

FILE NO. 201/32
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION Rt. 18 Rd. Forks 830'

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) [Signature]
 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 OCT. 1, 1983
 OPERATOR'S WELL NO. 2
 API WELL NO. 47-017-663 DD
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

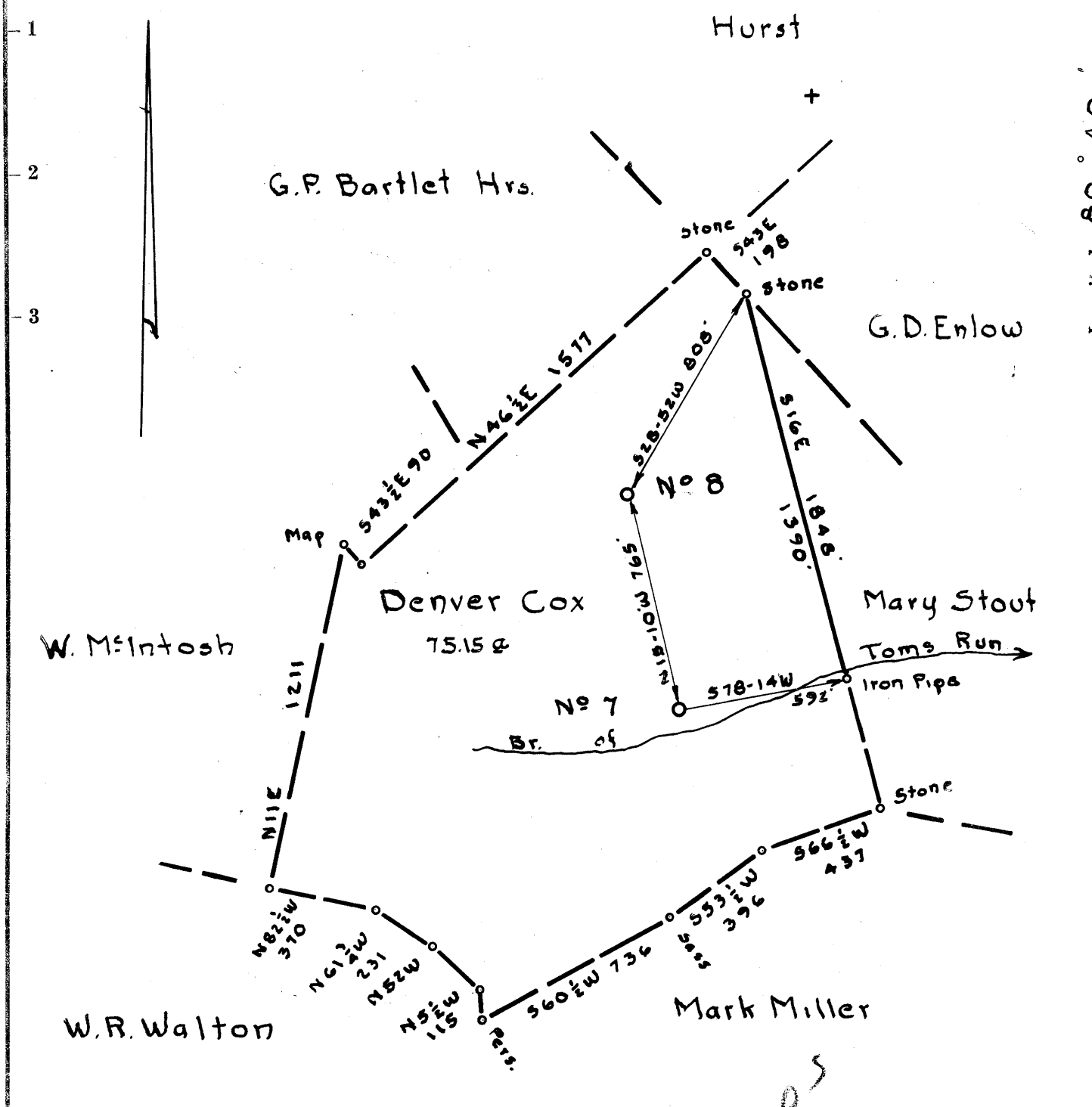
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 932 WATER SHED TOMS FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7 1/2 VODIS 15' NW
 SURFACE OWNER DENVER COX ACREAGE 75.15
 OIL & GAS ROYALTY OWNER DENVER COX et al. LEASE ACREAGE 75.15
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE ___ 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 5450' 5800'
 WELL OPERATOR George Jackson DESIGNATED AGENT DODDRIDGE GAS NO 8
 ADDRESS BOX 9698 CLARKSBURG, WV. 26302 ADDRESS GEORGE JACKSON CLARKSBURG, WV.

