

**ROWLAND LAND CO.**  
 SURFACE & MINERAL  
 LEASE # BM-1-6000 Ac.

NOTE: PLAT COMPILED FROM EXISTING  
 COMPANY SURVEYS AND U.S. GOV'T  
 TOPOGRAPHIC MAPS.

Stake, Black  
 Oak Wit.

LATITUDE : 37° 56' 16"  
 LONGITUDE : 81° 30' 12"

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 68 - 31  
 DRAWING NO. 300025 (BM-25)  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF  
 ACCURACY 1:200  
 PROVEN SOURCE OF  
 ELEVATION U.S. GOV'T BM  
ELEV. 855

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 REGU-  
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
 MENT OF ENERGY.  
 (SIGNED) James L. Browning  
 R.P.E. \_\_\_\_\_ L.L.S. 398

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE NOV. 18, 1991  
 OPERATOR'S WELL NO. 300025 (BM-25)  
 API WELL NO.

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS," ) PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1499' WATER SHED LITTLE MARSH FORK  
 DISTRICT MARSH FORK COUNTY RALEIGH  
 QUADRANGLE WHITESVILLE  
 SURFACE OWNER ROWLAND LAND CO. ACREAGE 6000  
 OIL & GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 6000  
 LEASE NO. 6000001

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  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 WEIR ESTIMATED DEPTH 3100  
 WELL OPERATOR COLUMBIA NATURAL RES. Inc. DESIGNATED AGENT J. E. CAMPBELL  
 ADDRESS P.O. BOX 6070 ADDRESS SAME  
CHARLESTON, WV 25362

