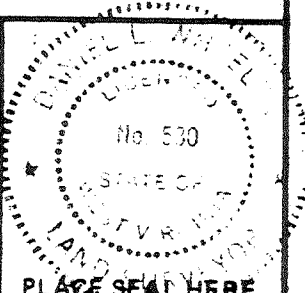


WELL TIES	BEARING	DISTANCE
DOTSON #1 - DOTSON #6	N24°46'E.	1051'
DOTSON #1 - PENNZOIL #8	N59°14'E.	259'
PENNZOIL #8 - DOTSON #6	N14°50'E.	850'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION DOTSON #1
 ELEVATION DOTSON #1
 ELEVATION 794'

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. Whelan
 R.P.E. _____ L.L.S. 530



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



DATE JULY 14th 1981
 OPERATOR'S WELL NO. DOTSON #6
 API WELL NO. _____
47 - 017 - 3039-00
 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 740' WATER SHED BIG FLINT RUN
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE CENTER POINT 413'
 SURFACE OWNER A.G. DOTSON ACREAGE 446.50 Ac.
 OIL & GAS ROYALTY OWNER A.G. DOTSON LEASE ACREAGE 446.50 Ac.
 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) OLD SOUTH PENN. #6
WELL - PRESENT DEPTH 1892'
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION INJUN ESTIMATED DEPTH 2000'
 WELL OPERATOR DOTSON OIL AND GAS DESIGNATED AGENT A.G. DOTSON
 ADDRESS CENTER POINT ADDRESS CENTER POINT
WEST VIRGINIA 26339 WEST VIRGINIA 26339

SEP 21 1981

OWWO 6-6 Salam (102) Swiger (Flint Run)



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date JUNE 6- 1983
Operator's Well No. DOTSON # 6
Farm A.G. DOTSON FARM
API No. 47 - 17 - 3039

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 740 Watershed BIG FLINT RUN
District: GRANT County DODDRIDGE Quadrangle CENTER POINT.

COMPANY DOTSON OIL & GAS
ADDRESS CENTER POINT, W.Va. 26339
DESIGNATED AGENT ARLIE G. DOTSON
ADDRESS CENTER POINT, W.Va. 26339
SURFACE OWNER ARLIE G. DOTSON
ADDRESS CENTER POINT, W.V. 26339
MINERAL RIGHTS OWNER ARLIE G. DOTSON
ADDRESS CENTER POINT, W.V. 26339
OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN CASEY ADDRESS JANE LEW, W.VA.
PERMIT ISSUED AUGUST, 31-1981

DRILLING COMMENCED Jan, 29-1982 CLEAN OUT
Set Packers to NO AVAIL
DRILLING COMPLETED MAY 5-1983
CEMENT WELL & FRACTURE.
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON VERBAL ON FRACTURING.

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	OLD		
13-10"			
9 5/8			
8 5/8	940	940	
6 7/8	1800	1800	
5 1/2			
4 1/2	NEW STRING 10.54GT CEMENTED UP TO 1440'		
4 1/2	1861	1861	50 SKS
2			
Liners used			

GEOLOGICAL TARGET FORMATION INJUN Depth 1820' feet
Depth of completed well 1862' feet Rotary / Cable Tools X
Water strata depth: Fresh 107 feet; Salt 0 feet
Coal seam depths: 462' Is coal being mined in the area?

OPEN FLOW DATA
Producing formation INJUN Pay zone depth 1820 feet
Gas: Initial open flow SHOW Mcf/d Oil: Initial open flow 1 BBL Bbl/d
Final open flow Mcf/d Final open flow 1 BBL Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 100 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: 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

JUL 18 1983
(Continue on reverse side)

