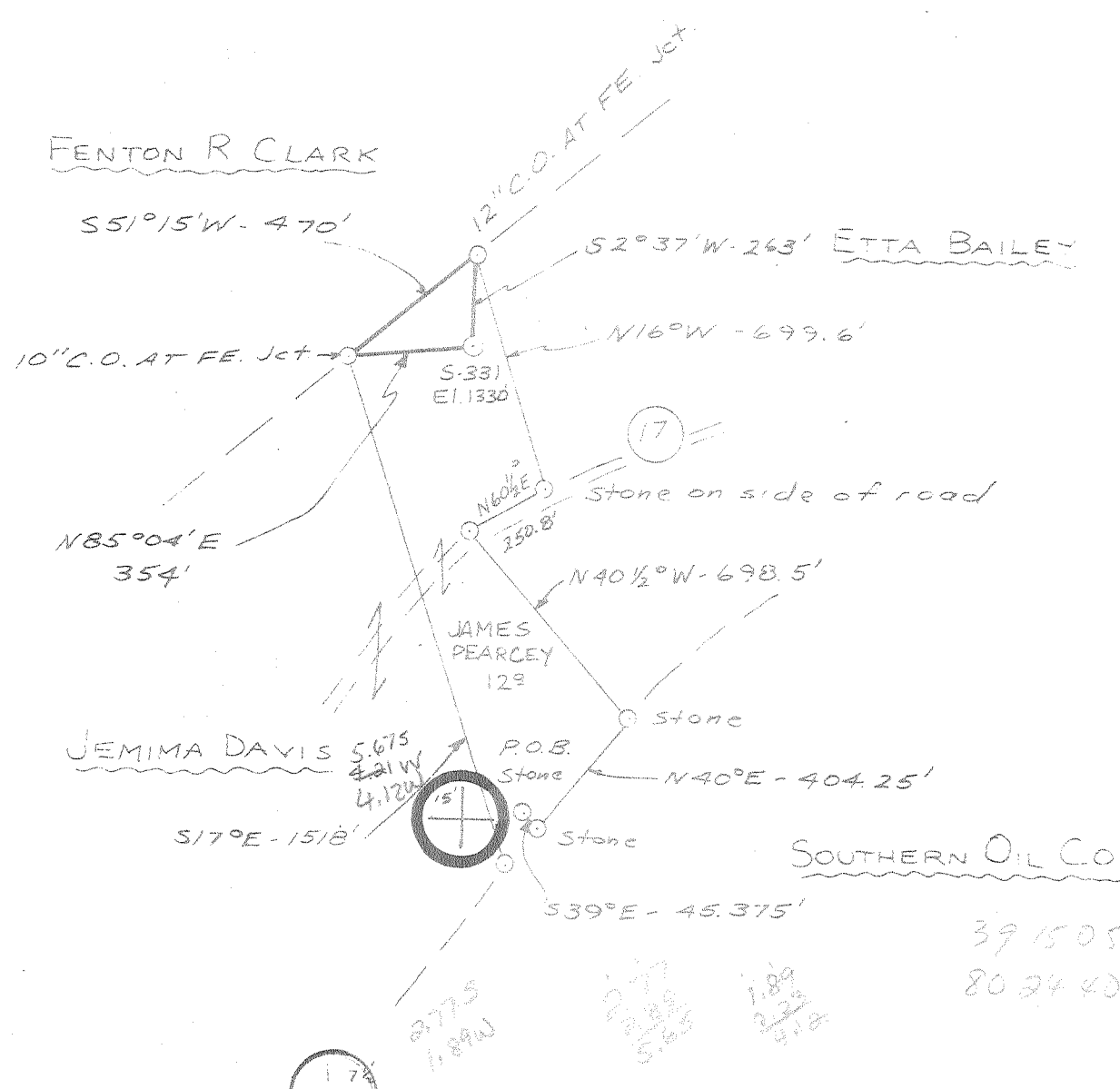


NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE: 1" = 500'
 MINIMUM DEGREE OF ACCURACY: 1" IN 200'
 PROVEN SOURCE OF ELEVATION: U.E. El. = 1012'
BIG ISAAC 7 1/2' TOPO

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) Douglas Paul Monts
 R.P.E. 7002 L.L.S. _____

