W5-416

311819202723

Department of Mines, Minerals and Energy Division of Gas and Oil Operations Name: PVRC (Kemmerer) VCP3098

Permit #: 2558

Department of Mines, Minerals and Energy Division of Gas and Oil P. O. Box 1416 Abingdon, Virginia 24210

	ADTINGUOLIA TITI GILLIA ENELLA	(16)
	703/676-5423	(\$ 1 P)
	COMPLETION REPORT	MAR 1995 RECEIVED DIVISION OF GAS & OIL DID=2640.05 DEZI-
WELL TYPE: Oil Gas Coalbed Meth	ane X or Injection — well	DIVISION OF GAS & OIL
Date Well Completed: 12-20-93	Total Depth of	wett: LTD=2640. DTD=2640.
Attach the Drilling Report, if not previou	sly submitted. In addition, submit	any changes in casing or tubing that were
approved after the Drilling Report was sub	mitted.	
STIMULATION RECORD	To the control of the	70 0 Face
Zone 1: Coal Seam*		
w/3900# 20/40 sand - 8400# 1	2/20 = /03130 SCF N ₂ = 318	Destauration Sierre 3 1/9 UCC
Perforated: 2443 TO 2449	No. of Perforations: 13	Perforation Size: 3 1/8 HSC
rormation Broke pown at:	2829 PSIG Average Injection Rate	ge Injection Pressure 3518 PSIG
Date Stimulated 12-20-93	- Lary MAGIN	ge Injection PressurePSI
Zone 2: Coal Seams**	Bananian Cainulanad Nich.	70 O Foam
w/12257 12/20 sand - 728300	SCE No - 374 BF - 600 gal	7.5% HCL acid
		Perforation Size: .34"
Formation Broke Down at: N/A		
		ge Injection Pressure 3631 PSIG
Date Stimulated 12-20-93		ge injection riesadie rata
**Norton, Kennedy, Raven	_	
Zone 3:	Formation Stimulated With:	
	Settler Manage-contents of Control Anapoles (Anthrop Control C	
Perforated:TO	No. of Perforations:	Perforation Size:
Formation Broke Down at:		
ISIP PSIGMIN	SIP PSIG Avera	ge Injection Pressure PSIG
Date Stimulated		
FINAL PRODUCTION: Natural	- 1000000000000000000000000000000000000	
	MCFD HOURS TESTED	ROCK PRESSURE HOURS TESTED
Zone (1)		
Zone (2)		
Zone (3)	. 12 6	200 /0
Final Production if Gas Zones are Commingl	.ed 12 MCFD 0 Hours T	ested 390 PSIG 48 Hours Tested
* Use additional sheets with this format,	if more than those (3) sense were se	in large
- ose determine stocks with this format,	This e than three (3) Zones were st	nautated.
Permittee: EO	DUITABLE RESOURCES EXPLORATION	(Company)
ву:	expl a. aung	(Signature)
Form DGO-GO-15	U	

Form DGO-GO-15 Rev. 9/91 Department of Mines, Minerals and Energy Division of Gas and Oil

Operations	Name:	PVRC	RC (KEMMERER)		VCP3098	
•				2558		

Department of Mines, Minerals and Energy
Division of Gas and Oil
P. O. Box 1416
Abingdon, Virginia 24210
703/676-5423

DRILLING REPORT

Pursuant to VR-480-05-22.	1, § 1.36, the unde	rsigned Permitt	ee submits this report	on Well VCP	3098 in the
GLADEVILLE	District of the	WISE	County,	Virginia on	24TH day,
	, 19 <u>94</u> .				
LOCATION					
County: WISE			t: GLADEVILLE		
Surface Elevation: 23					
3255 FT. S.	of Latitude 37°	001 00" ar	nd 1335 FT. W. c	of Longitude 82	45' 00"
Attach a final Location p	olat as required by	VR 480-05-22.1	1, 5 1.36.		
DRILLING DATA					
Date Drilling Commenced: Date Drilling Completed:	12-07-93		_ Drilling Contractor:		
Date Drilling Completed:	12-13-93		Rig Type: X Rotary	Cable To	pol
Total Depth of Well:	LTD=2644 DT	D=2640	-		
GEOLOGICAL DATA					
Fresh Water at: 5	R Feet 1/4"ST	REAM AND	Feet	GPM	
	5 Feet DAMP		Feet		
	Feet		Feet		
	Feet		Feet		
-					
COAL SEAMS:				MINING	IN AREA
NAME	TOP	BOTTOM	THICKNESS	YES NO	MINED OUT
UPPER CLINTWOOD	716	718	2		
KENNEDY	1556	1559	3		
WARCREEK	2443	2449	6		
GAS AND OIL SHOWS: NO	NE REPORTED		-		
	OP BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
	-				

