

New Location
 Drill Deeper - 7/20/83
 Abandonment

Company Perkins Oil and Gas Inc
 Address Rt. 2, Pennsboro W. Va. 26415
 Farm Lelia Washburn et al.
 Tract _____ Acres 150 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1025
 Quadrangle West Union / Pennsboro
 County Tyler District Centerville
 Engineer Parker G. Peters
 Engineer's Registration No. 485
 File No. _____ Drawing No. _____
 Date July 2, 1962 Scale 1" = 30 P.

675

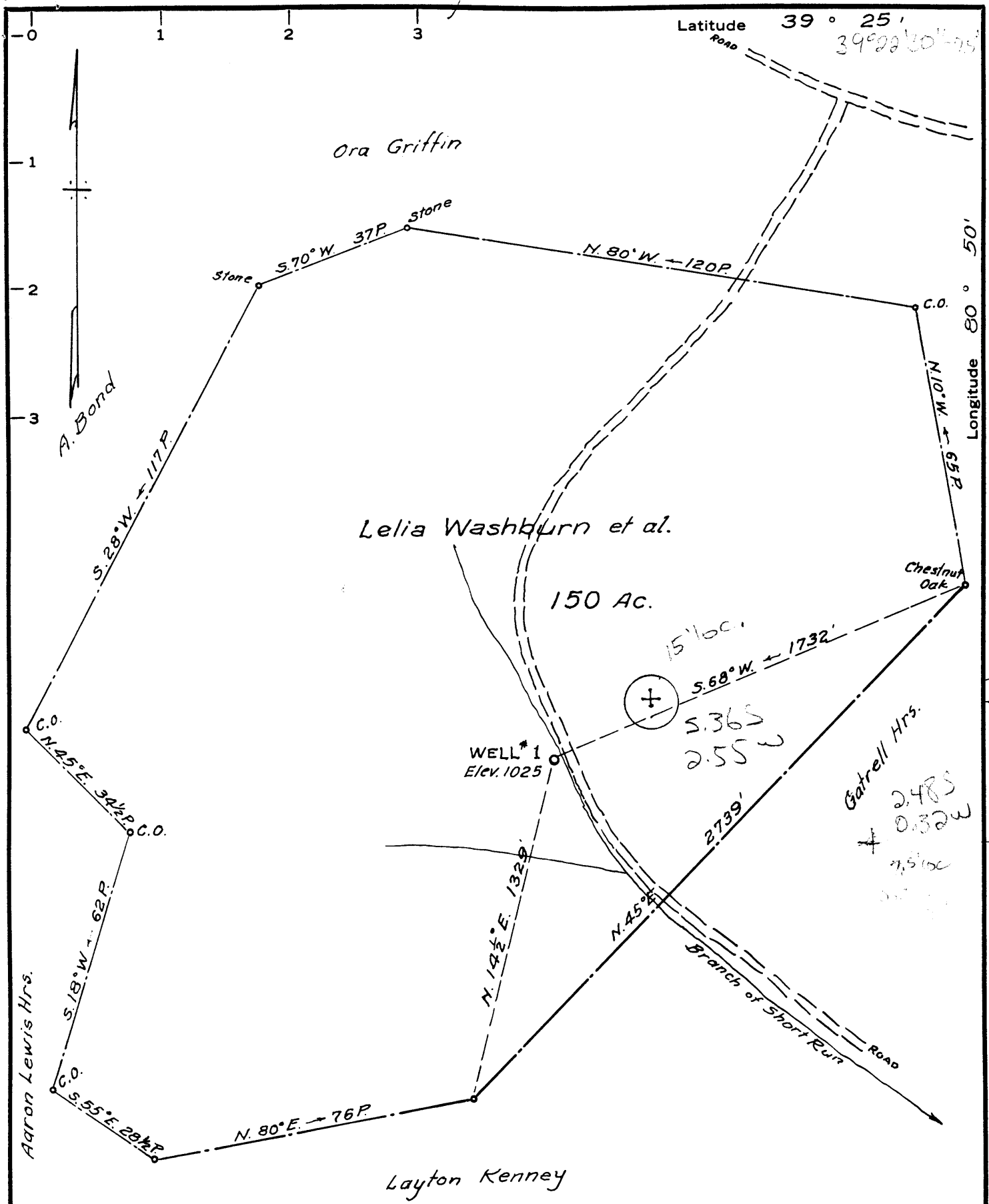
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. JYL-349-DD

+ 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.

