API N	NO. 4	5	051	2	1158	
WELL	NAME:	Squire	Smith	No.	PC-1	
DATE	0c	tober 1	7, 198	8		

LQS-43)



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/ Gasx / 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 yes/ noWELL WORK: Drill _x / Deepen/ Redrill/ Stimulate _x / Plug Off Old Formation/ Perforate New Formation/ 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	
Ninety days from the filing of this report  OR  Two years from September 13, 1988, 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.	
APPLICANT _ Equitable Resources Exploration, Inc.	
BYBrint Camp	
ITSDistrict Geologist	
ADDRESS 1989 E. Stone Drive, Kingsport, TN 37660	
TELEPHONE615-378-5101	

Well	Name	Squire	Smith	No.	PC-1
File	Number	rD:	I <b>-</b> 431		
		1 01	F /ı		

Enhanced Recovery ( ) W	( x ) Gas-Underground Storage (  ) aste Disposal (  )
COUNTY Dickenson	DISTRICT Ervinton
SURFACE ELEVATION2460.43'	QUADRANGLECaney Ridge
LATITUDE 14900'S 37° 05 ' 00."	LONGITUDE 2725 'W 82° 22 ' 30 "
DATE DRILLING COMPLETED 04/23/88  DATE WELL COMPLETED 09/13/88  TOTAL DEPTH OF COMPLETED WELL 2750'	DRILLING CONTRACTOR Union Drilling ADDRESS PO Drawer 40, Buckhannon, WV 26201 TELEPHONE NUMBER 304-472-4610 RIG TYPE X ROTARY CABLE TOOL
GEOLOGICAL DATA FRESH WATER AT (1) FEET SALT WATER AT (1) FEET	GPM: (2) FEET GPM GPM: (2) FEET GPM
COAL SEAMS:         NAME       TOP       BOTTOM       THICK         Poco #1       2637 - 2643         Poco #4       2492 - 2495         Poco #8       2263 - 2265         Lower Horsepen       2109 - 2113	MINING IN AREA  NESS NO XMXXMXXXXXXXX  Warcreek 1988 - 1990  Upper Horsepen 1837 - 1840  Jawbone 1216 - 1219
OIL AND GAS SHOWS: FORMATION TOP BOTTOM THICKNESS	IPF(MCFD/BOPD) PRESSURE HOURS TESTED
using 1029 BBL fluid and 25,000# of 20/40 PERFORATED 2638 TO 2641 NO. OF PERF FORMATION BROKE DOWN AT 1300 PS	ORATIONS 26 PERFORATION SIZE36
using 745 BBL water and 25,000# 20/40 sand PERFORATED 2492 TO 2494 NO. OF PERFORMATION BROKE DOWN AT 3619 PS INITIAL SHUT IN PRESSURE 1220 PSIGNAL PRODUCTION: ( ) NATURAL ( X	FORATIONS 16 PERFORATION SIZE 36 FIG AVERAGE INJECTED RATE 33 BPM F 15 MINUTE SHUT IN PRESSURE 918 PSIG
ZONE (2) FINAL PRODUCTION IF GAS ZONES ARE CO	MINGLED MCFD HOURS TESTED HOURS TESTED

