

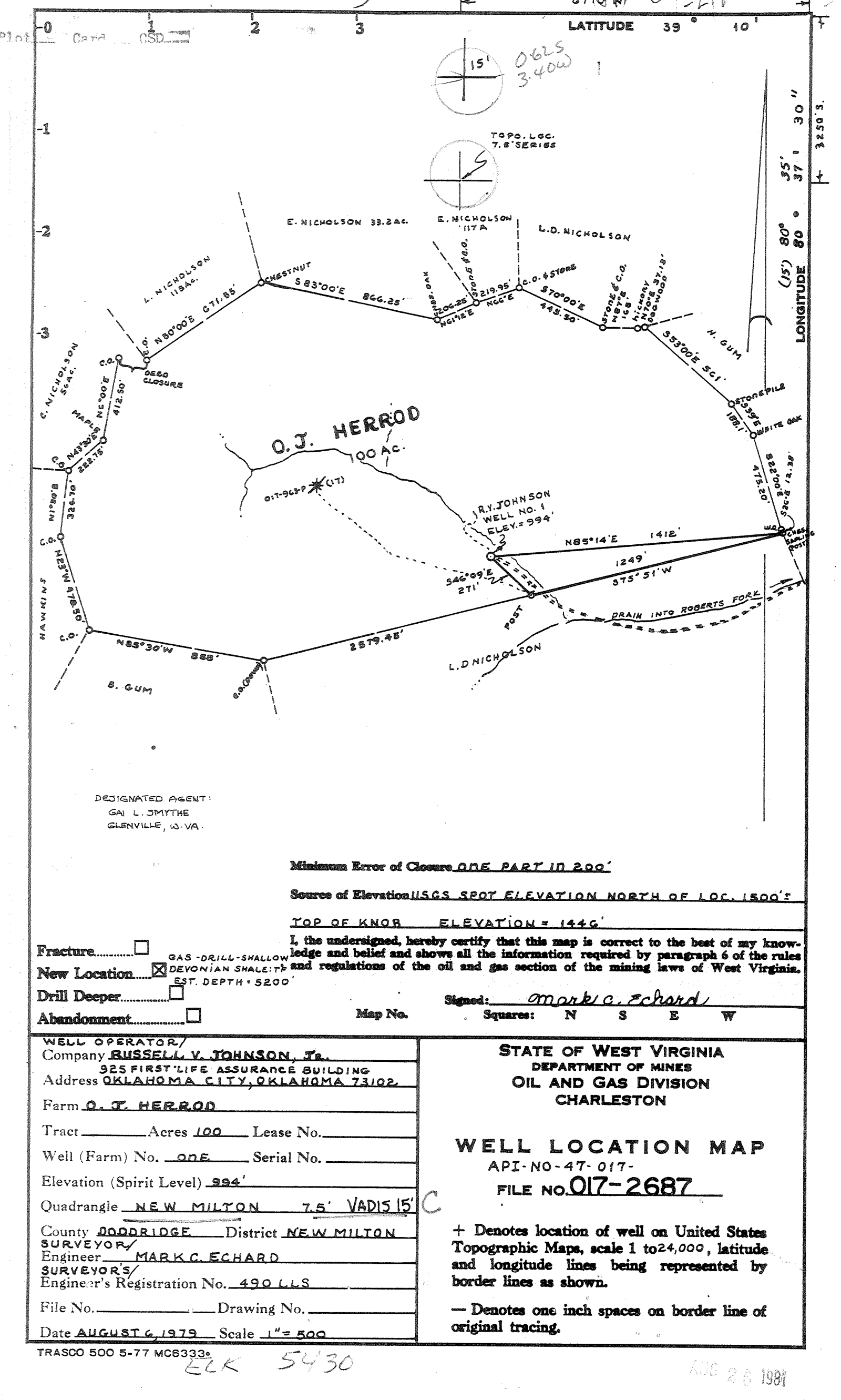
WELL OPERATOR/ Company <u>RUSSELL V. JOHNSON, Jr.</u> Address <u>925 FIRST LIFE ASSURANCE BUILDING OKLAHOMA CITY, OKLAHOMA 73102</u>
Farm <u>O. J. HERROD</u>
Tract _____ Acres <u>100</u> Lease No. _____
Well (Farm) No. <u>00E</u> Serial No. _____
Elevation (Spirit Level) <u>994'</u>
Quadrangle <u>NEW MILTON 7.5' VAD15 15'</u>
County <u>DODDRIDGE</u> District <u>NEW MILTON</u>
SURVEYOR/ Engineer <u>MARK C. ECHARD</u>
SURVEYOR'S/ Engineer's Registration No. <u>490 LLS</u>
File No. _____ Drawing No. _____
Date <u>AUGUST 6, 1979</u> Scale <u>1" = 500'</u>

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

WELL LOCATION MAP
 API-NO-47-017-
 FILE NO. 017-2687

+ 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.