47-095



New Location
 Drill Deeper - 7/20/83
 Abandonment

Company Perkins Oil and Gas Inc
 Address Rt. 2 - Pennsboro W Va 26415
 Farm Lelia Washburn et al.
 Tract _____ Acres 150 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1025 133 539
 Quadrangle West Union Pennsboro 7.5'
 County Tyler District Centerville
 Engineer Parker E. Peters
 Engineer's Registration No. 485
 File No. _____ Drawing No. _____
 Date July 2, 1962 Scale 1" = 30 P.

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

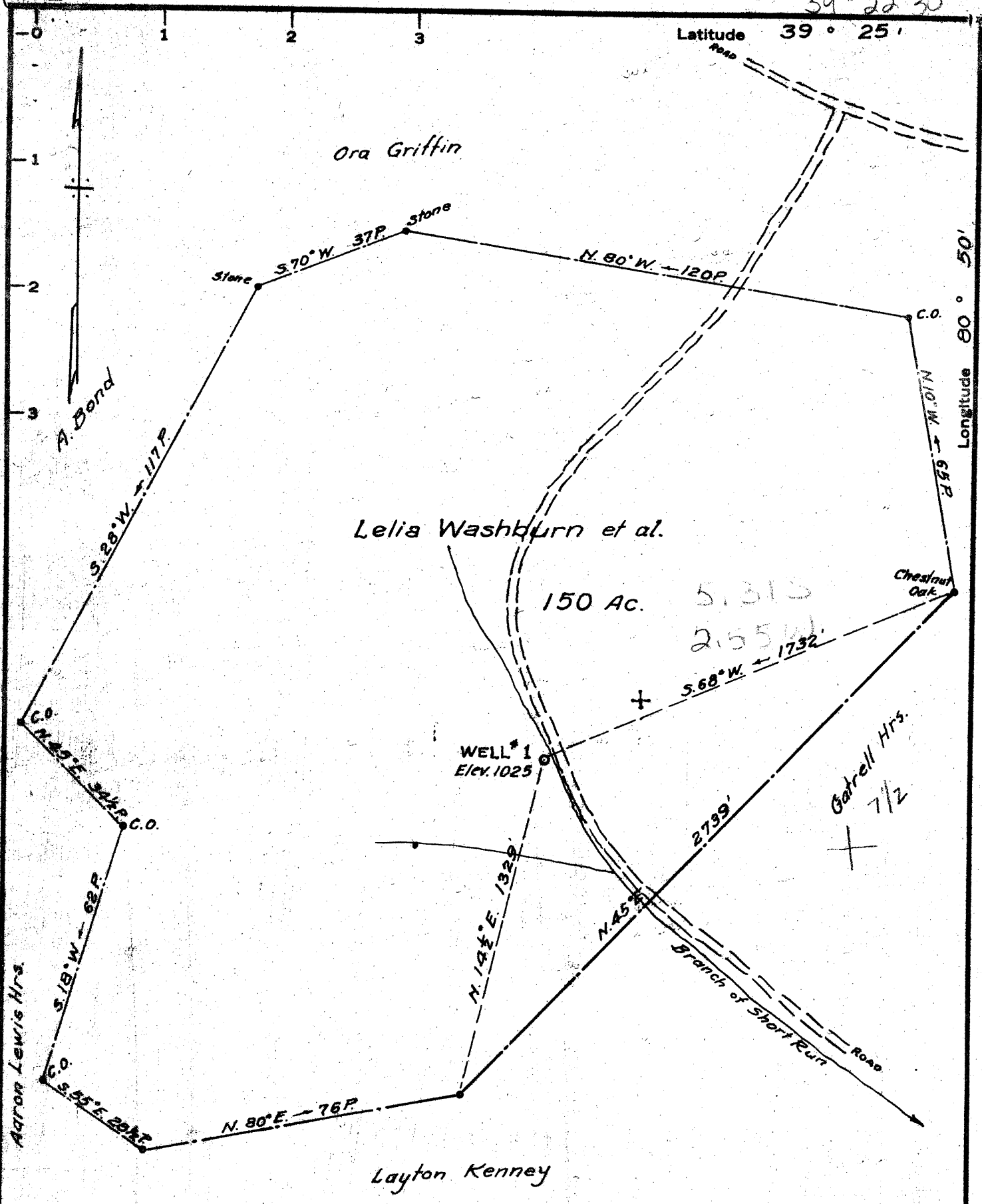
WELL LOCATION MAP
 FILE NO. JYL-349-DD

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

47-095

39-22-30-716



New Location
 Drill Deeper
 Abandonment

Company Hanlon Oil Co.
 Address 727 1/2 Wells St, Sistersville, W. Va
 Farm Lelia Washburn et al.
 Tract _____ Acres 150 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1025
 Quadrangle West Union C
 County Tyler District Centerville
 Engineer Parker E. Peters
 Engineer's Registration No. 485
 File No. _____ Drawing No. _____
 Date July 2, 1962 Scale 1" = 30 P.

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

WELL LOCATION MAP
 FILE NO. JYL-349

+ 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.

Samples 1025 to 2065

5-80



777777
RECEIVED
MAR 17 1988

WR-35

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date March 5, 1988
Operator's
Well No. 1
Farm Washburn
API No. 47-095-0349

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

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

LOCATION: Elevation: 1025 Watershed Shart Run
District: Centerville County Tyler Quadrangle Pennsboro 7.5'

