



92  
2.78 S  
3.48 W  
4

LONGITUDE 80 ° 10

Minimum Error of Closure 1 ft. 10 in. 200 ft.

Source of Elevation Well No. 1 - 1123'

- Fracture
- 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.

Signed: \_\_\_\_\_  
Squares: N S E W

Map No. \_\_\_\_\_

Company WHITE SHIELD OIL & GAS CORP.  
 Address P.O. Box 2139, Tulsa, Oklahoma  
 Farm Terry Morrow et al  
 Tract \_\_\_\_\_ Acres 296.16 Lease No. \_\_\_\_\_  
 Well (Farm) No. Knight Enterprises, Morrow No. 3  
 Elevation (Spirit Level) 1264  
 Quadrangle Philippi NW  
 County Harrison District Simpson  
 Engineer W. H. Black Jr.  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Nov. 12, 1972 Scale 1" = 1000'

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

WELL LOCATION MAP  
 FILE NO. HAR-647

+ 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.

5-5 EIK Creek ~~to~~ Taylor Drain (316)  
 (overfield) 155

NOV 20 1972



**RECEIVED**  
APR 16 1973

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

OIL & GAS DIVISION  
DEPT. OF MINES

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

Quadrangle Philippi  
Permit No. Har 647-PP

39-15  
1-32  
8

Company White Shield Oil and Gas Corp.  
Address P.O. Box 2139, Tulsa, Oklahoma 74101  
Farm Morrow #2 Acres 296  
Location (waters) Glade Run of Bushy Fork  
Well No. Two Elev. 1267  
District Simpson County Harrison  
The surface of tract is owned in fee by James Davisson  
and Dale Taylor  
Address unknown  
Mineral rights are owned by Terry Morrow & David Morrow  
Address Clarksburg, W. Va.  
Drilling Commenced 11-15-72  
Drilling Completed 11-29-72  
Initial open flow 240,000 cu. ft. -0- bbls.  
Final production 34,000 cu. ft. per day - bbls.  
Well open 24 hrs. before test 760 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Concl. 13-10"	42	42	8 sx.
9 5/8 8 5/8	1091	1091	300 sx.
7 5 1/2 4 1/2	1812	1812	120 sx.
3 2			

Well treatment details: Injun Sand - Frac'd w/800 Bbls sand ladden fluid using 56,000# 20/40 sand  
Attach copy of cementing record.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet  
Producing Sand Injun Sand Depth 1652 - 1684

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	430		
Shale & Sand			430	1034		
RR & Shale			1034	1386		
Sand, Shale			1386	2323		Top of Big Lime 1530'
Sand & Shale			2323	2610		
Shale & Sand			2610	3337		
Shale & Sand			3337	4235		
Sand & Shale			4235	4625		Top of Benson 4481'
			4650	TD		
				PBTD 1900'		

\*TD 4650' - Plugged back as follows:  
55 sx cmt 4450-2050, 150 Bbls.  
(30 sx) gel 4450-2050, 45 sxs cmt.  
2050-1900, Pmpd 40 Bbls. fresh wtr.  
50 Bbls. (10 sxs.) gel & 8 Bbls.  
water spacer. Cmt. w/120 sx reg.

\* Indicates Electric Log tops in the remarks section.

(over)

APR 23 1973



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

NOV 13 1972

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 13, 1972

Surface Owner James Davisson et ux  
Dale Taylor et ux  
Address Unknown  
Mineral Owner Terry Morrow & David L. Morrow  
Address Clarksburg, W. Va.  
Coal Owner Terry Morrow and David L. Morrow  
Address Clarksburg, W. Va.  
Coal Operator None  
Address \_\_\_\_\_

Company White Shield Oil & Gas Corp.  
Address P. O. Box 2139, Tulsa, Oklahoma  
Farm Terry Morrow, etals Acres 296.16  
Location (waters) Brushy Fork  
Well No. TKE Morrow #3 Elevation 1264  
District Simpson County Harrison  
Quadrangle Philippi

APPROVAL AT THE WELL SITE

In accordance with Chapter 22, of the Code of West Virginia, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 3-13-73.

Robert L. Todd  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED William Blosser  
Colfax, W.Va. PH: 363-9105

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 March 10 19 72 by Terry Morrow, et als made to White Shield Oil & Gas Corp. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Harrison County, Book 999 Page 751  
 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.

Very truly yours, WHITE SHIELD OIL AND GAS CORP.

By: (Sign Name) J. R. Harrison  
Well Operator  
P. O. Box 459  
Street  
Buckhannon  
City or Town  
West Virginia  
State

Address of 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.

BLANKET BOND

HAR-647

PERMIT NUMBER

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

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN X FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Union Drilling Company NAME J. R. Harrison  
 ADDRESS Box 347, Buckhannon, W. Va. ADDRESS Box 459, Buckhannon, W. Va.  
 TELEPHONE 304-472-4610 TELEPHONE 304- 472-6100  
 ESTIMATED DEPTH OF COMPLETED WELL: 4600' 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			
13 - <del>30x</del>	50'	50'	40 sx
9 - 5/8			
8 - 5/8 11" hole	1050'	1050'	Circulate to surface
7			
5 1/2			
4 1/2 7 7/8" hole	4600'	1700'	320 sx
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 40 FEET 125 SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS Unknown  
 IS COAL BEING MINED IN THE AREA? Already stripped 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