

11,700'

11/19/79

LATITUDE 39° 10' 00"  
(7 1/2) 39° 12' 30"  
(15') 39° 15'

LONGITUDE 80° 40' 00"

14,850'

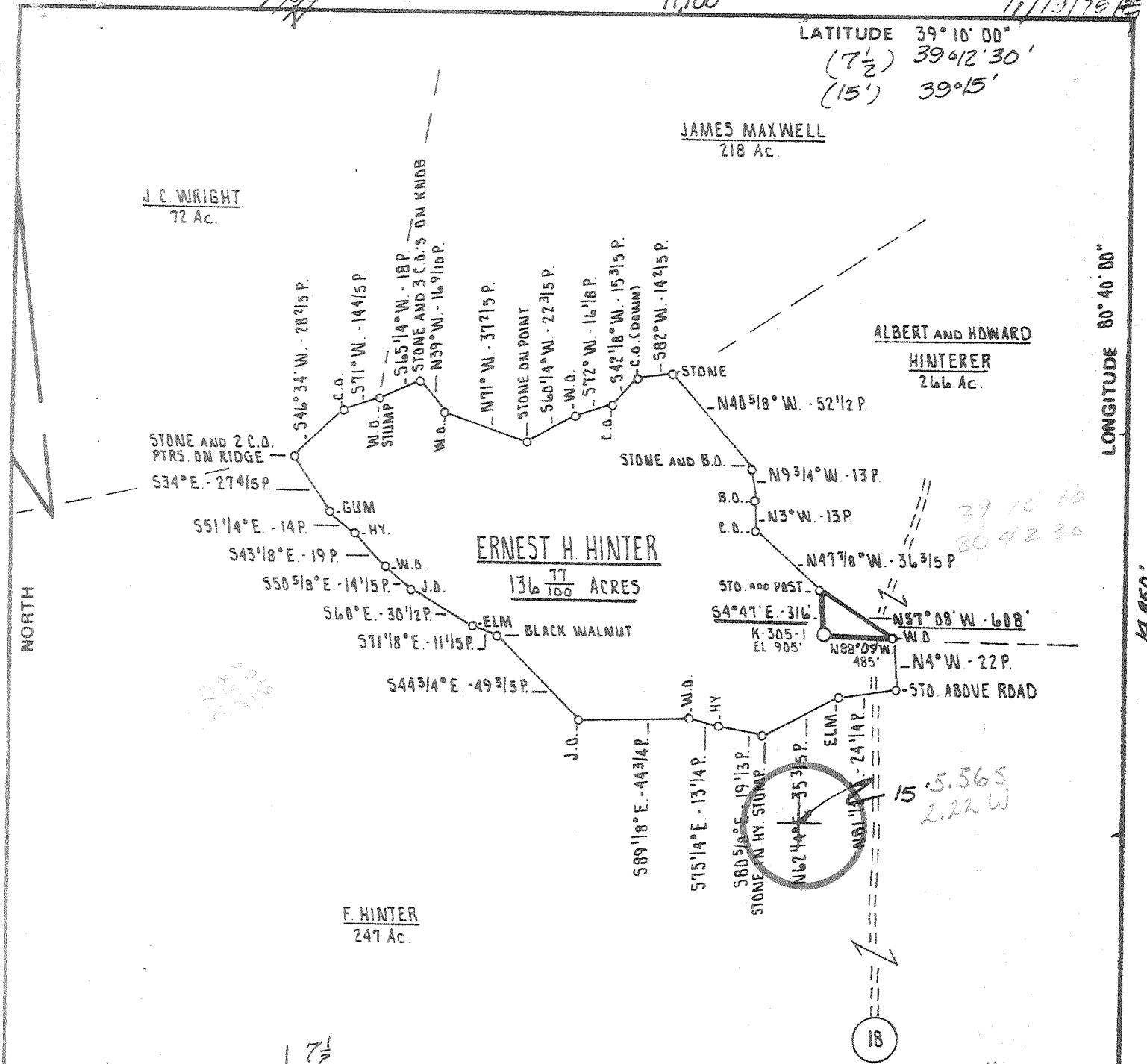
J. C. WRIGHT  
72 Ac.

JAMES MAXWELL  
218 Ac.

ALBERT AND HOWARD  
HINTERER  
266 Ac.