COMPANY Perkins Oil & Gas Inc
ADDRESS Rt 2, Pennsboro WV 26415
DESIGNATED AGENT Deryl L Perkins
ADDRESS Rt 2, Pennsboro WV 26415
SURFACE OWNER Glen James
ADDRESS Akron, Ohio
MINERAL RIGHTS OWNER Ralph Washburn
ADDRESS Williamstown, WV 26187
OIL AND GAS INSPECTOR FOR THIS WORK Robert
Lowther ADDRESS Middlebourne WV
PERMIT ISSUED 9/18/87
DRILLING COMMENCED 11/15/87
Fracture
~~DRILLING COMPLETED~~ Nov 16, 1987

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Ca. ft.
Size 20-16			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2	2015	2015	NA
4 1/2			
3		2700	1500 lbs fracture
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Gordon, Weir Depth feet
Depth of completed well 2700 feet Rotary ___ / Cable Tools ___
Water strata depth: Fresh feet; Salt feet
Coal seam depths: Is coal being mined in the area?

OPEN FLOW DATA
Producing formation Gordon, Weir Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow (50) Mcf/d Final open flow (show) Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 475 psig (surface measurement) after 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 Oil: 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.

Frac 10-12-87 with 350 bbl water and 41000# 20/40 sand

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MAR 17 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fractures and salt water, coal, oil and gas
SEE ORIGINAL WELL RECORD					

(Attach separate sheets as necessary)

PERKINS OIL & GAS INC

Well Operator

By: *Deryl L. Perkisn*

Date: March 7, 1988

Deryl L. Perkisn
Vice President

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."