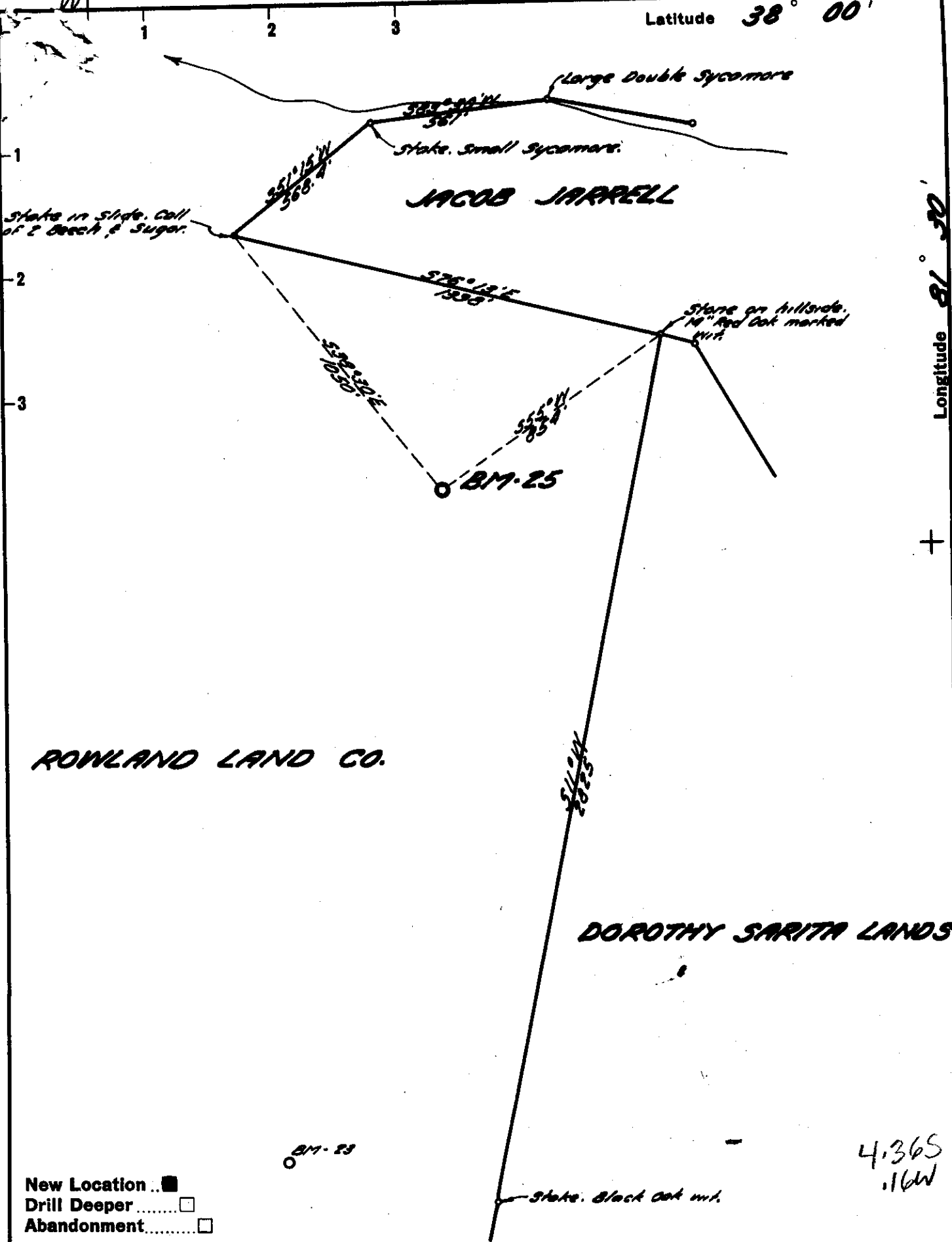
FORM W-6

COUNTY NAME  
 PERMIT

JAN 21 1992

Latitude 38° 00'

Longitude 81° 30'



ROWLAND LAND CO.

DOROTHY SARITA LANDS

4,365  
.16W

New Location ..    
 Drill Deeper .....    
 Abandonment .....

Company BIG MARSH OIL CO.  
 Address CHARLESTON, W. VA.  
 Farm ROWLAND LAND CO.  
 Tract \_\_\_\_\_ Acres 6000 Lease No. BM-1  
 Well (Farm) No. 23 Serial No. BM-25  
 Elevation (Spirit Level) 1498.49'  
 Quadrangle BALD KNOB - NE  
 County RALEIGH District MARSH FORK  
 Engineer J. B. Jarrell  
 Engineer's Registration No. 2529  
 File No. 68-31 Drawing No. \_\_\_\_\_  
 Date 7-9-59 Scale 1" = 400'

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

**WELL LOCATION MAP**  
 FILE NO. RA6-236

+ 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.





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 24

Quadrangle Bald Knob  
Permit No. RAL-236

WELL RECORD

Oil or Gas Well G&G  
(KIND)

Company Big Marsh Oil Company  
Address P.O. Box 1273; Charleston 25, W. Va.  
Farm Rowland Land Co. #23 Acres 6,000  
Location (waters) Little Marsh Fork  
Well No. BM-25 Elev. 1498.49  
District Marsh Fork County Raleigh, W. Va.  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Rowland Land Co., et al  
1033 Quarrier Street Address Charleston, W. Va.  
Drilling commenced 4-20-60  
Drilling completed 7-9-60  
Date Shot - \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
18 /10ths Merc. in 5 1/2 Inch  
Volume 3,950,000 - Weir Cu. Ft.  
Rock Pressure 552 lbs. 48 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
18			
18 3/8		87'	Size of _____
10 3/4		89 1/2'	Depth set _____
8 5/8	1930'	Pulled	Perf. top _____
6 3/4			Perf. bottom _____
5 1/2		3029'	Perf. top _____
3			Perf. bottom _____
2			
Liners Used			

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT 148 FEET 24 INCHES  
288 FEET 36 INCHES 336 FEET 12 INCHES  
575 FEET 36 INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

WELL FRACTURED \_\_\_\_\_

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 114-115 Feet Salt Water 1340-1345 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Gravel			0	19			
Slate			19	35	Water 114-115'		1/2 bailer per hour
Sand & Gravel			35	81			
Sand			81	112	Water 1340-1345'		1 1/2 bailers in 3 hours
Slate			112	138			
Sand			138	148	Show gas 2910-2922'		
Coal			148	150			
Slate			150	160	Gas 2922-2932'	36/10 W 1"	63 M
Sand			160	210	Gas 2932-2942'	70/10 W 1"	88 M
Slate			210	222	Gas 2942-2952'	120/10 W 1"	115 M
Sand			222	250	Gas 2952-2960'	1 1/4/10 W 2"	169 M
Slate & Shells			250	288			
Coal			288	291	Test before fracture 10/10 W 2"		133 M
Sand			291	336	Fractured Weir 7-27-60 with 400 bbls.		water and 24,000# Sand.
Coal			336	337	Test 4 hrs. after fractured 24/10 Merc.		
Slate			337	341	5 1/2" 17# 4,559 M		
Sand			341	378	Final open flow after fracture 18/10		
Slate & Shells			378	394	Merc. 5 1/2" 17# 3,950 M		
Sand			394	436			
Slate			436	480			
Sand			480	528	FINAL OPEN FLOW - 3,950 M - Weir		
Slate & Shells			528	575	48 Hr. R.P. 552#		
Coal			575	578			
Sand			578	598	Shut in 8-3-60 in 5 1/2" casing.		
Slate & Shells			598	624			
Black Lime			624	673			
Slate & Shells			673	690			
Lime Shell			690	712			
Slate & Shells			712	749			
Sand			749	817			

