

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION DODD GAS NO. 10 Well No. 3 - 1079'

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.
 (SIGNED) R. J. McWilliam
 R.P.E. _____ L.L.S. 105

R. J. McWilliam
 REGISTERED SURVEYOR
 STATE OF WEST VIRGINIA
 PLACE SEAL HERE

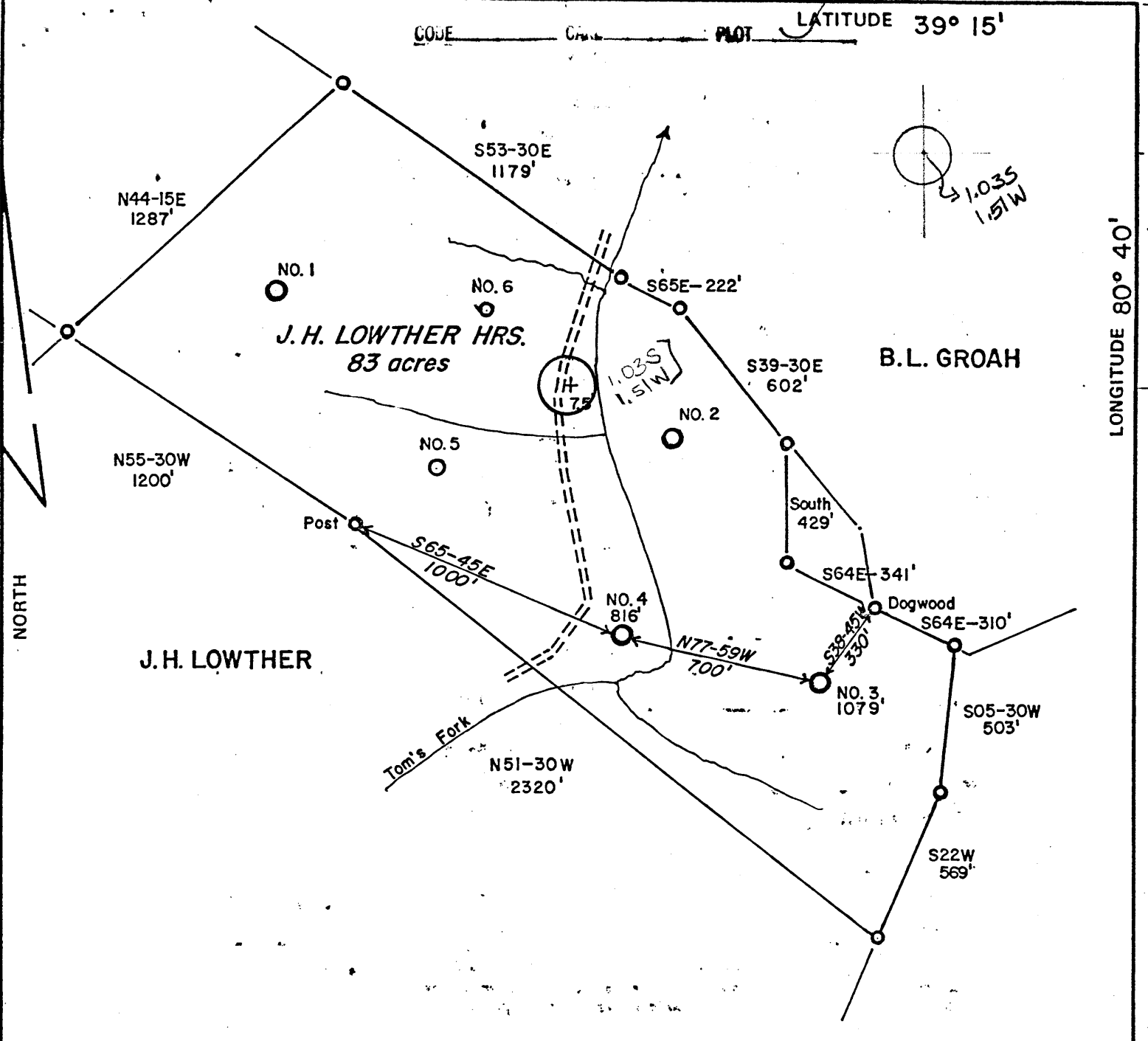
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE JUNE 11 1984
 OPERATOR'S WELL NO. 4
 API WELL NO. _____
47 - 017 - 0952-DD-Free
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: ELEVATION 816' WATER SHED Toms' Fork
 DISTRICT New Milton COUNTY Doddridge
 QUADRANGLE VADIS NW 12 New Milton 7 1/2'
 SURFACE OWNER Hazel E. Lowther ACREAGE 83
 OIL & GAS ROYALTY OWNER J.H. Lowther LEASE ACREAGE 83
 LEASE NO. _____
 PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER X REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Alton ESTIMATED DEPTH 5300'
 WELL OPERATOR George Jackson DESIGNATED AGENT George Jackson
 ADDRESS Box 1698 Clarksburg, W.V. ADDRESS Box 1698 Clarksburg, W.V.