Form 16, Appendix A, Sheet 1 Use Additional Sheets as Needed

Well	Name	Squire	Smith	No.	PC-1
File	Number	DI-	-431		
		2 (	of /		

	on ( ) Gas-Underground Storage ( )
Enhanced Recovery (	) Waste Disposal ( )
LOCATION COUNTY	DISTRICT
	DISTRICT
SURFACE ELEVATION	QUADRANGLE
LATITUDE'S'	" LONGITUDE'W'"
DRILLING DATA	
DATE DRILLING COMMENCED	DRILLING CONTRACTOR ADDRESS TELEPHONE NUMBER
DATE DRILLING COMPLETED	ADDRESS
DATE WELL COMPLETED	TELEPHONE NUMBER
TOTAL DEPTH OF COMPLETED WELL	RIG TYPEROTARYCABLE TOOL
GEOLOGICAL DATA	
FDFCH WATED AT (1) FFFT	CDM • (2) FFFT CDM
SALT WATER AT (1) FEET	GPM: (2) FEET GPM GPM: (2) FEET GPM
(1)1	
COAL SEAMS:	
	MINING IN AREA
NAME TOP BOTTOM TH	IICKNESS YES NO MINED OUT
OIL AND GAS SHOWS: FORMATION TOP BOTTOM THICKNES	SS IPF(MCFD/BOPD) PRESSURE HOURS TESTED
720 BBL water and 25,000# 20/40 sand PERFORATED 2262 TO 2264 NO. OF B FORMATION BROKE DOWN AT 700	PERFORATIONS PERFORATION SIZE notched PSIG AVERAGE INJECTED RATE 24 BPM RG_15 MINUTE SHUT IN PRESSURE 1272 PSIG
using 876 BBL fluid and 30,000# 20/40 PERFORATED 2109 TO 2112 NO. OF	PERFORATIONS PERFORATION SIZE notched
FINAL PRODUCTION: ( ) NATURAL BOD MCFD HOURS TO	PSIG AVERAGE INJECTED RATE 27 BPM PSIG 15 MINUTE SHUT IN PRESSURE 1110 PSIG (X) AFTER STIMULATION ESTED ROCK PRESSURE HOURS TESTED
ZONE (1)	
FINAL PRODUCTION IF GAS ZONES ARE	E COMINGLED MCFD HOURS TESTED
	PSIGHOURS TESTED

Form 16, Appendix A, Sheet 1 Use Additional Sheets as Needed

Well	Name _	Squire Smith No.	PC-1
File	Number	DI-431	
		3 of /	

WELL TYPE: Oil ( ) Gas Production Enhanced Recovery ( ) W	( ) Gas-Underground Storage ( )
LOCATION COUNTY	COLUMN CONTROL OF STATE OF STA
SURFACE ELEVATION	QUADRANGLE
LATITUDE'S'"	LONGITUDE'W'
DRILLING DATA DATE DRILLING COMMENCED DATE DRILLING COMPLETED DATE WELL COMPLETED TOTAL DEPTH OF COMPLETED WELL	DRILLING CONTRACTOR ADDRESS TELEPHONE NUMBER RIG TYPEROTARYCABLE TOOL
GEOLOGICAL DATA FRESH WATER AT (1) FEET SALT WATER AT (1) FEET	GPM: (2)FEETGPMGPMGPM
COAL SEAMS:	
NAME TOP BOTTOM THICK	NESS YES MINING IN AREA NO MINED OUT
OIL AND GAS SHOWS: FORMATION TOP BOTTOM THICKNESS	<pre>IPF(MCFD/BOPD) PRESSURE HOURS TESTED</pre>
Using 542 BBL fluid and 15,000# 20/40 sand PERFORATED 1988 TO 1990 NO. OF PERFFORMATION BROKE DOWN AT 3488 PSINITIAL SHUT IN PRESSURE 960 PSIG	FORATIONS 5 PERFORATION SIZE 36 SIG AVERAGE INJECTED RATE 20 BPM
using 639 BB1 fluid and 20,000# 20/40 sand PERFORATED 1837 TO 1838 NO. OF PERFORMATION BROKE DOWN AT 1570 PSINITIAL SHUT IN PRESSURE 1325 PSICE FINAL PRODUCTION: ( ) NATURAL ( X BOD MCFD HOURS TEST) ZONE (1)	RFORATIONS 7 PERFORATION SIZE .36 SIG AVERAGE INJECTED RATE 22 BPM G 10 MINUTE SHUT IN PRESSURE 990 PSIG
ZONE (2) FINAL PRODUCTION IF GAS ZONES ARE CO	OMINGLED MCFD HOURS TESTED PSIG HOURS TESTED