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

INJUN: PERFORATIONS: 1822-1832 (12 HOLES)
 12000 - 80/100 SAND, 45000-20/40 SAND.
 500 GAL. J267, -15--F-78-, 20#--W-22=500GALS
 15% H-C-L, ACID.
 633 BBLs FLUID, # 1664-CCF, N2, NITROGEN.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
ORIGINAL WELLDRIILLED					
JUNE, 29-1895 BY					
SOUTH PENN OIL CO.					
PIPE IN HOLE AS PER			462' T		COAL.
SOUTH PENN RECORDS.			1787' T		INJUN. ✓
WITH THE EXCEPTION			1787'		1ST PAY. ✓
OF THE NEW STRING			1880'		2ND PAY. ✓
OF 4 1/2 PIPE, 10.5					
WEIGHT.					
OF WHICH WAS CEMENT			--		
-nted BY DOWELL,					
APPROVED BY FIELD			1880' TOTAL DEPTH,		SOUTH PENN FIGURES.
INSPECTER.			18' CEMENTED & JELLED BACK		
(50 SKS. CEMENT)			1862' TOTAL DEPTH FOR HOLE.		

(Attach separate sheets as necessary)

William H. [Signature]
 Well Operator

By: *William H. [Signature]*

Date: *July 5-1983.*

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."



Form IV-2
(Obverse)
(08-78)

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL and GAS DIVISION
OIL and GAS WELL PERMIT

DATE AUG 10- 1981

Operator's Well No. DOTSON, # 6

API Well NO. 47 - I7 - 3039-DD.
State County Permit

WELL TYPE: Oil X / Gas _____ /
If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X (/)
LOCATION: Elevation: 740 Watershed: BIG FLINT RUN
District: GRANT County: DODDRIDGE Quadrangle: CENTER POINT

WELL OPERATOR DOTSON OIL & GAS
Address GEN. DEL. CENTER POINT, W.VA. 26339

DESIGNATED AGENT A. G. DOTSON
Address GEN. DEL. CENTER POINT, W.Va. 26339

OIL & GAS ROYALTY OWNER ARLIE G. DOTSON
Address CENTER POINT, W.Va. 26339

COAL OPERATOR NONE (NO COAL)
Address _____

ACREAGE 446.50 (446.50)
SURFACE OWNER ARLIE G. DOTSON
Address CENTER POINT, W.Va.

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name A. G. DOTSON (IF ANY COAL)
Address CENTER POINT W.Va.

ACREAGE NONE.
FIELD SALE (IF MADE) TO: NONE.
Address _____

Name RECORDING OF DEED BELOW
Address COVERS COAL. (IF ANY)

OIL AND GAS INSPECTION TO BE NOTIFIED
Name STEPHEN CASEY
Address RT. # 2, BOX, 232-D JANE LEW, WV. 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name NONE.
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes as the above location under a deed DEED / lease _____ / other contract _____ / dated JUNE, 1972, to the undersigned well operator from STEWART HEIRS.

(If said deed, lease, or other contract has been recorded:)
Recorded on SEPT. 11, 1972, in the office of the Clerk of the County Commission of DODDRIDGE County, West Virginia in Book 163 at page 208. A permit is requested as follows:

PROPOSED WORK: Drill _____ / Drill deeper X / Redrill _____ / Fracture or stimulate X /
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

RECEIVED

AUG 31 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

BY: Archie B. Dotson

BLANKET BOND

BLANKET BOND

Survey

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 DEEPENING. This permit shall expire if operations have not commenced by May 4, 1982.

Fred Burdette
Deputy Director - Oil & Gas Division

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) ROBERT CHISSLER
DAY BROOK (NEAR)
MANNINGTON, W.Va.

GEOLOGICAL TARGET FORMATION, _____

Estimated depth of completed well 2000 feet Rotary _____ / Cable tools X /

Approximate water strata depths: Fresh, 50 feet; salt, _____ feet.

Approximate coal seam depths: NONE Is coal being mined in the area? Yes _____ / No NO /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP or SACKS (Cubit Feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left in well		
Conductor	16"							cement to surface	
Fresh Water	8-5/8"		ERW		X	940	940		Sizes
Coal	8-5/8"		"					cement to surface	
Intermediate	6-5/8"		"		X	1800	1800		Depths set
Production	4-1/2"	J-55	9.5	X		2000	2000	cement to 300' above producing horizon or as required by Rule 15.01	
Tubing									Perforations:
Liners									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 form 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.

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 with fifteen (15) days of receipt thereof.

WAIVER

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 by the West Virginia Code and the governing regulations.

Date: _____ 19 _____

BY: _____

[Faint stamps and signatures at the bottom of the page]