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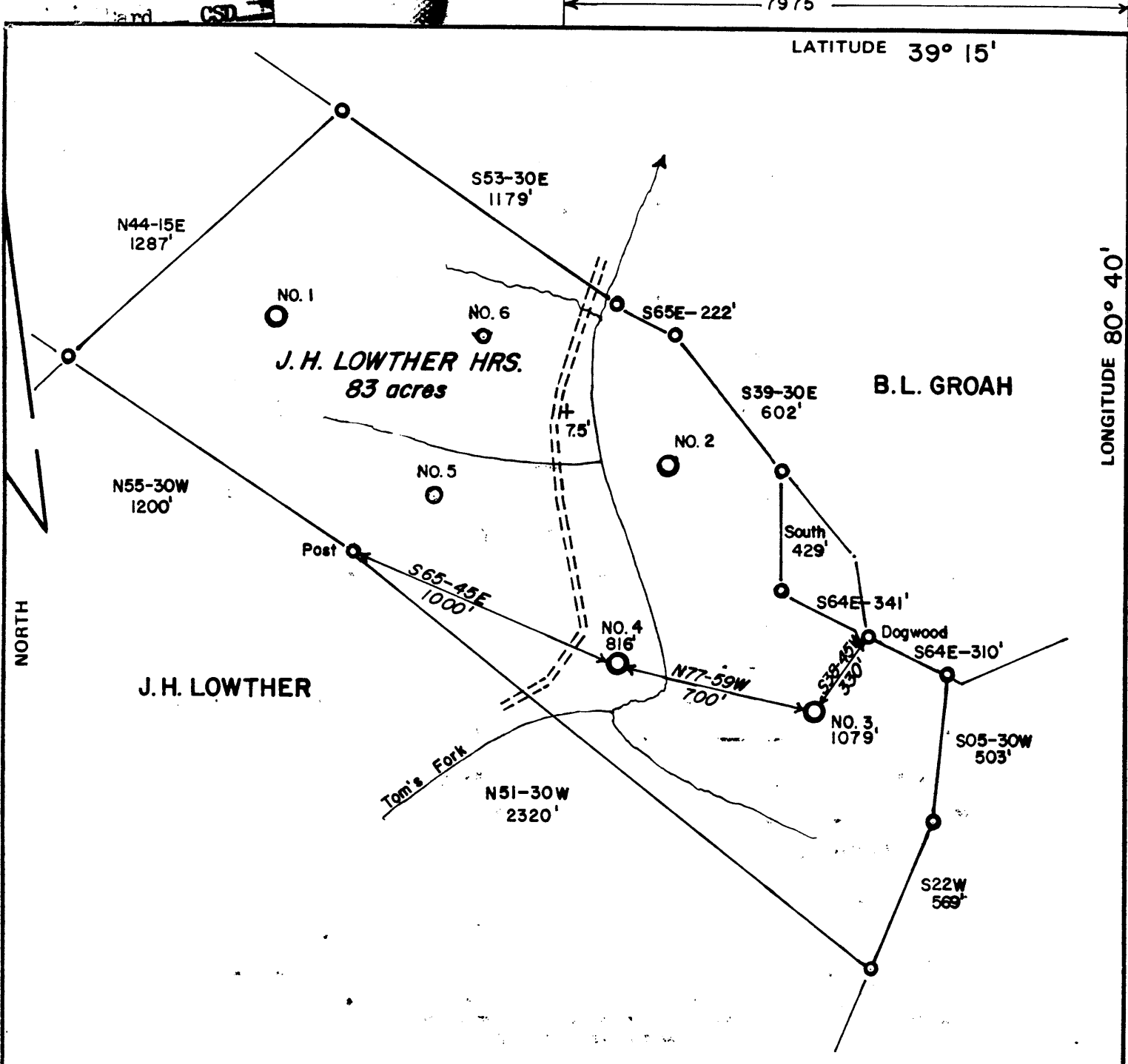
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE JUNE 11, 1984
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-017-0952-20
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 816' WATER SHED Toms' Fork
 DISTRICT New Milton COUNTY Doddridge
 QUADRANGLE VADIS NW 12 New Milton 7 1/2'
 SURFACE OWNER Hazel F. Lowther ACREAGE 83
 OIL & GAS ROYALTY OWNER J.H. Lowther LEASE ACREAGE 83
 LEASE NO. _____
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Alexander ESTIMATED DEPTH 5300'
 WELL OPERATOR George Jackson DESIGNATED AGENT George Jackson
 ADDRESS Box 1698 Clarksburg, W.V. ADDRESS Box 1698 Clarksburg, W.V.



