

Company: Cabot Oil & Gas Corporation 149

Address: Pittsburgh, PA

Farm: L. A. Meyers et al.

Tract: _____ Area: 1171 Lease No. 272

Well (Farm) No. 12 Serial No. 494

Quadrangle: Charleston East, WV SE

County: Kanawha

District: Malden

Engineer: T. S. Downman

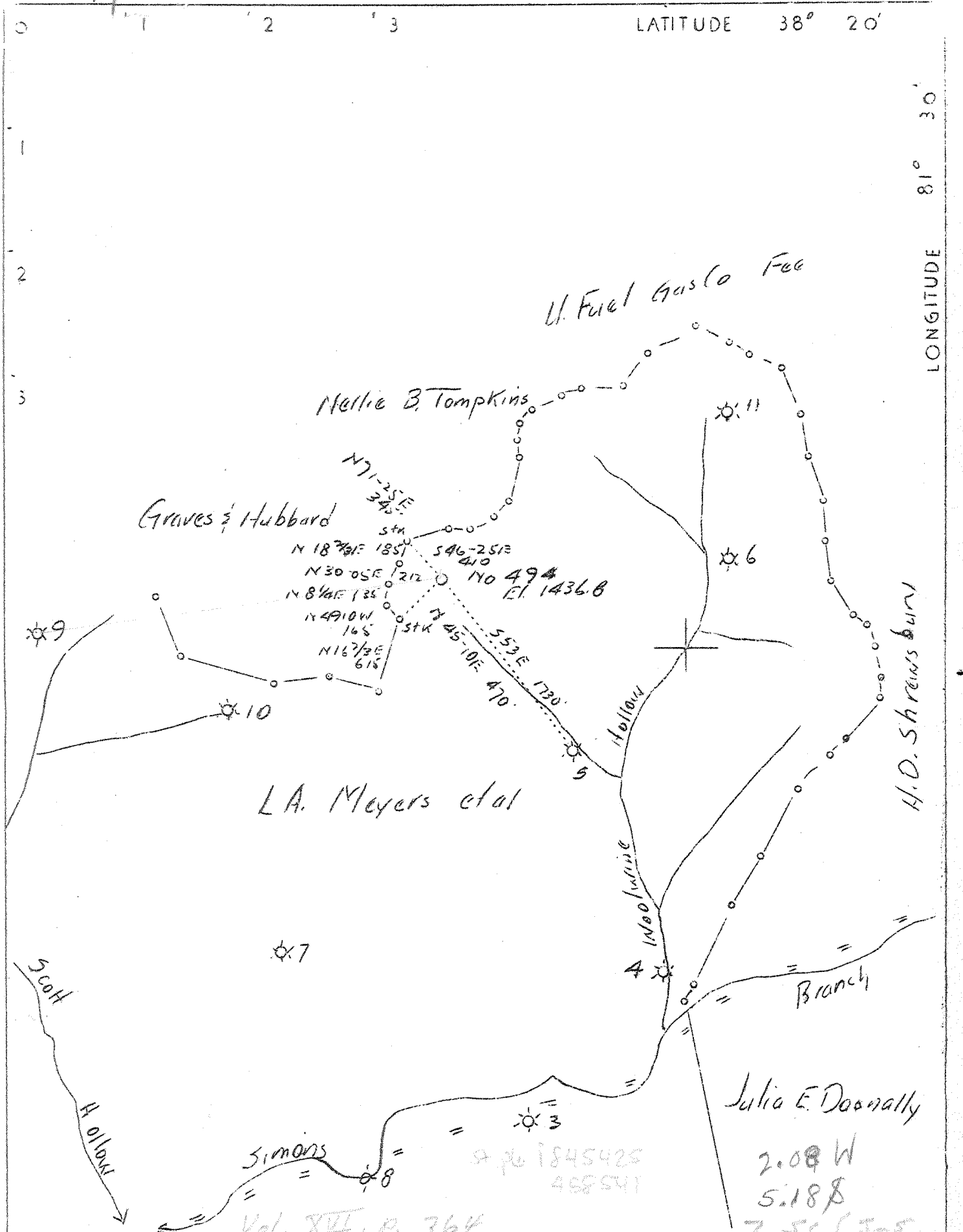
Engineer's Registration No. 269

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL & GAS
 NITRO, WEST VIRGINIA

