

FILE NO. 191/84
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM 844'

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) G. J. Jackson
 R.P.E. _____ L.L.S. 105

PLACE SEAL HERE

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



DATE JULY 14, 1984
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-017-228-00
 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 995.5' WATER SHED TOM'S FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7 1/2 511 Vads 15' NW, 123
 SURFACE OWNER HAZEL F. LOWTHER ACREAGE 83
 OIL & GAS ROYALTY OWNER J. H. LOWTHER HRS. LEASE ACREAGE 83
 LEASE NO. _____
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL X FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
George Jackson
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5,000'
 WELL OPERATOR DODDRIDGE GAS #1 DESIGNATED AGENT GEORGE JACKSON
 ADDRESS BOX 1698 ADDRESS SAME
CLARKSBURG, WV 26301

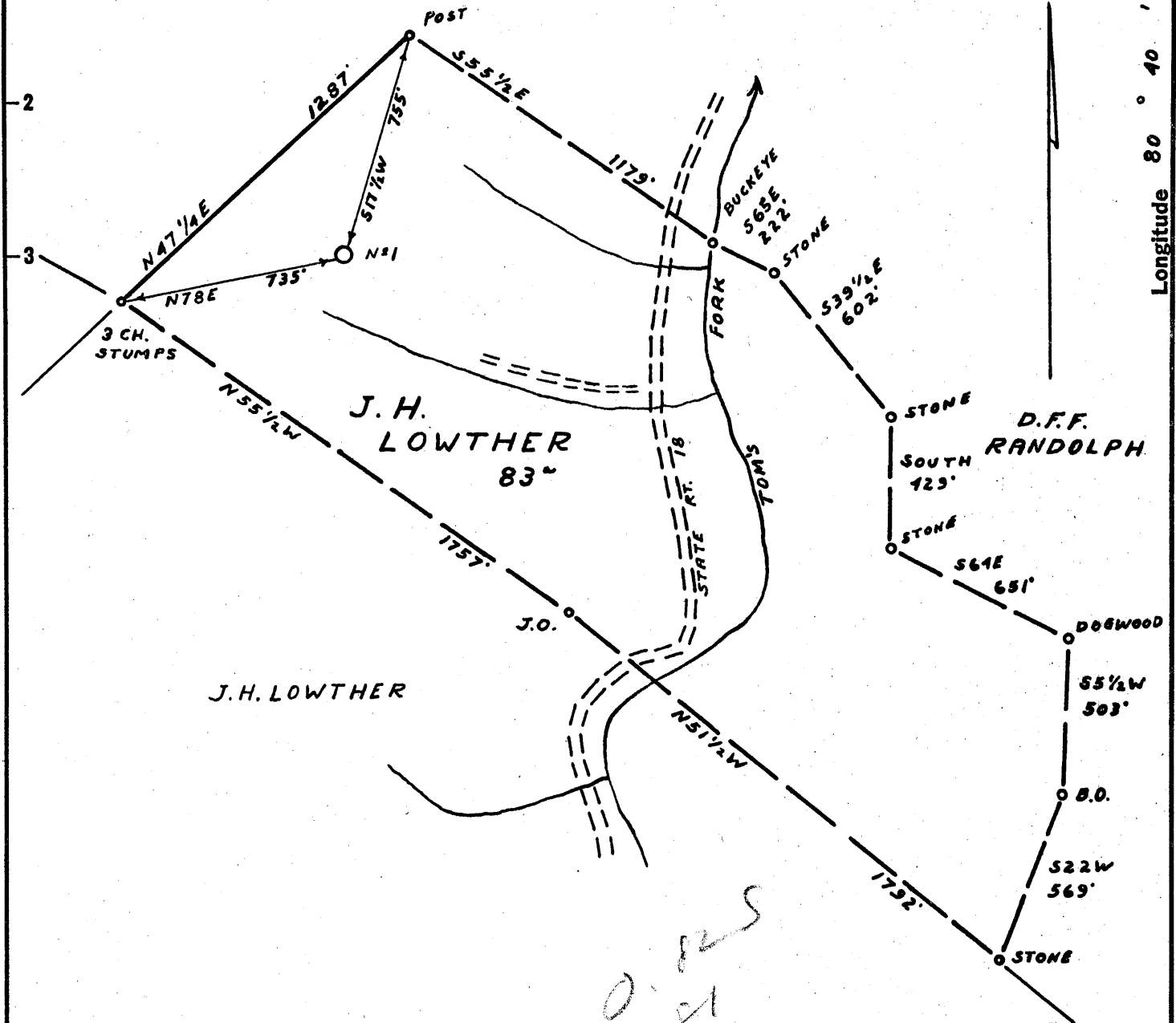
AUG 20 1984

Latitude 39° 15'

