API NO. 45 - 051 - 21092

WELL NAME: New York Mining & Mfg. Co., PC-436

DATE July 25, 1990

DI1403

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) of 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 yes _x / no WELL WORK: Drill _x / Deepen/ Redrill/ Stimulate _x / Plug Off Old Formation/ Perforate New Formationx / 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, 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
BY J. Matthew Conrad
ITSGeologist
ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660
ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660, TELEPHONE 615-378-5101

Vell	Name	NY	Mining	&	Mfg.	Co.,	PC-436
rile	Numbe		DI-				

COMPLETION REPORT

WELL TYPE: Oil () Gas Production Enhanced Recovery ()	(x) Gas-Underground Storage () Waste Disposal ()
LOCATION	, ,
COUNTY Dickenson	DISTRICT Ervinton
SURFACE ELEVATION2308.44'	QUADRANGLECaney Ridge
LATITUDE 11,130 'S 37° 05 ' 00"	LONGITUDE 6,920 W 82° 22 30 "
DRILLING DATA DATE DRILLING COMMENCED 3/4/90 DATE DRILLING COMPLETED 3/9/90 DATE WELL COMPLETED 5/17/90 TOTAL DEPTH OF COMPLETED WELL 2561	DRILLING CONTRACTORUnion_DrillingADDRESS Drawer 40, Buckhannon, WV 26201TELEPHONE NUMBER304-472-4610RIG TYPEx ROTARYCABLE TOOL
GEOLOGICAL DATA FRESH WATER AT (1) 164 FEET ½" SALT WATER AT (1) FEET	str GPM: (2) FEET GPM GPM: (2) FEET GPM
COAL SEAMS:	
COLL BRILLS.	MINING IN AREA
NAME TOP BOTTOM THIC	CKNESS XES NO MINIEDXXXXX
U. Horsepen 1651-1652 1 L. Horsep	pen 1929-1930 1 Poco #2 2394-2395 1
M. Horsepen 1685-1686 1 X-Seam	1993-1994 1 Poco #1 2432-2434 2
Warcreek 1799-1800 1 Poco #6	2160-2161 1
Unnamed C 1837-1838 1 Poco #5	2254-2255 1
Beckley 1865-1866 1 Poco #4 OIL AND GAS SHOWS:	2280-2281 1
	IPF(MCFD/BOPD) PRESSURE HOURS TESTED
None Record	led
STIMULATION RECORD Poco #1, Poco 2, Po ZONE (1) Unnamed c, Warcreek, M & L Horespen FORM using 617 bbls fluid, 1,280,000 ScfN2 & 16,	ATION STIMULATED WITH _750 Limited Entry_
PERFORATED 1651 TO 2434 NO. OF PER	REFORATIONS 16 PERFORATION SIZE .36
FORMATION BROKE DOWN AT 1950 F	PSIG AVERAGE INJECTED RATE 15.7 BPM
INITIAL SHUT IN PRESSURE 2160 PSIG	5 MINUTE SHUT IN PRESSURE 1730 PSIG
STIMULATION RECORD ZONE (2)FORM	ANTON CTIMILATED WITT
PERFORATED TO NO. OF PE	ERFORATIONS, PERFORATION SIZE PSIG AVERAGE INJECTED RATE BPM BC MINUTE SHUT IN PRESSURE PSIG
FORMATION BROKE DOWN AT	SIG AVERAGE INJECTED RATE BPM
INITIAL SHUT IN PRESSURE PSI	G MINUTE SHUT IN PRESSURE PSIG
FINAL PRODUCTION: () NATURAL (BOD MCFD HOURS TEST	x) AFTER STIMULATION TED ROCK PRESSURE HOURS TESTED
ZONE (1)	
ZONE (2)	TOUTNALED LAS WARD WATER TO THE
FINAL PRODUCTION IF GAS ZONES ARE C	그 이 프로그리아 그 보다 그 아니는 그는 그를 살았다. 그는 그를 하지만 사람들이 그는 그를 하는 것이 있다면 하는 것이 모든데 되었다. 그런데
t - This is not an absolute open flow.	PSIG HOURS TESTED

CASING AND TUBING

PACKERS OR

	SIZE	TOP	BOTTOM	LENGTH	PERFORATIONS FEET TO FEET	BRIDGE PLUGS KIND SIZE SET A
CONDUCTOR	11 3/4"		26'			
CASING Circulated and Cement to Surface	ed					•
WATER PROT (Casing Se According Section 45.1-334)	to to		354'			
COAL PROTE (Casing Se According Section 45.1-334)	et					
OTHER CAST Tubing Lef In Well	Et 43"		2521' 2484'			
LINERS Remaining In Well						
OTHER used	d and not		***		÷	
Is the well protection	ll underl n string	ain by set to	Red Sha	le <u>x</u> Yes les? <u>x</u> Y	No, If Yes	, was coal
REMARKS:	Shut dow	n, fis	shing job	s, depths	and dates, ca	ving, etc.
					:	

Confidentiality status under Section 45.1-332, of the Virginia Code: The operator requests that information herein and log(s) be kept confidential (after COMPLETION DATE of the well) for a period of