WELL LOCATION MAP

*Appl Well No. 47-039-00471-Frac
 Partial Plug Back & T
 Well filled in 1938, production
 from Oriskany sand 5303'-5308'
 Rework Plug back to
 TD 5330' © 2500' frac by injun*

DEEP WELL



Company	The Owens Libbey-Owens Gas Dept.
Address	Box 1375, Charleston, W.Va.
Farm	L.A. Meyers et al
Tract	Acres 1171 Lease No. 370
Well (Farm) No.	12 Serial No. 494
Quadrangle	Charleston - <i>L.E.</i>
County	Kanawha
District	Malden
Engineer	T.S. Flournoy
Engineer's Registration No.	269
File No.	Drawing No.
Date	Sept. 10, 1937 Scale 1"=1000'

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 File No. KAIN-471

+ 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 30-G (5204-5330) 6-6 & 14 deep Well ✓

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan. 471

Gas Well

Charleston Quad.

CASING & TUBING

Company	The Owens, Libbey-Owens Gas Dept.	10	886	886
Address	P.O.Box 1375, Charleston, W.Va.	6 5/8	5234	5234
Farm	L.A.Meyers Acres 1171	2	5308	5308
Location	Simmons Creek	<i>1426.2 - almost certain</i>		
Well No.	494	Elev. 1426.2	Perf. top	5302
District	Malden	County Kanawha	Perf. bottom	5308
Surface	L.A.Meyers, Newport News, Va.			
Mineral	Same			
Drilling	Commenced	Oct. 13, 1937		
	Completed	Jan. 31, 1938		
Date Shot	1/27/38	Depth 5299-5312'		
Volume	496,000	Cu.Ft.		