471



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date May 25, 1987
Operator's
Well No. 1
Farm Lelia Washburn
API No. 47-095-0349-DD

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

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

LOCATION: Elevation: 1025 Watershed _____ Short Run _____
District: Centerville County Tyler Quadrangle West Union

COMPANY Perkins Oil & Gas, Inc.
ADDRESS Rt. 2, Pennsboro, WV 26415
DESIGNATED AGENT Deryl Perkins
ADDRESS Rt. 2, Pennsboro, WV 26415
SURFACE OWNER Glen James
ADDRESS Akron, Ohio
MINERAL RIGHTS OWNER Ralph Washburn et al
ADDRESS Williamstown, WV 26187
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Middlebourne, WV
PERMIT ISSUED July 20, 1983
DRILLING COMMENCED After July 20, 1983
DRILLING COMPLETED March 2, 1987
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	RECEIVED JUN 22 1987 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY		
13-10"			
9 5/8			
8 5/8			
7			
5 1/2		2015	unknown
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson (Lost tools and wire) Depth 4900 feet
Depth of completed well 2700 feet Rotary ___ / Cable Tools X
Water strata depth: Fresh 67 feet; Salt ___ feet
Coal seam depths: None Is coal being mined in the area? no

OPEN FLOW DATA None was run since no new producing horizon is open.
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
(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 Oil: 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

(Continue on reverse side)

JUL 6 1987

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

No treatment or stimulation was made due to failure to successfully deepen the well.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
<p>No log was run since the well was not open to any new producing formations.</p>					
<p>Hole was drilled to 4840'. Wire line stranded and left forty feet of tools on bottom and wire line up hole to 3053'.</p>					
<p>Attempts were made to whip stock around the wire. A whipstock was set at 3037'. Spear was hung at 3045' and two joints of drill pipe were left at 2975'. Another whipstock was set at 2975'. It did not take. Cemented back to 2672' and set another whipstock. Drilled around it. Stopped at 2702'. The well is still producing from the <u>Injun Sand at 1898'-1907'</u>.</p>					<p>new TD, 4840 old TD, 2015 new ftg 2825</p>

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JUN 22 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Perkins Oil & Gas, Inc.
Well Operator

By: Dayle L Perkins

Date: June 19, 1987

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."

9157

JUL 6 1987



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 34

Quadrangle West Union

Permit No. TYL-349

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Hanlon Oil Company
Address 727 1/2 Wells St., Sistersville, W. Va.
Farm Lelia Washburn et al Acres 150
Location (waters) _____
Well No. 1 A Elev. 1025'
District Centerville County Tyler
The surface of tract is owned in fee by Lelia Washburn
423-58th Street, Address Vienna, W. Va.
Mineral rights are owned by Lelia Washburn and others,
423-58th Street, Address Vienna, W. Va.
Drilling commenced 8-17-62
Drilling completed 9-27-62
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 140 M Cu. Ft.
Rock Pressure 615 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	550	Pulled	Size of
8 3/4	1218	Pulled	
6 3/4	1826	Pulled	Depth set
5 3/16	2015	2015	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

WELL FRACTURED 10-7-62 500 bbls. water; 1800# sand, 3500 gals. acid

RESULT AFTER TREATMENT 96 MCF
ROCK PRESSURE AFTER TREATMENT 435 lbs. 24 hrs.
Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandy			0	20			
Lime			20	30			
Red Rock			30	45			
Lime			45	50			
Red Rock			50	120	Water at	67 feet	Hole Full
Slate			120	200			
Red Rock			200	220			
Slate			220	250			
Red Rock			250	260			
Sand			300	370			
Slate			370	380			
Lime			380	390			
Red Rock			390	470			
Slate			470	500			
Red Rock			500	560			
Sand		hard	560	575			
Slate & Shells			575	675			
Sand			675	700			
Lime			700	720			
Red Rock 72			720	790			
Sand			790	810			
Slate	Dark		810	825			
Lime			825	840			
Sand			840	885			
Slate	Black		885	915			
Red Rock			915	950			
Lime			950	970			
Slate			970	1030			
Sand			1030	1070			