Form 16, Appendix A, Sheet 1 Use Additional Sheets as Needed

Well	Name	Squir	e i	Smith	No.	PC-1	
File	Numbe	r	r DI-431				
		4	of	4			

WELL TYPE: Oil ( ) Gas Production Enhanced Recovery ( ) W	
LOCATION COUNTY	•
SURFACE ELEVATION	
LATITUDE'S"	LONGITUDE'W'"
DRILLING DATA DATE DRILLING COMMENCED DATE DRILLING COMPLETED DATE WELL COMPLETED TOTAL DEPTH OF COMPLETED WELL	DRILLING CONTRACTOR ADDRESS TELEPHONE NUMBER RIG TYPE CABLE TOOL
GEOLOGICAL DATA FRESH WATER AT (1) FEET SALT WATER AT (1) FEET	GPM: (2) FEET GPM GPM: (2) FEET GPM
COAL SEAMS:  NAME TOP BOTTOM THICK	NESS YES NO MINED OUT
OIL AND GAS SHOWS: FORMATION TOP BOTTOM THICKNESS	IPF(MCFD/BOPD) PRESSURE HOURS TESTED
STIMULATION RECORD  ZONE (7) Jawbone FORMA using 485 BB1 fluid and 20,000# 20/40 sand PERFORATED 1216 TO 1218 NO. OF PERF FORMATION BROKE DOWN AT 2143 PS INITIAL SHUT IN PRESSURE 760 PSIG	TION STIMULATED WITH a waterfrac 20  ORATIONS 9 PERFORATION SIZE
STIMULATION RECORD ZONE ( )FORMA	TION STIMULATED WITH
FORMATION BROKE DOWN AT PSINITIAL SHUT IN PRESSURE PSICE FINAL PRODUCTION: ( ) NATURAL ( X BOD MCFD HOURS TESTER ZONE (1)	MINUTE SHUT IN PRESSURE PSIG
ZONE (2) FINAL PRODUCTION IF GAS ZONES ARE CO	MINGLED 27 MCFD N/A HOURS TESTED PSIG HOURS TESTED

# CASING AND TUBING

## PACKERS OR

	CTZE	mon.	роппом	I ENGMI	PERFORA			E PLUGS
	SIZE	TOP	BOTTOM	LENGTH	FEET TO	FEET	KIND SI	ZE SET AT
CONDUCTOR	11 3/4"		38'					
CASING Circulated and Cement to Surface	Pd		2728 <b>'</b> 527 <b>'</b>					
WATER PROT (Casing Se According Section 45.1-334)	t							
COAL PROTE (Casing Se According Section 45.1-334)	t							
OTHER CASI Tubing Lef In Well			2680' 2680'					
LINERS Remaining In Well	-							
OTHER used	and not							
Is the wel						f Yes,	was coa	1
REMARKS:	Shut dow	n, fis	shing job	s, depths	and date	es, cav	ing, etc	

DRILLER'S LOG
Compiled by

Brint Camp

Geological	L	General		De	pth		
Age	Formation	Lithology	Color	Top	Bottom	Thickness	Remarks
Pennsylvanian	Sand, Shale,	Coal		0	2750	2750	