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 (SIGNED) R. S. McWilliam
 R.P.E. _____ L.L.S. 105

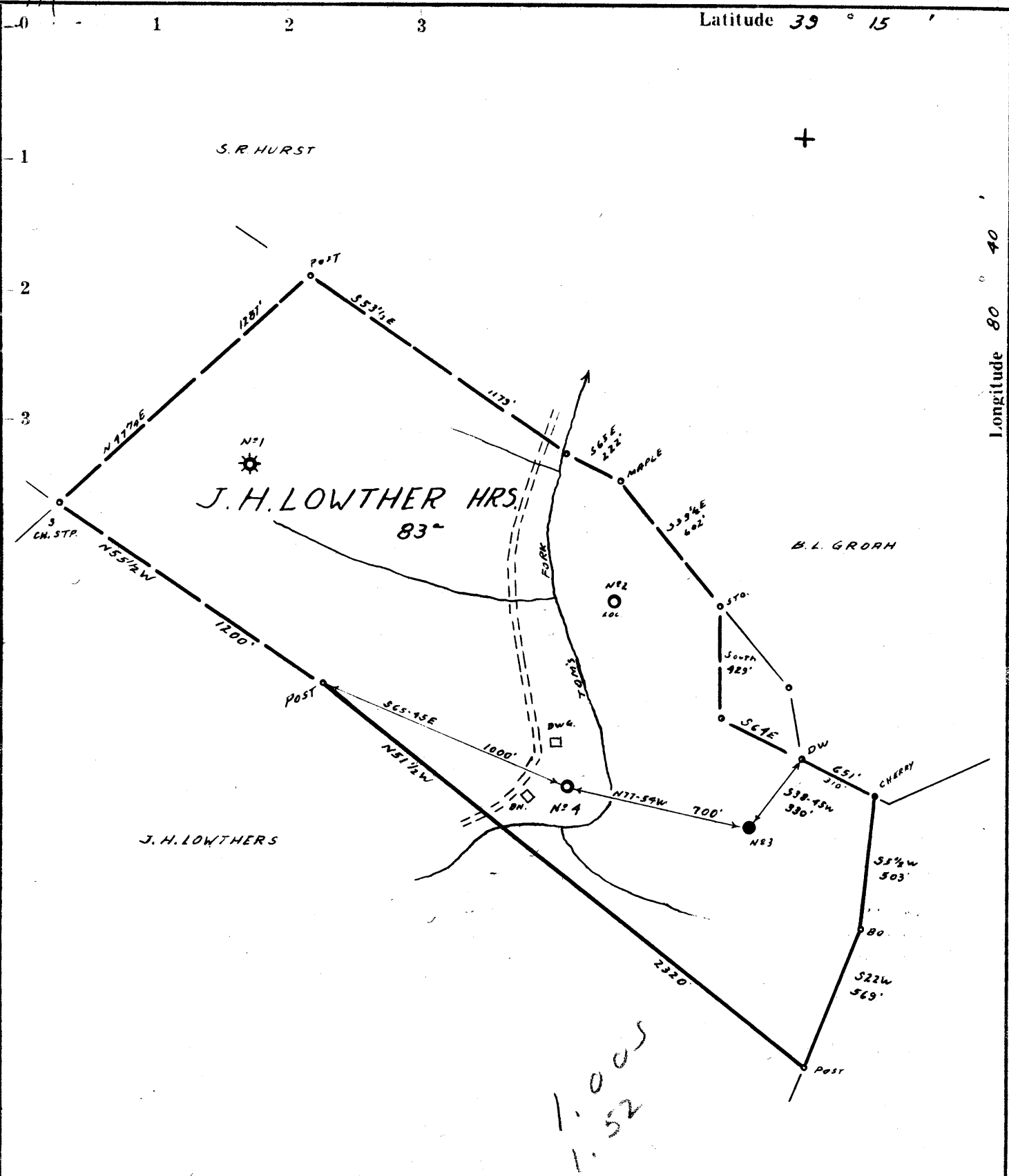
PLACE SEAL HERE

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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE JUNE 11, 1984
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-017-0952-DD-Free
 STATE COUNTY PERMIT

JUL 23 1984



Redrill.....
 New Location.
 Drill Deeper.....
 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.

Minimum accuracy, one part in 200

Company DODDRIDGE GAS N^o 10
 Address CLARKSBURG, W.VA.
 Farm J. H. LOWTHER HRS.
 Tract _____ Acres 83 Lease No. _____
 Well (Farm) No. _____ Serial No. 4
 Elevation (Spirit Level) 816' VA
 Quadrangle VADIS NW 1/2
 County DODDRIDGE District NEW MILTON
 Engineer Jamun Jeffers
 Engineer's Registration No. 1084
 File No. 206/64 Drawing No. _____
 Date 3-26-63 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. Dod-952

— 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.

RDMS

6-6-1974

FEAC



CORRECTED

IV-35
(Rev 8-81)

RECEIVED
OCT 16 1985

State of West Virginia
Department of Mines
Oil and Gas Division

Date August 9, 1985
Operator's Well No. Lowther #4 DD
Farm Hazel Lowther
API No. 47 - 017 - 0952-DD-
FRAC

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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 /)

LOCATION: Elevation: 816' Watershed Tom's Fork
District: New Milton County Doddridge Quadrangle New Milton 7.5

COMPANY George Jackson
ADDRESS P.O. Box 1698, Clarksburg, WV