Formation	Color	Hard or Soft	Top 24	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			817	863			
Sand			863	915	LOGS RUN		
Slate & Shells			915	967	Gamma Ray		
Sand			967	1075	Induction		
Slate & Shells			1075	1093	G. G. Density		
Sand			1093	1106	Temperature - 2 runs		
Slate & Shells			1106	1125	P. D. C.		
Sand			1125	1136			
Slate & Shells			1136	1190			
Sand			1190	1294			
Slate			1294	1299			
Salt Sand			1299	1365			
Slate & Shells			1365	1459			
Sand			1459	1525			
Slate			1525	1612			
Sand			1612	1643			
Slate & Shells			1643	1648			
Sand			1648	1675			
Slate & Shells			1675	1698			
Lime			1698	1778			
Slate			1778	1810			
Sand			1810	1860			
Slate & Shells			1860	1880			
Lime			1880	1940			
Rock & Shells			1940	2142			
Lime			2142	2167			
Red Lime			2167	2203			
Sandy Shells			2203	2230			
Red Rock			2230	2281			
Slate & Shells			2281	2298			
Maxon Sand			2298	2336			
Slate & Lime			2336	2384			
Sand			2384	2407			
Slate			2407	2435			
Lime			2435	2531			
Big Lime			2531	2856			
Injun Sand			2856	2885			
Slate & Shells			2885	2900			
Weir Sand			2900	3003			
Slate & Shells			3003	3039			
Total Depth			3039'				

Date February 10, 1961

APPROVED BIG MARSH OIL COMPANY, Owner

By S. L. Fennell  
(Title)

Supt., Civil Engineering Dept.

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

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: ROWLAND LAND CO. Operator Well No.:25

LOCATION: Elevation: 1498.49 Quadrangle: WHITESVILLE  
District: MARSH FORK County: RALEIGH  
Latitude: 7500 Feet South of 38 Deg. 57 Min. 30 Sec.  
Longitude 900 Feet West of 81 Deg. 30 Min. 0 Sec.

Well Type: OIL \_\_\_\_\_ GAS X

Company: Columbia Natural Resources  
P. O. Box 6070  
Charleston, WV 25367-0070

Coal Operator Bethlehem Mines Corp.  
or Owner Eighth & Eaton Avenue  
Bethlehem, PA 18016

Agent: \_\_\_\_\_

Coal Operator Rowland Land Co. (Fee owner)  
or Owner Room 301  
1033 Quarrier Street  
Charleston, WV 25302

Permit Issued: 01/15/92

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Raleigh

ss: 234-66-1484

Larry R. Miller and \_\_\_\_\_ 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 Rodney Dillion Oil and Gas Inspector representing the Director, say that said work was commenced on the 16 day of July, 1991, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
	TD	Surface	None	13 3/8" - 87'
				10 3/4" - 894'
			5 1/2" - 63'	5 1/2" - 2966'
NOTE: 5 1/2" into in three places, fished out 63'				
10 3/4" into @ 63'. Well filled from TD to surface				
w/ 450 sks Class A neat cement.				

Description of monument: 4' above ground filled w/cement & API # \_\_\_\_\_  
and that the work of plugging and filling said well was completed on the 16 day of July, 1991.

And further deponents saith not.

*Larry R. Miller*

Sworn and subscribe before me this 29<sup>th</sup> day of January, 1992  
My commission expires: 10/25/94

*Donna L. Snyder*  
Notary Public

OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
DONNA L. SNYDER  
Clendenin, West Virginia 25045  
My Commission Expires Oct. 25, 1994

Oil and Gas Inspector: \_\_\_\_\_

FEB 7 1992