DESIGNATED AGENT:
GAI L. JMYTHE
GLENNVILLE, W. VA.

Minimum Error of Closure ONE PART IN 200'

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- Fracture.....
- New Location..... GAS-DRILL-SHALLOW DEVONIAN SHALE: T_F EST. DEPTH = 5200'
- Drill Deeper.....
- Abandonment.....

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

Map No.

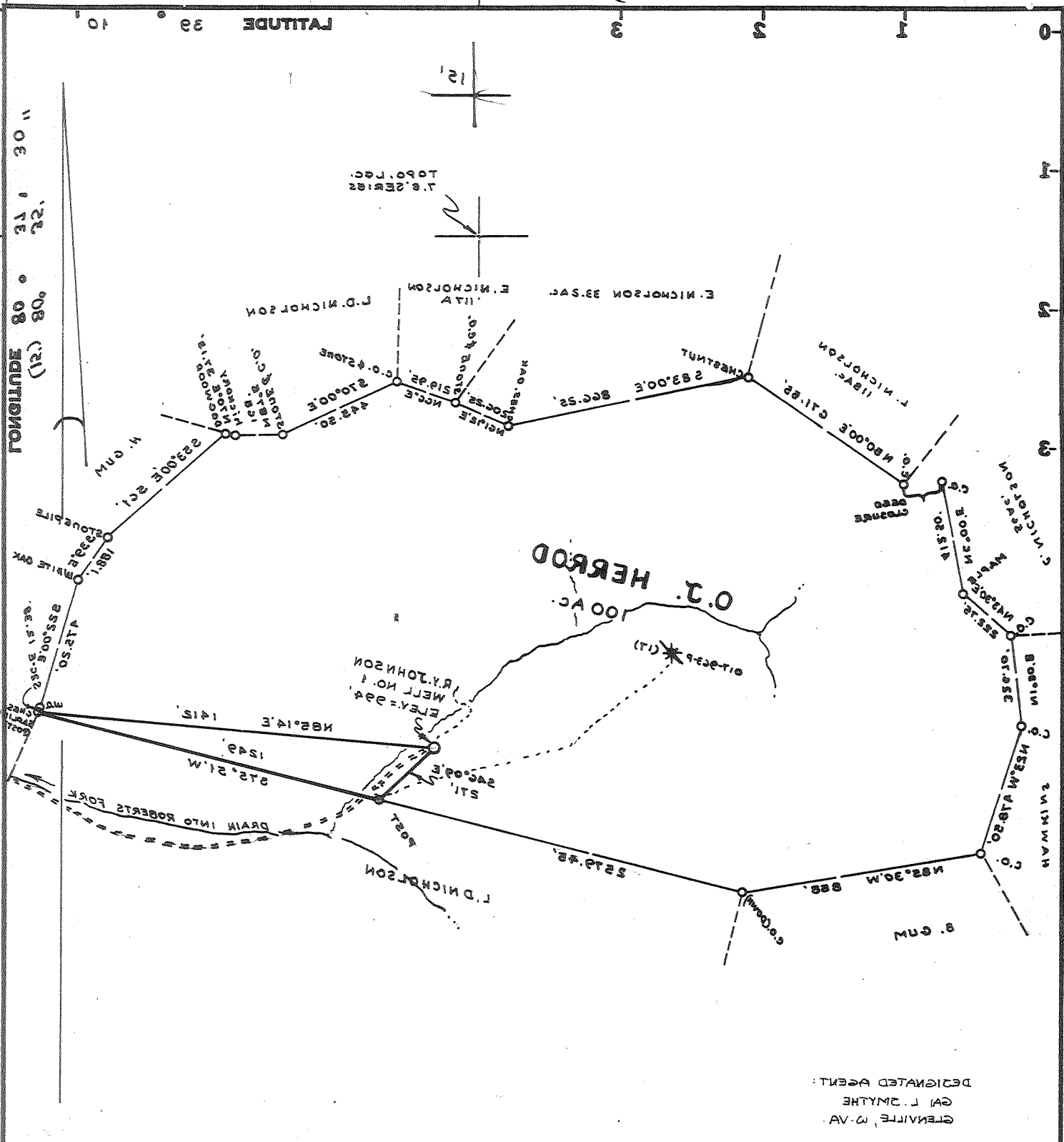
WELL OPERATOR/ Company <u>RUSSELL V. JOHNSON, Jr.</u> Address <u>925 FIRST LIFE ASSURANCE BUILDING OKLAHOMA CITY, OKLAHOMA 73102</u>
Farm <u>O. J. HERROD</u>
Tract _____ Acres <u>100</u> Lease No. _____
Well (Farm) No. <u>ONE</u> Serial No. _____
Elevation (Spirit Level) <u>994'</u>
Quadrangle <u>NEW MILTON</u> <u>7.5'</u> <u>VAD1515'</u>
County <u>DODDRIDGE</u> District <u>NEW MILTON</u>
SURVEYOR/ Engineer <u>MARK C. ECHARD</u>
SURVEYOR'S/ Engineer's Registration No. <u>490 LLS</u>
File No. _____ Drawing No. _____
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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
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DESIGNATED AGENT:
GAI L. SMYTHE
GLENVILLE, W. VA.