Formation	Color	Hor	TOP	Base	Result	Formation	Color	Hor	TOP	Base	Result
Sand	Yellow	H	0	20		Sand	Dark	H	2227	2240	
Sand	Gray	H	20	40		Slate	Dark	S	2240	2242	
Sand	White	H	40	75		Sand	Dark	H	2242	2270	
Slate	Dark	S	75	100		Slate	Dark	S	2270	2300	Sh.
Sand	Dark	H	100	115		Lime Shell	Dark	H	2300	2410	Gas
Slate	Dark	S	115	120		Slate	Dark	S	2410	2420	2254'
Sand	Gray	H	120	201		Shale	Brown	S	2420	2433	
Slate	Dark	S	201	230		Lime	Gray	H	2433	2465	
Coal	Black	S	230	233		Lime Shell	Dark	H	2465	2491	
Slate&Shells	Dark	S	233	256		Lime	Gray	H	2491	2540	
Sand	White	S	256	315		Slate	White	S	2540	2550	
Slate&Shells	Dark	S	315	349		Lime Shell	Dark	H	2550	2838	
Sand	White	H	349	410		Slate&Shells	Dark	H	2838	3169	
Slate	Dark	S	410	447		Slate	Gray	S	3169	3183	
Slate & Shells Dk.	S		447	491		Lime Shell	Dark	H	3183	3199	
Sand	White	H	491	531		Slate	Dark	S	3199	3218	
Slate	Dark	S	531	549		Shells	Gray	S	3218	3257	
Coal	Black	S	549	551		Slate & Shells	Dark	H	3257	3298	
Slate	Dark	S	551	558		Slate	Dark	S	3298	3323	
Sand	Dark	H	558	576		Shells	Dark	H	3323	3354	
Slate&Shells Dk.	S		576	648		Slate&Shells	Dark	M	3354	3396	
Sand	Gray	H	648	681		Slate	Dark	S	3396	3410	
Coal	Black	S	681	683		Shells	Dark	H	3410	3496	
Slate & Shells Dk.	S		683	716		Slate & Shells	Dark	H	3496	3608	
Sand	Gray	H	716	759		Shells	Dark	H	3608	3958	
Slate	Dark	S	759	764		Slate & Shells	Dark	H	3958	4053	
Slate&Shells Light	S		764	803		Shell	Dark	H	4053	4151	
Sand	White	H	803	819		Slate&Shells	Dark	H	4151	4181	
Slate	White	S	819	823		Slate	Dark	S	4181	4252	
Sand	White	H	823	851		Slate&Shells	Dark	S	4252	4381	
Coal	Black	S	851	853		Slate&Shells	Gray	S	4381	4478	
Sand	White	H	853	911		Slate	Gray	S	4478	4508	
Slate&Shells Dk.	S		911	949		Slate	Dark	S	4508	4533	
Slate	Dark	S	949	969		Slate&Shells	Dark	M	4533	4564	
Sand	White	H	969	1171	Water	Slate&Shells	White	S	4564	4601	
Slate	Black	S	1171	1176	1098'	Slate&Shells	Dark	M	4601	4664	
Sand	Dark	H	1176	1193	1/2 Bail	Slate&Shells	Gray	M	4664	4725	
Slate	Dark	S	1193	1199	pr.hr.	Slate&Shells	Dark	M	4725	4783	
Sand	White	H	1199	1409		Slate	Gray	S	4783	4857	
Slate	White	S	1409	1413	Water	Slate	Dark	S	4857	5068	
Sand	White	H	1413	1423	1265'	Shale	Brown	S	5068	5095	
Slate	White	S	1423	1427	Hole	Slate	Dark	S	5095	5162	
Sand	Gray	H	1427	1475	Full	Shale	Brown	S	5162	5194	
Sand	Dark	H	1475	1608		Shale	Brown	S	5194	5212	
Slate	Dark	S	1608	1628		Corniferous Lime Gr.	H		5212	5234	
Lime	Dark	H	1628	1641		Corniferous Lime Dk.	H		5234	5251	
Sand	Gray	H	1641	1686		Corniferous Lime Gr.	H		5251	5291	
Sand	Dark	H	1686	1756		Corniferous Lime Dk.	H		5291	5299	
Lime	Dark	H	1756	1778		Oriskany Sand	Gray	H	5299	5311	Gas
Lime	White	H	1778	1792		Lime	Gray	H	5311	5330	5303
Slate	Dark	S	1792	1796		TOTAL DEPTH			5330	5308	
Big Lime	White	H	1796	1979							450,000
Injun Sand	Red	H	1979	2018							
Lime Shells	Dark	H	2018	2175							
Slate	Dark	S	2175	2195							
Shells	Dark	H	2195	2227							

1426.2 - almost certain
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5212 5299 5311
 1426 1426 1426
 3786 3873 3985

RECEIVED REPORT
 WV Division of
 Environmental Protection

State of West Virginia
 DEPARTMENT OF ENERGY
 Division of Oil and Gas
 Well Operator's Report of Well Work

JAN 19 1996

Permitting
 Farm name: MOORE, JUDITH SEABOLT
 Office of Oil & Gas

Operator Well No.: L. MEYERS A-12

Location: Elevation: 1,436.80

Quadrangle: CHARLESTON EAST

District: MALDEN County: KANAWHA
 Latitude: 11780 Feet South of 38 Deg. 17 Min. 30 Sec.
 Longitude: 11225 Feet West of 81 Deg. 30 Min. 0 Sec.

Company: CABOT OIL & GAS CORPORATION
 400 FAIRWAY DRIVE, SUITE 400
 CORAOPOLIS, PA 15108

Agent: DAVID G. MCCLUSKEY

Inspector: CARLOS HIVELY
 Permit Issued: 01/12/94
 Well Work Commenced: 03/02/94
 Well Work Completed: 03/14/94
 Verbal Plugging
 Permission granted on: _____
 Rotary x Cable _____ Rig _____
 Total Depth (feet) 5330'
 Fresh water depths (ft) n/a

Salt water depths (ft) 1098', 1265'

Is coal being mined in area (Y/N)? Y
 Coal Depths (ft): 230-233, 549-551,
681-683, 851-853,

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10"	886'	886'	
6-5/8"	5234'	2754'	
4-1/2"	-	2425'	530 sks Class A
2-3/8"	2185'	2185'	