Longitude 80° 40'

15106
+ 0.825
1.81W

S.A. HURST



New Location
 Drill Deeper
 Abandonment

Company DODDRIDGE GAS
 Address CLARKSBURG W.VA.
 Farm J.H. LOWTHER
 Tract _____ Acres 83 ✓ Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 995.5 VA
 Quadrangle VADIS NW1²
 County DODDRIDGE District NEW MILTON
 Engineer James D. Jeffries
 Engineer's Registration No. 1084
 File No. 191-84 Drawing No. _____
 Date 7-24-57 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. DOD-228

+ 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.

RDM*

1184 OWDD 6-6

(1099)

Fract

RECEIVED
OCT 10 1984
OIL & GAS DIVISION
DEPT. OF MINES



IV-35
(Rev 8-81)

Date September 20, 1984
Operator's Well No. Lowther #1
Farm Hazel Lowther
API No. 47 - 017 - 0228D.D

State of West Virginia
Department of Mines
Oil and Gas Division

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: 995.5' Watershed Tom's Fork
District: New Milton County Doddridge Quadrangle New Milton 7.5

COMPANY George Jackson (Doddridge Gas)

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 August 17, 1984

DRILLING COMMENCED August 25, 1984

DRILLING COMPLETED August 30, 1984

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.			
13-10"	184	184	
9 5/8			
8 5/8	1016	1016	
6 5/8	1906	1906	
5 1/2			
4 1/2	5322	5322	Cemented
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexandria Depth feet

Depth of completed well 5400' 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 Balltown, Benson, Alexandria zone depth feet

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

Final open flow 492,000 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1525# 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 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

NOV 13 1984

NOV 10 1984

(Continue on reverse side)

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

<u>Alexander</u>	<u>Benson</u>	<u>Balltown</u>
Perf. 5169-5 208 (9 holes)	Perf. 4776-4874 (8 holes)	Perf. 3253-3353
Acid 500g 15% HCL	Acid 700g 15% HCL	Acid 700g 15% HCL
Sand 500 sx	Sand 500 sx	Sand 500 sx
Water 608 Bbls.	Water 612 bbls.	Water 610 Bbls.

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	2005	
Cemt & Stone			2005	2610	
Sand			2610	2625	
Shale			2625	2780	
Sand & Shale			2780	2985	
Shale			2985	3170	
Sand			3170	3245	
Sand & Shale-Balltown			3245	3510	
Shale			3510	4080	
Sand & Shale			4080	4325	Gas check @ 4115 28/10 W 1"FM
Shale			4325	4860	Gas check @ 4424 30/10 W 1"FM
Sand-Benson			4860	4970	Gas check @ 4730 23/10 W 1"FM
Sand & Shale			4970	5060	Gas check @ 5039 25/10 W 1"FM
Shale			5060	5130	
Sand-Alexander			5130	5240	
Shale			5240	5400 TD	Gas check @ 5345 25/10 W 1"FM

5400
2598
2802 DD ftg

NOTE: 8 5/8" casing belled in & welded to 7" casing

7" Casing has hole or split @ approx. 110'

(Attach separate sheets as necessary)

Well Operator _____
By: Wally Johnson
Date: 10/19/84

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 sand, encountered in the drilling of a well."



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

Quadrangle Vadis

WELL RECORD

Permit No. DOD-228

Oil or Gas Well Gas
(KIND)

Company DODDRIDGE GAS
Address P. O. DRAWER 351, CLARKSBURG, W. VA.
Farm J. H. LOWTHER Acres 100
Location (waters) TOMS FORK
Well No. ONE Elev. 995.5
District New Milton County Doddridge
The surface of tract is owned in fee by J. H. Lowther
New Milton Address W. Va.
Mineral rights are owned by J. H. Lowther, et al
New Milton Address W. Va.
Drilling commenced August 6, 1957
Drilling completed October 14, 1957
Date Shot Oct. 19, 1957 Sanfract. with
With 500 Bbls Water
Open Flow /10ths Water in Inch
32 10ths Merc. in 1-1/4" Inch
Volume 266,000 Cu. Ft.
Rock Pressure 660# lbs. 24 hrs.
Oil bbls., 1st 24 hrs.
Fresh water feet feet
Salt water feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			Upside Down
10	184'	184'	Size of 2 x 7
8 1/4	1016'	1016'	
6 3/4	1906'	1906'	Depth set 1962'
5 3/16			
3	2004'	2004'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 7" SIZE No. Ft. 40' Date

