

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION SPOT ELEVATION 612 AT ROAD INTERSECTION (FLINN)

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) Dennis L. Fisher
 R.P.E. _____ L.L.S. 670



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE JANUARY 22 19 82
 OPERATOR'S WELL NO. 1015
 API WELL NO. KEM 348
47 - 107 - 1206
 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 787 WATER SHED BIG POND CREEK
 DISTRICT HARRIS BELLEVILLE COUNTY WOOD
 QUADRANGLE POND CREEK T-5 (BELLEVILLE 15) SW
 SURFACE OWNER HERBERT GALLAND ACREAGE 100
 OIL & GAS ROYALTY OWNER HERBERT GALLAND LEASE ACREAGE 100
 LEASE NO. 2710
 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 ORISKANY ESTIMATED DEPTH 4550
 WELL OPERATOR DEVON ENERGY DESIGNATED AGENT ARTHUR C. YOUSE
 ADDRESS BOX 1433 ADDRESS BOX 1433
 WELL CHARLESTON, W.VA. 25325 ADDRESS CHARLESTON, W.VA. 25325

6-6 Neptune FEB 22 1982 (255)



State of West Virginia
Department of Mines
Oil and Gas Division

Date July 12, 1982
Operator's _____
Well No. #1045 KEM #348
Farm Galland
API No. 47-107-1206

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

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

LOCATION: Elevation: 787 Watershed Pond Creek
District: Harris County Wood Quadrangle Pond Creek

COMPANY DEVON ENERGY CORPORATION
ADDRESS Box 1433, Charleston, W. Va.
DESIGNATED AGENT Arthur C. Youse
ADDRESS Box 1433, Charleston, W. Va.
SURFACE OWNER Herbert Galland
ADDRESS Rt. 1, Box 77, Belleville, W. Va.
MINERAL RIGHTS OWNER Same 26133
ADDRESS as above
OIL AND GAS INSPECTOR FOR THIS WORK Deco
Mace ADDRESS Rt. 1, Box 5, Sandridge, W. Va.
PERMIT ISSUED February 3, 1982
DRILLING COMPLETED 1PM May 15, 1982
DRILLING COMPLETED Noon- May 21, 1982
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing Tubing Size 20-16 Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
.10"	271	271	To surface
9 5/8			
8 5/8			
7	1748	489	430 feet
5 1/2			
4 1/2		4555	2195 Feet
3			
2		3792	
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sand Depth 4550 feet
Depth of completed well 4575 feet Rotary XXX / Cable tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: None reported Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3618-3805 feet
Gas: Initial open flow 9 Mcf/d Oil: Initial open flow - Bbl/d
Final open flow 274 Mcf/d Final open flow - Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 725 psig (surface measurement) after 96 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

MAY 29 1984

DETAILS OF PERFORMED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHECK, ETC.

Perforated Oriskany Sand 4488-4492 W/A shots/foot. Frac with 847 BBLs water, 50,000# 20/40 sand and 156,000 SCF nitrogen. Tested gas and salt water after frac. Set wireline bridge plug at 3915' with cal seal on top. Perforated 4-1/2" casing from 3618' to 3805' with 28 shots. Fractured Brown Shale with 365 BBLs water, 75,000# sand and 708,000 SCF nitrogen.

Sturton
3618
2155
1463

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all free and salt water, coal, oil and gas
Soil			0	8	
Shale			8	53	
Sand			53	289	
Shale			289	392	
Sand			392	403	
Shale			403	465	
Sand			465	480	
Shale			480	543	
Sand			543	578	
Shale			578	647	
Sand			647	693	
Shale			693	1043	
Sand			1043	1102	
Shale			1102	1127	
Sand			1127	1143	
Shale			1143	1206	
Sand			1206	1244	
Shale			1244	1260	
Sand			1260	1270	
Shale			1270	1294	
Sand			1294	1355	
Shale			1355	1445	
Sand			1445	1543	
Shale			1543	1563	
Sand			1563	1652	
Big Lime			1652	1696	
Shale			1696	2130	
Coffee Shale			2130	2152	
Berea Sand			2152	2155	
Shale			2155	3307	
Brown Shale			3307	3821	
Shale			3821	4212	
Marcellus Shale			4212	4389	
Onondaga L. S.			4389	4485	
Oriskany Sand			4485	4499	
Helderberg L. S.			4499	4575	
Log Total Depth				4575	

(Attach separate sheets as necessary)

DEVON ENERGY CORPORATION

Well Operator

By: A. C. Youse
A. C. Youse,
Area Exp. Mgr.

Date: July 12, 1982

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."



WELL NO. 1015

FARM Herbert Galland

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

DATE 1/27, 1982

OIL AND GAS WELL PERMIT

WELL TYPE: Oil ___ / Gas XX /
(If "Gas", Production X / Underground storage ___ / Deep X / Shallow ___ /)

LOCATION: Elevation: 787 Watershed: Pond Creek
District: Harris County: Wood Quadrangle: Pond Creek 7-1/2

WELL OPERATOR Devon Energy Corporation
Address PO Box 1433
Charleston, W. Va. 25325

DESIGNATED AGENT Arthur C. Youse
Address PO Box 1433
Charleston, WV 25325

OIL & GAS
ROYALTY OWNER Herbert Galland, et ux
Address Rt. 1, Box 77
Belleville, W. Va. 26133

COAL OPERATOR Not operated
Address _____

Acreage 100 acres

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Same as above

Name _____

Address _____

Address **RECEIVED**

Acreage _____

Name FEB 2 - 1982

FIELD SALE (IF MADE) TO: Not Contracted

Address OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED

COAL LESSEE WITH DECLARATION ON RECORD:

Name Ded Mace

Name _____

Address Rt. 1, Box 5

Address _____

Tel- 655-7398

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease XX

other contract ___ / dated May 25, 19 79, to the undersigned well operator from Herbert

Galland, et ux

(If said deed, lease, or other contract has been recorded:)

recorded on _____, 19 _____, in the office of the Clerk of the County Commission of Wood County, West

Virginia, in Lease Book 722 at page 208. A permit is requested as follows:

PROPOSED WORK: Drill X / 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
15 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

DEVON ENERGY CORPORATION
Well Operator
By Arthur C. Youse
Its Area Expl. Mgr.

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Clint Hurt & Assoc.
Address PO Box 388
Elkview, W. Va. 25071

GEOLOGICAL TARGET FORMATION, Oriskany Sand

Estimated depth of completed well, 4550 feet Rotary XX / Cable tools /

Approximate water strata depths: Fresh, 150 feet; salt, 1500 feet.

Approximate coal seam depths: None / Anticipated Is coal being mined in the area? Yes / No XX /

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	10 3/4			X		300	300	125 sax	To surface
Coal									Sizes
Intermediate	7			X		1750	500	75 sax	430 feet
Production	4 1/2			X			4550	225 sax	Depths set 2700 feet
Tubing	2 3/8			X			4450		
Packers									Perforations:
									Top Bottom

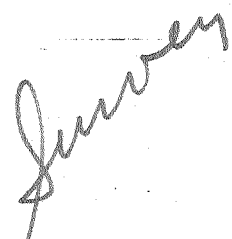
NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security 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 10-3-82.


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.

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 of the West Virginia Code and the governing regulations.

Date: , 19

By

Its