	0. 45		051 -	21036
WELL 1	NAME:	vavid	Smith,	PC-419
DATE	May 10			
	DI.3	31	730	111212

of

DI-381

Virginia Oil and Gas Inspector P. O. Box 1416 Abingdon, VA 24210 703 628-8115

REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) well work specified below on the referenced well in
WELL TYPE: Oil/ Gas _x / Enhanced Recovery/ Waste Disposal If Gas-Production _x / Underground Storage/ Exempt by Code Section 45.1-300.B.l. from general Oil and Gas Conservation Law yesx / no WELL WORK: Drill _x / Deepen/ Redrill/ Stimulate _x / Plug Off Old Formation/ Perforate New Formation _x / Plug/ Replug/ Other physical change in well (specify) The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.
CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332
$\underline{}$ Ninety days from the filing of this report
OR
Two years from, the date on which the referenced well was completed, the well being an exploratory well as defined in Code of Virginia, Section 45.1-288.21.
APPLICANTEquitable Resources Exploration
BY J. Matthew Conrad
ITSGeologist
ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660
TELEPHONE615-378-5101

COMPLETION REPORT

WELL TYPE: Oil () Gas Production Enhanced Recovery () W	(x) Gas-Underground Storage () aste Disposal ()
LOCATION	Included a State Automatical State Control of the C
COUNTY Dickenson	DISTRICT Ervinton
SURFACE ELEVATION _2421.93'	QUADRANGLE Nora
LATITUDE <u>12,185</u> 'S <u>37°</u> <u>05</u> ' <u>00</u> "	LONGITUDE 11.340'W 82° 20 ' 00 "
	ADDRESS Drawer 40. Buckhappon WV 26201
GEOLOGICAL DATA	West, (a)
FRESH WATER AT (1) 275 FEET 1;" s SALT WATER AT (1) FEET	GPM: (2) FEET GPM GPM: (2) FEET GPM
COAL SEAMS:	
NAME MOD DOMMON MULCUN	MINING IN AREA
NAME TOP BOTTOM THICKN	
Middle Horsepen 1806-1807 1	X-Seam 2135-2136 1
C-Seam 1936-1937 1	Poco #8 2231-2232 1
Warcreek 1963-1964 1 Unnamed "C" 1997-1998 1	Poco #4
Lower Horsepen 2078-2079 1	Poco #1 2621-2623 2
OIL AND GAS SHOWS:	POCO #1 2021-2023 2
	PF(MCFD/BOPD) PRESSURE HOURS TESTED
	73 MCFD
Pocahontas 2515 Mississippian 2731	84 MCFD
MISSISSIPPIAN 2731	04 HCFD
Foam Frac using 534 bbls fluid, 14,000# 12/PERFORATED 1856 TO 2622 NO. OF PERFORMATION BROKE DOWN AT 1800 PSI	TION STIMULATED WITH 750 Limited Entry 20 sand and 1,217,300 Scf N2.
STIMULATION RECORD ZONE (2)FORMAT	ION STIMULATED WITH
PERFORATED TO NO. OF PERF	ORATIONS, PERFORATION SIZE G AVERAGE INJECTED RATE BPM MINUTE SHUT IN PRESSURE PSIG
INTERIOR BROKE DOWN AT PSI	MINIMP CUIT IN DESCRIPE DOLC
FINAL PRODUCTION: () NATURAL (x)	AFTER STIMULATION
BOD MCFD HOURS TESTED	ROCK PRESSURE HOURS TESTED
ZONE (1)	
ZONE (Z)	
FINAL PRODUCTION IF GAS ZONES ARE COM	INGLED * 60 MCFD 6 HOURS TESTED
* This is not an absolute open flow.	400 PSIG 12 HOURS TESTED

CASING AND TUBING

PACKERS OR

3"	SIZE	TOP	BOTTOM	LENGTH	FEET TO FE		GE PLUGS SIZE SET AT
CONDUCTOR	11 3/4"		28'				
CASING Circulated and Cement to Surface	ed						
WATER PROT (Casing Se According Section 45.1-334)	t to		327'				
COAL PROTE (Casing Se According Section 45.1-334)	t			·			
OTHER CASI Tubing Lef In Well	t 43"		2680' 2627'	***************************************			
LINERS Remaining In Well				THE REAL PROPERTY.			
OTHER used left	and not						
Is the well protection					No, If You	es, was co	al
REMARKS: S	Shut dow	n, fis	hing jobs	, depths	and dates, o	caving, et	c.
					:		

