



Benson 4438'

**SURFACE OWNER**  
**DONALD L. HINKLE**  
**MINERAL OWNER**  
**THELMA R. JACKSON, ET. AL**

**CERTIFICATE**

"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."

Minimum degree of accuracy is one part in 200

*Harry L. Berger, Jr.*  
 HARRY L. BERGER, JR. L.S. 246

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

N.B. H-13, PG. 73

COMPANY	STERLING DRILLING & PRODUCTION CO., INC.		
ADDRESS	622 3RD AVE., SUITE 3800, N.Y., N.Y. 10017		
FARM	THELMA R. JACKSON, ET. AL. - MINERAL		
MAP	44-A	ACRES	85
		LEASE NO.	145-002
WELL (FARM) NO.	1	SERIAL NO.	489
ELEVATION (SPIRIT LEVEL)	1132.20		
QUADRANGLE	15 PHILIPPI N.W. & 7 1/2' BROWNTON		
COUNTY	HARRISON	DISTRICT	ELK
POINT OF PROVEN ELEVATION	U.S.G.S. B.M. SHOWN ON PLAT EL. 1111'		
FILE NO.		DRAWING NO.	
DATE	DEC. 13, 1980		SCALE 1" = 1000'

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

**WELL LOCATION MAP**

FILE NO. **47-033-2577**

- 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.

3-6 Glade Run (300)

APR 28 1981



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

JACKSON 469

Oil and Gas Division

WELL RECORD

Quadrangle PHILIPPI NW

Permit No. HAR-2577

Rotary X Oil X  
Cable \_\_\_\_\_ Gas X  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company <u>Sterling Drilling &amp; Production Co. Inc</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>360 Madison Ave., -NY, NY 10017</u>				
Farm <u>Jackson</u> Acres <u>85</u>				
Location (waters) <u>Birds Run</u>	Size			
Well No. <u>469</u> Elev. <u>1132.2</u>	<u>20-16</u>			
District <u>Elk</u> County <u>Harrison</u>	Cond.			
The surface of tract is owned in fee by _____	<u>13-10"</u>			
<u>Donald L. Hinkle</u>	<u>9 5/8</u>			
Address <u>Birds Run Rd. - Clarksburg, WV</u>	<u>8 5/8</u>	<u>918</u>	<u>918</u>	<u>100 sks Reg</u>
Mineral rights are owned by <u>Thelma Jackson</u>	<u>7</u>			<u>175 sks 50/50</u>
120 <u>Marshall St.</u> Address <u>Clarksburg, WV</u>	<u>5 1/2</u>			<u>POZ</u>
Drilling Commenced <u>June 23, 1981</u>	<u>4 1/2</u>		<u>5576</u>	<u>630 sks 50/50</u>
Drilling Completed <u>June 30, 1981</u>	<u>3</u>			<u>POZ</u>
Initial open flow <u>5</u> cu. ft. <u>0</u> bbls.	<u>2</u>			
Final production <u>239</u> Mcu. ft. per day <u>2</u> bbls.	Liners Used			
Well open <u>3</u> hrs. before test <u>1380</u> #RP.				

Attach copy of cementing record. 239 MCF + 280

Well treatment details:  
Perforated Elk 18 holes 5455 - 5515, Benson with 5 holes, 4212 to 4214, 10 holes 4367 - 4371 Fractured with 500 gal. MOD202 Acid, 14,000# 80/100, 42,000# 20/40, 450 barrels water. Set Frac Plug at 3100' Perforated Balltown with 4h 2890 - 2894, 10 holes 3072-79 Frac with 500 gal 15% MOD 202 Acid, 15,000# 80/100, 32,500# 20/40 570 barrels treated water.

Coal was encountered at 0 Feet \_\_\_\_\_ Inches  
Fresh water 3072-79 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Balltown Speechley 2890-94 Depth 2890-3079

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand - Shell - Rock			0	950		
Salt Sand			950	976		
Shell			976	1050		
Salt Sand			1050	1178		
Shelly Sand			1178	1298		
Maxton			1298	1326		
Shell			1326	1404		
Maxton			1404	1424		
Little Lime			1424	1466		
Big Lime			1466	1590		
Injun			1590	1637		
Shell			1637	1862		
Gantz			1862	1956		
Shelly Sandstone			1956	2374		
Fifth Sand			2374	2390		
Shell			2390	2883		
Speechly			2883	2896		
Shell			2896	3070		
Balltown			3070	3080		
Shell			3080	4368		
Benson			4368	4374		
Shell			4374	5625		
				5625 T.D.		

**RECEIVED**

SEP 24 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

5625  
4374  
1251 ft. exploratory

OCT 08 1981



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED  
APR - 9 1981

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION  
DEPT. OF MINES

JACKSON #469

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

DATE December 19, 1980

Surface Owner Donald L. Hinkle

Company Sterling Drilling and Production Co., Inc.

Address Byrds Run Rd. Clarksburg, W.V. 26301

Address Suite 3800 622 3rd Ave. N.Y., N.Y. 10017

Mineral Owner Thelma Jackson

Farm JACKSON Acres 85

Address 120 Marshall St. Clarksburg, W.V. 26301

Location (waters) Birds Run

Coal Owner Unknown - Unoperated

Well No. 469 Elevation 1132.2

Address \_\_\_\_\_

District Elk County Harrison

Coal Operator \_\_\_\_\_

Quadrangle Brownton 7.5'

Address \_\_\_\_\_

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 12-13-81.

INSPECTOR  
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St. Clarksburg, W.V. 26301

PHONE 622 - 3871

*Paul Garrett*  
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 April 22 19 80 by T. Jackson made to Sterling Drilling and Production Co., Inc. and recorded on the 28th day of April 19 80 in Harrison County, Book 1090 Page 1081 Lease # 145 - 002

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

Arcade Building-710 Virginia St., E.  
Street  
Charleston  
City or Town  
West Virginia 25301  
State

Very truly yours,  
(Sign Name) *Charles E. Moore*  
Well Operator

\*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.

47-033-2577 \_\_\_\_\_ 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 \_\_\_\_\_

BLANKET BOND

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 FWA Drilling Co., Inc. NAME Gordon C. Morton  
 ADDRESS Box 448 Elkview, W.V. 25071 ADDRESS Arcade Building Charleston, W.V.  
 TELEPHONE 965 - 3379 TELEPHONE 342 - 0121  
 ESTIMATED DEPTH OF COMPLETED WELL: 4438' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Benson  
 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			
<del>11 - 3/4</del> 9 - 5/8	130'	130'	100sks
8 - 5/8	1310'	1310'	300sks
7			
5 1/2			
4 1/2		4438'	150sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS 0 \_\_\_\_\_  
 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 \_\_\_\_\_ 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 \_\_\_\_\_ 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

\_\_\_\_\_  
Official Title