Location moved south down creek 30 feet from original site



Formation	Color	Hard or Soft	Top ³⁴	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1070	1125			
Sand-			1125	1205			
Slate			1205	1315			
Sand			1315	1337			
Slate			1337	1357			
Sand			1357	1430			
Slate			1430	1471			
Sand			1471	1511			
Slate			1511	1534			
Sand			1534	1569			
Slate			1569	1597			
Sand			1597	1625			
Slate			1625	1631			
Sand			1631	1640			
Slate			1640	1725			
Sand			1725	1734			
			Depth Correction				
				to 1756			
Little Lime			1756	1772			
Pencil Cave			1772	1782			
Big Lime			1782	1888			
Keener			1888	1912			
Big Injun			1912	1994			
Slate	dark	hard	1994	2015	Show of gas 1897'		
Total Depth				2015			

1802
1025

777

Date October 23, 19 62

APPROVED Hubert L. Thompson Owner

By J. M. [Signature]
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION *117*

Quadrangle West Union

Dry Hole

Permit No. Tyl-349

WELL RECORD

Oil or Gas Well Incomplete
(KIND)

Company Hanlon Oil Co.
Address 727 1/2 Wells St., Sistersville, W. Va.
Farm Lelia Washburn et al Acres 150
Location (waters) _____
Well No. 1 Elev. 1025
District Centerville County Tyler
The surface of tract is owned in fee by Lelia Washburn
Address 423-58th St. Vienna,
Mineral rights are owned by Lelia Washburn and others,
423-58th Street Address Vienna, W. Va.
Drilling commenced 7/24/62
Drilling completed 8/17/62
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	480		Size of
8 1/4	1117		
6 5/8	1020	800	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

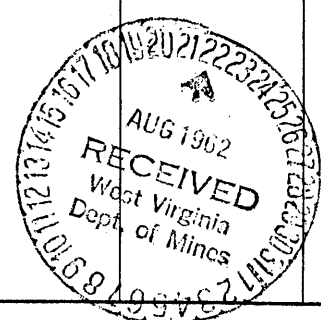
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandy			0	20			
Lime			20	30			
Red Rock			30	45			
Lime			45	50			
Red Rock			550	120	Water at	67 feet	Hole Full
Slate			120	200			
Red Rock			200	220			
Slate			220	250			
Red Rock			250	260			
Sand			300	370			
Slate			370	380			
Lime			380	390			
Red Rock			390	470			
Slate			470	500			
Red Rock			500	560			
Sand		hard	560	575			
Slate & shells			575	675			
Sand			675	700			
Lime			700	720			
Red Rock 72			720	790			
Sand			790	810			
Slate	Dark		810	825			
Lime			825	840			
Sand			840	885			
Slate	Black		885	915			
Red Rock			915	950			
Lime			950	970			
Slate			970	1030			
Sand			1030	1070			



Formation	Color	Hard or Soft	Top ⁴⁷	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1070	1125			
Sand			1125	1205			
Slate			1205	1315			
Sand			1315	1337			
Slate			1337	1357			
Sand			1357	1430			
Slate			1430	1471			
Sand			1471	1511			
Slate			1511	1534			
Sand ^{salt}			1534	1569			
Slate			1569	1597			
Sand ^{salt}			1597	1625			
Slate			1625	1631			
Sand			1631	1640			
Slate			1640	1725			
Sand ^{Ma}			1725	1734			
			Sept Correction				
			to 1756				
Little Lime			1756	1772			
Pencil Cave			1772	1782			
Big Lime			1782	1837			
			T. D.	1837			
			Hole Junked				

Date _____, 19____

APPROVED _____, Owner

By _____ (Title)



1) Date: May 13, 1983
 2) Operator's Well No. Washburn No. 1
 3) API Well No. 47 095 0349-DD
 State _____ County _____ Permit _____

