

New Location Drill Deeper Abandonment

Minimum Error of Closure 1 IN 20,000

Source of Elevation U.S.G.S. MAP

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all information required by paragraph 6 of the rule section of the mining law"

Company RAMCO OIL & GAS CORP. 0739

Address P.O. BOX 99, BELPRE, OHIO

Farm SOUTHERN LAND CO.

Tract C-F-7 Acres 125.84 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 1923.71

Quadrangle ECCLES 7.5 W.V.

County RALEIGH District CLEAR FORK

Engineer [Signature]

Engineer's Registration No. 4550

File No. _____ Drawing No. 4051A-R

Date 5-8-79 Scale 1" = 500'

CO: 081 PMT: 469

Loc Disitized from OGIS 7.5' Mylar

QUAD: 331 DATE: 25-MAY-90

LAT: 37 50.0 Miles South: 0.45

LONG: 81 15.0 Miles West : 2.04

OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

FILE NO. 47-081-0469-Frac

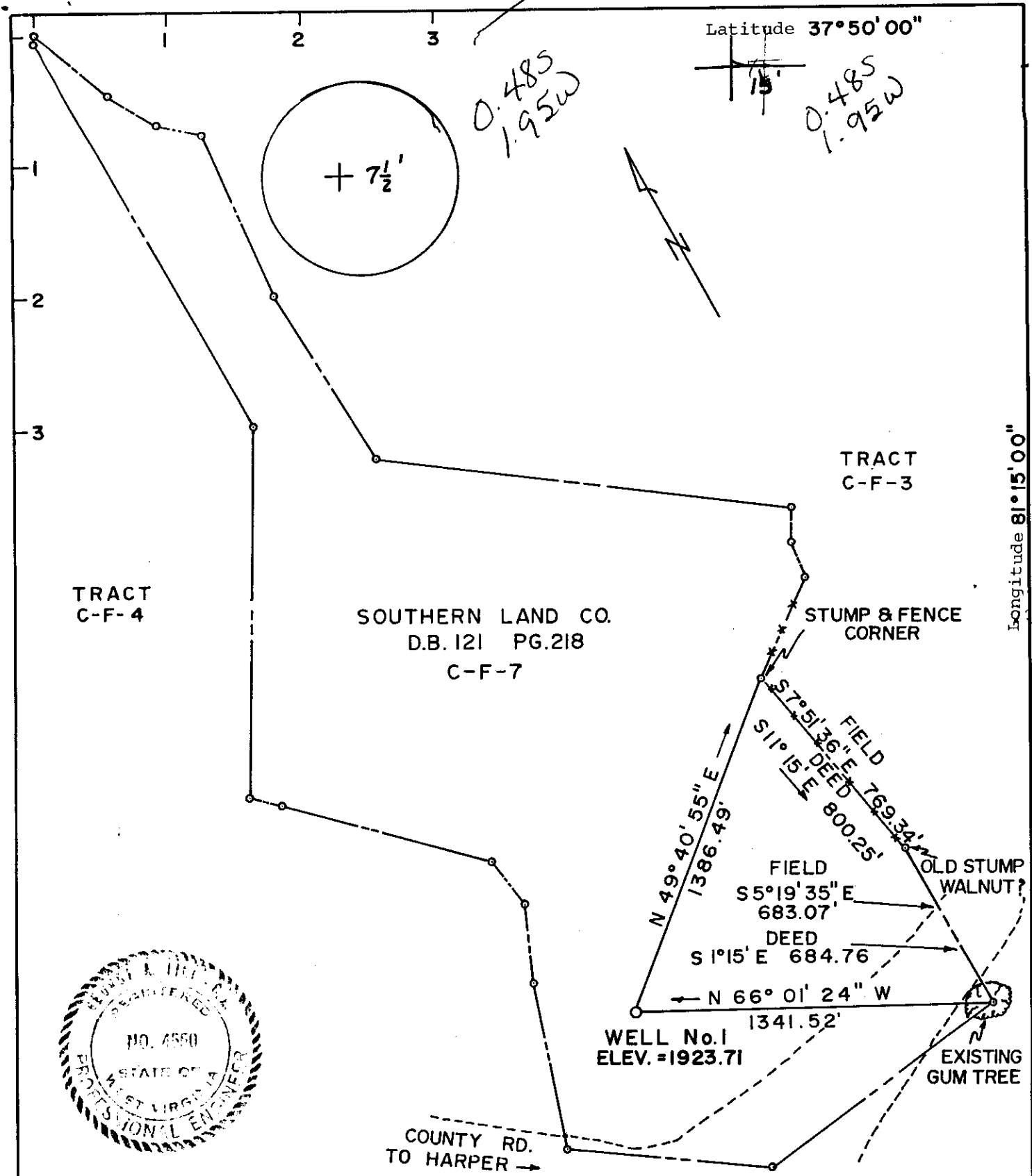
FRAC CANCELLED

+Denotes location of well on United States topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

-Denotes one inch spaces on border line of original tracing.