PLACE SEAL HERE

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



DATE OCTOBER 31 19 80
 OPERATOR'S WELL NO. S-331
 API WELL NO. _____
47 - 017 - 2863
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1330' WATER SHED GREENBRIER CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE SALEM 7 1/2' TOPO 15' 1" 1" 50'
 SURFACE OWNER FOREST BAILEY ACREAGE 12⁹ 45⁹ Poles
 OIL & GAS ROYALTY OWNER JAMES PEARCEY LEASE ACREAGE 12⁹ 45⁹ Poles
 LEASE NO. _____
 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 5,200'
 WELL OPERATOR SCOTT OIL & GAS DESIGNATED AGENT JAMES F. SCOTT
 ADDRESS P.O. BOX 112 ADDRESS P.O. BOX 112
SALEM, W.V. 26426 SALEM, W.V. 26426

017-2863

WELL TYPE: Oil X Liquid Injection _____ Waste Disposal _____
Oil X "Gas", Production _____ Underground storage _____ / _____ X
LOCATION: Elevation: 1330' Watershed: Greenbrier Creek
District: Greenbrier County: Doddridge Township: Salem 7.5'

WELL OWNER: James J. Smith REGIONAL AGENT: SAME
Address: P.O. Box 112 _____
Salem, W. Va. 26436 _____

PERMITTED WORK: Initial X Drift _____ Drill deeper _____ Re-drill _____ Intake or stimulate _____
Plug off old formation _____ / Perforate new formation _____ /
Other minimal change in well (specify) _____

PERMIT NUMBER: Nov. 3 _____, 1980 OIL & GAS INSPECTOR FOR THIS WORK:
Name: Paul Garrett
Address: 321 Beech St.
Clarksburg, W. Va. 26301

PROPOSED TARGET STRATIGRAPHY: Alexander, Benson Depth: 5785 feet
Depth of completed well, 5785 feet Rotary X / Cable Tools _____
Water table depth: Fresh, 640 feet; salt, _____ feet.
Coal seam depths: 215-215; 350-353 Is coal being mined in the area? _____
Work was commenced Nov. 14 _____, 1980, and completed Nov. 19 _____, 1980

CEMENTING AND GRADING PROGRAM

SIZING OR SIZING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-IN OR SACKS (Cubic Feet)	REMARKS
	Size	Grade	Height per ft.	Use	For drilling	Left in well		
	11-3-4							
	5-8			X		1100	to surface	
				X		5730	430 lbs.	to be set

RECEIVED
AUG - 1981

OIL & GAS DIVISION
DEPT. OF MINES
5560-35
Alexander 5604-5610
Benson 5205-5560

AUG 17 1981

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

Benson 5268-76 14 holes
 Alexander 5604-10 12 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
and & Shale			0	50	
Shale & R. Rock			50	212	
Coal			212	215	1/2" H ₂ O at 640'
and			215	235	
Shale			235	350	
Coal			350	353	
and & Shale			353	1213	
Rock & Shale			1213	1276	
and & Shale			1276	1307	
Rock			1307	1369	
Shale			1369	1493	
and & Shale			1493	1730	
and			1850	2018	
and & Shale			2018	2171	
Shale			2171	2280	
Big Lime			2280	2328	
Shale			2328	2483	
and & Shale			2483	5186	3632
Shale			5186	5265	
Benson			5265	5280	
Shale			5280	5430	
Benson # 2			5430	5450	
Shale			5450	5560	
Alexander			5560	5585	
Shale			5585	5600	
Gamma Ray Log					
Big Lime			2310	2460	
Benson			5267	5282	
Alexander			5604	5611	

(Attach separate sheets to complete as necessary)

James F. Scott
 Well Operator

By _____
 Its Owner/Operator

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-30 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling
Address Buckhannon, W. Va.

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5200 feet Rotary X / Cable tools

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

Approximate coal seam depths: 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		
Conductor	11 3/4							Kinds
Fresh water								
Coal								Sizes
Intermediate	8 5/8			X		1000	to surface	
Production	4 1/2			X		5200	300 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-30 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 drilling within 200 feet of the proposed well.

A separate Form IV-30 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 **THIS PERMIT MUST BE POSTED AT THE WELL SITE** in connection therewith.

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 7-5-81.

[Signature]
Deputy Director - Oil & Gas Division

This permit shall not be completed by the well operator and by any other person who has recorded a declaration under Code § 22-4-10, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

I, owner / lessee / of the coal under this well have 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 a well being drilled at this location, provided, the well operator has complied with all applicable provisions of the West Virginia Code and the governing regulations.

By
Its