DESIGNATED AGENT George Jackson
ADDRESS P.O. Box 1698, Clarksburg, WV
SURFACE OWNER Hazel Lowther
ADDRESS New Milton, WV 26411
MINERAL RIGHTS OWNER Hazel Lowther
ADDRESS New Milton, WV 26411
OIL AND GAS INSPECTOR FOR THIS WORK Harold
Mike Underwood ADDRESS Route 2 Box 114
Salem, WV 26426
PERMIT ISSUED 7/17/84
DRILLING COMMENCED 7/11/85
DRILLING COMPLETED 7/21/85

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	265'	265'	
9 5/8			
8 5/8			
7			
5 1/2	1925'	1925'	Cemented
4 1/2			
3 1/2"	5200'	5200'	Cemented
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexandria Depth 5,200 feet
Depth of completed well 5,255 feet Rotary X / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: None Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Alexandria Pay zone depth 5050-5110 feet
Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Ebl/d
Final open flow 555,000 Mcf/d Final open flow -- Ebl/d
Time of open flow between initial and final tests hours
Static rock pressure 1350# psig (surface measurement) after 72 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 Ebl/d
Final open flow Mcf/d Oil: Final open flow Ebl/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)

NOV 18 1985

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

Perforations:

Zones 5109, 5097, 5075.5, 5074.5, 5052 Perforated with 1 11/16 In. dia. Hyperdome thru tubing guns

Zones 3242, 3240, 3220.5, 3218.5, 3193.5, 3191.5 Perforated with 2 1/8 In. dia. Hyperdome thru tubing guns

Fracturing:

Acid 1000 g 15% HCL
Sand 900 sx
Water 1000 Bbls.