NOV 14 1983

M

Latitude 39° 15'

Longitude 80° 40'



1.605
2.06

- Redrill.....
- New Location.
- Drill Deeper.....
- Abandonment.....

Company	Doddridge Gas No 8
Address	Clarksburg, W.Va.
Farm	Denver Cox
Tract	Acres 75.15 Lease No.
Well (Farm) No.	2 Serial No. 8
Elevation (Spirit Level)	952.5 VA.
Quadrangle	Vadis NW 12
County	Doddridge District New Milton
Engineer	James D. Jeffries
Engineer's Registration No.	1084
File No.	201/32 Drawing No.
Date	11-11-61 Scale 1"=500

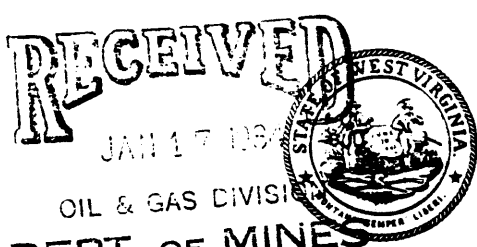
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. Dod-663

+ 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.



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES
State of West Virginia
Department of Mines
Oil and Gas Division

Date December 1, 1983
Operator's
Well No. 2
Farm Denver Cox
API No. 47 - 017 - 663 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: 952' Watershed Toms Fork
District: New Milton County Doddridge Quadrangle New Milton 7½

COMPANY Doddridge Gas No. 8
ADDRESS P.O. Box 1698, Clarksburg, WV
DESIGNATED AGENT George Jackson
ADDRESS P.O. Box 1698, Clarksburg, WV
SURFACE OWNER Ernest Jeffrey, Clarksburg
John C. Forquer, Clarksburg
ADDRESS Clarence Trent, Salem, WV
MINERAL RIGHTS OWNER Denver Cox, et al
ADDRESS Rt. 1, New Milton, WV
OIL AND GAS INSPECTOR FOR THIS WORK
Stephen Casey, Rt. 2, Jane Lew, WV
ADDRESS _____
PERMIT ISSUED November 8, 1983
DRILLING COMMENCED November 14, 1983
DRILLING COMPLETED November 21, 1983
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"			
9 5/8			
8 5/8	982	982	
7 5/8	1920	1920	100' Cement.
5 1/2			
4 1/2	5375	5375	275 sx
3			fill up to 2600'
2		5200	
Liners used			

GEOLOGICAL TARGET FORMATION Alexandria Horizon Depth _____ feet
Depth of completed well 5518 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 50 feet; Salt 1200 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexandria Pay zone depth 5150 - 5210 feet
Gas: Initial open flow 6/10 water Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 24/10 Mercury Mcf/d 762 MCF Final open flow _____ Bbl/d
Time of open flow between initial and final tests 16 hours
Static rock pressure 1450# psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--)
Second producing formation Benson Areas Pay zone depth 4750 - 4800 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

DODD - 663 DD

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

4 1/2" Pipe was cemented from 5518' - 2600'
 Pipe was perforated in the zone 5210' - 5150'
 3 1/2" Baffle was placed at 4989'
 4 1/2" Pipe perforated at 4875', 4575', 4558', 4568', 4645'
 Well was fractured with 2,000 bbls. of water.


WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Trip in hole and finding Bottom @ 2022'. No junk on Bottom. Drilling thru 7" pipe.					
Sand	Grey	Hard	2022	2040	
Shale	Grey	Med	2040	2180	
Sandy	Grey	Med Hd	2180	2330	
Sdy-Sh	Grey	Soft	2360	2385	
Shale	Grey	Soft	2385	2850	Gas @ 2427 Odor
Sdy-Sh	Grey	Med	2850	3000	Gas @ 3242 28/10 - 1/2" Fm/H ₂ O
Sand	Grey	Hard	3000	3100	
Sdy-Sh	Grey	Med	3100	5518 TD	Gas @ 3634 60/10 - 1/2" Fm H ₂ O
Shale	Grey	Soft			

GAMMA RAY DEPTHS					
Big Injun			1944	2036	
50 Foot			2184	2261	
30 Foot			2384	2398	
Gorden			2490	2506	
4th Sand			2594	2608	
5th Sand			2678	2692	
Bayard			2758	2772	
Speechley			3255	3276	
Balltown			3474	3640	
Riley			3978	4067	
Benson			4658	4680	
Leopold			4786	4906	
Alexander			5189	5260	
<div style="text-align: right;"> 5518' TD log TD 5545 </div>					