Minimum Error of Closure ONE PART IN 500.

Sources of Elevation USGS SPOT ELEVATION NORTH OF LOC. 1500?

TOP OF KNOR ELEVATION = 1440

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.

EST. DEPTH = 2500
DEVIANT SHALE: TR
GAS-DRILL-SHALLOW

Abandonment
Drill Deeper
New Location
Fracture

Map No. _____
Signed: Mark C. Echaro
Surveyors: N S E W

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

WELL LOCATION MAP
API-NO-47-017-
FILE NO. 017-2687

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

DATE AUGUST 1929 Scale 1" = 500'	File No. _____	Drawing No. _____	Engineer's Registration No. 490 C.L.S.	Engineer's Registration No. 490 C.L.S.	Engineer's Registration No. 490 C.L.S.	Engineer's Registration No. 490 C.L.S.	Engineer's Registration No. 490 C.L.S.	Engineer's Registration No. 490 C.L.S.	Engineer's Registration No. 490 C.L.S.
County DODD BRIDGE District NEW MILTON	Quadrangle NEW MILTON T.S. VADIS 15'	Elevation (Spirit Level) 224'	Well (Farm) No. one Serial No. _____	Tract _____ Acres 100 Lease No. _____	Farm O. J. HERROD	Address OKLAHOMA CITY, OKLAHOMA 73105	925 FIRST LIFE ASSURANCE BUILDING	Company RUSSELL V. JOHNSON, JR.	WELL OPERATOR



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle New Milton

Permit No. 2687

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

Company Russell V. Johnson, Jr.
Address P.O. Drawer "L", Glenville, WV
Farm O.J. Herrod, Jr. Acres 100
Location (waters) Roberts Fork
Well No. One Elev. 994'
District New Milton County Doddridge
The surface of tract is owned in fee by _____
O.J. Herrod, Jr.
Address _____ Ohio
Mineral rights are owned by O.J. Herrod, Sr.
Address Salem, WV
Drilling Commenced 6/21/80
Drilling Completed 6/24/80
Initial open flow 522 cu. ft. _____ bbls.
Final production BELOW cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			346 sks.
Cond. 13-10"			
4 5/8			
4 5/8	1161'	1161'	
5 1/2			
4 1/2		5324	
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

WG12	450#		
15N	21 gal.	11 holes	5261 to 4940
CLASTA	15 gal.		
80/100	22000#	BBLs. - 509	
20/40	45000#		

500 MCE

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water Benson Feet _____
Producing Sand Elk and Benson Depth 4923-5316

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	20	water 1" 35	water
Sand			20	60		
Coal			60	70		
Sand			70	120		
Shale			120	130		
Sand			130	205		
Red Rock & Shale			205	765		
Sand			765	775		
Red Rock & Shale			775	1000		
Sand & Shale			1000	1045		
Red Rock & Shale			1045	1180		
Sand & Shale			1180	1221		1221' TD 11' hole
Shale & Red Rock			1221	1552		
Sand			1552	1555		
Shale & Sand			1555	1628		
Shale			1628	1683	damp @ 1616	
Sand			1683	1727		
Shale			1727	1846		
Sand			1846	1850		
Shale			1850	1900		
Sand			1900	1905		
Shale			1905	1922		
Sand			1922	1927		

