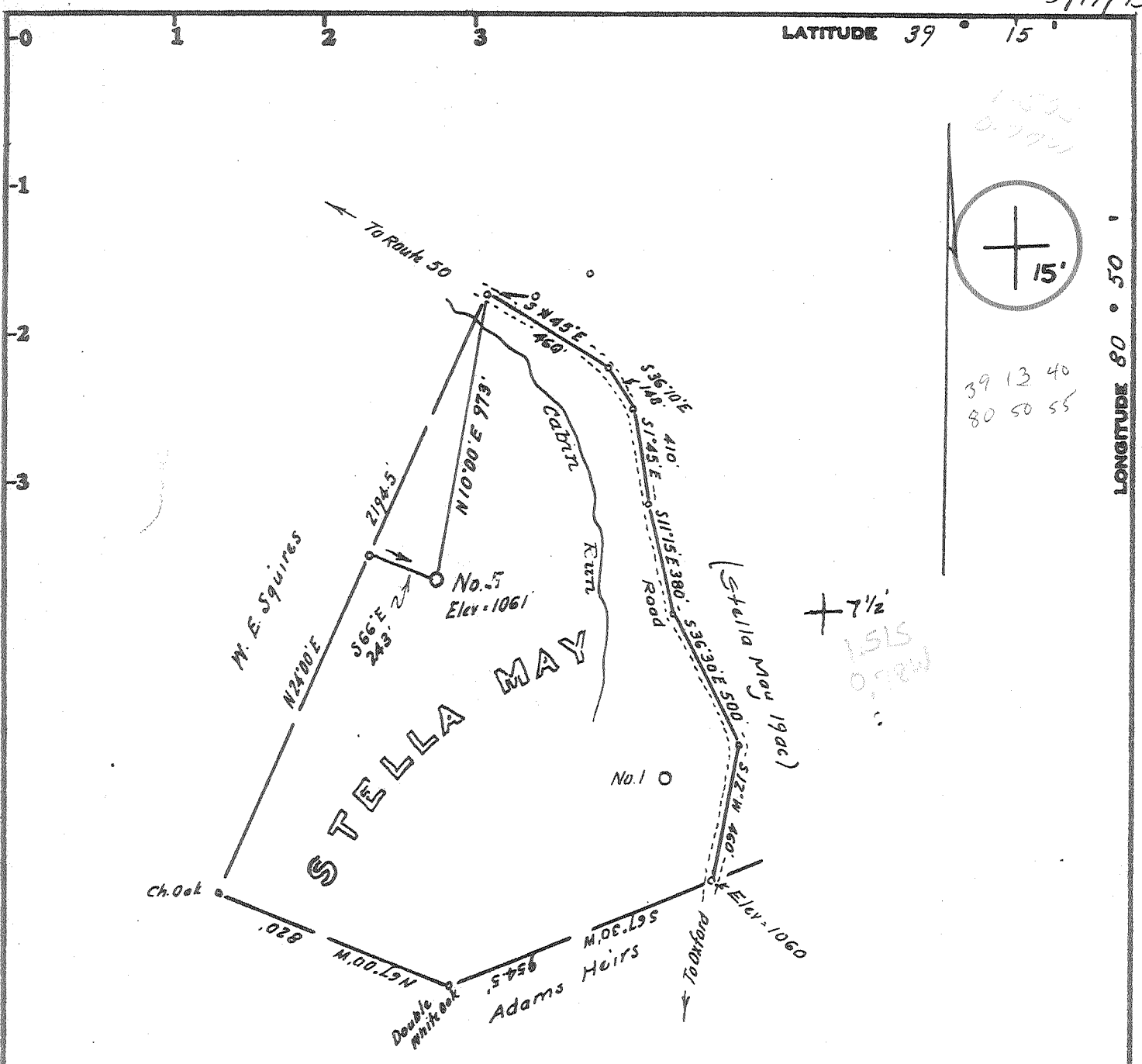


9/17/79 R



**LEGEND**  
 Lines plotted from deed calls  
 Surveyed Lines  
 Road  
 Well Location

**OWNERSHIP**  
 No coal  
 Surface: - Emmett James  
 Oxford, W. Va.  
 Oil & Gas: - Cunningham Heirs  
 do Stella May,  
 West Union W. Va.

Minimum Error of Closure 1 in 200  
 Source of Elevation Elev of road at top of hill (SE corner of tract) = 1060

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.

Fracture.....   
 New Location.....   
 Drill Deeper.....   
 Abandonment.....

Map No. \_\_\_\_\_ Signed: \_\_\_\_\_  
 Squares: N S E W

Company UNITED OPERATING CO.  
 Address 600 Commerce Square, Charleston, W. Va.  
 Farm Stella May EMMETT JAMES  
 Tract \_\_\_\_\_ Acres 41 Lease No. \_\_\_\_\_  
 Well (Farm) No. FIVE Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1061 *NC*  
 Quadrangle Oxford 7 1/2 Holbrook 15  
 County Doddridge District Central  
 Surveyor Madgett  
 Surveyor's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Sept 10, 1979 Scale 1" = 500'

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

**WELL LOCATION MAP**  
 FILE NO. 47-017-2489

+ 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. OCT 9 1979

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

6-6 STRAIGHT FR. BLUESTONE CR 133

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

Date October 23, 1979

FORM IV-35  
(Obverse)