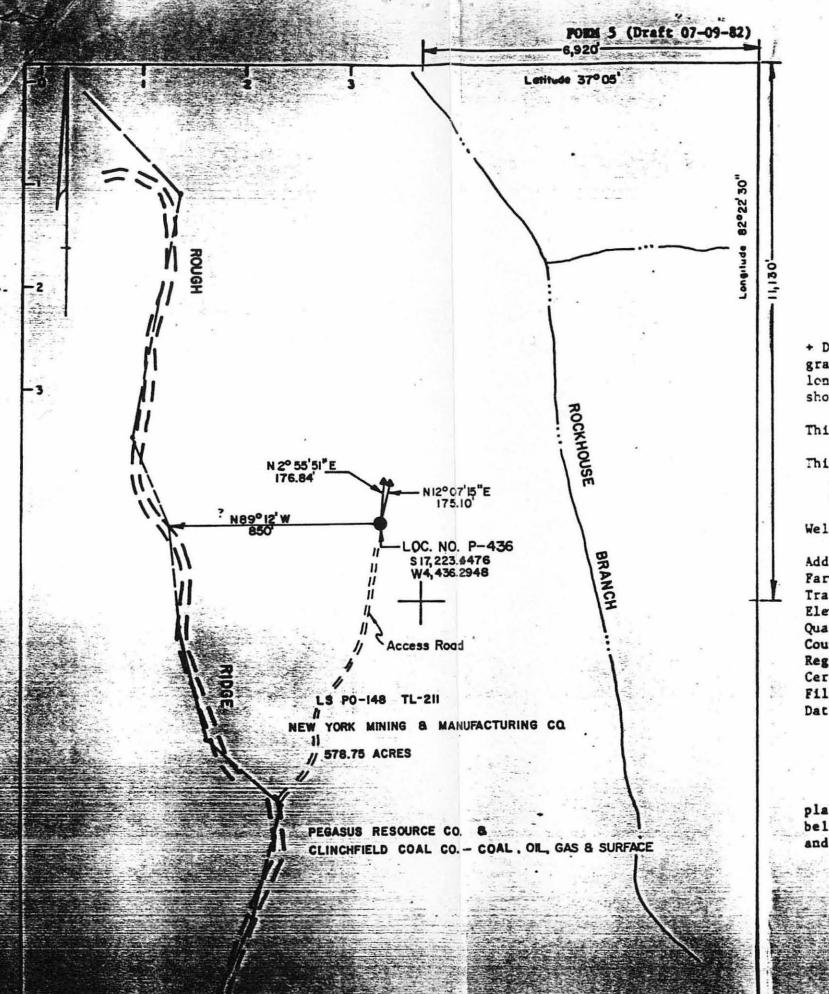
X Ninety (90) days

two (2) years, if the well is exploratory

Geological		General	De	epth		×	
Age	Formation	Lithology Color	r Top	Bottom	Thickness	Remarks	
nnsylvanian	Lee	Sand/Shale/Thin Co	oal 0	1024	1024		
9397 C. J. C. J. C.		Jawbone Coal	1024	1026	2		
		Sand/Shale/Thin Co	oal 1026	1928	902		
		L. Horsepen Coal	1928	1930	2		
		Sand/Shale	1930	1992	62		
		X-Seam	1992	1994	2		
		Shale	1994	2004	10		
	Pocahontas	Sand/Shale/Thin Co	oal 2004	2110	106		
		Poco #6 Coal	2110	2112	2		
		Sand/Shale/Thin Co	oal 2112	2279	267		
		Poco #4 Coal	2279	2281	2		
		Sand/Shale/Thin Co	oal 2281	2432	151		
		Poco #1 Coal	2432	2436	4		
		Sand & Shale	2436	2550	14		
ississippian	Bluestone	Red Shale	2550	2561	11		

DIRECTIONAL SURVEY PC-436

DEPTH	DEGREES
227	1 °
440	1 °
661	1 °
881	1½°
1101	1 °
1288	1½°
1570	1½°
1790	1½°
1980	1½°
2168	1½°
2387	1 °
2576	1 °



OFFICE ONLY:	API Well	No.		County	Per	mi
	Date:		1-	7•	19_	87
	Operator	18				

VIRGINIA OIL AND GAS INSPECTOR
DEPARTMENT OF LABOR AND INDUSTRY
DIVISION OF MINES

Well No.

OIL AND GAS SECTION 205 W. MAIN STREET ABINGDON, VIRGINIA 24210 PHONE 703 628-8115

WELL PLAT

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Latitude and longitude lines are represented by border lines as shown.

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
1989 E. Stone Drive, ? Executive
Address Park Place Kingsport, Tenn. 3766
Farm New York Mining & Manufacturing Co.
Tract TL-211 Acres 578.75 Lease No.
Elevation 2308.44
Quadrangle Caney Ridge, Va.
County Dickenson District Ervinton
Registered Engineer Registration No.
Certified Land Surveyor 7. Cert. No. 956
File No. Drawing No. 1687
Date 1-7-86 Scale 1"=400'

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.

Registered By most or Certified Land Surveyor in Charge