Mechanical (Drillable) Plug set at 2,280'

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Open Hole			Surf	1924	
Siltstone			1924	2060	
Weir Sand			2060	2122	
Sand & Shale			2122	2256	
Berea Sand			2256	2265	
Siltstone			2265	2626	
Sand			2626	2639	
Siltstone			2639	2790	
Sand			2790	2803	
Shale			2803	3180	
Balltown			3180	3245	
Shale			3245	3835	
2nd Balltown			3835	3860	
Shale			3860	3860	
Riley			4650	4670	
Shale			4670	4758	
Benson			4758	4764	
Shale			4764	5050	
Alexander			5050	5110	
Shale			5110	5255	
TOTAL DEPTH				5255	new TD 5255 old TD 1924 new log 3331

(Attach separate sheets as necessary)

Well Operator _____
By: Greg Karson
Date: October 11, 1985

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."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 4

Quadrangle Vadis

Permit No. DOD-952

WELL RECORD

Oil or Gas Well Oil & Gas
(KIND)

Company Doddridge Gas No. 10
Address P. O. Drawer 351, Clarksburg, W.
Farm J. H. Lowther Acres 83
Location (waters) Tom's Fork
Well No. 4 Elev. 816
District New Milton County Doddridge
The surface of tract is owned in fee by Hazel F. Lowther
New Milton, Address W. Va.
Mineral rights are owned by J. H. Lowther, et al
Address _____

Drilling commenced 4-2063
Drilling completed 5/14/63
Date Shot _____ From _____ To _____
With Acidized - Fractured
Open Flow 18/10ths Water in 1 1/2 Inch _____ Inch
/10ths Merc. in _____ Inch
Volume 74.853 Cu. Ft.
Rock Pressure 260 lbs. 48 hrs.
Oil (20) bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and VA Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	1		
13	26 Ft.	26	
10	265	265	Size of
8 3/4	751	None	
6 3/4			Depth set
5 3/16	1925	1925	
3			Perf. top
2	1874	1874	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 51/2 SIZE No. Ft. 5/15/63 Date
From 1925 to 1725

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

WELL FRACTURED 900 Barrels of water.

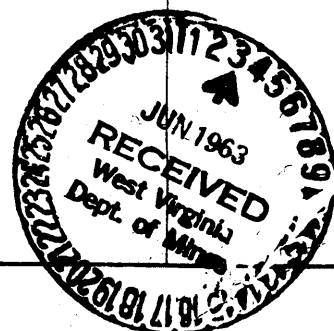
RESULT AFTER TREATMENT 20 barrels of oil.

ROCK PRESSURE AFTER TREATMENT 260 pounds. - 48 hours.

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0	17			
Sand		Soft	17	22			
Sand		Hard	22	37			
Red Rock			37	50			
Lime			50	70			
Red Rock			70	80			
Lime			80	90			
Slate			90	128			
Red Rock			128	138			
Lime			138	148			
Red Rock			148	165			
Lime			165	204			
Red Rock			204	235			
Sand			235	250			
Sandy Shale			250	350			
Sandy Shale							
Lime			350	360			
Slate and Shells			360	480			
Lime			480	500			
Red Rock			500	540			
Sandy Shale			540	625			
Red Rock			625	635			
Slate and Shells			635	650			
Lime			650	700			
Slate and Shells			700	750			
Little Dunkard			750	785			
slate			785	837			
Lime			837	857			
Slate			857	870			

Water at 75 feet. One bailer per hour.



Formation	Color	Hard or Soft	Top ⁴	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			870	900			
Slate			900	910			
Lime			910	935			
Sand			935	985			
Shale and Shells			985	1050			
Sand			1050	1090			
Slate			1090	1165			
Lime			1165	1185			
Sand			1185	1310			
Slate			1310	1340			
Sand			1340	1395			
Shale and Shells			1395	1490			
Shale			1490	1530			
Lime			1530	1555			
Shale			1555	1615			
Maxon Sand			1615	1630			
Slate			1630	1660			
Red Rock			1660	1700			
Shale			1700	1712			
Lime			-1712	1738			
Sand			1738	1776			Show of oil 1744 to 46.
XXXXXXXX			1820				
Big Lime			-1776	1820			
Big Injun			1820	1924			Show of oil 1865 to 75.
Shale			1924				
Total depth 1924.							
5 1/2 in. pipe weight							
2 inch pipe perforated at 1864.							
Perforation data							
12 holes 1874 to 1878							
8 holes 1894 to 1895							
from el log:							
Maxon 1610 21							
Littleline 1710 20							
Big Lime 1788 54							
Gk - Big Injun 1842 60							