FEB 24 1989

KOL 0469 FRAC



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 IN 20,000
 Source of Elevation U.S.G.S. MAP

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company RAMCO OIL & GAS CORP. 739
 Address P.O. BOX 99, BELPRE, OHIO
 Farm SOUTHERN LAND CO.
 Tract C-F-7 Acres 125.84 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1923.71
 Quadrangle ECCLES W.V. 331 03C
 County RALEIGH District SLEAR FORK
 Engineer [Signature]
 Engineer's Registration No. 4550
 File No. _____ Drawing No. 4051A-R
 Date 5-8-79 Scale 1" = 500'

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

WELL LOCATION MAP

FILE NO. 47-081-0469-Frac.

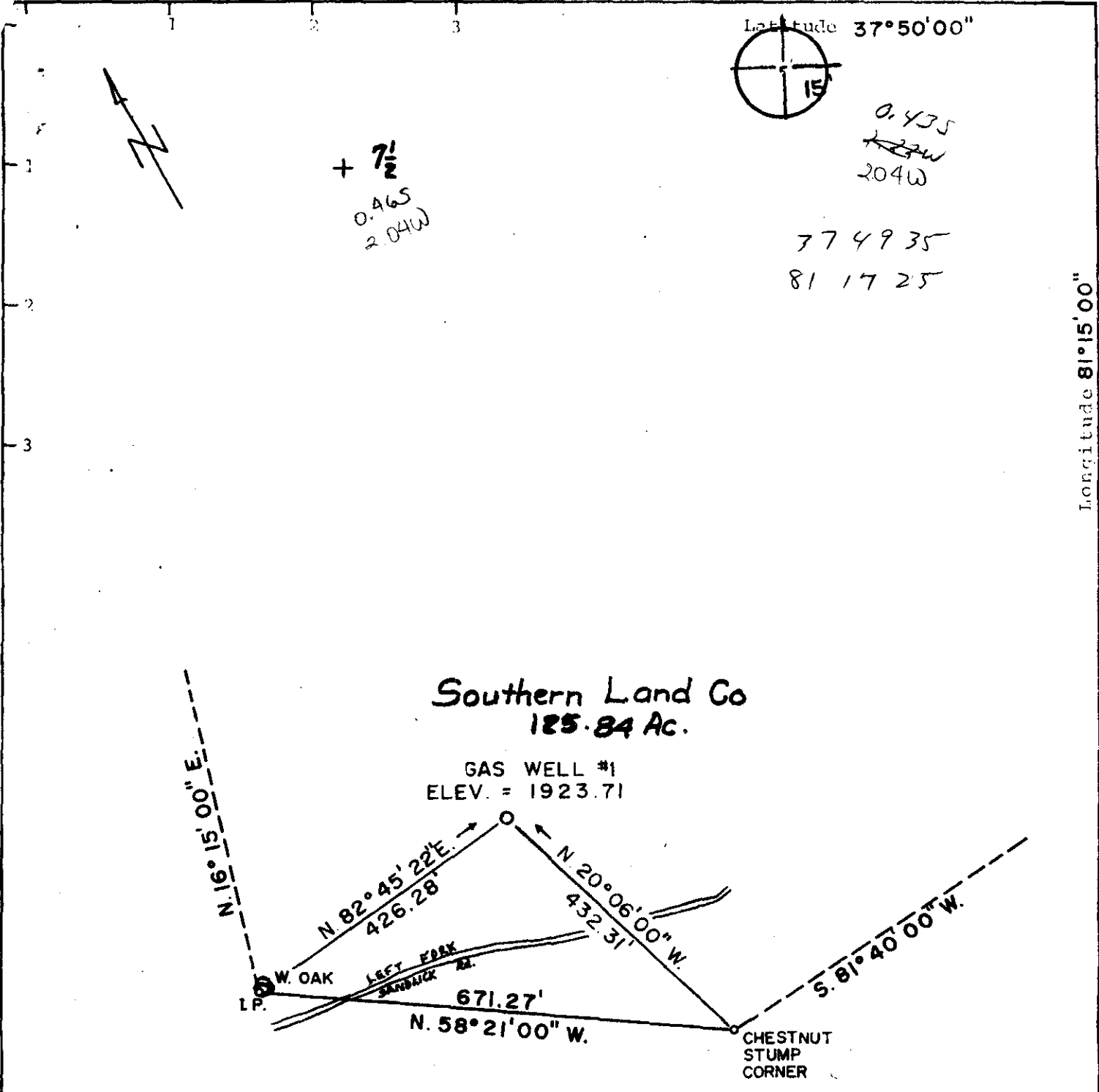
SE9

+Denotes location of well on United States topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

-Denotes one inch spaces on border line of original tracing.

FEB 9 1987

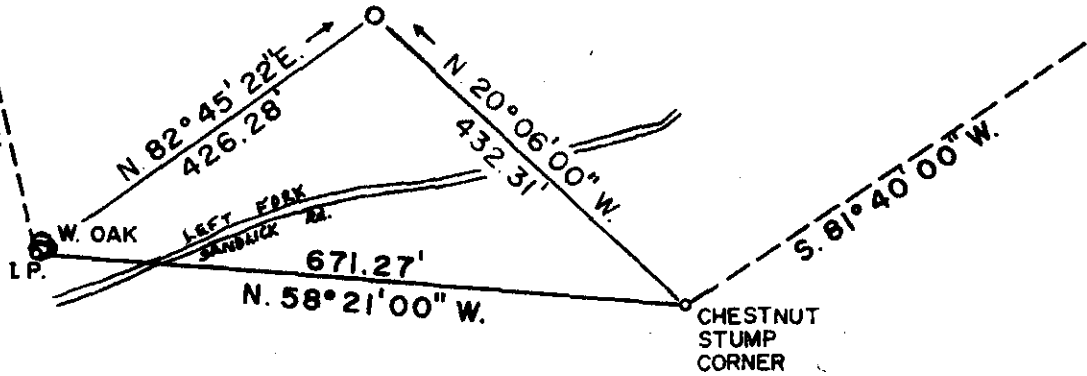
12-18-78



Longitude 81° 15' 00"

Southern Land Co
125.84 Ac.

GAS WELL #1
ELEV. = 1923.71



Minimum Error of Closure IN 20,000
Source of Elevation U.S.G.S. MAP

- New Location
- Drill Deeper
- Abandonment

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company RAMCO OIL & GAS CORP.
 Address P.O. BOX 99, BELPRE, OHIO
 Name SOUTHERN LAND CO.
 Tract C-F-7 Acres 125.84 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1923.71
 Township ECCLES, W. VA. SE
 County RALEIGH District CLEAR FORK
 Engineer Norman B. Polo
 Engineer's Registration No. 5975
 File No. _____ Drawing No. 4051