DRILLING CONTRACTOR:

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

- 4) WELL TYPE: A Oil _____ / Gas X
 B (If "Gas", Production _____ / Underground storage _____ Deep _____ / Shallow X)
 5) LOCATION: Elevation: 1025 Watershed: Branch of Short Run
 District: Centerville County: Tyler Quadrangle: West Union
 6) WELL OPERATOR Perkins Oil & Gas, Inc. DESIGNATED AGENT Deryl L. Perkins
 Address Rt. 2 Address Rt. 2
Pennsboro, WV 26415 Pennsboro, WV 26415
 7) OIL & GAS ROYALTY OWNER Ralph Washburn et al
 Address 757 Caroline Drive
Williamstown, WV 26187
 Acreage 150
 8) SURFACE OWNER Glen James
 Address Akron, Ohio
 Acreage 150
 9) FIELD SALE (IF MADE) TO:
 Address _____
 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Homer Daugerty
 Address _____
 12) COAL OPERATOR None
 Address _____
 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name None
 Address _____
 Name None
 Address _____
 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name None
 Address _____

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 MAY 23 1983
 OIL & GAS DIVISION
 DEPT. OF MINES

- 15) PROPOSED WORK: Drill _____ / Drill deeper X / Redrill _____ / Fracture or stimulate X
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) Cement in 3 1/2" Pipe
 16) GEOLOGICAL TARGET FORMATION, Gordon
 17) Estimated depth of completed well, 3200 feet
 18) Approximate water strata depths: Fresh, 67 feet; salt, _____ feet.
 19) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No X

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water									Sizes
Coal									Depths set
Intermediate									Perforations: <u>As req by Rule 1501</u>
Production	<u>5 7/8</u>						<u>2015</u>		Top _____ Bottom _____
Tubing	<u>3 1/2</u>						<u>3200</u>		
Liners									

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

- 23) Required Copies (See reverse side.)
 24) 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.

Notary: Deryl L. Perkins Signed: Deryl L. Perkins
 My Commission Expires May 24, 1984 Its: _____

OFFICE USE ONLY
 DRILLING PERMIT

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires March 20, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>WF</u>
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Michael Lewis
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

(Observed) 7/85

RECEIVED
AUG 28 1987



1) Date: August 15, 19 87

2) Operator's Well No. Washburn # 1

3) API Well No. 47 - 095 - 0349 DD
State County Permit

Prac

538

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

- 4) WELL TYPE: A Oil / Gas X / B (If "Gas", Production X / Underground storage / Deep / Shallow X)
- 5) LOCATION: Elevation: 1025 Watershed: Short Run District: Centerville / County: Tyler 095 Quadrangle: Pennsboro 7.5'
- 6) WELL OPERATOR PERKINS OIL & GAS CO INC 37500 7) DESIGNATED AGENT Deryl L. Perkins
Address Rt 2 Pennsboro, WV 26415 Address Rt 2 Pennsboro, WV 26415
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther Address General Delivery Middlebourne, WV
- 9) DRILLING CONTRACTOR: Name Address
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate X / Plug off old formation / Perforate new formation / Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Weir, Gordon
- 12) Estimated depth of completed well, 2700 feet
- 13) Approximate trata depths: Fresh, 67 feet; salt, feet.
- 14) Approximate coal seam depths: Is coal being mined in the area? Yes / No

15) 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									
Coal									Sizes
Intermediate									
Production	5 3/16					2015	2015	?	Depths set
Tubing	3 1/2						2700	by rule 15.01	
Liners									Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-0349-DD

September 18 19 87

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires September 18, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ✓	Plat: [Signature]	Casing: [Signature]	Fee: 228	V.P.C.P. [Signature]	S&E: mw	Other:
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17859

John D. Johnston by Margaret [Signature]
Director, (Division of Oil and Gas) File

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

10747