Operator's  
Well No. Cunningham #5

[08-78,

WELL OPERATOR'S REPORT  
OF

API Well No. 47 - 017 - 2488  
State County Permit

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal  /  
(If "Gas", Production  / Underground storage  / Deep  / Shallow  /  
LOCATION: Elevation: 1061 Watershed: Cabin Run  
District: Central County: Doddridge Quadrangle: Oxford 7 1/2

WELL OPERATOR United Operating Company DESIGNATED AGENT Jack L. Trittipio  
Address 600 Commerce Square Address 600 Commerce Square  
Charleston, WV 25301 Charleston, WV 25301

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

*[Handwritten signature]*  
NOV 13 1979

PERMIT ISSUED ON September 18, 1979

OIL & GAS DIVISION  
DEPT. OF MINES  
OIL & GAS INSPECTOR FOR THIS AREA  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, WV 622-3871

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED

GEOLOGICAL TARGET FORMATION: Benson-Elk Depth \_\_\_\_\_

Depth of completed well, 5550 feet Rotary  / Cable Tools

Water strata depth: Fresh, 250 feet; salt, \_\_\_\_\_ feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced 10/6, 1979, and completed 10/19, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Fresh water								
Coal								Sizes
Intermediate	<u>8 5/8</u>	<u>A</u>	<u>20</u>	<input checked="" type="checkbox"/>		<u>1144</u>	<u>1144</u>	<u>C150</u>
Production	<u>4 1/2</u>	<u>BRW</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>0</u>	<u>5450</u>	<u>3000 fillup</u> Depths set
Tubing								
liners								Perforations: <u>3446</u> <u>5360</u>

OPEN FLOW DATA

Producing formation Devonian Sands - Benson - Elk Pay zone depth 3446 - 5360 feet  
Gas: Initial open flow, Sho Mcf/d Oil: Initial open flow, No Test Bbl/d  
Final open flow, 500 Mcf/d Final open flow, No Test Bbl/d  
Time of open flow between initial and final tests, 0 hours  
Static rock pressure, 1700 psig (surface measurement) after 72 hours shut in

[if applicable due to multiple completion--]  
Second producing formation Devonian Sands - Benson Pay zone depth 3446 - 4896 feet  
Gas: Initial open flow, Sho Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Final open flow, See above Mcf/d Final open flow, No Test Bbl/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, 1500 psig (surface measurement) after 72 hours shut in

NOV 28 1979

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

Limited entry used on zone from 3446 to 3896. Fractured with 700 bbls. fluid 20.000 # 80/100 mesh sand 35.000 # 20/40 mesh sand. Elk zone fractured with 15.000 # 80/100. 30.000 # 20/40 sand, 500 bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand - shale	Grey	H	0	1672	
Sand	"	"	1672	1728	
Shale	"	S	1728	1792	
Sand	"	H	1792	1806	
Shale	"	S	1806	2008	
Lime	"	H	2008	2146	
Big Injun	"	H	2146	2214	
Shale	"	S	2214	2384	
Weir S.S.	"	M	2384	2506	
Shale - some Sand Stringers	"	S	2506	3484	
Sand	"	H	3484	3508	
Shale - Sand Stringers	"	<del>S</del> S	3508	4484	
Sand - Benton(?)	"	<del>S</del> S	4484	4896	
Shale	A	<del>S</del> S	4896	5304	
Fill Sand	6	S	5304	5364	
Shale	6	S	5364	5548	T.D.

(Attach separate sheets to complete as necessary)

United Operating Company  
Well Operator

By J. L. Trittipolo (Jack L. Trittipolo)  
Its President

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 coal, encountered in the drilling of a well."

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil  / Gas   
(If "Gas", Production  / Underground storage  / Deep  / Shallow )  
LOCATION: Elevation: 1061 Watershed: Cabin Run  
District: Central County: Doddridge Quadrangle: Oxford 7 1/2

WELL OPERATOR United Operating Company  
Address 600 Commerce Square  
Charleston, WV 25301

DESIGNATED AGENT Jack L. Trittipo  
Address 600 Commerce Square  
Charleston, WV 25301

OIL & GAS ROYALTY OWNER Stella May & Richard Cunningham  
Address West Union, WV (SM)  
Cucamonga, Calif. (RC)

COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_

Acreage 41

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Emmett James  
Address Oxford, WV

Name \_\_\_\_\_

Acreage 41

Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:

Name \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED

Name \_\_\_\_\_

Name Paul Garrett

Address \_\_\_\_\_

Address 321 Beech Street  
Clarksburg 622-3871

Address SEP 17 1979

OIL & GAS DIVISION  
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated July 24, 19 78, to the undersigned well operator from United Operating Company

[If said deed, lease, or other contract has been recorded:]

Recorded on Jan 30, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 107 at page 380. A permit is requested as follows:

PROPOSED WORK: Drill  / Drill deeper  / Redrill  / Fracture or stimulate   
Plug off old formation  / Perforate new formation   
Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

United Operating Company  
Well Operator  
By Jack L. Trittipo (Jack L. Trittipo)  
Its President

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) \_\_\_\_\_

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Benson - Elk

Estimated depth of completed well, 5,400 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 25 feet; salt, \_\_\_\_\_ feet.

Approximate coal seam depths: NA Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_ /

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									Kinds
Fresh water									
Coal									Sizes
Intermediate	8-5/8 H		24	X		600	.600	circulated	
Production	4-1/2 K or		10.5	X		0	5,400+-	2,000 fill	Depths set
Tubing		ERW							
Liner									Perforations:
									Top Bottom

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 5-18-80.

Robert R. [Signature]  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19 \_\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_