(OVER)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			1927	1965		
Sand & Shale			1965	1980	Damp	16-16
Shale			1980	2008		
1st Lime			2008	2020		
Shale			2020	2046		
Big Lime			2036	2105		
Big Injun			2105	2193	44/10-1"M	
Shale			2193	2228		
Weir			2228	2334	Elk 5221-5316	
Shale			2334	2440	Shale 5316	
Gantz			2440	2567	Logger's TD	5395
Shale			2567	2984		
Sandy Shale			2984	3012		
Shale			3012	3291		
Limey Shale			3291	3395		
Shale			3395	4447		
Sandy Shale			4447	4473		
Shale			4473	4923		
Benson			4923	4937	21/10-1"M	
Shale			4937	5221		
Init. Flow: 200, 0 Bbl						
Final : 500, - Bbl						
Well Open : 12 hrs., - RP						

Date _____

APPROVED _____

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. O.J. Herrod #1

API Well No. 47 - 017 2687
State County Form

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

LOCATION: Elevation: 994' Watershed: Roberts Fork
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR Russell V. Johnson, Jr.
Address Drawer "L"
Glennville, WV 26351

DESIGNATED AGENT Gai L. Smythe
Address Drawer "L"
Glennville, WV 26351

OIL & GAS ROYALTY OWNER O. J. Herrod et al
Address _____

COAL OPERATOR N/A
Address _____

Acreage 100 Ac.

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER O. J. Herrod, Jr.
Address _____

Name N/A
Address _____

Acreage 100 Ac.

Name N/A

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

Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, WV 26301

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

RECEIVED

APR 21 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 _____, 19____, to the undersigned well operator from Rockwell Petroleum Company **MINES**

[If said deed, lease, or other contract has been recorded:]

Recorded on _____, 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
1618 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 342-3092

BLANKET BOND

Russell V. Johnson, Jr.
Well Operator

By Gai L. Smythe
Partner

[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) unknown

Address _____

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5430 feet Rotary / Cable tools /

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

Approximate coal seam depths: ----- 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	11-3/4			X		30'	30'	Kinds
Fresh water	8-5/8		20.0	X		1127'	1127'	305 sks
Coal								Sizes
Intermediate								
Production	4 1/2		9.5	X			5300'	180 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 12-24-80.

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 _____

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. O.J. Herrod #1

API Well No. 17 - 017 - 2687

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

LOCATION: Elevation: 994' Watershed: Roberts Fork
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR Russell V. Johnson, Jr.
Address Drawer "L"
Glenville, WV 26351

DESIGNATED AGENT Gai L. Smythe
Address Drawer "L"
Glenville, WV 26351
(462-7316 ext. 117)

OIL & GAS ROYALTY OWNER O. J. Herrod et al
Address _____

COAL OPERATOR N/A
Address _____

Acreage 100 Ac.
SURFACE OWNER O. J. Herrod, Jr.
Address _____

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Acreage 100 Ac.
FIELD SALE (IF MADE) TO:
Name N/A
Address _____

Name N/A
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, WV 26301

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

RECEIVED
APR 21 1980

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed lease other contract assignment dated _____
undersigned well operator from Rockwell Petroleum Company

[If said deed, lease, or other contract has been recorded:]
Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____ County, West Virginia, in _____ Book _____ at page _____. A permit is requested to _____

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 GEOLOGICAL AND GEOPHYSICAL LOGS DIRECTLY TO:
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401 WASHINGTON STREET EAST
CHARLESTON, WV 25301
TELEPHONE: (304) 342-2000

BLANKET BOND

Russell V. Johnson, Jr.
Well Operator
By Gai L. Smythe
Partner

AUG 23 1981

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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	11-3/4			X		30'	30'		Kinds
Fresh water	8-5/8		20.0	X		1127'	1127'	305 sks	
Coal									Sizes
Intermediate									
Production	4 1/2		9.5	X			5300'	180 sks	Depths set
Tubing									
Liners									Perforations:
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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 drilling within 200 feet of the proposed well.

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Robert L. [Signature]

Deputy Director - Oil & Gas Division

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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 _____