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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil		0	11				
Rock		11	24				
Slate		24	40				
Red Rock		40	60				
Lime		60	75				
Red Rock		75	110				
Slate		110	122				
Lime		122	135				
Sand		135	145				
Red Rock		145	155				
Slate		155	192				
Sand		192	210				
Red Rock		210	220				
Black Slate		220	222				
Red Rock		222	255				
Slate		255	265				
Red Rock		265	285				
Slate		285	298				
Red Rock		298	355				
Slate		355	388				
Sand		388	400				
Slate		400	585				
Red Rock		585	595				
Slate		595	602				
Lime		602	627				
Red Rock		627	650				
Slate		650	670				
Red Rock		670	690				
Slate		690	705				
Sand		705	735				

Formation	Color	Hard or Soft	Top 4	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate		735	750				
Lime		750	775				
Red Rock		775	780				
Slate		780	845				
Sand		845	860				
Red Rock		860	885				
Slate		885	900				
Sand		900	930				
Slate		930	1048				
Sand		1048	1065				
Slate		1065	1068				
Sand		1068	1080				
Slate		1080	1110				
Lime		1110	1140				
Sand		1140	1165				
Lime		1165	1194				
Slate		1194	1290				
Sand		1290	1310				
Slate		1310	1320				
Lime		1320	1330				
Sand		1330	1395				
Slate		1395	1405				
Sand		1405	1530	Gas at	1972 -	1975 -	25/10 W. 3/8"
Slate		1530	1610				
Sand		1610	1645	Gas at	1984 -	1992 -	55/10 W 3/8"
Slate		1645	1670				
Sand		1670	1685	Gas at	1992 -	2000 -	70/10W - 3/8"
Slate		1685	1755				
Lime		1755	1775	Gas at	2000 -	2004 -	56/10 W - 1/2"
Red Rock		1775	1780				
Slate		1780	1795				
Lime		-1795	1835				
Sand		1835	1872	Well was plugged back to the bottom of the Injun Sand with stone and cement.			
Big Lime		-1872	1930				
Big Injun		1930	2004	Present total depth	2004'		
Slate		2004	2006				
Lime		2006	2035	Well sandfract with 500 bbls water and 10,000# of sand.			
Slate		2035	2050				
Lime		2050	2065				
Slate		2065	2130	Gas tested after treatment		32/10 M-1-1/4	
Lime		2130	2165				
Sand		2165	2230				
Lime		2230	2270				
Slate		2270	2345				
Lime		2345	2380				
Slate		2380	2555				
Sand		2555					
Gordon		2562	2567				
Total Depth			2598				

Date October 28, 19 57

APPROVED DODDRIDGE GAS Owner

By *[Signature]* (Title)



1) Date: July 2, 19 84
 2) Operator's Well No. Lowther #1
 3) API Well No. 47 - 017 - 0228-DD
 State County Permit

BLANKET BOND #
029-848F5691

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

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow)
 5) LOCATION: Elevation: 995.5' Watershed: Tom's Fork (OM 46 E)
 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
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Alexandria
 12) Estimated depth of completed well, 5600' feet
 13) Approximate trata depths: Fresh, 50' feet; salt, 1600' feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes

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JUL 27 1984
OIL & GAS DIVISION
DEPT. OF MINES

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	10"	API				184'	184'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 1/2"	API				1016'	1016'		
Production	6 3/8"	API				5400'	1962'	Cemented from 1450' - 1962'	
Tubing	4 1/2"					5400'	5400'		
Liners									Perforations: as required by rules 5-01

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-0228-DD

August 17, 19 84
Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent 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 August 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>84</u>	Agent: <u>/</u>	Plat: <u>M22</u>	Casing: <u>4 1/2"</u>	Fee: <u>9926</u>
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[Signature]
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.

812