



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 200'
MINIMUM DEGREE OF ACCURACY 1:5,000
PROVEN SOURCE OF ELEVATION U.S.C. & G.S.
B.M. A-168 (618.726)

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]
L.L.S. #550

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE _____, 19____
OPERATOR'S WELL NO. CENTURIAL WELL #1
API WELL NO. _____
47 - 107 - 1299
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW
LOCATION: ELEVATION 612.30 WATER SHED OHIO RIVER
DISTRICT UNION COUNTY WOOD
QUADRANGLE VALLEY MILLS W.V. - OHIO (7.5) Marietta 151 C
SURFACE OWNER CENTURIAL PRODUCTS, INC. ACREAGE 28.57
OIL & GAS ROYALTY OWNER CENTURIAL PRODUCTS, INC. LEASE ACREAGE 28.57
A DIVISION OF MARIETTA CONCRETE
LEASE NO. _____
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 GORDON ESTIMATED DEPTH 2400 66
WELL OPERATOR BROUGHTON FOODS CO. DESIGNATED AGENT PHIL SMITH Waverly (71)
ADDRESS 210 N. SEVENTH ST., MARIETTA, OHIO 45750 ADDRESS c/o BROUGHTON FOODS CO., 114 VIRGINIA ST. W. CHARLESTON W. VA. 25302

DEC 19 1983

JUL 28 1987



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 01/26/86
Operator's
Well No. Centurial #1
Farm Centurial
API No. 47 - 107 - 1299

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas x / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 612.3 Watershed Ohio River
District: Union County Wood Quadrangle Valley Mills

COMPANY Broughton Foods Co.
ADDRESS 210 N. Seventh St., Marietta, Ohio 45750
DESIGNATED AGENT Phil Smith
ADDRESS 114 Virginia St., Charleston, WV
SURFACE OWNER Centurial Products, Inc.
ADDRESS 132 South Fourth St., Marietta, Ohio
MINERAL RIGHTS OWNER Centurial Products, Inc.
ADDRESS 132 South Fourth St., Marietta, Ohio
OIL AND GAS INSPECTOR FOR THIS WORK
Deo Mace ADDRESS Rt.#1, Box 5, Sandridge, WV
PERMIT ISSUED November 23, 1983
DRILLING COMMENCED December 14, 1983
DRILLING COMPLETED December 20, 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 Cord.			
13-10"			
9 5/8			
8 5/8	275	275	93 sk
7			
5 1/2			
4 1/2	2350	2350	175
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 2400 feet
Depth of completed well feet Rotary x / Cable Tools
Water strata depth: Fresh 120 feet; Salt 500 feet
Coal seam depths: 400 - 700 Is coal being mined in the area? x

OPEN FLOW DATA
Producing formation Gordon Pay zone depth 2290-2310 feet
Gas: Initial open flow 20 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow (20) Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 8 hours

Static rock pressure 275 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Berea Pay zone depth 1939-1946 feet
Gas: Initial open flow 18 Mcf/d Oil: Initial open flow 1 Bbl/d
Final open flow (12) Mcf/d Oil: Final open flow (1) Bbl/d
Time of open flow between initial and final tests 6 hours

OF for well 32 Mcf BOPP

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

Perforated 2390 - 2410 Gordon 20 Shot

Perforated 1939 - 1946 Berea 10 Shot

Gordon Well Stimulated - 40,000 lb. 20/40 Sand - 1200 BBL Slick Water

Berea 40,000 lb. Sand 120 BBL Foam Frac

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Big Injun			1481	1523	
Water			1840	1880	
Berea			1939	1946	
30' Sand			2160	2172	
Gordon			2390	2410 T.D.	

(Attach separate sheets as necessary)

Broughton Foods Company
Well Operator

By: _____

Date: _____

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

RECEIVED
NOV 28 1983



1) Date: November 23, 1983
 2) Operator's Well No. Centurial #1
 3) API Well No. 47-107-1299
 State _____ County _____ Permit _____

OIL & GAS DIVISION
DEPT. OF MINES 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: 612.3 Watershed: Ohio River
 District: Union County: Wood Quadrangle: Valley Mills
- 6) WELL OPERATOR Broughton Foods Company
 Address 210 N. Seventh Street
Marietta, Ohio 45750
- 7) DESIGNATED AGENT Phil Smith
 Address 114 Virginia Street, W.
Charleston, WV 25302
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Jerry Tephabock
 Address Rt. 1, Box 101-A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR:
 Name Major Drilling
 Address Box 527
Fairview, Oklahoma 23737
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Gordow
- 12) Estimated depth of completed well, 2400 feet
- 13) Approximate trata depths: Fresh, 120 feet; salt, 500 feet.
- 14) Approximate coal seam depths: ~~400-700~~ 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	11 5/8				X	80		20 SK	
Fresh water	8 5/8			X		250	250'	90 SK	cement to surface
Coal									by rule 15.05
Intermediate									
Production	4 1/2		10.5	X		2400		120 OSK	as req. by rule 15.01
Tubing									Depths set
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1299 Date December 13, 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 December 13, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>5B</u>	<u>ls</u>	<u>MH</u>	<u>MH</u>	<u>632.78</u>

T. L. A.

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.