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Department of Mines Division of Gas and		.ax	Opera	tions Name: P	VRC (KEMMERE) Permit #: 255		
Cuttings or samples							esquirces
ELECTRIC LOGS AND S	SURVEYS						
List logs run on we	ellbore: LDT	TEMP/GR					
Did log disclose ve	ertical location of	a coal seam?	Yes X	10			
221 413 605 802 848 1021	1/2° 3/4° 1/2° 1/2° 1/2° 1/4° BULL'S EYI	CAL	DEPTH OF SURVEY 1642 1800 2045 2248 2261 2446		/DISTANCE/DEGREES TRUE VERTICAL 3/4° 1/2° 1/4° 3/4° 3/4° 1/4°	s - - - -	
1209	3/4° 1/2°		2568 2640		1/4° 3/4°	-	
			CASING AND TO	UBING			
	SIZE	TOP BOTTO	DE LENGTH	CEMENT USE		PACKERS OR BRIG	SET AI
Conductor	11 3/4"	48	38'				
Surface	8 5/8"	366	356'	100(118)	12-08-93		
Water Protection							
Coal Protection							
Other Casing and Tubing Left in	4 1/2" 1 Well 2 3/8"	2611 2515		470(607)	12-13-93		
Liners							
REMARKS: Shut dow	un, fishing jobs, do	epths and dates	, caving, lost	circulation, et	:c		

WS-416

Department of Mines, Minerals and Energy Division of Gas and Oil

Operations Name: PVRC (Kemmerer) VCP3098 Permit #: 2558

Department of Mines, Minerals and Energy Division of Gas and Oil P. O. Box 1416

	P. O. Box 1416	10.19	2027
	Abingdon, Virginia 24210	6776	1555
	703/676-5423	1500	18
		/ 2	12
	COMPLETION REPORT	/₽ MAH	1995
		P RECI	EIVED B
WELL TYPE: Oil Gas Combod Methane	X or Injection well	E DIVIS	1995 EIVED 2728 100N OF & OIL OF THE PROPERTY
		GAS.	& OIL &/
Date Well Completed: 12-20-93	Total Beath of	uell LTD=2654 DT	D=2640-6
Date sett compteted:	Total septil of	50	271
Attach the Drilling Report, if not previously	submitted In addition submit	any changes in casing or the	bing that were
		any changes in casing of the	is ing the state
approved after the Drilling Report was submitt	ec.		
STIMULATION RECORD		70 0 F	
Zone 1: Coal Seam*			
w/3900# 20/40 sand - 8400# 12/2	0 - 705130 SCF N2 - 318	ВГ	2 1/2 1/2
Perforated: 2443 To 2449	No. of Perforations:13	Perforation Size	3 1/8 HSC
Formation Broke Down at: 1343	PSIG Average Injection Rate	20 BPM (DH)	
ISIP 2998 PSIG 5 MIN SIP	PSIG Avera	age Injection Pressure3	518 PSIG
Date Stimulated 12-20-93			
Warcreek			
Zone 2:Coal Seams**	Formation Stimulated With:	70 Q Foam	
w/12257 12/20 sand - 728300 SCF	N ₂ - 374 BF - 600 gal	7.5% HCL acid	
Perforated: 927 to 1813.5	No. of Perforations: 10	Perforation Size	. 34"
Formation Broke Down at: N/A			
ISIP 2154 PSIG 5 MIN SIP	1610 PSIG Aver	age Injection Pressure 36	31 PSIG
Date Stimulated 12-20-93			
**Norton, Kennedy, Raven			
Zone 3:	Formation Stimulated With:		
Perforated:TO	No of Perforations:	Denforation Size	
Formation Broke Down at:			
ISIP PSIG MIN SIP	PSIG AVERS	age injection Pressure	PS16
Date Stimulated			
V			
FINAL PRODUCTION: NaturaL X	After Stimulation		
	CFD HOURS TESTED	ROCK PRESSURE	HOURS TESTED
Zone (1)			
Zone (2)			
Zone (3)			
Final Production if Gas Zones are Commingled	12 MCFD 6 Hours	Tested 390 PSIG	48 Hours Tested
* Use additional sheets with this format, if	more than three (3) zones were st	timulated.	
Permittee: EQUIT.	ABLE RESOURCES EXPLORATION	(Company)	
	.00	tracker.	
By: Closent	d. duy	(Signature)	
	7	77, 77	
· · · · · · · · · · · · · · · · · · ·	Ø.		

