

LATITUDE 37° 57' 30"

LONGITUDE 81° 31' 39"

ROWLAND LAND CO.
SURFACE & MINERAL

RECEIVED
SEP 08 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

LAT: 37° 57' 30"
LONG: 81° 31' 39"

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

BM-15
RAL.-135
15' loc calc 3.88 S
1.51 W

FILE NO. 66-31
DRAWING NO. BM-3
SCALE 1" = 600'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION U.S. GOV'T. BM
ELEV. 855.40

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 ENERGY.
(SIGNED) James B. Browning
R.P.E. _____ L.L.B. 390



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE AUG. 24 1988
OPERATOR'S WELL NO. BM-3
API WELL NO. 47 081 0453

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 970' WATERSHED BIRCH FK, LITTLE MARSH CRK.
DISTRICT MARSH FORK COUNTY RALEIGH
QUADRANGLE WHITESVILLE, N.V. Bald Knob NE

SURFACE OWNER ROWLAND LAND CO. ACREAGE 6000
OIL & GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 6000
LEASE NO. BM-1

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) WELL TO BE ASSIGNED TO COLUMBIA NATURAL RES., INC.

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION WEIR ESTIMATED DEPTH 2510'
WELL OPERATOR BIG MARSH OIL CO. DESIGNATED AGENT J.C. CAMPBELL
ADDRESS P.O. BOX 1279 ADDRESS SAME
CHARLESTON, W.V. 25305 6-6 (247)

M.T. HALL 4817 FORM WW-6

COUNTY NAME PERMIT

SERIAL WELL NO. 3

LEASE NO. _____

MAP SQUARE 66-31

<p>RECORD OF WELL No. <u>3</u> on the Rowland Land Co. Farm of <u>6,000</u> Acres in <u>Marsh Fork</u> District <u>Raleigh</u> County Kan. Field, State of <u>W.Va.</u></p> <p>Rig Commenced _____ 193 Rig Completed _____ 193 Drilling Commenced <u>May 26, 1920</u> 193 Drilling Completed <u>Oct. 2, 1920</u> 193 Drilling to cost _____ per foot Contractor is: <u>Nuhfer Bros.</u> Address: <u>Parkersburg, W.Va.</u></p> <p>Driller's Name <u>G.A. Nuhfer</u> <u>M.E. Nuhfer</u></p>	<p style="text-align: center;">CASING AND TUBING</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">SIZE</th> <th style="width:20%;">USED IN DRILLING</th> <th style="width:15%;">LEFT IN WELL</th> </tr> <tr> <td>16</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>30</td> <td>30</td> </tr> <tr> <td>10</td> <td>530</td> <td>?</td> </tr> <tr> <td>8 1/4</td> <td>1466</td> <td>?</td> </tr> <tr> <td>6 5/8</td> <td>1990</td> <td>1990</td> </tr> <tr> <td>5 3/16</td> <td></td> <td></td> </tr> <tr> <td>4 7/8</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>2473</td> </tr> </table> <p style="text-align: center;">SHUT IN</p> <p>Date <u>Feb. 20, 1921</u> _____ in _____ Tubing or Casing Size of Packer <u>2x6-5/8</u> Kind of Packer <u>Hook Wall set</u> at <u>2020</u> 1st Perf. Set <u>55'</u> from bottom 2nd Perf. Set _____ from _____</p>	SIZE	USED IN DRILLING	LEFT IN WELL	16			13	30	30	10	530	?	8 1/4	1466	?	6 5/8	1990	1990	5 3/16			4 7/8			4			3			2		2473	<p style="text-align: center;">TEST BEFORE SHOT</p> <p>_____ of Water in _____ inc 10ths. _____ of Merc. in <u>2</u> _____ inc 10ths. Volume <u>823,968</u> Cu. f</p> <p style="text-align: center;">TEST AFTER SHOT</p> <p>_____ of Water in _____ inc 10ths. _____ of Merc. in _____ inc 10ths. Volume _____ Cu. f</p> <p>Rock Pressure <u>830#</u></p> <p>Date Shot _____ Size of Torpedo _____ Oil Flowed _____ bbls. 1st 24 hr: Oil Pumped _____ bbls. 1st 24 hr:</p> <p>Well abandoned and Plugged _____ 193.</p>
SIZE	USED IN DRILLING	LEFT IN WELL																																	
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13	30	30																																	
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3																																			
2		2473																																	