Date May 31, 1963

APPROVED DODDRIDGE GAS NO. 10 Owner

By [Signature] (Title)



1) Date: July 2, 1984
 2) Operator's Well No. Lowther #4
 3) API Well No. 47 017 0952 DD-FR
 State County Permit

BLANKET BOND #
297848F5691

RECEIVED

JUL 10 1984

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

- 4) WELL TYPE: A. OIL / G. / B. (If "Gas" Production / Underground storage Deep / Shallow /
 DEPT. OF MINES Elevation: 816' Watershed: Tom's Fork (OM: 46 E)
- 5) LOCATION: District: New Milton County: Doddridge Quadrangle: New Milton 7.5
- 6) WELL OPERATOR GEORGE JACKSON 7) DESIGNATED AGENT George Jackson
 Address P.O. Box 1698 Address P.O. Box 1698
Clarksburg, WV 26302 Clarksburg, WV 26302
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Harold Mike Underwood Name Development Drilling Corp.
 Address Route 2 Box 114 Address P.O. Box 2388
Salem, WV 26426 Clarksburg, WV 26302
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) Drill thru 5 3/16" pipe from 1925' to 6000'
- 11) GEOLOGICAL TARGET FORMATION, Alexander Horizon 6000'
- 12) Estimated depth of completed well, 5800 feet
- 13) Approximate trata depths: Fresh, 50 feet; salt, 1600 feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No /
- 15) CASING AND TUBING PROGRAM

EXISTING

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	13"	API				26'	26'	Kinds
Fresh water	10"	API				265'	265'	
Coal								Sizes
Intermediate	5 3/16"	API		X		1925'	1925'	Cemented from 1925'-1525'
Production	3 1/2"	API		X		5700'	5700'	Cement as Dept set by rule
Tubing								1521
Liners								Perforations:
								Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-0952-DD-FRAC Date July 17, 1984

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 July 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>MH</u>	Plat: <u>177H</u>	Casing: <u>177H</u>	Fee: <u>99.4</u> <u>9903</u>
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Margaret J. Hassel
Administrator, Office of Oil and Gas

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

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

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

MAY 30 1996

AFFIDAVIT OF PLUGGING AND FILLING WELL

Permitting
Office of Oil & Gas

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: LOWTHER, HAZEL F. Operator Well No.: Lowther #4DD

LOCATION: Elevation: 816.00 Quadrangle: NEW MILTON
District: NEW MILTON County: DODDRIDGE
Latitude: 5300 Feet South of 39 Deg. 15 Min. Sec.
Longitude 7975 Feet West of 80 Deg. 40 Min. Sec.

Well Type: OIL _____ GAS x

Company: Jackson Fuel
PO Box 1698
Clarksburg, WV 26301

Coal Operator or Owner NA

Agent: David Nichols

Coal Operator or Owner NA

Permit Issued: 02/22/96

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Upshur ss:

Robert L. Wharton and Don Elmer being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Mike Underwood Oil and Gas Inspector representing the Director, say that said work was commenced on the 10 day of April, 1996, and that the well was plugged and filled in the following manner:

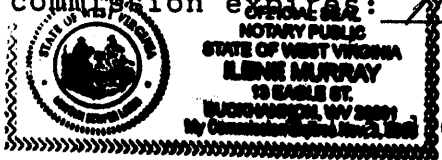
TYPE	FROM	TO	PIPE REMOVED	LEFT
Cement	5240	5000		
Gel	5000	0	3 1/2" 1700	3500
Cement	3260	3125		
Cement	1601	1701	10" 107	
Cement	100	0		

5/21/96

Description of monument: Erect monument per DOE regulations and that the work of plugging and filling said well was completed on the 1st day of May, 1996.

And further deponents saith not.

Sworn and subscribe before me this 8th day of May, 1996
My commission expires: 7-03-93



Robert L. Wharton
Don Elmer
Lene Murray
Notary Public

Gas Inspector: Mike Underwood JUN 7 1996