Form DGO-GO-15 Rev. 9/91

Department of Mines, Minerals and Energy Division of Gas and Oil

perations Name:	PVRC	PVRC (KEMMERER)		VCP3098	
	Permit	#:	2558		

Department of Mines, Minerals and Energy
Division of Gas and Oil
P. O. Box 1416
Abingdon, Virginia 24210
703/676-5423

DRILLING REPORT

	5-22.1, § 1.36, the und				
	District of the	WISE	County,	Virginia on 24	TH day,
	month, 19 <u>94</u> .				
LOCATION					
county: WISE		Nistric	t:GLADEVILLE		
Surface Slaverices	2333.42' Elevation				ITA.
	T. S. of Latitude 37°				
F	1. S. of Catitude 37	00 00 ai	10 FI. V. C	t Long Lude oz	+5 00
Attach a final Locat	ion plat as required b	y VR 480-05-22.	1, 5 1.30.		
DRILLING DATA	. 12 07 02			INTON DRILL	TNC
Date Drilling Commen	ced: 12-07-93 ted: 12-13-93		Drilling Contractor:		LING
Date Drilling Comple	ted: 12-13-93		Rig Type: X Rotary	Cable Tool	
Total Depth of Well:	LTD=2644 DT	D=2640	-		
GEOLOGICAL DATA					
Fresh Water at:	58 Feet 1/4"ST		Feet	GPM	
	705 Feet DAMP	SPH _	Feet	GPM	
Salt Water at:	Feet		Feet	GPM	
	Feet		Feet		
COAL SEAMS:				MINING I	AREA
NAME	TOP	BOTTOM	THICKNESS	YES NO	MINED OUT
UPPER CLINTWO		718	2		
KENNEDY	1556	1559	3		
WARCREEK	2443	2449	6		
HILICIALIA	6445	2447			-
				-	
GAS AND OIL SHOWS:	NOVE DESCRIPTION				
	NONE IMPORTED	7/17/0/200	(
FORMATION	TOP BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
		-			

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Operations Name: PVRC(KEMMERER) VCP3098 Department of Mines, Minerals and Energy Permit #: 2558 Division of Gas and Oil Cuttings or samples are $\underline{\underline{}}$ are not $\underline{\underline{X}}$ available for examination by a member of the Virginia Division of Mineral Resources Cuttings or samples have not X been furnished to the Virginia Division of Mineral Resources ELECTRIC LOGS AND SURVEYS List logs run on wellbore: _____LDT/TEMP/GR Did log disclose vertical location of a coal seam? Yes X No ____ SURVEY RESULTS DEPTH DIRECTION/DISTANCE/DEGREES DEPTH DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL OF SURVEY FROM TRUE VERTICAL OF SURVEY 221 1/2° 1642 3/40 3/4° 1/2° 413 1800 1/2° 605 2045 1/40 1/2° 3/4° 802 2248 1/40 848 3/40 2261 1021 BULL'S EYE 2446 1/4° 1209 3/4° 1/40 2568 1/20 1424 3/4° 2640 CASING AND TUBING CEMENT USED DATE PACKERS OR BRIDGE PLUGS SIZE TOP BOTTOM LENGTH (IN CU/FT) CEMENTED KIND SIZE SET AT 11 3/4" 481 38' Conductor Surface 8 5/8" 366' 356' 100(118) 12-08-93 Water Protection Coal Protection 4 1/2" Other Casing 2611' 2601' 470(607) 12-13-93 and Tubing Left in Well 2 3/8" 2515' Linera REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.