 Date 12-18-78 Scale 1" = 200'

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

WELL LOCATION MAP
FILE NO. 47-081-0469

Indicates location of well in United States Geographic Map, scale 1 to 500,000 latitude and longitude lines shown. 62,500

Indicates one inch spaces on border line of original location.

6-6
5-5
(249)
JAN 25 1979



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

NOV - 1 1979

Oil and Gas Division OIL & GAS DIVISION
WELL RECORD 11 DEPT. OF MINES

Quadrangle Eccles
Permit No. 47-081-0469

Rotary Oil
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company RAMCO Oil & Gas Corp.
Address P. O. Box 99, Belpre, Ohio 45714
Farm Southern Land Co. Acres 125.84
Location (waters) Left Fork of Sandlick
Well No. 1 Elev. 1923.71
District Clear Fork County Raleigh
The surface of tract is owned in fee by _____
Southern Land Co.
Address P. O. Box 1385, Charleston, W. Va.
Mineral rights are owned by Same
Address _____
Drilling Commenced 12/30/78
Drilling Completed 1/14/79
Initial open flow 280M cu. ft. _____ bbls.
Final production 2MM cu. ft. per day _____ bbls.
Well open 18 hrs. before test 800 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond. 16"	31'	31'	8 sks.
13-10"			
9 5/8			
8 5/8	1370'	1370'	350 sks.
7			
5 1/2			
4 1/2	3004'	3004'	167 sks.
3			
2			
Liners Used			

Well treatment details:

Perf. 2871' - 2901' - 8 holes. Foam Fraced w/271 bbls. water, 30M #20/40 sand, 30 M # 80/100 sand; 500 gals. mud acid; 1500# Ave. pressure, 315 M nitrogen.