Form 16, Appendix A Sheat 3 Well Name David Smith, PC-419
Samples and Cuttings Will X Will not be available for examination by a member of the Virginia Division of Mineral Resources
Will X Will not be furnished to the Virginia Division of Mineral
Resources upon request Will Will not X require sacks to be furnished by the Virginia Division of Mineral Resources
Electric Logs and Surveys: Type of Electric Log(s) Ran: _CDL/TEMP/GR
Did log disclose vertical location of a coal seam? Yes _x No
Was log made at request of a coal owner according to Section 45.1-333.B.1 of the Virginia Code? Yes No \underline{X}
Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Section 45.1-333.B.3 of the Virginia Code
<pre>Deviation Surveys Deviation surveys were X were not required under Section 45.1-333.C of the Virginia Code "to the bottom of the lowers published coal seam depth."</pre>
Note: If a deviation survey(s) was/were required, the survey results
are as follows: Depth Feet/Degree Deviated Depth Feet/Degree Deviated
Depth Feet/Degree Deviated Depth Feet/Degree Deviated of Survey From True Vertical From True Vertical
See Attachment

A continuous survey was was not X required, under Section 45.1-333.C of
the Virginia Code.
Note: If a continuous survey was required, the survey results are attached. Changes in the Permitted Well Work:
The well operator did did not X make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under
Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for
the purpose of insuring successful completion of the well work.
NOTE: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.
Confidentiality Status:
Confidentiality status under Section 45.1-332, of the Virginia Code:
The operator requests that information herein and log(s) be kept
confidential (after <u>COMPLETION DATE</u> of the well) for a period of X Ninety (90) days
two (2) years, if the well is exploratory

J. Hatchew Conrad

Geologic	al	General	De	pth		
Age	Formation	Lithology Color	Top	Bottom	Thickness	Remarks
Pennsylvanian	Lee	Sand/Shale/Coal	0	1200	1200	
•	•	Jawbone Coal	1200	1204	4	
		Sand/Shale/Thin Coal	1204	2240	1036	
	Pocahontas	Sand/Shale/Thin Coal	2240	2727	487	Top Salt Sand
Mississippian	Bluestone	Red Rock	2727	2731	4	

DIRECTIONAL SURVEYS PC-419

DEPTH	DEGREES
299'	120
343'	3/4°
370 '	3/4°
638'	3/4°
822'	1°
1068'	1°
1276'	3/4°
1462'	1°
1679'	ļ°
1864	1 °
2081'	1°
2297'	1 ½ °
2515'	1½°
2731'	1°

(USE ONLY:	API Well so.		County	Permit
	Date:		17	19 86
18 18 20 To	Operator's Well No.	P-419		
DEPARTMENT OF DIVIS	AND GAS INSPI LABOR AND INI ION OF MINES ID GAS SECTION MAIN STREET VIRGINIA 242: 703 628-8115	ECTOR DUSTRY		
<u> </u>	WELL PLAT			
+ Denotes location of v graphic Maps, scale 1 t longitude lines are rep	vell on United to 24,000. La	State	and	

This plat is new X / updated /

This plat is X / is not / based on a mine coordinate system established for the areas of the well location.

Well operator	Philadelphia Oil Co.
1989	E. Stone Drive, 2 Executive
Address Park	Place Kingsport, Tenn. 37660
Farm David	Smith
Tract T-145	Acres 789.42 Lease No. PO-148
Elevation	2421.93
Quadrangle	lora, Va.
County Dick	enson District Ervinton
	gineer Registration No.
Certified Land	d Surveyor X Cert. No. 986
File No.	Drawing No. 483
Date 11-17-	

Certification of Well Plat

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 of the Virginia Well Review Board.

Donald B. Spinles 1A. # 986 Registered Engineer of Certified Land Surveyor in Charge