Department of Mines, Minerals and Energy Division of Gas and Oil

Operations Name: PVRC(KEMMERER) VCP3098

Permit #: 2558

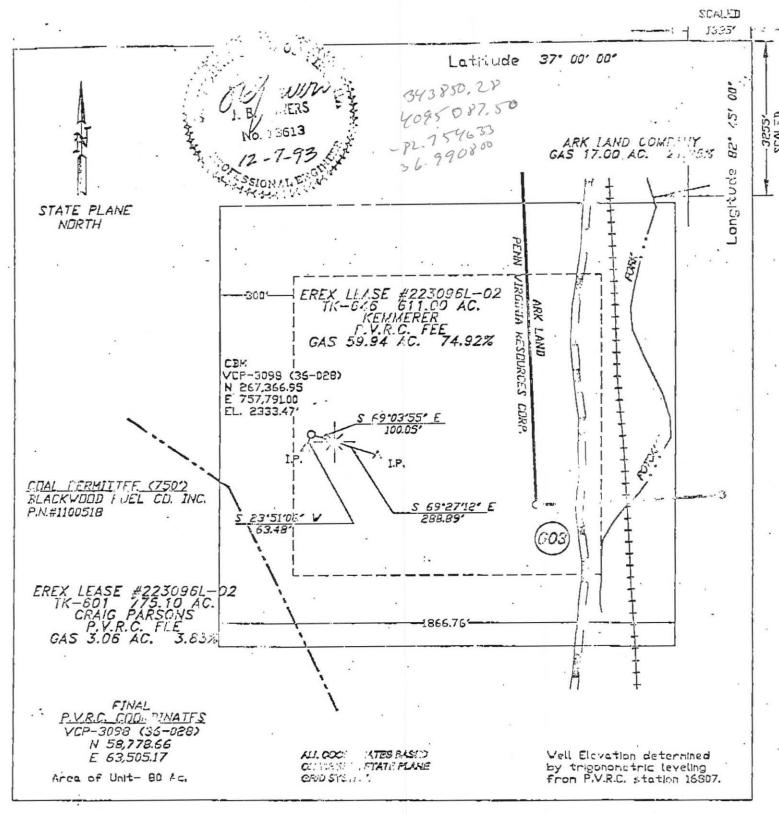
DRILLER'S LOG

Compiled by ENGINEERING

GEOLOGIC	GENERAL	DEPT	H		
AGE	FORMATION LITHOLOGY CO	OLOR TOP	BOTTOM	THICKNESS	REMARKS
NNSYLVANIAN	SAND, SHALE & THIN COALS	0	716	716	
	UPPER CLINTWOOD COAL	716	718	2	
	SAND, SHALE & THIN COALS	718	1556	838	
	KENNEDY COAL	1556	1559	3	
	SAND, SHALE & THIN COALS	1559	2443	884	
	WARCREEK COAL	2443	2449	6	
	SAND, SHALE & THIN COALS	2449	2644	195	
	LOGGER'S TOTAL DEPTH		2644		

Permittee: EQUITABLE RESOURCES EXPLORATION

Form DGO-GQ-14 Rev. 9/91



WELL LOCATION PLAT

1-F-81

Company EQUITABLE RESOurces EXPLORATION Well Name and Number VCP-3098 (36-028)

Tract No. 646 Elevation 2333.47' Quadrangle APPALACHIA

County VISE District GLADEVILLE Scale: 1' = 400' Date 12/07/93

This plat is a new plat 1 an updated plat 1 or a final location plat X

Denotes the location of a well on United States topographic Maps; scale 1 to 24,000, latitude and longitude lines being respresented by border lines as shown.

J.B. POWERS