OPEN FLOW DATA

Producing formation INJUN Pay zone depth (ft) 1993-2006
 Gas: Initial open flow - MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 189 commingled MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 245 commingled psig (surface pressure) after 5 Days

Second Producing formation WEIR Pay zone depth (ft) 2105-2230
 Gas: Initial open flow - MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 189 commingled MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 245 commingled psig (surface pressure) after 5 Days

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: CABOT OIL & GAS CORPORATION

By: David G. McCluskey

Date: 1/17/96

JAN 19 1996

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

Perf Weir from 2,105'-2,106'; from 2,111'-2,112'; from 2,188'-2,190'; from 2,208'-2,212'; from 2,226'-2,230'. Foam frac w/59,600# 20/40 mesh sand in 75 Q foam. AIR = 4.4 bpm & 10,120 scfm. Total SCF/N₂ 437,500 SCF. Perf Injun from 1,993'-2,006' Set 4-1/2" LMA frac plug @ 2,070. Foam frac w/60,000# 20/40 mesh sand in 75 Q foam. AIR = 4.1 bpm & 8,060 scfm. Total SCF/N₂ 354,300 SCF. Set 200' cement plug from 5308-5108, 6% gel 5108-2500 and cement plug from 2500-2415. Ran 4-1/2" to 2415 and cemented w/530 sks.

FORMATION	TOP	BOTTOM
SAND	0	75
SLATE	75	100
SAND	100	115
SLATE	115	120
SAND	120	201
SLATE	201	230
COAL	230	233
SLATE & SHELLS	233	256
SAND	256	315
SLATE & SHELLS	315	349
SAND	349	410
SLATE	410	447
SLATE & SHELLS	447	491
SAND	491	531
SLATE	531	549
COAL	549	551
SLATE	551	558
SAND	558	576
SLATE & SHELLS	576	648
SAND	648	681
COAL	681	683
SLATE & SHELLS	683	716
SAND	716	759
SLATE	759	764
SLATE & SHELLS	764	803
SAND	803	819
SLATE	819	823
SAND	823	851
COAL	851	853
SAND	853	911
SLATE & SHELLS	911	949
SLATE	949	969
SAND	969	1171
SLATE	1171	1176
SAND	1176	1193
SLATE	1193	1199
SAND	1199	1409
SLATE	1409	1413
SAND	1413	1423
SLATE	1423	1427
SAND	1427	1608
SLATE	1608	1628
LIME	1628	1641

[JAN 19 1996]

0391 4911 Frac.

FORMATION	TOP	BOTTOM
SAND	1641	1756
LIME	1756	1792
SLATE	1792	1796
BIG LIME	1796	1979
INJUN SAND	1979	2018
LIME SHELLS	2018	2175
SLATE	2175	2195
SHELLS	2195	2227
SAND	2227	2240
SLATE	2240	2242
SAND	2242	2270
SLATE	2270	2300
LIME SHELL	2300	2410
SLATE	2410	2420
SHALE	2420	2433
LIME	2433	2465
LIME SHELL	2465	2491
LIME	2491	2540
SLATE	2540	2550
LIME SHELL	2550	2838
SLATE & SHELLS	2838	3169
SLATE	3169	3183
LIME SHELL	3183	3199
SLATE	3199	3218
SHELLS	3218	3257
SLATE & SHELLS	3257	3298
SLATE	3298	3323
SHELLS	3323	3354
SLATE & SHELLS	3354	3396
SLATE	3396	3410
SHELLS	3410	3496
SLATE & SHELLS	3496	3608
SHELLS	3608	3958
SLATE & SHELLS	3958	4053
SHELL	4053	4151
SLATE & SHELLS	4151	4181
SLATE	4181	4252
SLATE & SHELLS	4252	4381
SLATE & SHELLS	4381	4478
SLATE	4478	4533
SLATE & SHELLS	4533	4783
SLATE	4783	5212
CORNIFEROUS	5212	5299
ORISKANY SAND	5299	5311
LIME	5311	5330
TD		5330

MAN: J 1000