Attach copy of cementing record. Dowell

Coal was encountered at 832' - 836' Feet _____ Inches
Fresh water 30 Feet _____ Salt Water _____ Feet
Producing Sand Weir Depth 2868' - 2910'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Fill			0	14		
Sand			14	18		
Sandy Shale			18	65		Water @ 30'
Sand			65	90		
Shale			90	124		
Sand			124	309		
Shale			309	315		
Sand			315	412		
Shale			412	435		
Sand			435	620		
Sandy Shale			620	635		
Sand			635	693		
Shale			693	779		
Sand			779	798		
Shale			798	832		
Coal & Blk. Shale			832	836		
Shale			836	865		
Sand & Shale			865	969		
Red Rock & Shale			969	987		
Sand & Shale			987	995		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Rock & Sand			987	1000		
Sand			1000	1027		
Red Rock			1027	1109		
Shale			1109	1162		
Sand & Shale			1162	1188		
Shale			1188	1208		
Sand			1208	1231		
Shale			1231	1331		
Sand & Shale			1331	1390		
Ravenscliff			1390	1420	60M	
Avis Limestone			1420	1425		
Red Rock & Shale			1425	1506		
Shale			1506	1529		
Shale w/Thin Sands			1529	2090		
Sand			2090	2115		
Little Lime			2115	2270		
Pencil Cave			2270	2315		
Big Lime			2315	2698		
Shale			2698	2868		
Weir Sand			2868	2910	220M	
Shale			2910	3248		
Coffee Shale			3248	3271		
<u>Berea Zone (no sand)</u>			3271	3293		
Shale			3293	3322		
TD			3322			

Date October 30, 1979

APPROVED RAMCO OIL & GAS CORP.
 By Carl E. Moore Vice Pres.
 (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

DEC 29 1978

Oil and Gas Division
OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner Southern Land Co.
Address P.O. Box 1385 Charleston, WV 25325
Mineral Owner Southern Land Co.
Address P.O. Box 1385 Charleston, WV 25325
Coal Owner Southern Land Co.
Address P.O. BOX 1385 Charleston, WV25325
Coal Operator Beckley Coal Co.
Address P.O. Box 14C Glen Daniel, WV

DATE 12-16-78
Company Ramco Oil & Gas Corp.
Address P.O. Box 99 Belpre, OH 45714
Farm Southern Land Co. Acres 125.84
Location (waters) Sand Lick Creek
Well No. 1 Elevation 1923.2'
District Clear Fork County Raleigh
Quadrangle Eccles 15'

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved
for drilling. This permit shall expire if
operations have not commenced by 4-29-79.

INSPECTOR
TO BE NOTIFIED Leroy Hopkins
ADDRESS Victor, WV 25938
PHONE 658-4784

Robert T. Allen
Deputy Director - Oil & Gas Division
GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated January 1 1971 by Southern Land Co. made to United Fuel Gas Co. and recorded on the 17 day of March 1971, in Raleigh County, Book 35 Page 553

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours, Ramco Oil & Gas Corp.
(Sign Name) Dean Stum Ass't Sec't
Well Operator

P.O. Box 99
Street
Belpre
City or Town
Ohio 45714
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-081-0469 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Falcon Drilling Corp. NAME Deon Sturm
 ADDRESS 2030 Kanawha Blvd. Charleston, WV ADDRESS 3514 Cadillac Dr. Parkersburg, W V26101
 TELEPHONE _____ TELEPHONE 422-2014
 ESTIMATED DEPTH OF COMPLETED WELL: 3550' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea Sand
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16	<u>30'</u>	<u>30'</u>	<u>25 sacks</u>
13 - 10			
9 - 5/8			
8 - 5/8	<u>1400'</u>	<u>1400'</u>	<u>Cement Surface</u>
7			
5 1/2			
4 1/2	<u>3500'</u>	<u>3500'</u>	<u>300' Fill Up</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 25 FEET 1200 SALT WATER FEET
 APPROXIMATE COAL DEPTHS No mineable coal
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

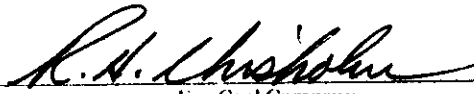
OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for Beckley Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Beckley Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.



 For Coal Company
President
 Official Title