5518
2018
3500 DD Hg

(Attach separate sheets as necessary)



 Well Operator
 By: _____
 Date: 1/12/84

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 coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 2

Quadrangle Vadis

WELL RECORD

Permit No. DOD-663

Oil or Gas Well Oil
(KIND)

Company DODDRIDGE GAS NO. 8
Address P.O. Drawer 351, Clarksburg, W. Va.
Farm Denver Cox Acres 75.15
Location (waters) Toms Fork
Well No. 2 Elev. 952-5
District New Milton County Doddridge
The surface of tract is owned in fee by Denver Cox
New Milton, W. Va. address
Mineral rights are owned by Oil & Gas Denver Cox
Coal - Virginia Tetrick
271 Clay St., Clarksburg, W. Va.
Drilling commenced 12/11/61
Drilling completed 2/21/62
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure 300 lbs. 12 hrs.
Oil 10 bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18			
13			
10	303'	None	Size of
8 1/4	982	982	
6 5/8	1920	1920	Depth set
5 3/16			
3			Perf. top <u>1938'</u>
2	2008	2008	Perf. bottom <u>1944'</u>
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE 7" No. Ft. 75' Date
January 20, 1962

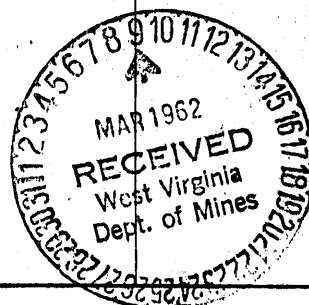
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED 700 gallons water

RESULT AFTER TREATMENT 75 bbls.
ROCK PRESSURE AFTER TREATMENT 325# - 24 hrs.

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Clay			0	15			
Lime			15	60			
Red Rock			60	82			
Lime			82	96			
Red Rock			96	110			
Lime			110	140			
Sand			140	155			
Slate			155	162			
Red Rock			162	172			
Sand			172	211			
Slate			211	215			
Sand			215	222			
Slate			222	228			
Sand			228	250			
Red Rock			250	274			
Sand			274	300			
Slate			300	310			
Red Rock			310	350			
Slate			350	365			
Sand			365	400			
Slate			400	430			
Red Rock			430	450			
Slate & Shells			450	500			
Lime			500	532			
Slate & Shells			532	623			
Red Rock			623	670			
Slate			670	685			
Red Rock			685	695			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			695	715			
Slate			715	730			
Lime			730	784			
Red Rock			784	794	Water at 888 - 5		bailers
Slate			794	805			per hour
Lime			805	883			
Sand			883	934			
Slate & Shells			934	950			
Lime			950	990			
Slate & Shells			990	1060			
Lime	Gray		1060	1075			
Sand			1075	1198			
Slate & Shells			1198	1216			
Lime			1216	1290			
Slate & Shells			1290	1348	Water at 1349 feet		2½ bailers
Sand			1348	1419			per hour
Slate	B		1419	1452			
Sand			1452	1508	1508		
Slate			1508	1520			
Lime	Black		1520	1567			
Sand (Third Salt)			1567	1660			
Slate & Shells			1660	1765			
Lime			1765	1785			
Slate & Shells			1785	1800	Oil & Gas 1943 -		1960
Little Lime			1800	1857	Bottom of Pay		1996
Blue Monday			1857	1889	Total Depth		2018
Big Lime			1889	1934			
Injun Sand			1934	2018			
Total Depth				2018			

Date March 8, 1962

APPROVED DODDRIDGE GAS NO. 8, Owner

By  (Title)



1) Date: October 12, 1983
 2) Operator's Well No. 2
 3) API Well No. 47 - 017 - 663
 State County

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: 952' Watershed: Toms Fork
 District: New Milton County: Doddridge Quadrang.: New Milton 75
- 6) WELL OPERATOR George Jackson (Doddridge Gas #8) 7) DESIGNATED AGENT George Jackson
 Address P.O. Box 1698 Clarksburg, WV 26302 Address P.O. Box 1698 Clarksburg, WV 26302
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Stephen Casey Address Route 2 Box 232-D Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR: Name Development Drilling Corp. Address P.O. Box 2388 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 through 7" pipe from 2000'
- 11) GEOLOGICAL TARGET FORMATION, Alexandria Horizon
- 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

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	8 1/2"	API	20#			982'	982'		
Fresh water									
Coal									
Intermediate	7"	API		X		1920'	1920'	Cemented	
Production	4 1/2"	API	10.5	X		5800'		400 SKS	
Tubing									
Liners									

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-0663-DD Date November 8, 1983

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 November 8, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET BOND	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>9726</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.

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