Form 16, Appendix A Sheet 3	Well Name	Squire Smith	No. PC-1	
Samples and Cuttings Will X Will not be available for Virginia Division	examination of Mineral	by a member	of the	
Will X Will not be furnished to t	he Virginia	Division of	Mineral	
Will Will not X require sacks to Division of Miner	be furnished	by the Virg	inia	
Electric Logs and Surveys: Type of Electric Log(s) Ran: FDC	C, LDT, TEMP			
Did log disclose vertical location	of a coal se	eam? Yes <u>X</u>	No	
Was log made at request of a coal owner according to Section 45.1-333.B.1 of the Virginia Code? Yes $\underline{x}$ No $\underline{}$				
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				
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."				
Note: If a deviation survey(s) was are as follows:	/were requir	red, the surv	vey results	
Depth Feet/Degree Deviated of Survey From True Vertical	Depth of Surv		egree Deviated True Vertical	
See Attachment				
A continuous survey waswas not X the Virginia Code.	required,	under Section	on 45.1-333.C of	
Note: If a continuous survey was r Changes in the Permitted Well Work:	equired, the	e survey resu	lts are attached.	
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 NOTE: The nature and purpose of earlies below or on additional sheet	ach such char	nge, if any,		
Confidentiality Status:	- 45 1-222	af the Wissi	oia Cada.	
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 ofNinety (90) days				
X two (2) years, if the well i	s explorato	ry		

## DIRECTIONAL SURVEYS

# PC-1

DEPTH	DEGREES
200'	1°
420	3/4°
639'	1 1/2°
796 <b>'</b>	1 1/4°
1015'	1 1/2°
1204	1 1/2°
1422	1 1/4°
1642'	1 1/2°
1859'	1 1/2°
2047	1 1/4°
2263'	1 1/4°
2484	1°
2702'	1°

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Well Name Squire Smith No. PC-1
File Number DI-431
1 of 4

WELL TYPE: Oil ( ) Gas Production Enhanced Recovery ( ) W	( x ) Gas-Underg	ground Storage ( )
LOCATION	DICMDICM	
COUNTY Dickenson	DISTRICT	Ervinton
SURFACE ELEVATION 2460.43'	QUADRANGLE	Caney Ridge
LATITUDE 14900'S 37° 05 ' 00."	LONGITUDE 2725	82° 22 30 "
DRILLING DATA  DATE DRILLING COMMENCED 04/19/88  DATE DRILLING COMPLETED 04/23/88  DATE WELL COMPLETED 09/13/88  TOTAL DEPTH OF COMPLETED WELL 2750'	DRILLING CONTE ADDRESS PO DE TELEPHONE NUMBERIG TYPE X	RACTOR Union Drilling  Tawer 40, Buckhannon, WV 26201  BER 304-472-4610  ROTARY CABLE TOOL
GEOLOGICAL DATA FRESH WATER AT (1) FEET	GPM: (2)	FEET GPM
FRESH WATER AT (1) FEET SALT WATER AT (1) FEET		FEET GPM
COAL SEAMS:    NAME	NESS XXES Warcreek Upper Hors	INING IN AREA  NO XMXNEXXXXXXXX  1988 - 1990  sepen 1837 - 1840
Poco #8 2263 - 2265	Jawbone	1216 - 1219
Lower Horsepen 2109 - 2113		
OIL AND GAS SHOWS: FORMATION TOP BOTTOM THICKNESS		
STIMULATION RECORD  ZONE (1) Poco #1 FORM  using 1029 BBL fluid and 25,000# of 20/40  PERFORATED 2638 TO 2641 NO. OF PERI  FORMATION BROKE DOWN AT 1300 PI  INITIAL SHUT IN PRESSURE 1500 PSIG	FORATIONS 26 SIG AVERAGE INJ	PERFORATION SIZE
using 745 BBL water and 25,000# 20/40 sand	d.	ED WITH water and sand frac
PERFORATED 2492 TO 2494 NO. OF PE FORMATION BROKE DOWN AT 3619 P INITIAL SHUT IN PRESSURE 1220 PSI FINAL PRODUCTION: ( ) NATURAL ( ) BOD MCFD HOURS TEST	SIG AVERAGE INC G 15 MINUTE SHO () AFTER STIMUI	JECTED RATE 33 BPM JT IN PRESSURE 918 PSIG
ZONE (1)		
ZONE (2) FINAL PRODUCTION IF GAS ZONES ARE C	OMINGLED	MCFD HOURS TESTED
FINAL PRODUCTION II GAS BONES ARE C		PSIG HOURS TESTED