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Sand & Slate	0	130	130	Gas pays in Flint sand 683-740-850.
Sand	130	400	270	
Slate	400	520	120	Gas pay 2452-2469, tested 3/10 water through 6-5/8" opening - 877,110'
Flint Sand	520	1110	590	
Slate	1110	1160	50	Tested 22/10 Mer. through 2" well tubed Oct. 2, 1920
Slat Sand	1160	1280	120	
Slate & Shells	1280	1390	110	
Red Rock	1390	1415	25	
Brown Cave	1415	1440	25	
Lime	1440	1475	35	
Red Rock	1475	1500	25	
Lime Shells	1500	1525	25	
Red Sand	1525	1550	25	
Grey Sand	1550	1600	50	
Red Rock & Shells	1600	1800	200	
Maxon	1800	1840	40	
Slate & Shell	1840	1900	60	
Red Rock & Shells	1900	1975	75	
Pencil Cave	1975	1985	10	
Big Lime	1985	2350	365	
Red Sand	2350	2385	36	
Slate & Shells	2385	2400	15	
Weir	2400	2500	100	
Total Depth		2510		

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SEP 08 1988

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
Charleston, West Virginia 25311

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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upr _____
Copies _____

ARCH A. MOORE, JR.
Governor

Commissioner

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from Big Marsh Oil Company (5350) (the transferor) to Columbia Natural Resources, Inc. (10460) (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22B, Article 1 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) Joseph E. Campbell, (address) P. O. Box 1273, Charleston, WV 25325, is on file with the Division of Oil and Gas.

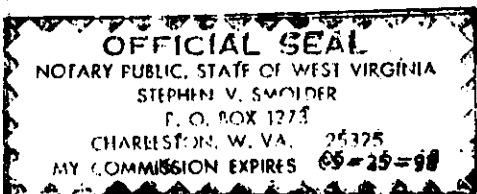
The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. \$50,000, January 27, 1986, United Pacific Insurance Company #U-391072-2.

(Transferee) Columbia Natural Resources, Inc.
By Joseph E. Campbell
Its Vice President, Drilling and Production

Taken, subscribed and sworn to before me this 6 day of September, 1988
Notary Public Stephen V. Smolder
My commission expires May 25 1998

(Transferor) Big Marsh Oil Company
By Joseph E. Campbell
Its Vice President, Drilling and Production

Taken, subscribed and sworn to before me this 6 day of September, 1988
Notary Public Stephen V. Smolder
My commission expires May 25 1998



ACCEPTED THIS 9 DAY OF Sept., 1988
BY: Kenneth R. Faerber
Margaret S. Hasse
- Division of Oil and Gas

10460

API (Permit) Number	Farm Name	Operator's Well Number
47- 081-0452 * See Attached Well 081-0453 Plat & Records	Bowman Lumber Company	BM-2
47-081-0060	Rowland Land Company #5	BM-3
47-081-0061	Rowland Land Company #4	BM-4
47-081-0073	Rowland Land Company #5	BM-5
47-081-0076	Rowland Land Company #6	BM-6
47-081-0074	Rowland Land Company #7	BM-7
47-081-0084	Rowland Land Company #3	BM-8
47-081-0087	Rowland Land Company #9	BM-9
47-081-0093	Rowland Land Company #10	BM-10
47-081-0102	Rowland Land Company #11	BM-11
47-081-0122	Rowland Land Company	BM-12
47-081-0145	Rowland Land Company	BM-13
47-081-0135	Rowland Land Company	BM-14
47-081-0157	Rowland Land Company	BM-15
47-081-0187	Rowland Land Company	BM-16
47-081-0203	Rowland Land Company #17	BM-17
47-081-0258	Rowland Land Company	BM-18
47-081-0207	Rowland Land Company #25	BM-19
47-081-0214	Rowland Land Company	BM-20
47-081-0224	Rowland Land Company #19	BM-21
47-081-0231	Rowland Land Company #20	BM-22
47-081-0234	Rowland Land Company #21	BM-23
47-081-0236	Rowland Land Company #22	BM-24
47-081-0243	Rowland Land Company #23	BM-25
47-081-0263	Rowland Land Company	BM-26
47-081-0270	Rowland Land Company #26	BM-27
	Rowland Land Company #27	BM-28