ERNEST H. HINTER  
136 77/100 ACRES

F. HINTER  
247 Ac.



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION B.M. ON S.L.S. RT. # 18  
 1300' NORTH OF INT. OF S.L.S. RT. # 54  
 ELEVATION 903'

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) *Daniel L. Wheeler*  
 R.P.E. \_\_\_\_\_ L.L.S. 530

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE NOVEMBER 13<sup>th</sup> 19 79  
 OPERATOR'S WELL NO. K-305-1  
 API WELL NO. 47 - D11 - 2542  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 905' WATER SHED TOM'S FORK  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5' , VADIG 15' NW  
 SURFACE OWNER ERNEST HINTER ACREAGE 136  
 OIL & GAS ROYALTY OWNER ERNEST HINTER LEASE ACREAGE 136  
 LEASE NO. K-305-1  
 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 ALEXANDER ESTIMATED DEPTH 5150  
 WELL OPERATOR J. AND J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT  
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48  
 BUCKHANNON, WEST VIRGINIA 26201 BUCKHANNON, WEST VIRGINIA 26201

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

Date February 13, 1980

FORM IV-35  
(Obverse)

Operator's Well No. K-305-#1

[08-78]

WELL OPERATOR'S REPORT

API Well No. 47-017-2542  
State County Permit

OF  
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: 905' Watershed: Tom's Fork  
District: New Milton County: Doddridge Quadrangle: New Milton 7 1/2

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H. L. Barnett  
Address P. O. Box 48 Address P. O. Box 48  
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_ FEB 14 1980

PERMIT ISSUED ON November 19, 1979 OIL & GAS INSPECTOR FOR THIS WORK DEPT. OF MINES  
Name Paul Garrett  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_ Address 321 Beech Street  
\_\_\_\_\_, 19 \_\_\_\_\_ Clarksburg, W. Va. 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5210 feet  
Depth of completed well, 5496 feet Rotary  / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, 47,147 feet; salt, 0 feet.  
Coal seam depths: None Is coal being mined in the area?   
Work was commenced January 9, 1980, and completed January 16, 1980

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 3/4	H-40	42	X		28	0	0 sks.	Minds None
Fresh water	8 5/8	ERW	23	X		1021	1021	260 sks.	
Coal	8 5/8	ERW	23	X		1021	1021	260 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5402	5402	270 sks.	Depths set
Tubing									
Packers									Perforations:
									Top Bottom
									5216 5252
									4924 4928
									4472 4494

OPEN FLOW DATA  
Producing formation: Alexander Pay zone depth 5216-5252 feet  
Gas: Initial open flow, show Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
COMBINED Final open flow, 231 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests, 16 hours  
Static rock pressure, 1200 psig (surface measurement) after 4 hours shut in.

[If applicable due to multiple completion--]  
Second producing formation Benson/Riley Pay zone depth 4472-4494 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Final open flow, \_\_\_\_\_ Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in.

MAR 5 1980

2542

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


Alexander- Perforations: 5216-5222 (8 holes), 5232-5234 (2 holes), 5248-5252 (4 Holes).  
 Fracturing: 500 gal. Acid; 30,000 lbs. Sand 80/100 wire mesh; 30,000 lbs. Sand 20/40 wire mesh; 630 Bbls. Fluid.

Benson/Riley- Perforations: 4924-4928 (14 holes), 4472-4476 (8 holes), 4490-4494 (6 holes).  
 Fracturing: 1000 gal. Acid; 25,000 lbs. Sand 80/100 wire mesh; 49,000 lbs. Sand 20/40 wire mesh; 750 Bbls. Fluid.

WELL LOG

FORMATION	Color	Hard or Soft	1/3 Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and gas
Clay			0	15	
Shale			.15	90	
Red Rock			90	110	1" Stream water 47'
Sand			110	180	
Red Rock			180	200	
Sandy Shale			200	245	
Red Rock & Shale			245	270	2" stream water 270'
Sand			270	300	
Shale			300	570	
Sand			570	620	
Shale			620	735	
Shale & Red Rock			735	990	
Shale			990	1430	
Sand			1430	1490	Hole Damp 1470'
Shale			1490	1670	
White Sand			1670	1755	
Shale			1755	1960	
Time			1960	2045	
Big Injun			2045	2160	
Shale			2160	2260	
Shale			2260	2340	
Shale			2340	2435	
Sand			2435	2495	
Sandy Shale			2495	3490	
Sand			3490	3935	
Shale			3935	4020	
Shale			4020	4480	
Shale & Shale			4480	4497	
Shale			4497	4665	
Benson			4665	4922	
Shale			4922	4929	
Alexander			4929	5210	Gas @5036 40/10-1 1/2" with water
Shale			5210	5285	
			5285	5496	
			TD	5496	Gas @5496' 40/10-1 1/2" with water

(Attach separate sheets to complete as necessary.)

J & J ENTERPRISES, INC.  
 Well Operator  
 By   
 PETER BATTLES  
 Its GEOLOGIST

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."



PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling Company

Address P. O. Box 48

Buckhannon, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5150 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 100 feet; salt, 1600 feet.

Approximate coal seam depths: 80' Is coal being mined in the area? Yes      / No X /

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		Kinds	None
Conductor	11 3/4	H-40	42	X		30	0	0 sks.	None	
Fresh water	8 5/8	ERW	23	X		1600	1600	300 sks.		
Coal	8 5/8	ERW	23	X		1600	1600	300 sks.	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	X		5125	5125	250 sks.	Depths set	
Tubing										
Liners									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 8-4-80.

*[Signature]*  
Deputy Director - Oil & Gas Division

... by the coal operator and by any coal owner or coal lessee who has not filed 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